



# GATES INDUSTRIAL

**Hose, Couplings & Equipment**



## WARNING

Gates Corporation recommends Industrial hoses for normal service as described in this catalog. Other applications should be referred to your respective marketing representative.

**In any application, there may be inherent risk of bodily injury or property damage and the user is responsible for implementation of adequate safety precautions. It is the responsibility of the person supplying the hose to advise the user of proper instructions for the adequate safe use and/or precautions and to warn the user of consequences of failure to heed such instruction. Should a hose assembly fail during use because of excessive pressure, injurious and/or damaging chemicals, elevated temperature materials, explosives or flammable materials, then serious bodily injury or destruction of property could result from impelled couplings, whipping hose, high pressure or high velocity discharge, chemical contact, high temperature materials, explosion or fire.**

In known high risk areas, it is recommended that hose inspections be performed at frequent intervals related to the risk factor. Hose with obvious damage should be scrapped and replaced. These inspections should include tube and cover conditions, leaking or slipped couplings and proof test.

Detailed information concerning storage, care and maintenance may be found in the Hose Handbook published by The Rubber Manufacturers' Association, 1901 Pennsylvania Avenue, N.W., Washington, D.C. 20006 and in SAE Recommended Practices J1273.

### IMPORTANT

Gates recommends only those applications of products specified in Gates product literature.

Gates disclaims any liability for use of its products in applications other than those for which they were designed.

## Service Life

All rubber products, including Industrial Hose assemblies, have a limited life on a given application. Assuming the correct hose has been selected for the application, this service life can be adversely affected by many variable conditions. The major ones are:

- Exposure to severe external abuse such as kinking, bending, high end pull, crushing or abrasion.
  - Exposure to higher-than-rated working pressures or to high surge pressures.
  - Exposure to higher-than rated temperatures.
  - Misapplication or exposure to corrosive liquids or gases outside the range of suitable applications.
1. **External abuse**—hoses should be placed where they will not be run over by equipment or subjected to high end pull. Hoses should not be bent below recommended minimum bend radius. This could result in kinking the hose or reducing its pressure resistance. Large diameter hoses also may require additional support to reduce external abuse.
  2. **Hose & System Pressures**—In establishing and determining pressures related to hose and the systems to which they are applied, it is necessary to consider separately the characteristics of the hose and the system.
    - The system (or device or application) can have several pressures depending on pressure sources and surges imposed by the operator or mechanical components.
    - A given hose has a fixed characteristic with respect to the pressure it can withstand (and how it is applied) and still give satisfactory life.
  3. **High Temperatures**—The allowable temperature ranges for industrial hoses are shown on Page 6. These are for product temperatures and should not be exceeded. High temperatures can degrade rubber stocks very quickly resulting in short service life. Where external temperatures are higher than normal ambient, contact your Gates field representative for recommendations.
  4. **Misapplication**—All industrial hoses are designed for a certain specific application or related application. They should not be used for any other applications.
  5. **Hose Information**—Refer to the following pages for details of hose construction and physical characteristics. These are shown in the data pages and include such items as rated working pressure, vacuum rating, minimum bend radius and static conductivity ratings.

6. **Internal Abrasion**—For applications of a highly abrasive nature where the hose makes one or more bends, hose should be rotated 90° periodically to lengthen service life.

The hose manufacturer established, through design and testing, the recommended rated working pressure for the hose. It is the responsibility of the user to accurately determine the system pressure. Steady state pressure can be measured readily by gauges. Surges are difficult to measure and may require the use of electronic pressure pickup devices. Also, surge values depend on so many variables that a series of tests are usually required to obtain a valid set of readings. However, if there are extreme surges in the normal operation, or if there is the likelihood of abnormal operation of the system, the magnitude must be determined.

Considering the recommended rated working pressure of the HOSE and the various pressures of the SYSTEM, the hose is matched to the system using proper application engineering principles.

### WARRANTY

#### GATES CORPORATION LIMITED WARRANTY

The Gates Corporation ("Gates") product is warranted to be free from defects in material or workmanship for twenty-four (24) months from the date of delivery to Customer. Gates will, at its option, replace or repair any merchandise proved defective in material or workmanship, or both. In no event will Gates honor any warranty claim unless it is notified of the claim within six (6) months of the expiration of the warranty period. This shall be the sole remedy for breach of warranty.

This is the exclusive remedy, limited to the Customer's purchase price of the product. Damage to the product due to abuse, misuse, improper use, inadequate maintenance, or failure to follow published installation, use and service recommendations automatically voids this warranty. For warranty service, please contact the Customer Service Department of Gates Corporation, 1551 Wewatta Street, Denver, Colorado 80202.

ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXPRESSLY DISCLAIMED. IN NO EVENT WILL GATES BE LIABLE TO ANY PARTY FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY AND INDIRECT DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, REGARDLESS OF WHETHER SUCH DAMAGES WERE REASONABLY FORESEEABLE, OR WHETHER GATES HAD KNOWLEDGE THAT THEY COULD OCCUR.

Some states do not allow the exclusion or limitation of incidental or consequential damages, and some states do not allow limitations on how long an implied warranty lasts, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



**Table of Contents**

<b>Description</b>	<b>Page</b>
Warranty.....	Inside Front Cover
Warning.....	Inside Front Cover
Service Life.....	Inside Front Cover
Index by Specification.....	2
Index of Industrial Hoses by Name and Number.....	3-4
Index of Industrial Hoses by Application.....	5-6
Hose Temperature Ranges.....	7
Selection of Hoses and Couplings.....	8
Ends for Gates Hoses.....	9
Industrial Hose Categories:	
Acid-Chemical Hose.....	10-19
Air and Multi-Purpose Hose.....	20-37
Food and Beverage Hose.....	38-50
Marine Hose.....	51-66
Material Handling Hose.....	67-73
Mining Hose.....	74-79
Oilfield Hose.....	80-96
Petroleum Transfer Hose.....	97-114
Pressure Washer.....	115-119
Steam Hose.....	120-123
Water Hose.....	124-131
Crimper.....	132
Clamps.....	133-134
Hose Couplings.....	135-139
Coupling Information.....	140-149
RMA Definitions, Abbreviations and Tolerances.....	150-151
Hose Maintenance, Cleaning and Storage.....	152-154
Industrial Hose Finder.....	155-174
Characteristics of Hose Stock Types.....	175-178
Chemical Resistance Table.....	179-207

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





## TERMS, CONDITIONS AND TRANSPORTATION POLICY

### TERMS POLICY

As shown on applicable discount schedule.

#### Conditions

- Prices do not include charges for special packaging, which will be extra, unless otherwise specified.
- Prices are subject to change without notice.
- Buyer shall reimburse Seller for all taxes, excise or other charges. Seller may be required to pay to any government (Federal, State or local) upon the sales, use, production or transportation of the merchandise sold hereunder.
- Seller shall be excused and not liable for delays caused by Buyer's request, labor troubles, shortages in materials, damage to plant, government regulations or other cause, similar or otherwise beyond Seller's control.

### TRANSPORTATION POLICY

All prices are F.O.B point of shipment. The "F.O.B. point of shipment" term means that the title to the goods passes to the consignee (customer) at time of shipment and any claims against the carrier for loss or damage become the responsibility of the consignee.

- Freight terms: As shown on applicable discount schedule. F.O.B. point of shipment, and shipped to any one location served by common carrier within the Continental United States, Hawaii or Alaska. On shipments to Hawaii or Alaska, shipment by sea service is considered common carrier.
- Industrial Hose Products must be shipped to the location issuing the purchase order.
- Nonstock or special manufactured items will stand on their own for freight allowance, F.O.B. point of manufacture.
- Partial shipments made at Gates discretion will be shipped prepaid provided the original order qualified for prepaid shipment.

## Index by Specification

SPEC	PAGE	SPEC	PAGE	SPEC	PAGE
3129F, 3129H, 3129L.....	67	3284D, E, G, H, R, Y .....	23	4663A .....	34
3131 .....	42	3333 .....	37	4663J .....	35
3132C .....	39	3602EL .....	121	4663K .....	65
3132C/3132H .....	38	3603PW .....	117	4684CF .....	59
3132D .....	46	3605 .....	120	4685WG .....	54
3132LW .....	40	3618/3618GL.....	78	4686AR/4686DC .....	124
3132P .....	43	3618/3618Y .....	79	4686AT .....	125
3133 .....	41	3618HT.....	77	4686ME .....	58
3135SP.....	126	3618MT .....	76	4687R .....	100
3137M .....	127	3619G/3619GL.....	33	4688AC, AF.....	98
3137ME .....	57	3619M .....	74	4688CC/4688DC .....	97
3137T .....	128	3619MC/3619MY.....	75	4688CN .....	99
3150B .....	107	3624.....	114	4688SH .....	104
3200R/3200B.....	27	3658F .....	60	4688SS .....	106
3202T/3202TW.....	22	3670H, 4651RL, ZL.....	95	4688V .....	101
3204BL, GR, YL.....	31	4040A .....	66	4689M .....	64
3204E .....	29	4110DW.....	102	4691HA/4691HC .....	69
3204E/3204S .....	28	4110SH.....	103	4691L .....	68
3204EB/3204SB .....	30	4110SS .....	105	4691V .....	70
3205R .....	25	4129A .....	71	4693B .....	44
3206 .....	26	4169A .....	53	4693R .....	45
3207NN/3207T .....	19	4171 .....	55	4695/4695G.....	12
3213B/3325T .....	119	4175EC .....	51	4695M .....	13
3217HY .....	118	4176HD .....	52	4695RG .....	14
3219AB .....	21	4219G.....	63	4696A .....	16
3219AR .....	20	4219M .....	61	4697G .....	15
3220E .....	113	4219N.....	62	4698B .....	10
3220LP, 3320.....	111	4230T .....	56	4698MB .....	11
3220SP .....	112	4465 .....	17-18	7408 .....	133
3221FR .....	110	4651ZL, XL.....	96	7422 .....	134
3222B, G, R, Y, BK, GY.....	24	4657, KB, KG, KK, KY, PB, PG, PY .....	115	7744 .....	47-50, 72-73, 108-109, 129-131
3237A .....	36	4657F, XB, XG, XY.....	116	7746 Silicone Free .....	32

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Index of Industrial Hose by Name and Number**

<b>NAME</b>	<b>PAGE</b>	<b>NAME</b>	<b>PAGE</b>	<b>NAME</b>	<b>PAGE</b>
1000 MP/Mine Spray .....	74	Cellar Master® Light .....	40	LPG Vapor.....	113
119B Plant Master® .....	21	Colt® .....	16	Marlin® .....	127
16 EFBOP Blow-Out Preventer .....	96	Creamery/Paper Mill Washdown.....	119	Master-Flex® 100GR .....	130
163SB (Air & Vapor Duct - Heavy Duty) .....	35	Cyclone® .....	118	Master-Flex® 101CL.....	131
18MB Air Drill .....	78	Dolphin®.....	128	Master-Flex® 200CL.....	47
19B Plant Master® .....	20	Duro Flex® .....	27	Master-Flex® 201CR .....	48
205MB Steam King® .....	120	Engine Coolant (Oil Resistant - Softwall) .....	53	Master-Flex® 202SW.....	49
232MB Steam Queen®.....	121	Engine Coolant (Silicone) .....	55	Master-Flex® 300 EPDM .....	72
319MB Gold Master® .....	33	Engine Coolant (Wire Inserted - Hardwall).....	54	Master-Flex® 400.....	73
33HB (Divers' Air) .....	37	Food Master® Lite™.....	41	Master-Flex® 500.....	129
4219G (Fuel Line & Tank Vent).....	63	Food & Beverage Master® .....	38	Master-Flex® Fuel Delivery ....	108
429W (Sand Blast).....	71	Fuel Fill (USCG Type A1 and B1) .....	64	Master-Flex® Vapor Recovery.....	109
4663K (Fuel Fill - Corrugated).....	65	Fuel Line (USCG Type A1).....	61	Maverick™ .....	100
4684CF (Wet Exhaust - Corrugated).....	59	Fuel Line (USCG Type B).....	62	Mustang® .....	12
500 MP Air Drill.....	79	Fuel Oil Delivery.....	110	Mustang® Crush Resistant.....	13
609W (Dry Cement Delivery).....	67	GLX® - Female JIC 37° Flare Swivel.....	138	Ohmega® (Pot Room) .....	36
610W (Bulk Commodity).....	46	GLX® - FP Female NPTF Swivel.....	137	Powerbraid® Plus (Slim Hole Rotary) .....	95
63SB (Air & Vapor Duct).....	34	GLX® - FPX Female NPSM Swivel.....	137	PowerClean™ - 1 Wire Braid ..	115
688SB (Bulk Commodity) .....	68	GLX® - FSX 45° SAE Female Swivel.....	136	PowerClean™ - 2 Wire Braid ..	116
690SB (Bulk Commodity) .....	44	GLX® - Male Pipe (NPTF 30° Cone Seat).....	135	Premo Flex® .....	25
692SB (Bulk Commodity) .....	45	GLX® - MPX Male NPTF Swivel.....	136	Pressure Washer Assemblies.....	117
6B Dura Master® .....	26	GLX® - MS 45° SAE Male Solid .....	135	Python® Plus (Lock-On Hose).....	24
75W (Standard Wall Coolant).....	51	GSH™ - GSH with Intergral 2" Fig. 1502 Hammer Unions ..	138	Renegade™ .....	15
76W (Heavy Wall Coolant) .....	52	Heater Hose.....	56	Sani-Pure™ .....	42
770SB .....	70	Heavy-Duty T-Bolt Clamps ....	134	Scorpion™ .....	76
77B (Paint Spray and Chemical).....	19	Hot Air Blower .....	69	Scorpion™ X-Treme .....	77
Adapta Flex™ Black .....	30	LOL Plus (Lock-On Hose) .....	23	Sea Horse® 400 (Fuel Transfer).....	103
Adapta Flex™ Blue, Green & Yellow Cover.....	31	Longhorn® .....	97	Sea Horse® 400 HW (Fuel Transfer Suction/Discharge - Hardwall).....	104
Adapta Flex™ Red .....	28	Longhorn® AF (Alternative Fuel-Corrugated).....	98	Sea Horse® (Fuel Transfer).....	105
Adapta Flex™ Red Cover - UPS Shippable Reels.....	29	Longwall Mine Emulsion.....	75	Sea Horse® HW (Fuel Transfer Suction/Discharge - Hardwall).....	106
Appaloosa® .....	14	LP350 (Butane-Propane) .....	111	Shark® .....	124
Aquarius® Potable Water.....	43	LP350X (Butane-Propane).....	112	Stainless Steel Clamps.....	133
Barracuda® .....	125			Stallion® .....	10
Blacksnake® (Curb Pump - Hardwall) .....	114			Stallion® Crush Resistant .....	11
Blender Transfer .....	102			Steelhead®.....	126
C5M Fuel Line .....	60			Steer® .....	99
Cellar Master® .....	39			Super-Vac® .....	101

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

---

Terminator®.....22	Trident® 400.....107	Vacuum Tubing .....66
Thermo AG® 570 (Ag Spray) ...17	Tufflex® Food.....50	Wet Exhaust (Hardwall) .....58
Thermo AG® 800 (Ag Spray) ...18	Tufflex® Plus .....32	Wet Exhaust (Softwall) .....57

---

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Index of Industrial Hose by Application**

<b>Subject</b>	<b>Page</b>	<b>Subject</b>	<b>Page</b>
<b>A</b>			
ABS .....	60	FDA (U.S. Food & Drug Administration) ....	38-42, 44-50
Acid-Chemical .....	10-19	Fertilizer Transfer .....	17-18, 20-21, 25-32, 72
Acid-Suction .....	10-19	Food Handling .....	38-42, 44-50
Agricultural Spray .....	17-18	Fuel Feed, Filler .....	60-62
Agricultural Water .....	124-131	Fuel Oil Transfer .....	97-100, 108, 110
Air .....	20-37, 74-75, 78-79	Fuel Transfer .....	97-101, 103-110, 114
Air Blower .....	34-35, 70, 73	<b>G</b>	
Air Drill .....	78-79	Gasohol .....	114
Air Duct .....	34-35, 70, 73	Gasoline Pump (UL-330) .....	114
Air Tools .....	20-21, 25-33, 74-75	Gasoline Transfer .....	97-100, 103-108, 110, 114
Ammonia Applicator .....	28-32	Matron® .....	12-14
Aromatic Gasolines .....	97-100, 103-106, 108, 110, 114	General Purpose (See Air & Multi-Purpose) .....	20-37, 74-75, 78-79
Automotive Coolant .....	51-52	Grain Handling .....	44-49, 68, 73
<b>B</b>			
Beverage .....	38-42, 44-50	Grass Vacuuming .....	70, 73
Breathing .....	20-21, 25, 37	<b>H</b>	
Brewery .....	38-40	Heavy-Duty Water .....	124, 126-127
Bulk Materials .....	38-42, 44-49, 67-73	Herbicide Transfer .....	17-18, 130-131
Butane .....	111-113	High Pressure Air .....	33, 74, 78-79
<b>C</b>			
Cement .....	67-68	High Pressure Washer .....	115-119
Chemical Cleanup .....	10-16, 19	High Pressure Water .....	115-118
Cleanup .....	21, 115-116, 118-119	Hot Air Blower .....	69
Compressed Air .....	20-33, 74, 79	<b>I</b>	
Coolant .....	51-55, 59	Industrial Air .....	20-35, 74-75, 78-79
Couplings .....	135-139	Industrial Couplings .....	135-139
Creamery Washdown .....	119	Industrial Steam .....	120-121
Cross-Linked Polyethylene .....	10-14	Industrial Water .....	20-33, 51-52, 74-75, 118-119, 124-131
Curb Pump (UL-330) .....	110, 114	Insecticide Transfer .....	17-18, 130-131
<b>D</b>			
Debris Collecting .....	68, 70, 72-73	Insulation Handling .....	70, 73
Distillate Transfer .....	97-100, 108-109	<b>L</b>	
Divers' Air .....	37	Lay Flat Hose .....	129
Dust Collection .....	34-35, 70, 72-73	Leaf Collector .....	70, 73
<b>E</b>			
Edible Products Transfer .....	38-42, 44-50	Lightweight Water .....	51, 125, 128-131
Electric Resistance Ends .....	20-22, 24, 36	LP Gas (UL-21) .....	111-112
Engine Coolant .....	51-55, 59	LPG Vapor .....	113
Exhaust .....	57-59	Lube Oil Transfer .....	20-23, 97-100

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Industrial Hose  
Products**

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

<b>Subject</b>	<b>Page</b>	<b>Subject</b>	<b>Page</b>
<b>M</b>		<b>T</b>	
Marine Wet Exhaust .....	51, 57-59	Tank Truck (Chemical) .....	10-16
Material Handling .....	67-73	Tank Truck (Food).....	38-42, 44-49
Mining .....	22, 74-75, 79	Tank Truck (Petroleum).....	97-101, 103-110
MSHA (Mining Safety & Health Admin.) .....	22, 74-75, 79	Three A (3A Standards).....	38-39, 41-42, 45, 47
Multi-Purpose .....	20-37, 74-75, 78-79	<b>U</b>	
<b>N</b>		Underwriters' Laboratories (UL).....	111-114
Natural Gas.....	111-112	USCG.....	60-62, 64
Non-Conductive .....	20-22, 24-25, 36	USDA .....	38-39, 41-42, 45, 47-50
Nylon .....	19	<b>V</b>	
<b>O</b>		Vacuum (Dry) .....	72-73
Oxygen.....	20-21, 25, 37	Ventilating .....	34-35, 63, 70, 73
<b>P</b>		<b>W</b>	
Paint Spray.....	19	Washdown.....	20-21, 74, 115-119
Paper Mill Washown.....	119	Water .....	124-131
Pesticides.....	17-18, 130-131	Water Discharge.....	51-52, 126-129, 131
Petroleum .....	97-114	Water Suction .....	72, 115-119, 124-125, 130-131
Pneumatic Applications .....	20-33, 74-75, 78-79	Water Suction & Discharge .....	72, 115-119, 124-125, 130-131
Pot Room.....	20-22, 24-25, 36	Wet Exhaust .....	51-52, 57-59
Potable Water.....	38-42, 44-45, 47-50	Wine .....	38-40
Propane (UL-21) .....	111-112	<b>R</b>	
<b>R</b>		Refueling.....	114
Resistance, Electrical .....	20-22, 24-25, 36	Resistance, Electrical .....	20-22, 24-25, 36
RMA (Rubber Manufactures Association).....	20-31, 51-53, 59-60, 65, 72-73, 121	<b>S</b>	
<b>S</b>		SAE 20R, 30R.....	51-56, 59-60, 63
Sand Blast.....	71	Sand Blast.....	71
Sewage.....	72	Sludge .....	68, 101
Solvents .....	10-16, 19, 72	Steam .....	120-121

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

## Hose Temperature Ranges

Temperature ranges for the industrial hoses are shown by application groups. The range in the Normal Service column indicates the usual temperature range for each specific hose listed under each application group.

The lower limit column indicates the approximate temperature at which the hose will become too stiff to use. For information on applications or temperatures not listed in this table, contact Denver Production Application.

Application Group	Range for Normal Service F*	Lower Limit F	Application Group	Range for Normal Service F*	Lower Limit F
<b>Acid-Chemical</b>			<b>Material Handling</b>		
77B	0-125 <sup>†</sup>	-40	770SB	0-150	-40
Appaloosa <sup>®</sup>	0-125 <sup>†</sup>	-40	Hot Air Blower	0-350	-40
Colt <sup>®</sup>	0-125 <sup>†</sup>	-40	Master Flex 300EPDM	10-140	-30
Mustang <sup>®</sup>	0-125 <sup>†</sup>	-40	Master Flex 400	32-140	-30
Renegade <sup>™</sup>	0-125 <sup>†</sup>	-40	<b>Oil Field</b>		
Stallion <sup>®</sup>	0-125 <sup>†</sup>	-40	Powerbraid <sup>®</sup> Plus	0-180	-40
Thermo-Ag <sup>®</sup> 570	0-130	-10	Black Gold <sup>®</sup> Rotary (Grade D & E)	0-180	-4
Thermo-Ag 800	0-130	-10	Black Gold Rotary Cementing	0-180	-4
<b>Air &amp; Multi-Purpose</b>			Black Gold Rotary Cementing	0-212	-4
6B	0-200**	-40	Black Gold Rotary Sour Service	0-200	-4
18MB	0-212	-30	Black Gold Rotary Choke & Kill	0-200	-4
19B/119B	0-212**	-40***	Black Gold Rotary Super Choke & Kill	0-200	-4
33HB (Divers Air)	0-120	-40	<b>Petroleum</b>		
63SB	0-250	-30	Blacksnake <sup>®</sup>	0-120	-40
163SB	0-250	-30	Blender Transfer	0-180	-40
319MB (Gold Master <sup>®</sup> )	0-212	-40	Brahma <sup>®</sup>	0-180	-40
500 MP/Air Drill	0-180	-22	Fuel Oil Delivery	0-180	-40***
1000 MP/Mine Spray	0-212	-40	Longhorn <sup>®</sup>	0-180	-40
Duro Flex <sup>®</sup>	0-200**	-40	Longhorn <sup>®</sup> AF	0-180	-30
LOL Plus	0-212	-40	LP350X	0-180	-40***
Longwall Mine Emulsion	0-212	-40	LPG Vapor	0-150	-30
Ohmega <sup>®</sup>	0-150	-20	Maverick <sup>™</sup>	0-180	-40
Premo Flex <sup>®</sup>	0-212**	-40	Master Flex <sup>®</sup> Fuel Delivery	0-130	-30
Python <sup>®</sup> Plus	0-212	-20	Master Flex Vapor Recovery	0-140	-30
Terminator <sup>®</sup>	0-212	-40	Sea Horse <sup>®</sup>	0-180	-40
Tufflex <sup>®</sup> Plus	0-150	-15	Sea Horse HW	0-180	-40
<b>Food &amp; Beverage</b>			Steer <sup>®</sup>	0-180	-40
610W	0-150	-40	Super-Vac <sup>®</sup>	0-150	-40
690SB	0-150	-40	Trident <sup>®</sup> 400	0-158	-30
692SB	0-180	-40	<b>Pressure Washer</b>		
Brew Master <sup>®</sup>	0-230	-40	Creamery/Paper Mill Washdown	0-212	-40
Cellar Master <sup>®</sup>	0-230	-40	Cyclone <sup>®</sup>	0-212	-40
Cellar Master Light	0-212	-40	PowerClean <sup>™</sup>	0-250	-40
Food and Beverage Master <sup>®</sup>	0-230	-40	Pressure Washer Assemblies	0-250	-40
Food Master <sup>®</sup> Lite	0-230	-40	<b>Steam</b>		
Master Flex <sup>®</sup> 200CL	10-130	-10	205MB	0-450 <sup>1</sup>	-40
Master Flex 201CR	10-130	-10	232MB	0-450 <sup>1</sup>	-40
Master Flex 202SW	10-130	-10	<b>Water</b>		
Sani-Pure <sup>™</sup>	0-230	-40	Barracuda <sup>®</sup>	0-180	-40
Tufflex <sup>®</sup> Food	10-130	-10	Dolphin <sup>®</sup>	0-180	-40
<b>Marine</b>			Marlin <sup>®</sup>	0-180	-40
75W (Standard Wall Coolant)	32-257	-40	Master Flex <sup>®</sup> 100GR	10-130	-10
76W (Heavy Wall Coolant)	32-257	-40	Master Flex 101CL	10-130	-10
4219G (Fuel Line & Tank Vent)	0-257	-40	Master Flex 500	25-120	+25
4663K (Fuel Tank Filler)	0-212	-40	Shark <sup>®</sup>	0-180	-40
4684CF (Wet Exhaust)	0-212	-40	Steelhead <sup>®</sup>	0-150	-40
C5M (Fuel Line)	0-212	-4	<sup>†</sup> As temperature increases, allowable pressure rating decreases. For details, see the rated working pressure/temperature tables listed with the individual hose specifications. <sup>‡</sup> Contact Denver Product Application for chemicals over 125°F. <sup>1</sup> With saturated or superheated steam. <sup>2</sup> With saturated steam only. * Ambient or product temperature. ** If hose is subjected to this temperature continuously, reduce the catalog rated working pressure by 30%, or use interlocking type couplings. *** These hoses will be flexible down to -20°F. At temperatures between -20°F and -40°F, the hose may require significant force to be bent, flexed or pulled from reels. SUCTION VALUES ARE AT AMBIENT TEMPERATURES UNLESS OTHERWISE STATED.		
Engine Coolant (Softwall)	0-212	-40			
Engine Coolant (Hardwall)	0-257	-40			
Engine Coolant (Silicone)	0-347	-65			
Fuel Fill (USCG Type A2&B2)	0-212	-40			
Fuel Line (USCG Type A1)	0-212	-40			
Fuel Line (USCG Type B)	0-250	-40			
Heater Hose	0-257	-40			
Vacuum Tubing	0-257	-40			
Wet Exhaust (Softwall)	0-257	-40			
Wet Exhaust (Hardwall)	0-257	-40			
<b>Material Handling</b>					
429W	0-150	-40			
609W	0-150	-40			
688SB	0-150	-40			

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



## Selection of Hoses and Couplings

There are many types of industrial hoses—all designed for a particular application or several related applications. When hoses are mated with the proper couplings and used in the correct application, hose assemblies will give long, trouble-free service.

This catalog is designed to make certain that you obtain long service life by:

- Helping you select the **proper hose and coupling** from among the many types available.
- Giving you suggestions on how to take reasonable care of the hose assembly and maintain it for maximum service life.

Follow the instructions and procedures given below:

### Selection of Hoses and Couplings

Information in this catalog will enable you to select hose and couplings for many applications.

#### Remember the Word **STAMPED** To Help You Select the Best Hose

**S**ize: Inside diameter, outside diameter, length.

**T**emperature: Minimum and maximum °F.

**A**pplication: How and where used: Special needs, UL, Government, FDA, MSHA, etc.

**M**aterial Conveyed: Air, water, chemicals (concentration and temperature), petroleum, etc.

**P**ressure: Maximum rated W.P. (psi) or Suction (In.Hg)

**E**nds: Straight, Male, etc.

**D**elivery: When, where, quantity.

Select one of the recommended couplings from the hose coupling information section. In each individual Hose Specification Section, couplings are recommended by a bold number in brackets.

For example: 19. Check coupling compatibility in Industrial Hose Coupling Assembly Guide #39505 with the material to be handled.

Provide for proper care and maintenance of the assembly.

Certain critical applications require the use of just one specific hose or group of hoses. **DO NOT SUBSTITUTE.**

Critical Application	Recommended Gates Hoses
Steam	Select a hose that meets the application requirements from Steam Hose Section only.
LP Gas	LP350/LP350X
Corrosive Chemicals (Acids—Bases)	Select a hose that meets the application requirements from <b>Acid-Chemical Hose Section only.</b>
Edible Products	Select a hose that meets application requirements from Beverage and Food Hoses. Hose must have FDA tube stock.

#### SPECIAL HOSES ARE AVAILABLE

Gates can furnish special hoses for specific applications. For information, contact Denver – furnishing complete details of hose application.



---

## Ends for Gates Hose

Many applications require hose with special ends to provide protection and better coupling for the hose.

To be sure you receive the proper hose end, always specify the type of end, the length of end and its inside diameter (if enlarged and non-standard).

---

### Four Types of Hose Ends



**1. Plain end (When ordering—specify P.E.)**

Braided, spiral and thermoplastic hoses are available only with plain ends. Plain ends are generally furnished on wrapped and horizontal braid hoses, unless braid hoses, unless otherwise specified. The plain end is obtained by merely cutting hose to a specified length.



**2. Straight End (When ordering—specify S.E.)**

All wire-reinforced, hand-built hoses are available with straight ends. The straight end, not corrugated, has all construction elements except the wire. Straight ends permit leakproof clamping of the hose because the wire does not overlap the coupling shank.



**3. Enlarged End (When ordering—specify E.E.)**

Hand-built hoses, either wire-reinforced or wrapped, are also available with enlarged ends. The hose end is enlarged to accommodate the O.D. of a nipple and the depth of the shank. Thus, an enlarged end to 6-5/8" I.D. is made to fit a 6" nipple, which has a 6-5/8" O.D.



**4. Smooth End (Seldom Used)**

The smooth end is used on wire reinforced hose with corrugated cover. Construction elements, including wire, extend through to the end of the hose. The outside of the end is smooth with no corrugations.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Acid-Chemical Hose**

**Stallion®**  
(Specification 4698B)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.29	32.8	200	1.38	30.0	762	4.0	102	.52	.24	100 ft.	X	4698-0011
3/4	19.1	1.29	32.8	200	1.38	30.0	762	4.0	102	.52	.24	20 ft.	X	4698-0021
1	25.4	1.56	39.6	200	1.38	30.0	762	5.0	127	.63	.29	100 ft.	X	4698-0012
1	25.4	1.56	39.6	200	1.38	30.0	762	5.0	127	.63	.29	20 ft.	X	4698-0022
1	25.4	1.56	39.6	200	1.38	30.0	762	5.0	127	.63	.29	200 ft.	400 ft.	4698-0029
1 1/2	38.1	2.05	52.1	200	1.38	30.0	762	8.0	203	.93	.42	100 ft.	X	4698-0013
1 1/2	38.1	2.05	52.1	200	1.38	30.0	762	8.0	203	.93	.42	20 ft.	X	4698-0023
1 1/2	38.1	2.05	52.1	200	1.38	30.0	762	8.0	203	.93	.42	200 ft.	400 ft.	4698-0031
2	50.8	2.55	64.8	200	1.38	30.0	762	9.0	229	1.18	.54	100 ft.	X	4698-0014
2	50.8	2.55	64.8	200	1.38	30.0	762	9.0	229	1.18	.54	20 ft.	X	4698-0024
2 1/2	63.5	3.07	78.0	150	1.03	30.0	762	12.0	305	1.49	.68	100 ft.	X	4698-0015
2 1/2	63.5	3.07	78.0	150	1.03	30.0	762	12.0	305	1.49	.68	20 ft.	X	4698-0025
3	76.2	3.59	91.2	150	1.03	30.0	762	18.0	457	1.83	.83	100 ft.	X	4698-0016
3	76.2	3.59	91.2	150	1.03	30.0	762	18.0	457	1.83	.83	20 ft.	X	4698-0026
4	101.6	4.66	118.4	125	.86	30.0	762	24.0	610	2.74	1.24	100 ft.	X	4698-0017
4	101.6	4.66	118.4	125	.86	30.0	762	24.0	610	2.74	1.24	20 ft.	X	4698-0027

**RECOMMENDED FOR:** Tank truck, barge, ship, or storage tank transfer of a variety of chemical products. Stallion has a wire helix for full suction capability. The tube stock (Teflon\* or Neoflon\*\*) has excellent chemical resistance and is backed by Gates Gatron™ for flex fatigue safety at the coupling. Stallion is designed for easy cleaning in a bath containing 10% (NaOH) @ 212°F (100°C). Cleaning in place (CIP) methods may be used. Applications include most basic chemicals which are building blocks for numerous chemicals used in a variety of industries. Reference Gates Chemical Resistance Table for proper hose selection. Compatible with commercially available Bio-Diesel fuels up to B-100.

**TEMPERATURE:** -40°F to +300°F (-40°C to +149°C) normal service. Stallion is designed to withstand fluid temperatures to +300°F (+149°C), however the rating is dependent on the specific chemical conveyed. Contact Denver Product Application (303) 744-5070 for any chemical above +125°F (+52°C).

**CONSTRUCTION:** **Tube:** Type T (FEP) Teflon\* or Neoflon\*\*. White. Backed with Gatron™ (Modified XLPE).  
**Reinforcement:** Synthetic, high tensile textile with steel wire helix.  
**Cover:** Type P (EPDM). Blue corrugated with red spiral stripe.

**COUPLINGS:** Gates has tested hose assemblies at the maximum rated service temperature to assure your safety. Use permanent fittings only 71 or 73 for fluid temperatures up to 300°F (149°C). Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Stallion® U.S. Pat. No. 5,647,400 Acid-Chemical Suction/Discharge 200 PSI (1.38MPa) WP Made In U.S.A. For your safety: Use Permanent Fittings Only"

**SPECIAL ORDER REQUIREMENTS:** Black, red, green and yellow covers are made to order and require minimum production order quantities of 400 feet per size. For price, add 10% (x1.10) to price. Special production runs require minimum order quantities of 400 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity. Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

\*Teflon® is a Registered Trademark of DuPont.  
\*\*Neoflon® is a Registered Trademark of Daikin.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Acid-Chemical Hose**

**Stallion® Crush Resistant**

(Specification 4698MB)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.33	33.8	200	1.38	20.0	508	4.0	102	.53	.24	100 ft.	400 ft.	4698-0001
1	25.4	1.58	40.1	200	1.38	20.0	508	5.0	127	.63	.29	100 ft.	X	4698-0002
1 1/2	38.1	2.08	52.8	200	1.38	20.0	508	8.0	203	.86	.39	100 ft.	X	4698-0003
2	50.8	2.58	65.5	200	1.38	20.0	508	9.0	229	1.09	.49	100 ft.	X	4698-0004

**RECOMMENDED FOR:** Tank truck, barge, ship, or storage tank transfer of a variety of chemical products. Stallion Crush Resistant has a monofilament helix for suction and crush resistant capability. The tube stock (Teflon\* or Neoflon\*\*) has excellent chemical resistance and is backed by Gates Gatron™ for flex fatigue safety at the coupling. Stallion Crush Resistant is designed for easy cleaning in a bath containing 10% (NaOH) @ 212°F (100°C). Cleaning in place (CIP) methods may be used. Applications include most basic chemicals which are building blocks for numerous chemicals used in a variety of industries. Reference Gates Chemical Resistance Table for proper hose selection. Compatible with commercially available Bio-Diesel fuels up to B-100.

**TEMPERATURE:** -40°F to +300°F (-40°C to +149°C) normal service. Stallion Crush Resistant is designed to withstand fluid temperatures to 300°F (+149°C), however the rating is dependent on the specific chemical conveyed. Contact Denver Product Application (303) 744-5070 for any chemical above 125°F (+52°C).

**CONSTRUCTION:** **Tube:** Type T (FEP) Teflon\* or Neoflon\*\*. White. Backed with Gatron™ (Modified XLPE).  
**Reinforcement:** Synthetic, high tensile textile with monofilament helix and static wire.  
**Cover:** Type P (EPDM). Blue corrugated with red spiral stripe.

**COUPLINGS:** Gates has tested hose assemblies at the maximum rated service temperature to assure your safety. Use permanent fittings only 71 or 73 for fluid temperatures up to 300°F (149°C). Reference the Hose Coupling Section.

**PACKAGING:** 100' length coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Stallion® U.S. Pat. No. 5,647,400 Crush Resistant Acid-Chemical Suction/Discharge 200 PSI (1.38MPa) WP Made In U.S.A. For your safety: Use Permanent Fittings Only"

**SPECIAL ORDER REQUIREMENTS:** Black, red, green and yellow covers are made to order and require minimum production order quantities of 400 feet per size. For price, add 10% (x1.10) to price. Special production runs require minimum order quantities of 400 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

\*Teflon® is a Registered Trademark of DuPont.  
\*\*Neoflon® is a Registered Trademark of Daikin.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Acid-Chemical Hose**

**Mustang®**  
(Specification 4695/4695G)

**Black Cover (4695)**

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	⊖	Suction	⊖	Min. Bend Radius	⊖	Wt. Per Ft.	⊖	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.25	31.8	200	1.38	30.0	762	4.0	102	.45	.20	100 ft.	X	4695-0002
3/4	19.1	1.25	31.8	200	1.38	30.0	762	4.0	102	.45	.20	200 ft.	X	4695-0737
1	25.4	1.50	38.1	200	1.38	30.0	762	5.0	127	.56	.25	100 ft.	X	4695-0003
1	25.4	1.50	38.1	200	1.38	30.0	762	5.0	127	.56	.25	200 ft.	X	4695-0670
1 1/4	31.8	1.75	44.5	200	1.38	30.0	762	6.0	152	.66	.30	100 ft.	X	4695-0004
1 1/4	31.8	1.75	44.5	200	1.38	30.0	762	6.0	152	.66	.30	200 ft.	X	4695-0738
1 1/2	38.1	2.04	51.8	200	1.38	30.0	762	8.0	203	.87	.40	100 ft.	X	4695-0005
2	50.8	2.54	64.5	200	1.38	30.0	762	9.0	229	1.10	.50	100 ft.	X	4695-0001
2	50.8	2.54	64.5	200	1.38	30.0	762	9.0	229	1.10	.50	200 ft.	X	4695-0698
2 1/2	63.5	3.05	77.5	150	1.03	30.0	762	12.0	305	1.40	.64	100 ft.	X	4695-0006
2 1/2	63.5	3.05	77.5	150	1.03	30.0	762	12.0	305	1.40	.64	200 ft.	X	4695-0720
3	76.2	3.58	90.9	150	1.03	30.0	762	18.0	457	1.79	.81	100 ft.	X	4695-0007
3	76.2	3.58	90.9	150	1.03	30.0	762	18.0	457	1.79	.81	200 ft.	X	4695-0699
4	101.6	4.69	119.1	125	.86	30.0	762	24.0	610	2.72	1.23	100 ft.	X	4695-0008
4	101.6	4.69	119.1	125	.86	30.0	762	24.0	610	2.72	1.23	200 ft.	X	4695-0055

**Green Cover (4695G)**

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	⊖	Suction	⊖	Min. Bend Radius	⊖	Wt. Per Ft.	⊖	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.50	38.1	200	1.38	30.0	762	5.0	127	.56	.25	100 ft.	X	4695-0628
1 1/2	38.1	2.04	51.8	200	1.38	30.0	762	8.0	203	.88	.40	100 ft.	X	4695-0211
2	50.8	2.54	64.5	200	1.38	30.0	762	9.0	229	1.11	.50	100 ft.	X	4695-0216
2	50.8	2.54	64.5	200	1.38	30.0	762	9.0	229	1.11	.50	200 ft.	X	4695-0700
3	76.2	3.58	90.9	150	1.03	30.0	762	18.0	457	1.81	.82	100 ft.	X	4695-0229
3	76.2	3.58	90.9	150	1.03	30.0	762	18.0	457	1.81	.82	200 ft.	X	4695-0701

- RECOMMENDED FOR:** NOTE: For applications requiring greater than 90% sulfuric acid contact Denver Product Application (303) 744-5070.  
 Tank truck, barge, ship, or storage tank transfer of a variety of chemical products. Mustang contains a wire helix for full suction capability, as well as for routing hoses through tight bends. Its Modified Cross-linked Polyethylene tube stock is "best in class" for maintaining a tight seal with stainless steel fittings, and is designed for cleaning with "open end" 50 PSI steam or in a bath containing 10% (NaOH) @ 212°F (100°C). Cleaning in place (CIP) methods may be used. Not recommended for "closed steam" cleaning. Applications include over 950 basic chemicals that are building blocks for numerous chemicals used in a variety of industries. Reference Gates Chemical Resistance Table for proper hose selection.
- TEMPERATURE:** -40°F to +250°F (-40°C to +121°C) normal service. Mustang is designed to withstand fluid temperatures to 250°F (+121°C), however the rating is dependent on the specific chemical conveyed. Contact Denver Product Application (303) 744-5070 for any chemical above 125°F (+52°C).
- CONSTRUCTION:** **Tube:** Type K (Gatron™ Modified Cross-linked Polyethylene.) Tan. High chemical resistance.  
**Reinforcement:** Synthetic, high tensile textile cord with steel wire helix.  
**Cover:** Type P (EPDM). Black or green corrugated with orange spiral stripe. Blue, red, and yellow covers available on special order.
- PACKAGING:** 100' length coiled and wrapped in polyethylene.
- BRANDING:** Continuous transfer label. Example: "GATES® Mustang® Acid-Chemical Suction/Discharge 200 PSI (1.38MPa) WP Made In U.S.A. For your safety: Use Permanent Couplings above 125°F."
- SPECIAL ORDER REQUIREMENTS:** Blue, red, and yellow covers are made to order and require minimum production order quantities of 400 feet per size. For price, add 10% (x1.10) to price.  
 Special production runs require minimum order quantities of 400 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity.  
 Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.
- REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Acid-Chemical Hose**

**Mustang® Crush Resistant**  
(Specification 4695M)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.36	34.5	200	1.38	20.0	508	4.0	102	.53	.24	100 ft.	400 ft.	4695-0607
1	25.4	1.61	40.9	200	1.38	20.0	508	5.0	127	.64	.29	100 ft.	X	4695-0608
1 1/2	38.1	2.13	54.1	200	1.38	20.0	508	8.0	203	.90	.41	100 ft.	X	4695-0609
2	50.8	2.63	66.8	200	1.38	20.0	508	9.0	229	1.13	.51	100 ft.	X	4695-0610

- RECOMMENDED FOR:** NOTE: For applications requiring greater than 90% sulfuric acid contact Denver Product Application (303) 744-5070.  
Tank truck, barge, ship, or storage tank transfer of a variety of chemical products. Mustang Crush Resistant contains a monofilament helix for suction and crush resistant capability, as well as for routing hoses through tight bends. Its Modified Cross-linked Polyethylene tube stock is “best in class” for maintaining a tight seal with stainless steel fittings, and is designed for cleaning with “open end” 50 PSI steam or in a bath containing 10% (NaOH) @ 212°F (100°C). Cleaning in place (CIP) methods may be used. Not recommended for “closed steam” cleaning. Applications include over 950 basic chemicals that are building blocks for numerous chemicals used in a variety of industries. Reference Gates Chemical Resistance Table for proper hose selection.
- TEMPERATURE:** -40°F to +250°F (-40°C to +121°C) normal service. Mustang Crush Resistant is designed to withstand fluid temperatures to 250°F (+121°C), however the rating is dependent on the specific chemical conveyed. Contact Denver Product Application (303) 744-5070 for any chemical above 125°F (+52°C).
- CONSTRUCTION:**  
**Tube:** Type K (Gatron™ Modified Cross-linked Polyethylene.) Tan. High chemical resistance.  
**Reinforcement:** Synthetic, high tensile textile with monofilament helix and static wire providing crush and kink resistance.  
**Cover:** Type P (EPDM). Black corrugated with orange spiral stripe. Green, blue, red, and yellow covers available on special order.
- COUPLINGS:** Gates has tested hose assemblies at the maximum rated service temperature to assure your safety. Use 7, 8, or 49 for fluid temperatures to 125°F (+52°C). Use permanent fittings only 71 or 73 for fluid temperatures above 125°F (+52°C) and up to 250°F (+121°C). Reference the Hose Coupling Section.
- PACKAGING:** 100' length coiled and wrapped in polyethylene.
- BRANDING:** Continuous transfer label. Example: “GATES® Mustang® Crush Resistant Acid-Chemical Suction/Discharge 200 PSI (1.38MPa) WP Made In U.S.A. For your safety: Use Permanent Couplings above 125°F.”
- SPECIAL ORDER REQUIREMENTS:** Green, blue, red, and yellow covers are made to order and require minimum production order quantities of 400 feet per size. For price, add 10% (x1.10) to price. Special production runs require minimum order quantities of 400 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity.
- REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



# Industrial Hose Products



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

## Acid-Chemical Hose

# Appaloosa®

(Specification 4695RG)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1 1/2	38.1	1.97	50.0	200	1.38	30.0	762	8.0	203	.76	.35	100 ft.	200 ft.	4695-0665
2	50.8	2.47	62.7	200	1.38	30.0	762	9.0	229	.97	.44	100 ft.	200 ft.	4695-0666
3	76.2	3.51	89.2	150	1.03	30.0	762	18.0	457	1.58	.72	100 ft.	200 ft.	4695-0668

**RECOMMENDED FOR:** Use for tank truck, barge, ship, or storage tank transfer of a variety of chemical products where external abrasion resistance is critical. Appaloosa contains a wire helix for full suction capability, as well as for routing hoses through tight bends. Its Modified Cross-linked Polyethylene tube stock is "best in class" for maintaining a tight seal with stainless steel fittings and is designed for cleaning with "open end" 50 PSI steam or in a bath containing 10% (NaOH) @ 212°F (100°C). Cleaning in place (CIP) methods may be used. Not recommended for "closed steam" cleaning. Capable of handling more than 950 basic chemicals. Reference Gates Chemical Resistance Table for proper hose selection.

**TEMPERATURE:** -40°F to +225°F (-40°C to +107°C) normal service. Appaloosa is designed to withstand fluid temperatures to 225°F (+107°C), however the rating is dependent on the specific chemical conveyed. Contact Denver Product Application (303) 744-5070 for any chemical above 125°F (+52°C).

**CONSTRUCTION:**  
**Tube:** Type K (Gatron™ Modified Cross-linked Polyethylene.) Tan. High chemical resistance.  
**Reinforcement:** Synthetic, high tensile textile with steel wire helix.  
**Cover:** Type L (UHMWPE) over a base of Type P (EPDM). Black corrugated cover with green dots and a green spiral stripe.

**COUPLINGS:** Gates has tested hose assemblies at the maximum rated service temperature to assure your safety. Use 7, 8, or 49 for fluid temperatures to 125°F (+52°C). Use permanent fittings only 71 or 73 for fluid temperatures above 125°F (+52°C) and up to 250°F (+121°C). Reference the Hose Coupling Section.

**PACKAGING:** 100' length coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Appaloosa® Acid-Chemical Suction/Discharge 200 PSI (1.38MPa) WP Made In U.S.A. For your safety: Use Permanent Couplings above 125°F."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity. Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Acid-Chemical Hose**

**Renegade™**  
(Specification 4697G)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.22	31.0	200	1.38	30.0	762	4.0	102	.41	.19	100 ft.	X	4697-0014
1	25.4	1.47	37.3	200	1.38	30.0	762	5.0	127	.51	.23	100 ft.	X	4697-0015
1	25.4	1.47	37.3	200	1.38	30.0	762	5.0	127	.51	.23	200 ft.	400 ft.	4697-0057
1 1/4	31.8	1.72	43.7	200	1.38	30.0	762	6.0	152	.60	.27	100 ft.	X	4697-0016
1 1/2	38.1	2.00	50.8	200	1.38	30.0	762	8.0	203	.78	.35	100 ft.	X	4697-0017
1 1/2	38.1	2.00	50.8	200	1.38	30.0	762	8.0	203	.78	.35	200 ft.	400 ft.	4697-0058
2	50.8	2.50	63.5	200	1.38	30.0	762	9.0	229	.99	.45	100 ft.	X	4697-0018
2	50.8	2.50	63.5	200	1.38	30.0	762	9.0	229	.99	.45	200 ft.	400 ft.	4697-0059
2 1/2	63.5	3.01	76.5	150	1.03	30.0	762	12.0	305	1.28	.58	100 ft.	X	4697-0019
3	76.2	3.53	89.7	150	1.03	30.0	762	18.0	457	1.63	.74	100 ft.	X	4697-0020
3	76.2	3.53	89.7	150	1.03	30.0	762	18.0	457	1.63	.74	200 ft.	400 ft.	4697-0022
4	101.6	4.53	115.1	125	.86	30.0	762	24.0	610	2.11	.96	100 ft.	X	4697-0021

**RECOMMENDED FOR:** Tank truck, barge, ship, or storage tank transfer of a variety of chemical products. Renegade contains a wire helix for full suction capability, as well as for routing hoses through tight bends. The Ultrahigh Molecular Weight Polyethylene tube stock has excellent chemical resistance and is backed by Gates Gatron™ for flex fatigue safety at the coupling. Renegade is designed for easy cleaning in bath containing 10% (NaOH) @ 212°F (+100°C). Cleaning in place (CIP) methods may be used. Applications include over 450 basic chemicals which are building blocks for numerous chemicals used in a variety of industries. Reference Gates Chemical Resistance Table for proper hose selection.

**TEMPERATURE:** -40°F to +212°F (-40°C to +100°C) normal service. Renegade is designed to withstand fluid temperatures to 212°F (+100°C), however the rating is dependent on the specific chemical conveyed. Contact Denver Product Application (303) 744-5070 for any chemical above 125°F (+52°C).

**CONSTRUCTION:** **Tube:** Type L (Ultrahigh Molecular Weight Polyethylene). Clear, backed with Gatron™ Modified XLPE.  
**Reinforcement:** Synthetic, high tensile textile with steel wire helix.  
**Cover:** Type P (EPDM). Green corrugated with yellow spiral stripe.

**COUPLINGS:** Gates has tested hose assemblies at the maximum rated service temperature to assure your safety. Use 7, 8, or 49 for fluid temperatures to 125°F (+52°C). Use permanent fittings only 71 or 73 for fluid temperatures above 125°F (+52°C) and up to 212°F (+100°C). Reference the Hose Coupling Section.

**PACKAGING:** 100' length coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Renegade™ Acid-Chemical Suction/Discharge 200 PSI (1.38MPa) WP Made In U.S.A. For your safety: Use Permanent Couplings above 125°F."

**SPECIAL ORDER REQUIREMENTS:** Black, red, blue and yellow covers are made to order and require minimum production order quantities of 400 feet per size. For price, add 10% (x1.10) to price. Special production runs require minimum order quantities of 400 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity. Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



# Industrial Hose Products



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

## Acid-Chemical Hose

**Colt®**  
(Specification 4696A)

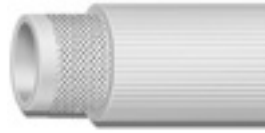
Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.27	32.3	150	1.03	30.0	762	3.0	76	.50	.23	100 ft.	400 ft.	4696-0002
1	25.4	1.52	38.6	150	1.03	30.0	762	3.5	89	.61	.28	100 ft.	X	4696-0001
1 1/4	31.8	1.79	45.5	150	1.03	30.0	762	4.0	102	.77	.35	100 ft.	400 ft.	4696-0003
1 1/4	31.1	1.79	45.5	150	1.03	30.0	762	4.0	102	.77	.35	200 ft.	400 ft.	4696-0203
1 1/2	38.1	2.04	51.8	150	1.03	30.0	762	5.0	127	.89	.40	100 ft.	X	4696-0004
2	50.8	2.54	64.5	150	1.03	30.0	762	6.0	152	1.11	.50	100 ft.	X	4696-0005
2 1/2	63.5	3.05	77.5	150	1.03	30.0	762	9.0	229	1.48	.67	100 ft.	400 ft.	4696-0006
3	76.2	3.60	91.4	150	1.03	30.0	762	11.0	279	1.94	.88	100 ft.	X	4696-0009
3	76.2	3.60	91.4	150	1.03	30.0	762	11.0	279	1.94	.88	200 ft.	400 ft.	4696-0013
4	101.6	4.60	116.8	125	.86	30.0	762	16.0	406	2.52	1.14	100 ft.	X	4696-0012
6	152.4	6.78	172.2	125	.86	30.0	762	24.0	610	4.95	2.25	100 ft.	X	4696-0017

- RECOMMENDED FOR:** Tank truck, barge ship, or storage tank transfer of a variety of mild chemical products. Colt contains a wire helix for full suction capability, as well as for routing hoses through tight bends. Its EPDM tube stock will withstand 250°F (+121°C) applications. Reference Gates Chemical Resistance Table for proper hose selection.
- TEMPERATURE:** -40°F to +250°F (-40°C to +121°C) normal service. Colt is designed to withstand fluid temperatures to 250°F (+121°C), however the rating is dependent on the specific chemical conveyed. Contact Denver Product Application (303) 744-5070 for any chemical above 125°F (+52°C).
- CONSTRUCTION:**  
**Tube:** Type P (EPDM). Black. Mild chemical resistance.  
**Reinforcement:** Synthetic, high tensile textile with steel wire helix.  
**Cover:** Type P (EPDM). Yellow corrugated with green spiral stripe.
- COUPLINGS:** Gates has tested hose assemblies at the maximum rated service temperature to assure your safety. Use 7, 8, or 49 for fluid temperatures to 125°F (+52°C). Use permanent fittings only 71 or 73 for fluid temperatures above 125°F (+52°C) and up to 250°F (+121°C). Reference the Hose Coupling Section.
- PACKAGING:** 100' length coiled and wrapped in polyethylene.
- BRANDING:** Continuous transfer label. Example: "GATES® Colt® Acid-Chemical Suction/Discharge 150 PSI (1.03MPa) WP Made In U.S.A. For your safety: Use Permanent Couplings above 125°F."
- SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for sizes through 4" and 200 feet for sizes above 4". If a special transfer label is required, contact Gates Corporation for minimum quantity. Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.
- REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Acid-Chemical Hose**

**Thermo AG® 570 (Ag Spray)**  
(Specification 4465)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/8	9.5	.67	17.0	570	3.93	25.0	635	4.0	102	.12	.05	300 ft.	X	4465-1701
3/8	9.5	.67	17.0	570	3.93	25.0	635	4.0	102	.12	.05	400 ft.	X	4465-1702
1/2	12.7	.81	20.6	570	3.93	25.0	635	5.0	127	.17	.08	300 ft.	X	4465-1704
1/2	12.7	.81	20.6	570	3.93	25.0	635	5.0	127	.17	.08	400 ft.	X	4465-1705
3/4	19.1	1.08	27.4	570	3.93	25.0	635	6.0	152	.27	.12	300 ft.	X	4465-1706
3/4	19.1	1.08	27.4	570	3.93	25.0	635	6.0	152	.27	.12	400 ft.	X	4465-1707

\*Working Pressure and Suction at +72°F (+22°C).

- RECOMMENDED FOR:** Spraying lawns, trees and similar applications with diluted solutions of water and oil based pesticides and herbicides. For pesticides or herbicides containing more than 2% Toluene or Xylene, use Gates 77B.
- TEMPERATURE:** -10°F to +130°F (-23°C to +55°C). Maximum temperature dependent on pesticide/herbicide or chemicals conveyed. For temperatures above 120°F (+49°C), contact Denver Product Application (303) 744-5070.
- CONSTRUCTION:** **Tube:** Type G (PVC). Yellow.  
**Reinforcement:** Synthetic, high tensile textile cord.  
**Cover:** Type G (PVC). Yellow. Striated.
- COUPLINGS:** 8, 14 or 15, 21 (multiple clamps required), 48, 72 Gates Power Crimp®, or 75 Gates GLX® couplings. Reference the Hose Coupling Section.
- PACKAGING:** All lengths coiled in a polyethylene bag.
- BRANDING:** Continuous ink brand. Example: "3/8" 570 PSI WP SPRAY HOSE JAPAN"
- SPECIAL ORDER REQUIREMENTS:** None.
- REMNANT LENGTHS:** None.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Acid-Chemical Hose**

**Thermo AG® 800 (Ag Spray)**  
(Specification 4465)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/8	9.5	.69	17.5	800	5.52	25.0	635	4.0	102	.14	.06	300 ft.	X	4465-1361
3/8	9.5	.69	17.5	800	5.52	25.0	635	4.0	102	.14	.06	400 ft.	X	4465-1362
1/2	12.7	.84	21.3	800	5.52	25.0	635	5.0	127	.18	.08	300 ft.	X	4465-1371
1/2	12.7	.84	21.3	800	5.52	25.0	635	5.0	127	.18	.08	400 ft.	X	4465-1372
3/4	19.1	1.41	35.8	800	5.52	25.0	635	6.0	152	.30	.14	300 ft.	X	4465-1381
3/4	19.1	1.41	35.8	800	5.52	25.0	635	6.0	152	.30	.14	400 ft.	X	4465-1382

\*Working Pressure and Suction at +72°F (+22°C).

**RECOMMENDED FOR:** Spraying lawns, trees and similar applications with diluted solutions of water and oil based pesticides and herbicides. For pesticides or herbicides containing more than 2% Toluene or Xylene, use Gates 77B.

**TEMPERATURE:** -10°F to +130°F (-23°C to +55°C). Maximum temperature dependent on pesticide/herbicide or chemicals conveyed. For temperatures above 120°F (+49°C), contact Denver Product Application (303) 744-5070.

**CONSTRUCTION:**  
**Tube:** Type G (PVC). Green.  
**Reinforcement:** Synthetic, high tensile textile cord.  
**Cover:** Type G (PVC). Green. Striated.

**COUPLINGS:** 8, 14 or 15, 21 (multiple clamps required), 48, 72 Gates Power Crimp®, or 75 Gates GLX® couplings. Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled in a polyethylene bag.

**BRANDING:** Continuous ink brand. Example: "1/2" 800 PSI WP SPRAY HOSE JAPAN"

**SPECIAL ORDER REQUIREMENTS:** None.

**REMNANT LENGTHS:** None.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Acid-Chemical Hose**

**77B (Paint Spray and  
Chemical)**

(Specification 3207NN/3207T)

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	⊖	Suction	⊖	Min. Bend Radius	⊖	Wt. Per Ft.	⊖	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.52	13.2	500	3.45	30.0	762	3.0	76	.09	.04	Reel	X	3207-0290
5/16	7.9	.59	15.0	500	3.45	30.0	762	3.0	76	.11	.05	Reel	X	3207-0291
3/8	9.5	.67	17.0	500	3.45	30.0	762	3.0	76	.14	.06	Reel	X	3207-0292
1/2	12.7	.87	22.1	750	5.17	25.0	635	5.0	127	.23	.10	Reel	X	3207-0294
3/4	19.1	1.16	29.5	750	5.17	25.0	635	6.0	152	.35	.16	Reel	X	3207-0296

**RECOMMENDED FOR:** Paint spray applications, as well as transfer of petroleum based products (aliphatic, aromatic and chlorinated hydrocarbon such as Toluene, Xylene, Benzene, gasoline and carbon tetrachloride). Reference Gates Chemical Resistance Table for proper hose selection. Compatible with commercially available Bio-Diesel fuels up to B-100. **NOT RECOMMENDED FOR ACIDS OR USE IN HIGH PRESSURE PAINT SPRAY APPLICATIONS REQUIRING A STATIC CONDUCTIVE HOSE.**

**TEMPERATURE:** -40°F to +150°F (-40°C to +66°C) continuous service. NOTE: Contact Denver Product Application (303) 744-5070 when conveying chemicals above 120°F (+49°C).

**CONSTRUCTION:** **Tube:** Type Z (Special flexible Nylon 11). Clear.  
**Reinforcement:** Synthetic, high tensile textile cord.  
**Cover:** Type A (Neoprene). Black.

**COUPLINGS:** 48. For paint service: Binks 3 piece compression ring only. Reference the Hose Coupling Section.

**PACKAGING:** 1/4" through 1/2": Packaged in 600' to 800' reels. Maximum 4 pieces. One length 25' to 50'. Maximum of 2 pieces under 100'.  
3/4": Packaged in 300' to 400' reels. Maximum 3 pieces. One length between 25' to 50'. All other lengths over 50'. Maximum 2 pieces under 100'.

**BRANDING:** Continuous ink print label. Example: "GATES® 77B PAINT SPRAY AND CHEMICAL 3/8" (9.5mm) 500 PSI (3.45MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 5,000 feet for all sizes except 3/8". 3/8" requires 25,000 feet.

**REMNANT LENGTHS:** None.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Air and Multi-Purpose Hose**

**19B Plant Master®**  
(Specification 3219AR)

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	⚡	Suction	⊖	Min. Bend Radius	⤴	Wt. Per Ft.	⚖	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/16	4.8	.43	10.9	500	3.45	30.0	762	3.0	76	.07	.03	Reel	X	3219-2901
1/4	6.4	.50	12.7	250	1.72	30.0	762	3.0	76	.09	.04	Reel	X	3219-2902
1/4	6.4	.62	15.8	500	3.45	30.0	762	3.0	76	.14	.06	Reel	X	3219-2903
5/16	7.9	.62	15.8	250	1.72	30.0	762	3.0	76	.13	.06	Reel	X	3219-2904
5/16	7.9	.69	17.5	500	3.45	30.0	762	3.0	76	.17	.08	Reel	5,000 ft.	3219-2905
3/8	9.5	.69	17.5	250	1.72	30.0	762	3.0	76	.15	.07	Reel	X	3219-2906
3/8	9.5	.75	19.1	500	3.45	30.0	762	3.0	76	.18	.08	Reel	X	3219-2907
1/2	12.7	.84	21.3	250	1.72	25.0	635	5.0	127	.20	.09	Reel	X	3219-2908
1/2	12.7	.88	22.4	500	3.45	25.0	635	5.0	127	.23	.10	Reel	X	3219-2909
5/8	15.9	.94	23.9	250	1.72	20.0	508	6.0	152	.22	.10	Reel	X	3219-2910
5/8	15.9	1.00	25.4	500	3.45	20.0	508	6.0	152	.27	.12	Reel	X	3219-2911
3/4	19.1	1.09	27.7	250	1.72	20.0	508	6.0	152	.28	.13	Reel	X	3219-2912
3/4	19.1	1.19	30.2	500	3.45	20.0	508	6.0	152	.38	.17	Reel	X	3219-2913
1	25.4	1.38	35.1	250	1.72	10.0	254	8.0	203	.41	.19	Reel	X	3219-2914
1	25.4	1.50	38.1	500	3.45	20.0	508	8.0	203	.55	.25	Reel	X	3219-2915
1 1/4	31.8	1.75	44.5	250	1.72	10.0	254	10.0	254	.67	.30	Reel	X	3219-2916
1 1/4	31.8	1.75	44.5	500	3.45	10.0	254	10.0	254	.76	.30	Reel	5,000 ft.	3219-2917
1 3/8	34.9	1.87	47.5	250	1.72	10.0	254	10.0	254	.71	.32	Reel	5,000 ft.	3219-2918
1 3/8	34.9	1.88	47.8	500	3.45	10.0	254	10.0	254	.73	.33	Reel	5,000 ft.	3219-2919
1 1/2	38.1	2.00	50.8	250	1.72	10.0	254	12.0	305	.78	.35	Reel	X	3219-2920
1 1/2	38.1	2.00	50.8	500	3.45	10.0	254	12.0	305	.78	.35	Reel	5,000 ft.	3219-2921

**RECOMMENDED FOR:** Applications requiring a premium grade braided hose, with excellent flexibility and maximum resistance to air, water, petroleum oils, gasoline, kerosene and fuel oil (to 120°F) and lubricating oils (to 212°F). Excellent weather and ozone resistance.

**NOTE:** Not recommended for constant contact with fuels. Not recommended for Bio-Diesel fuels.

**TEMPERATURE:** -40°F to +212°F (-40°C to +100°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Braided, high tensile synthetic textile cord.  
**Cover:** Type C2 (Modified Nitrile). Red.

**COUPLINGS:** 19 (up through 1/2" only), 3 or 4, (up through 1/2" with 20 brass ferrules, up through 1" with bands), 1, 14, or 15 (all sizes), 72 Gates Power Crimp® or 75 Gates GLX®. Reference the Hose Coupling Section.

**PACKAGING:** 3/16" through 1/2": Packaged in 500' to 750' reels. Maximum 3 pieces. Minimum length 50'.  
5/8" through 1": Packaged in 400' to 650' reels. Maximum 3 pieces. Minimum length 50'.  
1 1/4" & over: Packaged in 250' to 400' reels. Maximum 3 pieces. Minimum length 50'.

**BRANDING:** Continuous ink brand. Example: "GATES® 19B Plant Master® Multi-Purpose 3/8" (9.5mm) 250 PSI (1.72MPa) WP Made in U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 5,000 feet.

**REMNANT LENGTHS:** None.

**STANDARDS:** Mil-H-2815G Section 3.12.2 off-gassing for breathing applications such as supplied air respirators, through 1/2" I.D. Nonconductive at 1000 volts D.C. Electrical resistance is greater than one megohm per inch when subjected to 1000 volts D.C. Storage and use may adversely affect electrical properties.  
**Tube:** RMA (Class A) High oil resistance.  
**Cover:** RMA (Class B) Medium oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Air and Multi-Purpose Hose**

**119B Plant Master®**  
(Specification 3219AB)

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	Ⓢ	Suction	○	Min. Bend Radius	R <sub>2</sub>	Wt. Per Ft.	⚖	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.50	12.7	250	1.72	30.0	762	3.0	76	.09	.04	Reel	X	3219-2930
1/4	6.4	.62	15.8	500	3.45	30.0	762	3.0	76	.16	.07	Reel	5,000 ft.	3219-2931
5/16	7.9	.62	15.8	250	1.72	30.0	762	3.0	76	.13	.06	Reel	X	3219-2932
3/8	9.5	.69	17.5	250	1.72	30.0	762	3.0	76	.15	.07	Reel	X	3219-2933
3/8	9.5	.75	19.1	500	3.45	30.0	762	3.0	76	.21	.10	Reel	5,000 ft.	3219-2934
1/2	12.7	.84	21.3	250	1.72	25.0	635	5.0	127	.21	.10	Reel	5,000 ft.	3219-2935
1/2	12.7	.88	22.4	500	3.45	25.0	635	5.0	127	.26	.12	Reel	5,000 ft.	3219-2936
5/8	15.9	.94	23.9	250	1.72	20.0	508	6.0	152	.23	.10	Reel	5,000 ft.	3219-2937
3/4	19.1	1.09	27.7	250	1.72	20.0	508	6.0	152	.29	.13	Reel	X	3219-2938
3/4	19.1	1.19	30.2	500	3.45	20.0	508	6.0	152	.42	.19	Reel	5,000 ft.	3219-2939
1	25.4	1.38	35.1	250	1.72	10.0	254	8.0	203	.42	.19	Reel	X	3219-2940
1	25.4	1.50	38.1	500	3.45	20.0	508	8.0	203	.62	.28	Reel	5,000 ft.	3219-2941
1 1/4	31.8	1.75	44.5	250	1.72	10.0	254	10.0	254	.69	.31	Reel	5,000 ft.	3219-2942
1 1/2	38.1	2.00	50.8	250	1.72	10.0	254	12.0	305	.81	.37	Reel	5,000 ft.	3219-2943

**RECOMMENDED FOR:** Applications requiring a premium grade braided hose, with excellent flexibility and maximum resistance to air, water, petroleum oils, gasoline, kerosene and fuel oil (to 120°F) and lubricating oils (to 212°F). Excellent weather and ozone resistance.

NOTE: Not recommended for constant contact with fuels. Not recommended for Bio-Diesel fuels.

**TEMPERATURE:** -40°F to +212°F (-40°C to +100°C) continuous service.

**CONSTRUCTION:**  
**Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Braided, high tensile synthetic textile cord.  
**Cover:** Type A (Neoprene). Black.

**COUPLINGS:** 19 (up through 1/2" only), 3 or 4, (up through 1/2" with 20 brass ferrules, up through 1" with bands), 1, 14, or 15 (all sizes), 72 Gates Power Crimp® or 75 Gates GLX®. Reference the Hose Coupling Section.

**PACKAGING:** 1/4" through 1/2": Packaged in 500' to 750' reels. Maximum 3 pieces. Minimum length 50'.  
 5/8" through 1": Packaged in 400' to 650' reels. Maximum 3 pieces. Minimum length 50'.  
 1 1/4" & over: Packaged in 250' to 400' reels. Maximum 3 pieces. Minimum length 50'.

**BRANDING:** Continuous ink brand. Example: "GATES® 119B Plant Master® Multi-Purpose 3/8" (9.5mm) 250 PSI (1.72MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 5,000 feet.

**REMNANT LENGTHS:** None.

**STANDARDS:** Mil-H-2815G Section 3.12.2 off-gassing for breathing applications such as supplied air respirators, through 1/2" I.D. Nonconductive at 1000 volts D.C. Electrical resistance is greater than one megohm per inch when subjected to 1000 volts D.C. Storage and use may adversely affect electrical properties.

**Tube:** RMA (Class A) High oil resistance.  
**Cover:** RMA (Class B) Medium oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Air and Multi-Purpose Hose**

**Terminator®**  
(Specification 3202T/3202TW)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.57	14.5	501	3.45	30.0	762	3.0	76	.12	.05	Reel	X	3202-0001
3/8	9.5	.75	19.1	501	3.45	25.0	635	3.0	76	.19	.09	Reel	X	3202-0006
1/2	12.7	.89	22.6	501	3.45	25.0	635	5.0	127	.25	.11	Reel	X	3202-0011
3/4	19.1	1.22	31.0	501	3.45	15.0	381	6.0	152	.42	.19	Reel	X	3202-0016
1	25.4	1.51	38.4	501	3.45	10.0	254	8.0	203	.57	.26	Reel	X	3202-0021
1 1/4	31.8	1.78	45.2	501	3.45	10.0	254	10.0	254	.73	.33	Reel	X	3202-0027
1 1/2	38.1	2.09	53.1	501	3.45	10.0	254	12.0	305	.96	.44	100 ft.	X	3202-0029
2	50.8	2.64	67.1	501	3.45	10.0	254	14.0	356	1.35	.61	100 ft.	X	3202-0032
2	50.8	2.64	67.1	501	3.45	10.0	254	14.0	356	1.35	.61	200 ft.	400 ft.	3202-0033

**RECOMMENDED FOR:** Applications requiring a premium-quality, multi-purpose hose with superior abrasion resistance for air, oil and some chemical applications. Excellent durability for extra long life in these applications: mining, air drill, construction, poultry plants and other severe service. Excellent weather and ozone resistance.  
**NOTE:** Due to Terminator's 501 PSI working pressure, care should be taken to properly select couplings to match. Hose assembly working pressure is the working pressure of the lowest rated component.

**TEMPERATURE:** -40°F to +212°F (-40°C to +100°C) continuous service.

**CONSTRUCTION:**  
**Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Synthetic, high tensile textile cord.  
**Cover:** Type C4 (Carboxylated Nitrile). Yellow.

**COUPLINGS:** 19 (up through 1/2" only), 1, 3 or 4, (up through 1/2" with 20 brass ferrules, up through 1" with bands), 15, 71, 72 Gates Power Crimp®, 73 (up to 250 psi), 74 Gates Mega Crimp® or 75 Gates GLX®. Reference the Hose Coupling Section.

**PACKAGING:** Minimum of 90% of hose reels will be 1-piece lengths.  
 1/4" through 3/4": Packaged in 500' to 700' reels. Maximum 2 pieces in 50' increments.  
 1" and 1 1/4": Packaged in 350' reels. Maximum 3 pieces. Minimum length 50'.  
 1 1/2" and 2": Packaged 100' coiled and wrapped in polyethylene.

**BRANDING:** Continuous ink brand. Example: "GATES® TERMINATOR® 501 PSI (3.45MPa) WP 3/4" (19.1mm) FLAME RESISTANT MSHA 2G-IC-11C MADE IN USA"

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 25,000 feet for sizes through 3/4", 5,000 feet for 1" and 1 1/4", 400 feet for 1 1/2" and larger.

**REMNANT LENGTHS:** None.

**STANDARDS:** Meets MSHA 30 CFR 18.65. Flame resistant. All sizes except 1 1/2" and 2" are nonconductive at 1000 volts D.C. Electrical resistance is greater than one megohm per inch when subjected to 1000 volts D.C. Storage and use may adversely affect electrical properties.  
**Tube:** RMA (Class A) High oil resistance.  
**Cover:** RMA (Class A) High oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Air and Multi-Purpose Hose**

**LOL Plus (Lock-On Hose)**

(Specification 3284D, E, G, H, R, Y)

Color	Nom. I.D.	$\ominus$	Nom. O.D.	$\bigcirc$	Max. W.P.	$\text{Ⓜ}$	Suction		Min. Bend Radius	$R_2$	Wt. Per Ft.	$\triangle$	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
	(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
Black	1/4	6.4	.47	11.9	300	2.07	27.9	711	3.0	76	.09	.04	Reel	X	3201-1100
Black	3/8	9.5	.63	15.9	300	2.07	27.9	711	3.0	76	.11	.05	Reel	X	3201-1101
Black	1/2	12.7	.77	19.6	300	2.07	27.9	711	5.0	127	.15	.07	Reel	X	3201-1102
Black	5/8	15.9	.94	23.9	300	2.07	27.9	711	6.0	152	.20	.09	Reel	X	3201-1103
Black	3/4	19.1	1.06	26.9	300	2.07	15.0	381	7.0	178	.24	.11	Reel	X	3201-1104
Blue	1/4	6.4	.47	11.9	300	2.07	27.9	711	3.0	76	.09	.04	Reel	X	3201-1105
Blue	3/8	9.5	.63	15.9	300	2.07	27.9	711	3.0	76	.11	.05	Reel	X	3201-1106
Blue	1/2	12.7	.77	19.6	300	2.07	27.9	711	5.0	127	.15	.07	Reel	X	3201-1107
Blue	5/8	15.9	.94	23.9	300	2.07	27.9	711	6.0	152	.20	.09	Reel	X	3201-1108
Blue	3/4	19.1	1.06	26.9	300	2.07	15.0	381	7.0	178	.24	.11	Reel	X	3201-1109
Red	1/4	6.4	.47	11.9	300	2.07	27.9	711	3.0	76	.09	.04	Reel	X	3201-1110
Red	3/8	9.5	.63	15.9	300	2.07	27.9	711	3.0	76	.11	.05	Reel	X	3201-1111
Red	1/2	12.7	.77	19.6	300	2.07	27.9	711	5.0	127	.15	.07	Reel	X	3201-1112
Red	5/8	15.9	.94	23.9	300	2.07	27.9	711	6.0	152	.20	.09	Reel	X	3201-1113
Red	3/4	19.1	1.06	26.9	300	2.07	15.0	381	7.0	178	.24	.11	Reel	X	3201-1114
Green	1/4	6.4	.47	11.9	300	2.07	27.9	711	3.0	76	.09	.04	Reel	X	3201-1120
Green	3/8	9.5	.63	15.9	300	2.07	27.9	711	3.0	76	.11	.05	Reel	X	3201-1121
Green	1/2	12.7	.77	19.6	300	2.07	27.9	711	5.0	127	.15	.07	Reel	X	3201-1122
Green	5/8	15.9	.94	23.9	300	2.07	27.9	711	6.0	152	.20	.09	Reel	5,000 ft.	3201-1123
Green	3/4	19.1	1.06	26.9	300	2.07	15.0	381	7.0	178	.24	.11	Reel	X	3201-1124
Gray	1/4	6.4	.47	11.9	300	2.07	27.9	711	3.0	76	.09	.04	Reel	X	3201-1125
Gray	3/8	9.5	.63	15.9	300	2.07	27.9	711	3.0	76	.11	.05	Reel	X	3201-1126
Gray	1/2	12.7	.77	19.6	300	2.07	27.9	711	5.0	127	.15	.07	Reel	X	3201-1127
Gray	5/8	15.9	.94	23.9	300	2.07	27.9	711	6.0	152	.20	.09	Reel	X	3201-1128
Gray	3/4	19.1	1.06	26.9	300	2.07	15.0	381	7.0	178	.24	.11	Reel	X	3201-1129
Yellow	1/4	6.4	.47	11.9	300	2.07	27.9	711	3.0	76	.09	.04	Reel	X	3201-1115
Yellow	3/8	9.5	.63	15.9	300	2.07	27.9	711	3.0	76	.11	.05	Reel	X	3201-1116
Yellow	1/2	12.7	.77	19.6	300	2.07	27.9	711	5.0	127	.15	.07	Reel	X	3201-1117
Yellow	5/8	15.9	.94	23.9	300	2.07	27.9	711	6.0	152	.20	.09	Reel	5,000 ft.	3201-1118
Yellow	3/4	19.1	1.06	26.9	300	2.07	15.0	381	7.0	178	.24	.11	Reel	X	3201-1119

**RECOMMENDED FOR:** NOTE: Lock-On hose and couplings are not recommended for pressure surge applications or critical applications, such as permanent piping in residential or commercial buildings. Not recommended for gasoline or diesel fuels. Petroleum-base hydraulic oils, water, glycol antifreeze solutions, hot lubricating oils, and air.

**TEMPERATURE:** -40°F to +212°F (-40°C to +100°C) normal service. For air: 160°F (+71°C) only. For water emulsion, see Gates Hydraulic Hose Catalog #35093.

**CONSTRUCTION:**  
**Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Braided, high tensile synthetic textile cord.  
**Cover:** Type A (Neoprene). Black.  
 Type C2 (Modified Nitrile). Blue, Red, Yellow, Green or Gray.

**COUPLINGS:** 75 Gates GLX®, Gates Hydraulic Lock-On Couplings. NOTE: Do not use clamps with Lock On fittings. (Reference Gates Hydraulic Hose Catalog #35093) or clamp over beaded nipple. Reference the Hose Coupling Section.

**PACKAGING:** 1/4" through 1/2": Packaged in 300' reels. Maximum of 3 pieces per reel. Minimum length 50'.  
 5/8": Packaged in 250' reels. Maximum of 3 pieces per reel. Minimum length 50'.  
 3/4": Packaged in 225' reels. Maximum of 3 pieces per reel. Minimum length 50'.

**BRANDING:** Continuous ink brand. Example: "GATES® LOL PLUS 12LOLA+ 3/4 INCH 300 PSI WP FLAME RESISTANT COVER MADE IN U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 5,000 feet per size.

**REMNANT LENGTHS:** None.

**STANDARDS:**  
**Tube:** RMA (Class A) High oil resistance.  
**Cover:** RMA (Class B) Medium oil resistance. Flame resistant.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Air and Multi-Purpose Hose**

**Python® Plus (Lock-On Hose)**

(Specification 3222B, G, R, Y, BK, GY)

Color	Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
	(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
Black	1/4	6.4	.54	13.7	300	2.07	30.0	762	3.0	76	.11	.05	Reel	X	3222-0183
Black	3/8	9.5	.68	17.3	300	2.07	30.0	762	3.0	76	.15	.07	Reel	X	3222-0184
Black	1/2	12.7	.81	20.6	300	2.07	30.0	762	5.0	127	.18	.08	Reel	X	3222-0185
Blue	1/4	6.4	.54	13.7	300	2.07	30.0	762	3.0	76	.11	.05	Reel	X	3222-0143
Blue	3/8	9.5	.68	17.3	300	2.07	30.0	762	3.0	76	.15	.07	Reel	X	3222-0144
Blue	1/2	12.7	.81	20.6	300	2.07	30.0	762	5.0	127	.18	.08	Reel	X	3222-0145
Red	1/4	6.4	.54	13.7	300	2.07	30.0	762	3.0	76	.11	.05	Reel	25,000 ft.	3222-0333
Red	3/8	9.5	.68	17.3	300	2.07	30.0	762	3.0	76	.15	.07	Reel	X	3222-0334
Red	1/2	12.7	.81	20.6	300	2.07	30.0	762	5.0	127	.18	.08	Reel	X	3222-0335
Green	1/4	6.4	.54	13.7	300	2.07	30.0	762	3.0	76	.11	.05	Reel	25,000 ft.	3222-0233
Green	3/8	9.5	.68	17.3	300	2.07	30.0	762	3.0	76	.15	.07	Reel	X	3222-0234
Green	1/2	12.7	.81	20.6	300	2.07	30.0	762	5.0	127	.18	.08	Reel	X	3222-0235
Gray	1/4	6.4	.54	13.7	300	2.07	30.0	762	3.0	76	.11	.05	Reel	X	3222-0283
Gray	3/8	9.5	.68	17.3	300	2.07	30.0	762	3.0	76	.15	.07	Reel	X	3222-0284
Gray	1/2	12.7	.81	20.6	300	2.07	30.0	762	5.0	127	.18	.08	Reel	X	3222-0285
Yellow	1/4	6.4	.54	13.7	300	2.07	30.0	762	3.0	76	.11	.05	Reel	25,000 ft.	3222-0083
Yellow	3/8	9.5	.68	17.3	300	2.07	30.0	762	3.0	76	.15	.07	Reel	X	3222-0084
Yellow	1/2	12.7	.81	20.6	300	2.07	30.0	762	5.0	127	.18	.08	Reel	X	3222-0085

**RECOMMENDED FOR:** Air, water, oils, antifreeze solutions and applications where Lock-On fittings are used.  
**NOTE:** Lock-On hose is not recommended for applications where vibrations or pressure surges exist. Do not use oil for Lock-On fitting insertion purposes. Not recommended for gasoline or diesel fuels.

**TEMPERATURE:** -20°F to +212°F (-29°C to +100°C) normal service. For air: 160°F (+71°C) only. For water emulsion, see Gates Hydraulic Hose Catalog #35093.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Aramid tensile cord.  
**Cover:** Type A (Neoprene). Black.  
 Type C2 (Modified Nitrile). Blue, Red, Yellow, Green or Gray.

**COUPLINGS:** 75 Gates GLX®, Gates Hydraulic Lock-On Couplings. **NOTE:** Do not use clamps with Lock On fittings. (Reference Gates Hydraulic Hose Catalog #35093) or clamp over beaded nipple. Reference the Hose Coupling Section.

**PACKAGING:** Minimum of 90% of hose reels will be 1-piece lengths.  
 1/4" through 1/2": Packaged in 500' to 700' reels. Maximum of 2 pieces per reel. All lengths in 50' increments.

**BRANDING:** Continuous ink brand. Example: "GATES® PYTHON® PLUS LOCK-ON 1/2 INCH (12.7mm) 300 PSI (2.07MPa) WP NONCONDUCTIVE MADE IN USA"

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 25,000 feet per size.

**REMNANT LENGTHS:** None.

**STANDARDS:** Nonconductive at 1000 volts D.C. Electrical resistance is greater than one megohm per inch when subjected to 1000 volts D.C. Storage and use may adversely affect electrical properties.  
**Tube:** RMA (Class A) High oil resistance.  
**Cover:** RMA (Class B) Medium oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Air and Multi-Purpose Hose**

**Premo Flex®**  
(Specification 3205R)

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	⚡	Suction	⊖	Min. Bend Radius	⤴	Wt. Per Ft.	⚖	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/16	4.8	.45	11.2	250	1.72	30.0	762	2.0	51	.07	.03	Reel	25,000 ft.	3205-0010
1/4	6.4	.50	12.7	250	1.72	30.0	762	2.0	51	.09	.04	Reel	X	3205-0015
1/4	6.4	.57	14.5	315	2.17	30.0	762	2.0	51	.12	.05	Reel	X	3205-0016
5/16	7.9	.56	14.2	250	1.72	30.0	762	2.0	51	.10	.05	Reel	25,000 ft.	3205-0020
5/16	7.9	.67	17.0	315	2.17	30.0	762	2.0	51	.16	.07	Reel	25,000 ft.	3205-0021
3/8	9.5	.66	16.8	250	1.72	30.0	762	3.0	76	.14	.06	Reel	X	3205-0025
3/8	9.5	.73	18.5	315	2.17	30.0	762	3.0	76	.18	.08	Reel	X	3205-0026
1/2	12.7	.85	21.6	250	1.72	25.0	635	4.0	102	.22	.10	Reel	X	3205-0030
1/2	12.7	.88	22.4	315	2.17	25.0	635	4.0	102	.24	.11	Reel	X	3205-0031
5/8	15.9	.98	24.9	250	1.72	20.0	508	5.0	127	.27	.12	Reel	25,000 ft.	3205-0035
5/8	15.9	.98	24.9	315	2.17	20.0	508	5.0	127	.27	.12	Reel	X	3205-0036
3/4	19.1	1.15	29.2	250	1.72	20.0	508	5.0	127	.36	.16	Reel	X	3205-0040
3/4	19.1	1.15	29.2	250	1.72	20.0	508	5.0	127	.36	.16	50 ft.	25,000 ft.	3205-5040
3/4	19.1	1.19	30.2	315	2.17	20.0	508	5.0	127	.40	.18	Reel	X	3205-0041
1	25.4	1.47	37.3	250	1.72	10.0	254	8.0	203	.54	.25	Reel	X	3205-0046
1 1/4	31.8	1.75	44.5	250	1.72	10.0	254	10.0	254	.67	.30	Reel	X	3205-0049
1 1/2	38.1	2.00	50.8	250	1.72	10.0	254	12.0	305	.78	.35	Reel	X	3205-0055

**RECOMMENDED FOR:** Applications requiring a premium grade spiral hose with excellent flexibility and maximum resistance to air, water, petroleum oils and lubricating oils, (to 212°F). Recommended for gasoline, kerosene and fuel oil transfer only (to 120°F). Excellent weather and ozone resistance.

**TEMPERATURE:** -40°F to +212°F (-40°C to +100°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Synthetic, high tensile textile cord.  
**Cover:** Type C2 (Modified Nitrile). Red.

**COUPLINGS:** 19 (up through 1/2" only), 3 or 4, (up through 1/2" with 20 ferrules, up through 1" with bands), 1, 8, 14, 15, 72 Gates Power Crimp® or 75 Gates GLX®. Reference the Hose Coupling Section.

**PACKAGING:** Minimum of 90% of hose reels will be 1-piece lengths.  
3/16" through 3/4": Packaged in 500' to 700' reels. Maximum 2 pieces in 50' increments.  
3/4" x 50': Packaged 200' per carton, each length coiled and tied.  
1": Packaged in 300' to 400' reels. Maximum 2 pieces in 50' increments.  
1 1/4": Packaged in 250' to 350' reels. Maximum 3 pieces in 25' increments. Minimum length 50'.  
1 1/2": Packaged in 200' to 300' reels. Maximum 3 pieces in 25' increments. Minimum length 50'.

**BRANDING:** Continuous ink brand. Example: "GATES® PREMO FLEX® MULTI-PURPOSE 3/8 INCH (9.5mm) 250 PSI (1.72MPa) WP NONCONDUCTIVE @1000V DC (>1 MEGOHM/IN.) MADE IN USA"

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 25,000 feet through 1 1/4" and 5,000 feet for 1 1/2".

**REMNANT LENGTHS:** None.

**STANDARDS:** Nonconductive at 1000 volts D.C. Electrical resistance is greater than one megohm per inch when subjected to 1000 volts D.C. Storage and use may adversely affect electrical properties. Mil-H-2815G Section 3.12.2 off-gassing for breathing applications such as supplied air respirators, for sizes 3/16" through 3/8", 3/4" and 1".  
**Tube:** RMA (Class A) High oil resistance.  
**Cover:** RMA (Class B) Medium oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Air and Multi-Purpose Hose**

**6B Dura Master®**  
(Specification 3206)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.50	12.7	250	1.72	30.0	762	3.0	76	.09	.04	Reel	X	3206-0202
1/4	6.4	.62	15.8	315	2.17	30.0	762	3.0	76	.15	.07	Reel	X	3206-0265
5/16	7.9	.62	15.8	250	1.72	30.0	762	3.0	76	.14	.06	Reel	X	3206-0204
3/8	9.5	.69	17.5	250	1.72	30.0	762	3.0	76	.16	.07	Reel	X	3206-0270
3/8	9.5	.75	19.1	315	2.17	30.0	762	3.0	76	.20	.09	Reel	X	3206-0280
1/2	12.7	.84	21.3	250	1.72	25.0	635	5.0	127	.21	.10	Reel	X	3206-0208
1/2	12.7	.88	22.4	315	2.17	25.0	635	5.0	127	.25	.11	Reel	X	3206-0244
3/4	19.1	1.09	27.7	250	1.72	20.0	508	6.0	152	.29	.13	Reel	X	3206-0212
3/4	19.1	1.19	30.2	315	2.17	20.0	508	6.0	152	.40	.18	Reel	X	3206-0245
1	25.4	1.38	35.1	250	1.72	10.0	254	8.0	203	.42	.19	Reel	X	3206-0213
1	25.4	1.50	38.1	315	2.17	20.0	508	8.0	203	.59	.27	Reel	5,000 ft.	3206-0246
1 1/4	31.8	1.73	43.9	200	1.38	10.0	254	10.0	254	.67	.30	Reel	X	3206-0215
1 1/2	38.1	1.98	50.3	200	1.38	10.0	254	12.0	305	.79	.36	Reel	X	3206-0216
2	50.8	2.56	65.0	200	1.38	4.0	100	16.5	419	.99	.45	100 ft.	X	3206-3968

**RECOMMENDED FOR:** Applications requiring a heavy duty braided hose with good resistance to air, water and heat. For SAE oils intermittent contact only.

**TEMPERATURE:** -22°F to +158°F (-30°C to +70°C) continuous service. For 2" size only.  
-40°F to +200°F (-40°C to +93°C) continuous service.

**CONSTRUCTION:** **Tube:** Type B1 (Specially compounded elastomer). Black.  
**Reinforcement:** Braided, high tensile synthetic textile cord.  
**Cover:** Type B2 (Specially compounded elastomer). Black with red molded stripe. For size 2" only.  
Type P (EPDM). Red. All sizes through 1/2" are perforated.

**COUPLINGS:** 19 (up through 1/2" only), 1, 3 or 4, (up through 1/2" with 20 brass ferrules, up through 1" with bands), 72 Gates Power Crimp® or 75 Gates GLX®. Reusable couplings are not recommended. Reference the Hose Coupling Section.

**PACKAGING:** 1/4" through 1/2": Packaged in 500' to 750' reels. Maximum 3 pieces. Minimum length 50'.  
3/4" and 1": Packaged in 400' to 650' reels. Maximum 3 pieces. Minimum length 50'.  
1 1/4" & over: Packaged in 250' to 400' reels. Maximum 3 pieces. Minimum length 50'.  
2" x 100': Packaged 100' per carton, coiled and tied.

**BRANDING:** Continuous ink brand. Example: "GATES® 6B DURA MASTER® MULTI-PURPOSE 2 INCH (50.8mm) 200 PSI (1.38MPa) WP MADE IN INDIA" (2" size only)  
Continuous ink brand. Example: "GATES® 6B DURA MASTER® MULTI-PURPOSE 3/8 INCH (9.5mm) 250 PSI (1.72MPa) WP MADE IN U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 5,000 feet for sizes through 1 1/2" and 600 feet for 2".

**REMNANT LENGTHS:** None.

**STANDARDS:** **Tube:** RMA (Class B) Medium oil resistance.  
**Cover:** RMA (Class C) Limited oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Air and Multi-Purpose Hose**

**Duro Flex®**  
(Specification 3200R/3200B)

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	Ⓢ	Suction	⊖	Min. Bend Radius	R <sub>2</sub>	Wt. Per Ft.	⚖	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.50	12.7	250	1.72	30.0	762	2.0	51	.09	.04	Reel	X	3200-0002
1/4	6.4	.57	14.5	300	2.07	30.0	762	2.0	51	.12	.05	Reel	X	3200-0003
3/8	9.5	.66	16.8	250	1.72	30.0	762	3.0	76	.14	.06	Reel	X	3200-0006
3/8	9.5	.73	18.5	300	2.07	30.0	762	3.0	76	.18	.08	Reel	X	3200-0007
1/2	12.7	.81	20.6	250	1.72	25.0	635	4.0	102	.19	.09	Reel	X	3200-0008
1/2	12.7	.84	21.3	300	2.07	25.0	635	4.0	102	.25	.11	Reel	X	3200-0009
5/8	15.9	.98	24.9	250	1.72	20.0	508	5.0	127	.27	.12	Reel	25,000 ft.	3200-0010
5/8	15.9	.98	24.9	300	2.07	20.0	508	5.0	127	.27	.12	Reel	X	3200-0011
3/4	19.1	1.15	29.2	250	1.72	20.0	508	5.0	127	.36	.16	Reel	X	3200-0012
3/4	19.1	1.15	29.2	250	1.72	20.0	508	5.0	127	.36	.16	50 ft.	25,000 ft.	3200-5012
3/4	19.1	1.15	29.2	300	2.07	20.0	508	5.0	127	.36	.16	Reel	X	3200-0013
1	25.4	1.47	37.3	250	1.72	10.0	254	8.0	203	.54	.25	Reel	X	3200-0014
1 1/4	31.8	1.73	43.9	250	1.72	10.0	254	10.0	254	.67	.30	Reel	X	3200-0015
1 1/2	38.1	1.98	50.3	250	1.72	10.0	254	12.0	305	.79	.36	Reel	X	3200-0016

**RECOMMENDED FOR:** Applications requiring maximum flexibility and good resistance to air, water and heat. For SAE oils intermittent contact only.

**TEMPERATURE:** -40°F to +200°F (-40°C to +93°C) continuous service.

**CONSTRUCTION:** **Tube:** Type B1 (Specially compounded elastomer). Black.  
**Reinforcement:** Synthetic, high tensile textile cord.  
**Cover:** Type P (EPDM). Red. All sizes through 1/2" have perforated cover. (Black, cover available on special order).

**COUPLINGS:** 19 (up through 1/2" only), 1, 3 or 4, (up through 1/2" with 20 brass ferrules, up through 1" with bands), 72 Gates Power Crimp® or 75 Gates GLX®. Reference the Hose Coupling Section.

**PACKAGING:** Minimum of 90% of hose reels will be 1-piece lengths.  
1/4" through 3/4": Packaged in 500' to 700' reels. Maximum 2 pieces in 50' increments.  
3/4" x 50': Packaged 200' per carton, each length coiled and tied.  
1": Packaged in 300' to 400' reels. Maximum 2 pieces in 50' increments.  
1 1/4": Packaged in 300' reels. Maximum 2 pieces in 50' increments.  
1 1/2": Packaged in 250' reels. Maximum 2 pieces in 50' increments.

**BRANDING:** Continuous ink brand. Example: "GATES® DURO FLEX® MULTI-PURPOSE 3/8 INCH (9.5mm) 250 PSI (1.72MPa) WP MADE IN USA"

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 25,000 feet. Black cover is made to order. Special production run requirements apply. Price is 5% less than red cover.

**REMNANT LENGTHS:** None.

**STANDARDS:** **Tube:** RMA (Class B) Medium oil resistance.  
**Cover:** RMA (Class C) Limited oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



Air and Multi-Purpose Hose

**Adapta Flex™ Red**  
(Specification 3204E/3204S)

Red Cover

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	⊕	Suction	⊖	Min. Bend Radius	⊕	Wt. Per Ft.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.50	12.7	200	1.38	30.0	762	3.0	76	.09	.04	Reel	X	3204-1301
1/4	6.4	.50	12.7	250	1.72	30.0	762	3.0	76	.09	.04	Reel	X	3204-1304
1/4	6.4	.62	15.8	250	1.72	30.0	762	3.0	76	.15	.07	Reel	25,000 ft.	3204-1386
1/4	6.4	.53	13.5	300	2.07	30.0	762	3.0	76	.10	.05	Reel	X	3204-1307
5/16	7.9	.53	13.5	200	1.38	30.0	762	3.0	76	.09	.04	Reel	X	3204-1316
3/8	9.5	.66	16.8	200	1.38	30.0	762	3.0	76	.14	.06	Reel	X	3204-1319
3/8	9.5	.66	16.8	250	1.72	30.0	762	3.0	76	.14	.06	Reel	X	3204-1322
3/8	9.5	.67	17.0	300	2.07	30.0	762	3.0	76	.15	.07	Reel	X	3204-1325
1/2	12.7	.81	20.6	200	1.38	25.0	635	5.0	127	.19	.09	Reel	X	3204-1328
1/2	12.7	.81	20.6	250	1.72	25.0	635	5.0	127	.19	.09	Reel	X	3204-1331
1/2	12.7	.83	21.1	300	2.07	25.0	635	5.0	127	.20	.09	Reel	X	3204-1334
5/8	15.9	.97	24.6	200	1.38	20.0	508	6.0	152	.26	.11	Reel	X	3204-1337
5/8	15.9	.97	24.6	250	1.72	20.0	508	6.0	152	.26	.11	Reel	X	3204-1340
3/4	19.1	1.11	28.2	200	1.38	15.0	381	6.0	152	.31	.14	50 ft.	25,000 ft.	3204-5415
3/4	19.1	1.11	28.2	200	1.38	15.0	381	6.0	152	.31	.14	Reel	X	3204-1346
3/4	19.1	1.11	28.2	250	1.72	20.0	508	6.0	152	.26	.11	Reel	X	3204-1349
3/4	19.1	1.15	29.2	250	1.72	20.0	508	6.0	152	.35	.16	50 ft.	200 ft. (X)	3204-5420
3/4	19.1	1.15	29.2	300	2.07	15.0	381	6.0	152	.35	.16	Reel	X	3204-1355
3/4	19.1	1.15	29.2	300	2.07	15.0	381	6.0	152	.35	.16	50 ft.	200 ft. (X)	3204-5675
1	25.4	1.39	35.3	150	1.03	10.0	254	8.0	203	.43	.21	Reel	X	3204-1358
1	25.4	1.39	35.3	200	1.38	10.0	254	8.0	203	.45	.21	Reel	X	3204-1361
1	25.4	1.47	37.3	300	2.07	10.0	254	8.0	203	.54	.26	Reel	X	3204-1364

NOTE: For 1 1/4" and 1 1/2" I.D. see Duro Flex®.

Adapta Flex™ Assemblies

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	⊕	Suction	⊖	Min. Bend Radius	⊕	Wt. Per Ea.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/8	9.5	.66	16.8	250	1.72	30.0	762	3.0	76	6.95	3.15	50 ft.	8 ea. (X)	3204-1720
3/8	9.5	.66	16.8	250	1.72	30.0	762	3.0	76	6.95	3.15	50 ft.-BP**	54 ea. (X)	3204-1900

**RECOMMENDED FOR:** Air and water applications requiring maximum flexibility in any industry, including mining, construction, agriculture, vehicle repair and in-plant operations. Outstanding resistance to heat and ozone. Suitable for light agricultural spraying, such as dilute solutions of herbicides.

**TEMPERATURE:** -40°F to +200°F (-40°C to +93°C) continuous service.

**CONSTRUCTION:**  
**Tube:** Type P (EPDM). Black.  
**Reinforcement:** Synthetic, high tensile textile cord.  
**Cover:** Type P (EPDM). Red. All sizes through 1/2" are perforated.

**COUPLINGS:** 19 (up through 1/2" only), 1, 3 or 4, (up through 1/2" with 20 brass ferrules, up through 1" with bands), 72 Gates Power Crimp® or 75 Gates GLX®. Reference the Hose Coupling Section.

**PACKAGING:** Minimum of 90% of hose reels will be 1-piece lengths.  
 1/4" through 3/4": Packaged in 500' to 700' reels. Maximum 2 pieces in 50' increments.  
 3/8" x 50' coupled assemblies: \*\*BP - Bulk Pack, 54 assemblies per pallet carton.  
 3/8" x 50' coupled assemblies: Coiled in a carton, 5 assemblies per carton.  
 5/8" x 50': Packaged 250' per carton, each length coiled and tied.  
 3/4" x 50': Packaged 200' per carton, each length coiled and tied.  
 1": Packaged in 300' to 400' reels. Maximum 2 pieces in 50' increments.

**BRANDING:** Continuous ink brand. Example: "GATES® ADAPTA FLEX™ MULTI-PURPOSE 3/8 INCH (9.5mm) 250 PSI (1.72MPa) WP MADE IN USA"

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 25,000 feet per size.

**REMNANT LENGTHS:** None.

**STANDARDS:** **Tube:** RMA (Class C) Limited oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Air and Multi-Purpose Hose** **Adapta Flex™ Red Cover - UPS Shippable Reels**  
(Specification 3204E)

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	⊕	Suction	○	Min. Bend Radius	⊕	Wt. Per Ft.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.50	12.7	200	1.38	30.0	762	3.0	76	.09	.04	Reel	X	3204-1373
3/8	9.5	.66	16.8	200	1.38	30.0	762	3.0	76	.14	.06	Reel	X	3204-1375
1/2	12.7	.81	20.6	200	1.38	25.0	635	5.0	127	.19	.09	Reel	X	3204-1377
5/8	15.9	.97	24.6	200	1.38	20.0	508	6.0	152	.26	.11	Reel	X	3204-1379
3/4	19.1	1.11	28.2	200	1.38	15.0	381	6.0	152	.31	.14	Reel	X	3204-1381
1	25.4	1.40	35.6	200	1.38	10.0	254	8.0	203	.45	.20	Reel	X	3204-1383

**RECOMMENDED FOR:** Air and water applications requiring maximum flexibility in any industry, including mining, construction, agriculture, vehicle repair and in-plant operations. Outstanding resistance to heat and ozone. Suitable for light agricultural spraying, such as dilute solutions of herbicides.

**TEMPERATURE:** -40°F to +200°F (-40°C to +93°C) continuous service.

**CONSTRUCTION:** **Tube:** Type P (EPDM). Black.  
**Reinforcement:** Synthetic, high tensile textile cord.  
**Cover:** Type P (EPDM). Red. All sizes through 1/2" are perforated. (Blue, green and yellow covers available on special order).

**COUPLINGS:** 19 (up through 1/2" only), 1, 3 or 4, (up through 1/2" with 20 brass ferrules, up through 1" with bands), 72 Gates Power Crimp® or 75 Gates GLX®. Reference the Hose Coupling Section.

**PACKAGING:** All sizes packaged on single piece reels meet UPS (United Parcel Service) size and weight requirements.  
1/4" and 3/8": Packaged in 375' to 425' single piece reels.  
1/2": Packaged in 225' to 275' single piece reels.  
5/8": Packaged in 235' to 265' single piece reels.  
3/4": Packaged in 185' to 215' single piece reels.  
1": Packaged in 100' to 125' single piece reels.

**BRANDING:** Continuous ink brand. Example: "GATES® ADAPTA FLEX™ MULTI-PURPOSE 3/8 INCH (9.5mm) 200 PSI (1.38MPa) WP MADE IN USA"

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 25,000 feet per size. Black, blue, green and yellow covers are made to order and require 25,000 feet orders by size/color. Prices for colors as follows from list price: Black less 5% (x.95). Blue, green and yellow contact Gates Corporation for pricing, order requirements and availability.

**REMNANT LENGTHS:** None.

**STANDARDS:** Reels meet size and weight requirements of UPS (United Parcel Service).  
**Tube:** RMA (Class C) Limited oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Air and Multi-Purpose Hose**

**Adapta Flex™ Black**  
(Specification 3204EB/3204SB)

**Black Cover**

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	⊕	Suction	⊖	Min. Bend Radius	⊕	Wt. Per Ft.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.50	12.7	200	1.38	30.0	762	3.0	76	.09	.04	Reel	X	3204-1401
1/4	6.4	.50	12.7	250	1.72	30.0	762	3.0	76	.09	.04	Reel	25,000 ft.	3204-1404
1/4	6.4	.62	15.8	250	1.72	30.0	762	3.0	76	.15	.07	Reel	25,000 ft.	3204-1406
3/8	9.5	.66	16.8	200	1.38	30.0	762	3.0	76	.14	.06	Reel	X	3204-1407
3/8	9.5	.66	16.8	250	1.72	30.0	762	3.0	76	.14	.06	Reel	X	3204-1410
1/2	12.7	.81	20.6	200	1.38	25.0	635	5.0	127	.19	.09	Reel	X	3204-1413
1/2	12.7	.81	20.6	250	1.72	25.0	635	5.0	127	.19	.09	Reel	X	3204-1416
5/8	15.9	.97	24.6	200	1.38	20.0	508	6.0	152	.26	.12	Reel	X	3204-1419
3/4	19.1	1.11	28.2	200	1.38	15.0	381	6.0	152	.32	.15	Reel	X	3204-1422
3/4	19.1	1.15	29.2	250	1.72	20.0	508	6.0	152	.35	.16	Reel	X	3204-1425
3/4	19.1	1.15	29.2	250	1.72	20.0	508	6.0	152	.35	.16	50 ft.	200 ft. (X)	3204-5820
1	25.4	1.40	35.6	150	1.03	10.0	254	8.0	203	.44	.20	Reel	X	3204-1428
1	25.4	1.40	35.6	200	1.38	10.0	254	8.0	203	.45	.20	Reel	X	3204-1431
1 1/4	31.8	1.73	43.9	250	1.72	10.0	254	10.0	254	.68	.31	Reel	X	3204-1434
1 1/2	38.1	1.98	50.3	250	1.72	10.0	254	12.0	305	.79	.36	Reel	X	3204-1437

**Adapta Flex™ Black Cover Assemblies**

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	⊕	Suction	⊖	Min. Bend Radius	⊕	Wt. Per Ea.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/8	9.5	.66	16.8	250	1.72	30.0	762	3.0	76	7.05	3.20	50 ft.	8 ea. (X)	3204-1721

**RECOMMENDED FOR:** Air and water applications requiring maximum flexibility in any industry, including mining, construction, agriculture, vehicle repair and in-plant operations. Outstanding resistance to heat and ozone. Suitable for light agricultural spraying, such as dilute solutions of herbicides.

**TEMPERATURE:** -40°F to +200°F (-40°C to +93°C) continuous service.

**CONSTRUCTION:** **Tube:** Type P (EPDM). Black.  
**Reinforcement:** Synthetic, high tensile textile cord.  
**Cover:** Type P (EPDM). Black. All sizes through 1/2 " are perforated.

**COUPLINGS:** 19 (up through 1/2" only), 1, 3 or 4, (up through 1/2" with 20 brass ferrules, up through 1" with bands), 72 Gates Power Crimp® or 75 Gates GLX®. Reference the Hose Coupling Section.

**PACKAGING:** Minimum of 90% of hose reels will be 1-piece lengths.  
1/4" through 3/4": Packaged in 500' to 700' reels. Maximum 2 pieces in 50' increments.  
3/8" x 50' coupled assemblies: Coiled in a carton, 5 assemblies per carton.  
3/4" x 50': Packaged 200' per carton, each length coiled and tied.  
1": Packaged in 300' to 400' reels. Maximum 2 pieces in 50' increments.  
1 1/4": Packaged in 300' reels. Maximum 2 pieces in 50' increments.  
1 1/2": Packaged in 250' reels. Maximum 2 pieces in 50' increments.

**BRANDING:** Continuous ink brand. Example: "GATES® ADAPTA FLEX™ MULTI-PURPOSE 3/8 INCH (9.5mm) 250 PSI (1.72MPa) WP MADE IN USA"

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 25,000 feet per size.

**REMNANT LENGTHS:** None.

**STANDARDS:** **Tube:** RMA (Class C) Limited oil resistance.  
**Cover:** RMA (Class C) Limited oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Air and Multi-Purpose Hose**

**Adapta Flex™ Blue, Green &  
Yellow Cover**  
(Specification 3204BL, GR, YL)

Color	Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	Ⓢ	Suction	⊙	Min. Bend Radius	Ⓡ	Wt. Per Ft.	Ⓢ	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
	(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
Blue	1/4	6.4	.50	12.7	250	1.72	30.0	762	3.0	76	.09	.04	Reel	25,000 ft.	3204-1496
Blue	3/8	9.5	.66	16.8	250	1.72	30.0	762	3.0	76	.14	.06	Reel	X	3204-1497
Blue	3/8	9.5	.69	17.5	300	2.07	30.0	762	3.0	76	.15	.07	Reel	25,000 ft.	3204-1501
Blue	1/2	12.7	.81	20.6	250	1.72	25.0	635	5.0	127	.19	.09	Reel	X	3204-1498
Blue	1/2	12.7	.83	21.1	300	2.07	25.0	635	5.0	127	.20	.09	Reel	25,000 ft.	3204-1503
Blue	3/4	19.1	1.15	29.2	250	1.72	20.0	508	6.0	152	.35	.16	Reel	X	3204-1500
Blue	3/4	19.1	1.15	29.2	300	2.07	15.0	381	6.0	152	.35	.16	50 ft.	200 ft. (X)	3204-0560
Blue	3/4	19.1	1.15	29.2	300	2.07	15.0	381	6.0	152	.35	.16	Reel	X	3204-1505
Green	1/4	6.4	.50	12.7	250	1.72	30.0	762	3.0	76	.09	.04	Reel	25,000 ft.	3204-1516
Green	3/8	9.5	.66	16.8	250	1.72	30.0	762	3.0	76	.14	.06	Reel	25,000 ft.	3204-1517
Green	3/8	9.5	.69	17.5	300	2.07	30.0	762	3.0	76	.15	.07	Reel	25,000 ft.	3204-1511
Green	1/2	12.7	.81	20.6	250	1.72	25.0	635	5.0	127	.19	.09	Reel	25,000 ft.	3204-1518
Green	1/2	12.7	.83	21.1	300	2.07	25.0	635	5.0	127	.20	.09	Reel	25,000 ft.	3204-1513
Green	3/4	19.1	1.15	29.2	250	1.72	20.0	508	6.0	152	.35	.16	Reel	25,000 ft.	3204-1520
Green	3/4	19.1	1.15	29.2	300	2.07	15.0	381	6.0	152	.35	.16	50 ft.	200 ft. (X)	3204-0506
Green	3/4	19.1	1.15	29.2	300	2.07	15.0	381	6.0	152	.35	.16	Reel	X	3204-1515
Yellow	1/4	6.4	.50	12.7	250	1.72	30.0	762	3.0	76	.09	.04	Reel	25,000 ft.	3204-1526
Yellow	3/8	9.5	.66	16.8	250	1.72	30.0	762	3.0	76	.14	.06	Reel	25,000 ft.	3204-1517
Yellow	3/8	9.5	.69	17.5	300	2.07	30.0	762	3.0	76	.15	.07	Reel	25,000 ft.	3204-1521
Yellow	1/2	12.7	.81	20.6	250	1.72	25.0	635	5.0	127	.19	.09	Reel	X	3204-1528
Yellow	1/2	12.7	.83	21.1	300	2.07	25.0	635	5.0	127	.20	.09	Reel	25,000 ft.	3204-1523
Yellow	3/4	19.1	1.15	29.2	250	1.72	20.0	508	6.0	152	.35	.16	Reel	25,000 ft.	3204-1530
Yellow	3/4	19.1	1.15	29.2	300	2.07	15.0	381	6.0	152	.35	.16	50 ft.	200 ft. (X)	3204-0558
Yellow	3/4	19.1	1.15	29.2	300	2.07	15.0	381	6.0	152	.35	.16	Reel	25,000 ft.	3204-1525

**RECOMMENDED FOR:** Air and water applications requiring maximum flexibility in any industry, including mining, construction, agriculture, vehicle repair and in-plant operations. Outstanding resistance to heat and ozone. Suitable for light agricultural spraying, such as dilute solutions of herbicides.

**TEMPERATURE:** -40°F to +200°F (-40°C to +93°C) continuous service.

**CONSTRUCTION:** **Tube:** Type P (EPDM). Black.  
**Reinforcement:** Synthetic, high tensile textile cord.  
**Cover:** Type P (EPDM). Blue, Green or Yellow. All sizes through 1/2" are perforated.

**COUPLINGS:** 19 (up through 1/2" only), 1, 3 or 4, (up through 1/2" with 20 brass ferrules, up through 1" with bands), 72 Gates Power Crimp® or 75 Gates GLX®. Reference the Hose Coupling Section.

**PACKAGING:** Minimum of 90% of hose reels will be 1-piece lengths.  
3/8" through 3/4": Packaged in 500' to 700' reels. Maximum 2 pieces in 50' increments.  
3/4" x 50': Packaged 200' per carton, each length coiled and tied.

**BRANDING:** Continuous ink brand. Example: "GATES® ADAPTA FLEX™ MULTI-PURPOSE 3/8 INCH (9.5mm) 300 PSI (2.07MPa) WP MADE IN USA"

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 25,000 feet per size.

**REMNANT LENGTHS:** None.

**STANDARDS:** **Tube:** RMA (Class C) Limited oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Air and Multi-Purpose Hose**

**Tufflex® Plus**  
(Specification 7746 Silicone Free)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.50	12.7	300	2.07	25.0	635	.7	18	.11	.05	Reel	X	7746-1022
3/8	9.5	.60	15.2	300	2.07	25.0	635	1.0	25	.11	.05	Reel	X	7746-1023
1/2	12.7	.79	20.1	300	2.07	25.0	635	1.3	33	.13	.06	Reel	X	7746-1024
5/8	15.9	.92	23.4	300	2.07	20.0	508	1.8	46	.20	.09	Reel	X	7746-1025
3/4	19.1	1.07	27.2	300	2.07	15.0	381	2.5	64	.29	.13	Reel	X	7746-1026
1	25.4	1.44	36.6	200	1.38	15.0	381	3.5	89	.44	.20	Reel	X	7746-1027

\*Up through 3/4" 300 psi (2.07 MPa) at +70°F (+21°C), 250 psi (1.72 MPa) at +150°F (+66°C). For 1" 200 psi (1.38 MPa) at +70°F (+21°C), 150 psi (1.03 MPa) at 150°F (+66°C).

**RECOMMENDED FOR:** Multi-purpose applications including air, water (up to 150°F), mild chemicals and spray solutions at rated working pressures as listed. Suitable for in-line oiler service. Silicone free. Ideal for pneumatic tools, air service to paint equipment, coolant lines, etc. Reference Gates Chemical Resistance Table for proper hose selection.

**TEMPERATURE:** -15°F to +150°F (-26°C to +66°C) continuous service.

**CONSTRUCTION:** **Tube:** Type G1 (Modified PVC). Black.  
**Reinforcement:** Synthetic, high tensile textile cord.  
**Cover:** Type G1 (Modified PVC). Red. All sizes are perforated.

**COUPLINGS:** 19 (up through 1/2" only), 1, 3 or 4, (up through 1/2" with 20 brass ferrules, up through 1" with bands), or 75 Gates GLX®. Reference the Hose Coupling Section.

**PACKAGING:** 1/4" through 5/8": Packaged on 500' reels. Maximum of 2 pieces per reel. 50' increments.  
3/4": Packaged on 600' reels. Maximum of 2 pieces per reel. 50' increments.  
1": Packaged on 400' reels. Maximum of 2 pieces per reel. 50' increments.

**BRANDING:** Continuous ink brand. Example: "GATES® Tufflex® Plus Multi-Purpose 1/2" (12.7mm) 300 PSI (2.07MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Additional colored covers are made to order and require minimum production order quantities of 25,000 feet per size.  
Special production runs require minimum order quantities of 25,000 feet per size.

**REMNANT LENGTHS:** None.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Air and Multi-Purpose Hose**

**319MB Gold Master®**  
(Specification 3619G/3619GL)

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	Ⓢ	Suction	○	Min. Bend Radius	R <sub>2</sub>	Wt. Per Ft.	⚖	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.63	15.9	1000	6.90	30.0	762	3.0	76	.22	.10	Reel	5,000 ft.	3619-0200
3/8	9.5	.77	19.6	1000	6.90	30.0	762	3.0	76	.31	.14	Reel	5,000 ft.	3619-0210
1/2	12.7	.92	23.4	1000	6.90	30.0	762	5.0	127	.42	.19	Reel	5,000 ft.	3619-0220
3/4	19.1	1.21	30.7	1000	6.90	25.0	635	8.0	203	.60	.27	Reel	5,000 ft.	3619-0230
1	25.4	1.46	37.1	1000	6.90	25.0	635	11.0	279	.77	.35	50 ft.	5,000 ft.	3619-0239
1 1/4	31.8	1.69	42.9	1000	6.90	20.0	508	16.0	406	.87	.40	50 ft.	5,000 ft.	3619-0600
1 1/2	38.1	1.94	49.3	1000	6.90	15.0	381	18.0	457	1.06	.48	50 ft.	600 ft.	3619-0620
2	50.8	2.46	62.5	1000	6.90	10.0	254	25.0	635	1.48	.67	50 ft.	600 ft.	3619-0630

**RECOMMENDED FOR:** High-pressure water and oil applications requiring good kink resistance and excellent flexibility. Air service working pressure is 300 psi for all sizes. Also washdown service to 212°F (100°C) in packing plants where a non-marking cover is required. Cover is resistant to weather, oil, animal fat, abrasion and heat encountered in packing plant cleaning applications.

**TEMPERATURE:** -40°F to +212°F (-40°C to +100°C) air service.

**CONSTRUCTION:**  
**Tube:** Type A (Neoprene). Black.  
**Reinforcement:** Braided, high tensile steel wire.  
**Cover:** Type M (Hypalon). Gold (non-marking). All sizes are perforated.

**COUPLINGS:** 72 Gates Power Crimp®, 14, 15, 18 (up to 300 PSI only) 74 Gates MegaCrimp®. Reference the Hose Coupling Section.

**PACKAGING:** 1/4" through 3/4": Packaged in 200' to 300' reels. Maximum of 3 pieces. Minimum length 25'. One length under 100'.  
 1" through 2": Packaged 50' coiled in a carton.

**BRANDING:** Continuous transfer label. Example: "GATES® 319MB GOLD MASTER® MULTI-PURPOSE 3/8 INCH (9.5mm) 1000 PSI (6.90MPa) WP MADE IN U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 5,000 feet for 1/4" through 1 1/4" and 600 feet for 1 1/2" and larger.

**REMNANT LENGTHS:** None.

**STANDARDS:**  
**Tube:** RMA (Class B) Medium oil resistance.  
**Cover:** RMA (Class B) Medium oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Air and Multi-Purpose Hose**

**63SB (Air & Vapor Duct)**  
(Specification 4663A)

Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	⊕	Suction		Min. Bend Radius	R <sub>2</sub>	Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
						(In. Hg)	(mm Hg)			(Lbs.)	(Kg)			
5/8	15.9	.81	20.6	10	.07	5.0	127	1.0	25	.12	.05	10 ft.	X	4663-4000
3/4	19.1	.94	23.9	10	.07	5.0	127	1.0	25	.14	.06	10 ft.	X	4663-4001
7/8	22.2	1.06	26.9	10	.07	5.0	127	1.0	25	.17	.08	10 ft.	X	4663-4002
1	25.4	1.19	30.2	10	.07	5.0	127	1.0	25	.20	.09	10 ft.	X	4663-4003
1 1/4	31.8	1.44	36.6	10	.07	5.0	127	1.0	25	.22	.10	10 ft.	X	4663-4004
1 3/8	34.9	1.52	38.6	10	.07	5.0	127	1.5	38	.24	.11	10 ft.	X	4663-4005
1 1/2	38.1	1.69	42.9	10	.07	5.0	127	1.5	38	.26	.12	10 ft.	X	4663-4006
1 5/8	41.3	1.81	46.0	10	.07	5.0	127	2.0	50	.28	.13	10 ft.	X	4663-4007
1 3/4	44.5	1.94	49.3	10	.07	5.0	127	2.0	51	.30	.14	10 ft.	X	4663-4008
1 7/8	47.6	2.06	52.3	10	.07	5.0	127	2.0	51	.32	.15	10 ft.	X	4663-4009
2	50.8	2.19	55.6	5	.04	3.0	76	2.0	51	.33	.15	10 ft.	X	4663-4010
2 1/8	54.0	2.31	58.7	5	.04	3.0	76	2.5	64	.35	.16	10 ft.	X	4663-4011
2 1/4	57.2	2.44	62.0	5	.04	3.0	76	2.5	64	.37	.17	10 ft.	X	4663-4012
2 3/8	60.3	2.56	65.0	5	.04	3.0	76	2.5	64	.39	.18	10 ft.	X	4663-4013
2 1/2	63.5	2.69	68.3	5	.04	3.0	76	2.5	64	.41	.19	10 ft.	X	4663-4014
2 5/8	66.7	2.81	71.4	5	.04	3.0	76	2.8	71	.43	.20	10 ft.	X	4663-4015
2 3/4	69.9	2.94	74.7	5	.04	3.0	76	2.8	71	.44	.20	10 ft.	X	4663-4016
3	76.2	3.19	81.0	5	.04	3.0	76	3.0	76	.49	.22	10 ft.	X	4663-4017
3 1/2	88.9	3.69	93.7	5	.04	3.0	76	3.5	89	.57	.26	10 ft.	X	4663-4018
3 5/8	92.1	3.81	96.8	5	.04	3.0	76	4.0	102	.59	.27	10 ft.	X	4663-4019
4	101.6	4.19	106.4	5	.04	3.0	76	4.0	102	.80	.36	10 ft.	X	4663-4020
4 1/2	114.3	4.69	119.1	5	.04	3.0	76	5.0	127	.89	.40	10 ft.	X	4663-4021
5	127.0	5.19	131.8	5	.04	3.0	76	6.0	152	.99	.45	10 ft.	X	4663-4022
5 1/2	139.7	5.69	144.5	5	.04	3.0	76	6.0	152	1.08	.49	10 ft.	X	4663-4023

**RECOMMENDED FOR:** Heating and ventilating applications, such as air intake for butane conversion units, air and heater ducts, defroster lines, air cleaner connections to carburetor, exhaust ducts, vent lines for trailer sewers and drains. For standard duty applications.

NOTE: Not recommended for conveying liquids.

**TEMPERATURE:** -30°F to +250°F (-34°C to +121°C) continuous service.

**CONSTRUCTION:** **Tube:** Type A (Neoprene). Black. Oil resistant.  
**Reinforcement:** Single ply of synthetic fabric with two built-in helical wires.  
**Cover:** Type A (Neoprene impregnated fabric). Black.

**PACKAGING:** 10' per carton.

**BRANDING:** Printed patch label every 2 feet with I.D. only.

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of one piece. Lengths can be as short as one foot, but minimum billing is ten feet.

**REMNANT LENGTHS:** None.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**163SB (Air & Vapor Duct -  
Heavy Duty)**  
Air and Multi-Purpose Hose  
(Specification 4663J)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.00	25.4	20	.14	15.0	381	1.0	25	.20	.09	10 ft.	10 ft.	4663-1516
1	25.4	1.25	31.8	20	.14	15.0	381	1.0	25	.26	.12	10 ft.	10 ft.	4663-1518
1 1/4	31.8	1.50	38.1	20	.14	15.0	381	1.0	25	.34	.15	10 ft.	10 ft.	4663-1530
1 3/8	34.9	1.63	41.4	15	.10	15.0	381	1.5	38	.44	.20	10 ft.	10 ft.	4663-3321
1 1/2	38.1	1.75	44.5	15	.10	15.0	381	1.5	38	.48	.22	10 ft.	10 ft.	4663-1540
1 5/8	41.3	1.88	47.8	15	.10	15.0	381	1.8	46	.51	.23	10 ft.	10 ft.	4663-1543
1 3/4	44.5	2.00	50.8	15	.10	15.0	381	1.8	46	.54	.25	10 ft.	10 ft.	4663-3954
1 7/8	47.6	2.13	54.1	15	.10	15.0	381	1.8	46	.58	.26	10 ft.	10 ft.	4663-1548
2	50.8	2.25	57.2	15	.10	15.0	381	2.0	51	.60	.27	10 ft.	10 ft.	4663-1550
2 1/8	54.0	2.40	61.0	10	.07	15.0	381	2.5	64	.74	.34	10 ft.	10 ft.	4663-3461
2 1/4	57.2	2.50	63.5	10	.07	15.0	381	2.5	64	.88	.40	10 ft.	10 ft.	4663-1556
2 3/8	60.3	2.63	66.8	10	.07	15.0	381	2.5	64	.71	.32	10 ft.	10 ft.	4663-1560
2 1/2	63.5	2.75	69.9	10	.07	15.0	381	2.5	64	.74	.34	10 ft.	10 ft.	4663-1565
2 5/8	66.7	2.88	73.2	10	.07	15.0	381	3.0	76	.78	.35	10 ft.	10 ft.	4663-1615
2 3/4	69.9	3.00	76.2	10	.07	15.0	381	7.0	178	.81	.37	10 ft.	10 ft.	4663-3456
3	76.2	3.25	82.6	10	.07	7.0	178	10.0	254	.88	.40	10 ft.	10 ft.	4663-1570
3 1/8	79.4	3.35	85.1	10	.07	7.0	178	10.0	254	.84	.38	10 ft.	10 ft.	4663-1569
3 1/2	88.9	3.75	95.3	10	.07	7.0	178	10.0	254	1.01	.46	10 ft.	10 ft.	4663-1575
4	101.6	4.25	108.0	10	.07	7.0	178	12.0	305	1.15	.52	10 ft.	10 ft.	4663-1580
4 1/2	114.3	4.75	120.7	10	.07	7.0	178	12.0	305	1.25	.57	10 ft.	10 ft.	4663-1589
5	127.0	5.25	133.4	10	.07	6.0	152	12.0	305	1.38	.63	10 ft.	10 ft.	4663-1595
5 1/2	139.9	5.75	146.1	10	.07	6.0	152	12.0	305	1.51	.69	10 ft.	10 ft.	4663-3454
6	152.4	6.25	158.8	8	.06	6.0	152	15.0	381	1.64	.74	10 ft.	10 ft.	4663-1599

**RECOMMENDED FOR:** Heavy-duty heating and ventilating applications, such as air intake for butane conversion units, air and heater ducts, defroster lines, air cleaner connections to carburetor, exhaust ducts, vent lines for trailer sewers and drains.  
NOTE: Not recommended for conveying liquids.

**TEMPERATURE:** -30°F to +250°F (-34°C to +121°C) continuous service.

**CONSTRUCTION:** **Tube:** Type A (Neoprene). Black. Oil and heat resistant.  
**Reinforcement:** Single ply of synthetic fabric with two built-in helical wires.  
**Cover:** Type A (Neoprene). Black. Oil and heat resistant.

**PACKAGING:** 10' per carton.

**BRANDING:** Printed patch label every 2 feet with I.D. only.

**SPECIAL ORDER REQUIREMENTS:** For enlarged or straight ends, contact Gates Corporation for pricing.  
Special production runs require minimum order quantities of one piece. Lengths can be as short as one foot, but minimum billing is ten feet.

**REMNANT LENGTHS:** None.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Air and Multi-Purpose Hose**

**Ohmega® (Pot Room)**  
(Specification 3237A)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/8	9.5	.75	19.1	300	2.07	30.0	762	3.0	76	.19	.09	Reel	X	3237-0704
1/2	12.7	.88	22.4	300	2.07	25.0	635	5.0	127	.24	.11	Reel	X	3237-0705
3/4	19.1	1.16	29.5	300	2.07	20.0	508	6.0	152	.36	.16	Reel	X	3237-0706

NOTE: For additional sizes see Premo Flex®.

**RECOMMENDED FOR:** Medium duty air and water applications where a hose with high electrical resistance is needed.

**TEMPERATURE:** -20°F to +150°F (-29°C to +66°C) continuous service.

**CONSTRUCTION:** **Tube:** Type P (EPDM). Green.  
**Reinforcement:** High tensile synthetic textile cord.  
**Cover:** Type P (EPDM). Red.

**COUPLINGS:** 19 (For sizes 3/16" through 3/8" only), 1, 18 or 75 Gates GLX®. Reference the Hose Coupling Section.

**PACKAGING:** 3/8" through 3/4": Packaged in 500' to 750' reels. Maximum 3 pieces. Minimum length 50'.

**BRANDING:** Continuous ink print label. Example: "GATES® OMEGA® AIR AND WATER 3/8 INCH (9.5mm) 300 PSI (2.07MPa) WP NONCONDUCTIVE @ 1000 V DC (>1 MEGOHM/IN.) MADE IN USA"

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 25,000 feet per size.

**REMNANT LENGTHS:** None.

**STANDARDS:** Nonconductive at 1000 volts D.C. Electrical resistance is greater than one megohm per inch when subjected to 1000 volts D.C. Storage and use may adversely affect electrical properties.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Air and Multi-Purpose Hose**

**33HB (Divers' Air)**  
(Specification 3333)

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	⊕	Suction	⊖	Min. Bend Radius	⊕	Wt. Per Ft.	⊖	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/8	9.5	.75	19.1	1125	7.76	30.0	762	4.0	102	.19	.09	600-699 ft.	X	3333-0015
3/8	9.5	.75	19.1	1125	7.76	30.0	762	4.0	102	.19	.09	1000-Plus ft.	X	3333-0017
1/2	12.7	.94	23.9	1000	6.90	30.0	762	5.0	127	.29	.13	50-299 ft.	X	3333-0038
1/2	12.7	.94	23.9	1000	6.90	30.0	762	5.0	127	.29	.13	1000-Plus ft.	X	3333-0035

**RECOMMENDED FOR:** Handling mixtures of oxygen, helium and nitrogen gases customarily used in diving applications as air breathing hose. The kink resistant hose is designed for extra long wear under normal operating use.

**TEMPERATURE:** -40°F to +120°F (-40°C to +49°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Braided, high tensile synthetic textile cord.  
**Cover:** Type A (Neoprene). Black. All sizes are perforated.

**COUPLINGS:** Corrosion resistant couplings supplied and applied by diving contractors.

**PACKAGING:** 3/8" and 1/2": Packaged 300' and longer lengths. One continuous length on a reel.

**BRANDING:** Continuous ink print label. Example: "GATES® 33HB DIVERS" AIR 3/8 INCH (9.5mm) MADE IN U.S.A.'

**SPECIAL ORDER REQUIREMENTS:** Contact Gates Corporation for special orders. Special production runs require minimum order quantities of 10,000 feet per size. Special production runs for SPECIFIC LENGTHS require minimum order quantities of 10,000 feet per size and a 35% (x 1.35) premium to price.

**REMNANT LENGTHS:** None.

**STANDARDS:** Meets MIL-H-2815G Section 3.12.2 off-gassing for air breathing applications, especially diving.



**33HB Divers' Air Hose Couplings**

**Ferrule**

Size	Description	Gates Item No.	Stock (X) or Minimum Order Qty.
3/8	33HB-6-FRLB	7207-0597	50 ea. (X)



**Stems**

Size	Description	Gates Item No.	Stock (X) or Minimum Order Qty.
3/8	33HB-6-6RFJX-STB	7207-0598	50 ea. (X)
3/8	33HB-6-6ROXY-STB	7207-0599	50 ea. (X)

NOTE: These couplings are to be used with 33HB Divers' Air hose only. 33HB assemblies made with Gates Divers' air couplings are rated at 250 PSI maximum working pressure.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Food and Beverage Hose**

**Food & Beverage Master®**

(Specification 3132C/3132H)

**White Cover (3132C)**

Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	⊕	Suction	⊕	Min. Bend Radius	⊕	Wt. Per Ft.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.22	31.0	250	1.72	30.0	762	2.0	51	.42	.19	100 ft.	X	3132-0222
1	25.4	1.48	37.6	250	1.72	30.0	762	3.0	76	.52	.24	100 ft.	X	3132-0216
1 1/2	38.1	2.07	52.6	250	1.72	30.0	762	4.5	114	.90	.41	100 ft.	X	3132-0217
2	50.8	2.62	66.6	250	1.72	30.0	762	6.0	152	1.19	.54	100 ft.	X	3132-0218
2 1/2	63.5	3.25	82.6	250	1.72	30.0	762	12.0	305	1.81	.82	100 ft.	X	3132-0219
3	76.2	3.86	98.0	250	1.72	30.0	762	18.0	457	2.46	1.12	100 ft.	X	3132-0220
4	101.6	4.88	124.0	250	1.72	30.0	762	36.0	914	3.24	1.47	100 ft.	X	3132-0221

**Gray Cover (3132H)**

Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	⊕	Suction	⊕	Min. Bend Radius	⊕	Wt. Per Ft.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.22	31.0	250	1.72	30.0	762	2.0	51	.42	.19	100 ft.	400 ft.	3132-0263
1	25.4	1.48	37.6	250	1.72	30.0	762	3.0	76	.52	.24	100 ft.	400 ft.	3132-0264
1 1/2	38.1	2.07	52.6	250	1.72	30.0	762	4.5	114	.90	.41	200 ft.	400 ft.	3132-0066
1 1/2	38.1	2.07	52.6	250	1.72	30.0	762	4.5	114	.90	.41	100 ft.	400 ft.	3132-0265
2	50.8	2.62	66.6	250	1.72	30.0	762	6.0	152	1.20	.54	100 ft.	400 ft.	3132-0266
2 1/2	63.5	3.25	82.6	250	1.72	30.0	762	12.0	305	1.81	.82	200 ft.	400 ft.	3132-0067
2 1/2	63.5	3.25	82.6	250	1.72	30.0	762	12.0	305	1.81	.82	100 ft.	400 ft.	3132-0267
3	76.2	3.86	98.0	250	1.72	30.0	762	18.0	457	2.47	1.12	100 ft.	400 ft.	3132-0268
4	101.6	4.88	124.0	250	1.72	30.0	762	36.0	914	3.24	1.47	100 ft.	400 ft.	3132-0269

**RECOMMENDED FOR:** Transfer of milk, juice, soft drinks, pharmaceuticals, cosmetics or water-based products requiring an FDA sanitary hose. Food & Beverage Master is also suitable for many dry bulk products via suction, pneumatic or gravity where a sanitary hose is required.

**TEMPERATURE:** -40°F to +230°F (-40°C to +110°C) continuous service.

**CONSTRUCTION:**  
**Tube:** Type S (Sanitron™). White.  
**Reinforcement:** Synthetic, high tensile textile with static conductive filament; resilient monofilament helix providing crush and kink resistance.  
**Cover:** Type P (EPDM). White or gray with burgundy spiral stripe.

**COUPLINGS:** 1 or stainless steel, 8 or stainless steel, 34, 71. Reference the Hose Coupling Section.

**PACKAGING:** 100' coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Food & Beverage Master® Meets FDA, 3A and USDA 250 PSI WP (1.72MPa) Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity. Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

**STANDARDS:** Meets FDA requirements, 3A-Class 3 and USDA.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Food and Beverage Hose**

**Cellar Master®**  
(Specification 3132C)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.48	37.6	250	1.72	30.0	762	3.0	76	.52	.24	100 ft.	200 ft.	3132-0180
1 1/2	38.1	2.07	52.6	250	1.72	30.0	762	4.5	114	.90	.41	100 ft.	200 ft.	3132-0181
2	50.8	2.62	66.6	250	1.72	30.0	762	6.0	152	1.20	.54	100 ft.	200 ft.	3132-0182
2 1/2	63.5	3.25	82.6	250	1.72	30.0	762	12.0	305	1.81	.82	100 ft.	200 ft.	3132-0186
3	76.2	3.86	98.0	250	1.72	30.0	762	18.0	457	2.46	1.12	100 ft.	200 ft.	3132-0183
4	101.6	4.88	124.0	250	1.72	30.0	762	36.0	914	3.24	1.47	100 ft.	200 ft.	3132-0184

- RECOMMENDED FOR:** Wine or water based products requiring an FDA sanitary hose.
- TEMPERATURE:** -40°F to +230°F (-40°C to +110°C) continuous service.
- CONSTRUCTION:** **Tube:** Type S (Sanitron™). White.  
**Reinforcement:** Synthetic, high tensile textile with resilient monofilament helix providing crush and kink resistance.  
**Cover:** Type P (EPDM). White with burgundy spiral stripe.
- COUPLINGS:** 1 or stainless steel, 8 or stainless steel, 34, 71. Reference the Hose Coupling Section.
- PACKAGING:** 100' length coiled and wrapped in polyethylene.
- BRANDING:** Continuous transfer label. Example: "GATES® Cellar Master® Meets FDA, 3A and USDA 250 PSI (1.72MPa) WP Made In U.S.A."
- SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity.  
Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.
- REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.
- STANDARDS:** Meets FDA requirements, 3A-Class 3 and USDA.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Food and Beverage Hose**

**Cellar Master® Light**  
(Specification 3132LW)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1 1/2	38.1	2.00	50.8	150	1.03	30.0	762	6.0	152	.77	.35	100 ft.	200 ft.	3132-0171
2	50.5	2.50	63.5	150	1.03	30.0	762	12.0	305	.96	.44	100 ft.	X	3132-0172
2 1/2	63.5	3.11	79.0	150	1.03	30.0	762	22.0	559	1.53	.69	100 ft.	200 ft.	3132-0173
3	76.2	3.75	95.3	150	1.03	30.0	762	20.0	508	2.13	.97	100 ft.	200 ft.	3132-0174
4	101.6	4.76	120.9	150	1.03	30.0	762	28.0	711	2.82	1.28	100 ft.	200 ft.	3132-0175

\*Working Pressure and Suction at +72°F (+22°C). Suction rating reduced at elevated temperatures.

**RECOMMENDED FOR:** Wine or water based products requiring an FDA sanitary hose.

**TEMPERATURE:** -40°F to +212°F (-40°C to +100°C) continuous service.

**CONSTRUCTION:** **Tube:** Type S (Sanitron™). White.  
**Reinforcement:** Synthetic, high tensile textile with resilient monofilament helix providing crush and kink resistance.  
**Cover:** Type P (EPDM). Gray with maroon spiral stripe.

**COUPLINGS:** 1 or stainless steel, 8 or stainless steel, 34, 71. Reference the Hose Coupling Section.

**PACKAGING:** 100' length coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Cellar Master® Light Meets FDA, 3A and USDA 150 PSI (1.03MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

**STANDARDS:** Meets FDA requirements, 3A-Class 3 and USDA.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Food and Beverage Hose**

**Food Master® Lite™**  
(Specification 3133)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.33	33.8	150	1.03	30.0	762	2.0	51	.65	.30	100 ft.	X	3133-0001
1	25.4	1.58	40.1	150	1.03	30.0	762	3.0	76	.79	.36	100 ft.	X	3133-0002
1 1/2	38.1	2.10	53.3	150	1.03	30.0	762	4.5	114	1.14	.52	100 ft.	X	3133-0003
2	50.8	2.60	66.0	150	1.03	30.0	762	6.0	152	1.50	.68	100 ft.	X	3133-0004
2 1/2	63.5	3.13	79.5	150	1.03	30.0	762	12.0	305	1.98	.90	100 ft.	X	3133-0005
3	76.2	3.63	92.2	150	1.03	30.0	762	18.0	457	2.35	1.07	100 ft.	X	3133-0006
4	101.6	4.65	118.1	150	1.03	30.0	762	24.0	610	3.12	1.42	100 ft.	X	3133-0007
6	152.4	6.74	171.2	150	1.03	30.0	762	36.0	914	5.60	2.54	50 ft.	X	3133-0008

**RECOMMENDED FOR:** Tank truck, barge, ship, or storage tank transfer of a variety of food products such as animal fat, vegetable oil and other edible oils at temperatures up to 230°F requiring FDA sanitary hose. Also suitable for ice cream and other dairy products requiring 3A-Class 3 standards.

**TEMPERATURE:** -40°F to +230°F (-40°C to +110°C) continuous service.

**CONSTRUCTION:**  
**Tube:** Type C2 (Modified Nitrile). Sanitary FDA and 3A-Class 3. White.  
**Reinforcement:** Synthetic, high tensile textile with steel wire helix.  
**Cover:** Type C2 (Modified Nitrile). White corrugated with burgundy spiral stripe.

**COUPLINGS:** 1 or stainless steel, 8 or stainless steel, 34, 71. Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Food Master® Lite™ Meets FDA, 3A and USDA 150 PSI (1.03MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for sizes through 4" and 200 feet for sizes above 4". If a special transfer label is required, contact Gates Corporation for minimum quantity. Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

**STANDARDS:** Tube meets FDA requirements, 3A-Class 3 and USDA.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Food and Beverage Hose**

**Sani-Pure™**  
(Specification 3131)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1 1/2	38.1	2.07	52.6	150	1.03	—	—	18.0	457	.97	.44	100 ft.	200 ft.	3131-0001
2	50.8	2.57	65.3	150	1.03	—	—	24.0	610	1.25	.57	100 ft.	X	3131-0002
2 1/2	63.5	3.08	78.2	150	1.03	—	—	30.0	762	1.65	.75	100 ft.	200 ft.	3131-0003
3	76.2	3.58	90.9	150	1.03	—	—	36.0	914	1.90	.86	100 ft.	200 ft.	3131-0004
4	101.6	4.61	117.1	150	1.03	—	—	48.0	1219	2.77	1.26	100 ft.	200 ft.	3131-0005
6	152.4	6.64	168.7	150	1.03	—	—	72.0	1829	4.10	1.86	50 ft.	200 ft.	3131-0006

**RECOMMENDED FOR:** Tank truck, barge, ship, or storage tank transfer (discharge only) of a variety of food products such as animal fat, vegetable oil and other edible oils at temperatures up to 230°F requiring FDA sanitary hose. Also suitable for ice cream and other dairy products requiring 3A-Class 3 standards.

**TEMPERATURE:** -40°F to +230°F (-40°C to +110°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C2 (Modified Nitrile). Sanitary FDA and 3A-Class 3. White.  
**Reinforcement:** Synthetic, high tensile textile.  
**Cover:** Type C2 (Modified Nitrile). White with burgundy spiral stripe.

**COUPLINGS:** 1 or stainless steel, 8 or stainless steel, 34, 71. Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Sani-Pure™ Meets FDA, 3A and USDA 150 PSI (1.03MPa) WP Made in U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Gray cover is made to order and requires minimum production order quantities of 400 feet for sizes through 4" and 200 feet for sizes above 4". For price, add 10% (x1.10) to price.

Special production runs require minimum order quantities of 400 feet for sizes through 4" and 200 feet for sizes above 4". If a special transfer label is required, contact Gates Corporation for minimum quantity.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

**STANDARDS:** Tube meets FDA requirements, 3A-Class 3 and USDA.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Food and Beverage Hose**

**Aquarius® Potable Water**  
(Specification 3132P)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.53	38.9	300	2.07	15.0	381	10.0	254	.61	.28	200 ft.	400 ft.	3132-0803
2	51.0	2.70	68.6	300	2.07	10.0	254	14.0	356	1.46	.66	200 ft.	400 ft.	3132-0815
3	76.0	3.70	94.0	200	1.38	10.0	254	21.0	533	2.15	.95	200 ft.	400 ft.	3132-0823
4	102.0	4.70	119.0	150	1.03	10.0	254	28.0	711	2.70	1.23	200 ft.	400 ft.	3132-0832

**RECOMMENDED FOR:** Transfer of potable water, non-potable water or liquids not containing oils or chemicals from a supply ship to an offshore drilling rig or platform and for transfer applications on offshore or onshore drilling rigs or platforms; applications which require a lightweight, flexible hose with a tight bend radius and a high rated working pressure in long continuous lengths.

**TEMPERATURE:** -40°F to +150°F (-40°C to +66°C) continuous service.

**CONSTRUCTION:**  
**Tube:** Type D2 (food Grade Natural Rubber). White.  
**Reinforcement:** Multiple plies of synthetic cord.  
**Cover:** Type P (EPDM). Tan with green spiral stripe. Abrasion and weather resistant.

**COUPLINGS:** 14, 15, 71 or 8. Reference the Hose Coupling Section.

**PACKAGING:** 200' length coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Aquarius® Potable Water meets FDA stds. 200 PSI (1.38MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity.

**REMNANT LENGTHS:** None.

**STANDARDS:** Tube meets FDA requirements.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Food and Beverage Hose**

**690SB (Bulk Commodity)**  
(Specification 4693B)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1 1/2	38.1	2.23	56.6	150	1.03	30.0	762	10.0	254	1.41	.64	100 ft.	X	4693-0205
2	50.8	2.75	69.9	150	1.03	30.0	762	12.0	305	1.88	.85	100 ft.	X	4693-0210
2 1/2	63.5	3.23	82.0	125	.86	30.0	762	15.0	381	2.25	1.02	100 ft.	X	4693-0220
3	76.2	3.75	95.3	100	.69	30.0	762	18.0	457	2.73	1.24	100 ft.	X	4693-0225
4	101.6	4.71	119.6	75	.52	30.0	762	24.0	610	3.51	1.59	100 ft.	X	4693-0235
5	127.0	5.75	146.0	55	.38	30.0	762	30.0	762	4.30	1.95	50 ft.	X	4693-0251
6	152.4	6.91	175.5	50	.34	30.0	762	36.0	914	7.08	3.21	50 ft.	X	4693-0260

**RECOMMENDED FOR:** Transfer of bulk food products via suction, pneumatic or gravity systems where FDA sanitary tube is required. Examples: Flour, sugar, syrup and edible grains. (Not recommended for vinegar, mustard or other compounds containing acetic acid.)

**TEMPERATURE:** -40°F to +150°F (-40°C to +66°C) continuous service.

**CONSTRUCTION:** **Tube:** Type D2 (Natural Rubber). Sanitary FDA. White. 3/16" thick.

**Reinforcement:** Synthetic, high tensile textile with steel wire helix.

**Cover:** Type D3 (Natural Rubber). Gray corrugated with burgundy spiral stripe.

**COUPLINGS:** \*Can be used only at 50% of rated working pressure. Reference the Hose Coupling Section. 5\*, 6\*, 7\*, 8, 49, or 71. Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® 690SB Food-Beverage Transfer Meets FDA 100 PSI. (.69MPa) 3/16 Inch Tube Made in U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for sizes through 4" and 200 feet for sizes above 4".

Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

**STANDARDS:** Tube meets FDA requirements.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Food and Beverage Hose**

**692SB (Bulk Commodity)**  
(Specification 4693R)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1 1/2	38.1	2.07	52.6	150	1.03	30.0	762	9.0	229	1.13	.51	100 ft.	400 ft.	4693-0105
2	50.8	2.60	66.0	150	1.03	30.0	762	12.0	305	1.46	.66	100 ft.	X	4693-0110
2 1/2	63.5	2.85	72.4	125	.86	30.0	762	15.0	381	1.77	.80	100 ft.	400 ft.	4693-0116
3	76.2	3.52	89.4	125	.86	30.0	762	18.0	457	2.20	1.00	100 ft.	X	4693-0125
4	101.6	4.55	115.6	75	.52	30.0	762	24.0	610	2.96	1.34	100 ft.	X	4693-0135
6	152.4	6.74	171.2	50	.34	25.0	635	36.0	914	5.61	2.54	50 ft.	200 ft.	4693-0160

**RECOMMENDED FOR:** Animal fat, vegetable oil and other edible oils at temperatures up to 180°F requiring FDA sanitary hose. Also for soybeans, vinegar, mustard, cider, salad dressings and other acetic acid applications.

**TEMPERATURE:** -40°F to +180°F (-40°C to +82°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Sanitary FDA. White. 1/8" thick.  
**Reinforcement:** Synthetic, high tensile textile with steel wire helix.  
**Cover:** Type P (EPDM). Tan corrugated with burgundy spiral stripe.

**COUPLINGS:** \*Can be used only at 50% of rated working pressure. Reference the Hose Coupling Section. 5\*, 6\*, 7\*, 8, 49, or 71. Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® 692SB Edible Fats-Oils Transfer Meets FDA 125 PSI (.86MPa) Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for sizes through 4" and 200 feet for sizes above 4".

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

**STANDARDS:** Tube meets FDA requirements, 3A Standards and USDA.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Food and Beverage Hose**

**610W (Bulk Commodity)**

(Specification 3132D)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
4	101.6	4.56	115.8	40	.28	—	—	48.0	1219	2.22	1.01	100 ft.	X	3132-0782
5	127.0	5.56	141.2	30	.21	—	—	60.0	1524	2.73	1.24	100 ft.	X	3132-0793
6	152.4	6.56	166.6	25	.17	—	—	72.0	1829	3.25	1.47	100 ft.	X	3132-0797

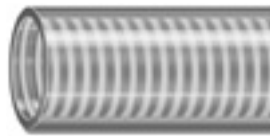
- RECOMMENDED FOR:** Pneumatic transfer of flour and other dry foods requiring hose with a sanitary FDA tube.
- TEMPERATURE:** -40°F to +150°F (-40°C to +66°C) continuous service.
- CONSTRUCTION:**
  - Tube:** Type D2 (Natural Rubber). Sanitary FDA. White. 3/16" thick.
  - Reinforcement:** Synthetic, high tensile textile with static conductor.
  - Cover:** Type D3 (Natural Rubber). Gray with burgundy spiral stripe.
- COUPLINGS:** 5, 7, 49 or 71. Reference the Hose Coupling Section.
- PACKAGING:** 100' length coiled and wrapped in polyethylene.
- BRANDING:** Continuous transfer label. Example: "GATES® 610W Dry Food Transfer Meets FDA 40 PSI (.28MPa) WP Made In U.S.A."
- SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for sizes through 4" and 200 feet for sizes above 4". If a special transfer label is required, contact Gates Corporation for minimum quantity. Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.
- REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.
- STANDARDS:** Tube meets FDA requirements.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Food and Beverage Hose**

**Master-Flex® 200CL**  
(Specification 7744)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.29	32.8	100	.69	28.0	711	3.0	76	.30	.14	100 ft.	X	7744-4101
1 1/4	31.8	1.56	39.6	90	.62	28.0	711	4.0	102	.38	.17	100 ft.	X	7744-4102
1 1/2	38.1	1.84	46.7	90	.62	28.0	711	5.0	127	.48	.22	100 ft.	X	7744-4103
2	50.8	2.39	60.7	70	.48	28.0	711	6.0	152	.71	.32	100 ft.	X	7744-4104
2 1/2	63.5	2.92	74.2	65	.45	28.0	711	8.0	203	.97	.44	100 ft.	X	7744-4105
3	76.2	3.46	87.9	60	.41	28.0	711	9.0	229	1.27	.58	100 ft.	X	7744-4106
4	101.6	4.56	115.8	50	.34	28.0	711	12.0	305	2.01	.91	100 ft.	X	7744-4107

\*Working Pressure and Suction at +72°F (+22°C).

**RECOMMENDED FOR:** Transfer of bulk food products via suction, pneumatic or gravity systems where sanitary hose is required.

**TEMPERATURE:** -10°F to +130°F (-23°C to +55°C) continuous service.

**CONSTRUCTION:** **Tube:** Type G (PVC). Sanitary FDA. Clear. Smooth.  
**Reinforcement:** Rigid thermoplastic reinforcement. Clear.  
**Cover:** Type G (PVC). Sanitary FDA. Clear. Smooth.

**COUPLINGS:** 1, 6, 7 or 49. Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

**BRANDING:** Unlabeled.

**SPECIAL ORDER REQUIREMENTS:** None.

**REMNANT LENGTHS:** None.

**STANDARDS:** Meets FDA requirements, 3A Standards and USDA.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Food and Beverage Hose**

**Master-Flex® 201CR**  
(Specification 7744)

Nom. I.D. (In.)	⊖ (mm)	Nom. O.D. (In.)	⊖ (mm)	Max. W.P. (psi)	⌚ (MPa)	Suction		Min. Bend Radius (In.)	⤵ (mm)	Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
						(In. Hg)	(mm Hg)			(Lbs.)	(Kg)			
1	25.4	1.26	32.0	40	.28	28.0	711	2.0	51	.14	.06	100 ft.	X	7744-4301
1 1/4	31.8	1.61	40.9	50	.34	28.0	711	3.0	76	.31	.14	100 ft.	X	7744-4302
1 1/2	38.1	1.82	46.2	50	.34	28.0	711	3.0	76	.37	.17	100 ft.	X	7744-4303
2	50.8	2.44	62.0	40	.28	28.0	711	4.0	102	.57	.26	100 ft.	X	7744-4304
2 1/2	63.5	2.98	75.7	40	.28	28.0	711	5.0	127	.77	.35	100 ft.	X	7744-4305
3	76.2	3.54	89.9	35	.24	28.0	711	6.0	152	1.04	.47	100 ft.	X	7744-4306
4	101.6	4.65	118.1	35	.24	28.0	711	8.0	203	1.65	.75	100 ft.	X	7744-4307

\*Working Pressure and Suction at +72°F (+22°C).

**RECOMMENDED FOR:** Transfer of bulk food products via suction, pneumatic or gravity systems where sanitary hose is required.

**TEMPERATURE:** -10°F to +130°F (-23°C to +55°C) continuous service.

**CONSTRUCTION:** **Tube:** Type G (PVC). Sanitary FDA. Clear. Smooth.  
**Reinforcement:** Rigid thermoplastic helix. Clear.  
**Cover:** Type G (PVC). Sanitary FDA. Clear. Corrugated.

**COUPLINGS:** 1, 6, 7 or 49. Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

**BRANDING:** Unlabeled.

**SPECIAL ORDER REQUIREMENTS:** None.

**REMNANT LENGTHS:** None.

**STANDARDS:** Meets FDA requirements and USDA.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Food and Beverage Hose**

**Master-Flex® 202SW**  
(Specification 7744)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
2	50.8	2.37	60.2	40	.28	28.0	711	4.0	102	.58	.26	100 ft.	X	7744-4420
2 1/2	63.5	3.01	76.5	40	.28	28.0	711	4.0	102	.79	.36	100 ft.	X	7744-4425
3	76.2	3.05	77.5	35	.24	28.0	711	6.0	152	1.06	.48	100 ft.	X	7744-4430
4	101.6	4.54	115.3	35	.24	28.0	711	8.0	203	1.68	.76	100 ft.	X	7744-4440

\*Working Pressure and Suction at +72°F (+22°C).

**RECOMMENDED FOR:** Transfer of bulk food products via suction, pneumatic or gravity systems where sanitary hose is required. Used in pneumatic conveying systems for powders, pellets or granular materials where a static conductive hose is needed.

**TEMPERATURE:** -10°F to +130°F (-23°C to +55°C) continuous service.

**CONSTRUCTION:** **Tube:** Type G (PVC). Sanitary FDA. Clear. Smooth.  
**Reinforcement:** Rigid thermoplastic helix. Clear. Embedded static wire to prevent a build up of static electricity.  
**Cover:** Type G (PVC). Sanitary FDA. Clear. Corrugated.

**COUPLINGS:** 1, 6, 7 or 49. Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

**BRANDING:** Unlabeled.

**SPECIAL ORDER REQUIREMENTS:** None.

**REMNANT LENGTHS:** None.

**STANDARDS:** Meets FDA requirements and USDA.

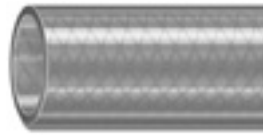
Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Food and Beverage Hose**

**Tufflex® Food**  
(Specification 7744)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.47	11.9	250	1.72	—	—	—	—	.07	.03	300 ft.	X	7744-4501
3/8	9.5	.63	16.0	200	1.38	—	—	—	—	.11	.05	300 ft.	X	7744-4502
1/2	12.7	.75	19.1	200	1.38	—	—	—	—	.13	.06	300 ft.	X	7744-4503
5/8	15.9	.88	22.4	200	1.38	—	—	—	—	.15	.07	300 ft.	X	7744-4504
3/4	19.1	1.03	26.2	150	1.03	—	—	—	—	.20	.09	300 ft.	X	7744-4505
1	25.4	1.31	33.3	125	.86	—	—	—	—	.32	.15	100 ft.	X	7744-4506
1 1/4	31.8	1.75	44.5	100	.69	—	—	—	—	.63	.29	100 ft.	1,000 ft.	7744-4507
1 1/2	38.1	2.00	50.8	75	.52	—	—	—	—	.74	.34	100 ft.	1,000 ft.	7744-4508
2	50.8	2.50	63.5	75	.52	—	—	—	—	.95	.43	100 ft.	1,000 ft.	7744-4509

\*Working Pressure and Suction at +72°F (+22°C).

**RECOMMENDED FOR:** Transferring compressed liquid and air in food and beverage applications. Approved for use in USDA meat and poultry plants. Non-toxic, FDA formula approved for food processing. Also suitable for potable water transfer.

**TEMPERATURE:** -10°F to +130°F (-23°C to +55°C) continuous service.

**CONSTRUCTION:** **Tube:** Type G (PVC). Non-toxic. Clear.  
**Reinforcement:** Synthetic reinforcement.  
**Cover:** Type G (PVC). Non-toxic. Clear. Smooth.

**COUPLINGS:** Stainless Steel Food Grade.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

**BRANDING:** "Made In Japan"

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 1,000 feet per size. No deviations allowed to above product.

**REMNANT LENGTHS:** None.

**STANDARDS:** Meets FDA requirements and USDA.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Marine Hose**

**75W (Standard Wall Coolant)**  
(Specification 4175EC)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.17	29.7	80	.55	5.0	127	6.0	152	.37	.17	50 ft.	X	4175-0855
7/8	22.2	1.25	31.8	75	.52	7.0	178	7.0	178	.39	.18	50 ft.	X	4175-0856
1	25.4	1.38	35.1	140	.97	7.0	178	8.0	203	.42	.19	50 ft.	X	4175-0857
1 1/8	28.6	1.50	38.1	125	.86	6.0	152	8.0	203	.47	.21	50 ft.	X	4175-0859
1 1/4	31.8	1.63	41.4	100	.69	5.0	127	12.0	305	.51	.23	50 ft.	X	4175-0861
1 3/8	34.9	1.75	44.5	100	.69	4.0	102	12.0	305	.55	.25	50 ft.	400 ft.	4175-0863
1 1/2	38.1	1.88	47.8	100	.69	3.0	76	12.0	305	.51	.23	50 ft.	X	4175-0865
1 5/8	41.3	2.00	50.8	90	.62	2.0	51	15.0	381	.63	.29	50 ft.	X	4175-0867
1 3/4	44.5	2.13	54.1	75	.52	1.0	25	15.0	381	.67	.30	50 ft.	X	4175-0869
1 7/8	47.6	2.25	57.2	75	.52	—	—	—	—	.72	.33	50 ft.	X	4175-0871
2	50.8	2.39	60.7	60	.41	—	—	—	—	.76	.35	50 ft.	X	4175-0872
2 1/8	54.0	2.51	63.8	60	.41	—	—	—	—	.79	.36	50 ft.	400 ft.	4175-0873
2 1/4	57.2	2.64	67.1	60	.41	—	—	—	—	.84	.38	50 ft.	X	4175-0874
2 3/8	60.3	2.76	70.1	60	.41	—	—	—	—	.88	.40	50 ft.	X	4175-0875
2 1/2	63.5	2.89	73.4	60	.41	—	—	—	—	.92	.42	50 ft.	X	4175-0876
2 5/8	66.7	3.02	76.7	60	.41	—	—	—	—	.96	.44	50 ft.	400 ft.	4175-0877
2 3/4	69.9	3.14	79.8	60	.41	—	—	—	—	1.00	.45	50 ft.	X	4175-0878
2 7/8	73.0	3.26	82.8	60	.41	—	—	—	—	1.04	.47	50 ft.	400 ft.	4175-0879
3	76.2	3.39	86.1	50	.34	—	—	—	—	1.10	.50	50 ft.	X	4175-0880
3 1/2	88.9	3.89	98.8	20	.14	—	—	—	—	1.26	.57	50 ft.	X	4175-0883
4	101.6	4.39	111.5	12	.08	—	—	—	—	1.43	.65	50 ft.	X	4175-0886
4 1/2	114.3	4.89	124.2	12	.08	—	—	—	—	1.60	.73	50 ft.	X	4175-0889

**RECOMMENDED FOR:** Open end water discharge applications and coolant connections on marine and stationary engines.

**TEMPERATURE:** -40°F to +257°F (-40°C to +125°C) continuous service.

**CONSTRUCTION:** **Tube:** Type P (EPDM). Black.  
**Reinforcement:** Multiple plies of synthetic fabric.  
**Cover:** Type P (EPDM). Black with white spiral stripe. Heat and ozone resistant.

**COUPLINGS:** 5, 6 or 7. Reference the Hose Coupling Section.

**PACKAGING:** 50' length coiled and wrapped in polyethylene.  
50' carton: 7/8" through 1" sizes only.

**BRANDING:** Continuous transfer label. Example: "GATES® 75W 2 1/2 60 PSI WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for sizes through 4" and 200 feet for sizes above 4". If a special transfer label is required, contact Gates Corporation for minimum quantity.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

**STANDARDS:** Meets SAE 20R1, Class D-2, tube and cover, standard wall.  
**Cover:** RMA (Class C) Limited oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Marine Hose**

**76W (Heavy Wall Coolant)**  
(Specification 4176HD)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
7/8	22.2	1.38	35.1	175	1.21	15.0	381	7.0	178	.58	.26	50 ft.	X	4176-0856
1	25.4	1.50	38.1	175	1.21	10.0	254	8.0	203	.59	.27	50 ft.	X	4176-0857
1 1/8	28.6	1.63	41.4	175	1.21	10.0	254	8.0	203	.64	.29	50 ft.	X	4176-0859
1 1/4	31.8	1.74	44.5	125	.86	10.0	254	12.0	305	.70	.32	50 ft.	X	4176-0861
1 3/8	34.9	1.88	47.8	110	.76	10.0	254	12.0	305	.76	.35	50 ft.	X	4176-0863
1 1/2	38.1	2.00	50.8	112	.77	10.0	254	12.0	305	.81	.37	50 ft.	X	4176-0865
1 5/8	41.3	2.13	54.1	106	.73	7.0	178	14.0	356	.87	.40	50 ft.	X	4176-0867
1 3/4	44.5	2.25	57.2	100	.69	5.0	127	15.0	381	.93	.42	50 ft.	X	4176-0869
1 7/8	47.6	2.38	60.5	94	.65	4.0	102	—	—	.98	.45	50 ft.	400 ft.	4176-0871
2	50.8	2.50	63.5	88	.61	3.0	76	—	—	1.04	.47	50 ft.	X	4176-0872
2 1/4	57.2	2.74	69.9	88	.61	1.0	25	—	—	1.15	.52	50 ft.	X	4176-0874
2 3/8	60.3	2.88	73.2	81	.56	—	—	—	—	1.21	.55	50 ft.	400 ft.	4176-0875
2 1/2	63.5	3.00	76.2	75	.52	—	—	—	—	1.27	.58	50 ft.	X	4176-0876
2 5/8	66.7	3.13	79.5	69	.48	—	—	—	—	1.32	.60	50 ft.	400 ft.	4176-0877
2 3/4	69.9	3.25	82.6	63	.43	—	—	—	—	1.37	.62	50 ft.	X	4176-0878
2 7/8	73.0	3.38	85.9	63	.43	—	—	—	—	1.43	.65	50 ft.	400 ft.	4176-0879
3	76.2	3.50	88.9	63	.43	—	—	—	—	1.49	.68	50 ft.	X	4176-0880
3 1/2	88.9	4.00	101.6	50	.34	—	—	—	—	1.71	.78	50 ft.	X	4176-0883
4	101.6	4.50	114.3	38	.26	—	—	—	—	1.95	.89	50 ft.	X	4176-0886

**RECOMMENDED FOR:** Water discharge at higher pressures than are possible with 75W and for heavy duty use on coolant connections on marine and stationary engines.

**TEMPERATURE:** -40°F to +257°F (-40°C to +125°C) continuous service.

**CONSTRUCTION:** **Tube:** Type P (EPDM). Black.  
**Reinforcement:** Multiple plies of synthetic fabric.  
**Cover:** Type P (EPDM). Black. Heat and ozone resistant.

**COUPLINGS:** 1, 5, 6 or 7. Reference the Hose Coupling Section.

**PACKAGING:** 50' length coiled and wrapped in polyethylene.  
50' carton: 7/8" size only.

**BRANDING:** Continuous transfer label. Example: "GATES® 76W 2 1/2 75 PSI WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

**STANDARDS:** Meets SAE 20R1, Class D-2, tube and cover, heavy wall.  
**Cover:** RMA (Class C) Limited oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Marine Hose**

**Engine Coolant (Oil Resistant -  
Softwall)**

(Specification 4169A)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.17	29.7	150	1.03	—	—	6.0	152	.34	.15	3 ft.	X	4169-0210
7/8	22.2	1.30	33.0	150	1.03	—	—	7.0	178	.38	.17	3 ft.	X	4169-0220
1	25.4	1.42	36.1	135	.93	—	—	8.0	203	.43	.20	3 ft.	X	4169-0224
1 1/8	28.6	1.55	39.4	135	.93	—	—	8.0	203	.48	.22	3 ft.	X	4169-0240
1 1/4	31.8	1.67	42.4	135	.93	—	—	10.0	254	.51	.23	3 ft.	X	4169-0246
1 3/8	34.9	1.80	45.7	100	.69	—	—	12.0	305	.56	.25	3 ft.	X	4169-0260
1 1/2	38.1	1.92	48.8	100	.69	—	—	12.0	305	.60	.27	3 ft.	X	4169-0270
1 5/8	41.3	2.05	52.1	85	.59	—	—	15.0	381	.63	.29	3 ft.	X	4169-0280
1 3/4	44.5	2.17	55.1	75	.52	—	—	15.0	381	.68	.31	3 ft.	X	4169-0288
1 7/8	47.6	2.30	58.4	75	.52	—	—	—	—	.73	.33	3 ft.	X	4169-0300
2	50.8	2.42	61.5	60	.41	—	—	—	—	.77	.35	3 ft.	X	4169-0484
2 1/8	54.0	2.55	64.8	60	.41	—	—	—	—	.82	.37	3 ft.	X	4169-0320
2 1/4	57.2	2.67	67.8	60	.41	—	—	—	—	.85	.39	3 ft.	X	4169-0491
2 3/8	60.3	2.80	71.1	60	.41	—	—	—	—	.89	.40	3 ft.	X	4169-0340
2 1/2	63.5	2.92	74.2	60	.41	—	—	—	—	.94	.43	3 ft.	X	4169-0345
2 5/8	66.7	3.05	77.5	60	.41	—	—	—	—	.98	.45	3 ft.	200 ft.	4169-0360
2 3/4	69.9	3.17	80.5	60	.41	—	—	—	—	1.03	.47	3 ft.	X	4169-0362
2 7/8	73.0	3.30	83.8	55	.38	—	—	—	—	1.07	.49	3 ft.	200 ft.	4169-0376
3	76.2	3.42	86.9	50	.34	—	—	—	—	1.10	.50	3 ft.	X	4169-0383
3 1/4	82.6	3.67	93.2	35	.24	—	—	—	—	1.19	.54	3 ft.	200 ft.	4169-0402
3 1/2	88.9	3.92	99.6	10	.07	—	—	—	—	1.28	.58	3 ft.	X	4169-0420
4	101.6	4.42	112.3	10	.07	—	—	—	—	1.46	.66	3 ft.	X	4169-0425
4 1/2	114.3	4.92	125.0	10	.07	—	—	—	—	1.62	.73	3 ft.	200 ft.	4169-0433

**RECOMMENDED FOR:** Open end water discharge applications and coolant connections on marine and stationary engines where oil resistance is required.

**TEMPERATURE:** -40°F to +212°F (-40°C to +100°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black. Oil and heat resistant.  
**Reinforcement:** Two plies of synthetic fabric.  
**Cover:** Type A (Neoprene). Black.

**COUPLINGS:** 1, 5, 6 or 7. Reference the Hose Coupling Section.

**PACKAGING:** 3' per carton.

**BRANDING:** Continuous transfer label. Example: "GATES® 4169A 3/4 150 PSI WP MADE IN USA"

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 200 feet.

**REMNANT LENGTHS:** None.

**STANDARDS:** Meets requirements of SAE 20R1, Class B Tube, Class C Cover.  
**Tube:** RMA (Class B) Medium oil resistance.  
**Cover:** RMA (Class C) Limited oil resistance.





**Marine Hose**

**Engine Coolant (Wire Inserted  
- Hardwall)**  
(Specification 4685WG)

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	⊖	Suction	⊖	Min. Bend Radius	⊖	Wt. Per Ea.	⊖	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.46	37.1	100	.69	25.0	635	2.0	51	2.50	1.13	5 ft.	X	4685-2016
1 1/8	28.6	1.58	40.1	100	.69	25.0	635	2.5	64	2.75	1.25	5 ft.	X	4685-2018
1 1/4	31.8	1.71	43.4	100	.69	25.0	635	2.5	64	3.00	1.36	5 ft.	X	4685-2020
1 3/8	34.9	1.83	46.5	85	.59	25.0	635	3.0	76	3.25	1.47	5 ft.	X	4685-2022
1 1/2	38.1	1.96	49.8	85	.59	20.0	508	3.5	89	3.50	1.59	5 ft.	X	4685-2024
1 5/8	41.3	2.08	52.8	75	.52	20.0	508	3.5	89	3.75	1.70	5 ft.	X	4685-2026
1 3/4	44.5	2.21	56.1	75	.52	20.0	508	4.0	102	4.00	1.81	5 ft.	X	4685-2028
1 7/8	47.6	2.33	59.2	60	.41	20.0	508	4.5	114	4.25	1.93	5 ft.	X	4685-2030
2	50.8	2.46	62.5	60	.41	20.0	508	5.0	127	4.75	2.16	5 ft.	X	4685-2032
2 1/8	54.0	2.58	65.5	55	.38	20.0	508	5.5	140	5.05	2.29	5 ft.	X	4685-2034
2 1/4	57.2	2.71	68.8	55	.38	20.0	508	6.0	152	5.30	2.40	5 ft.	X	4685-2036
2 3/8	60.3	2.83	71.9	50	.34	20.0	508	6.5	165	5.55	2.52	5 ft.	X	4685-2038
2 1/2	63.5	2.96	75.2	50	.34	20.0	508	6.5	165	5.80	2.63	5 ft.	X	4685-2040
2 5/8	66.7	3.08	78.2	40	.28	15.0	381	7.0	178	6.05	2.74	5 ft.	X	4685-2042
2 3/4	69.9	3.21	81.5	40	.28	15.0	381	7.5	191	6.30	2.86	5 ft.	X	4685-2044
2 7/8	73.0	3.33	84.6	40	.28	15.0	381	9.0	229	6.60	2.99	5 ft.	X	4685-2046
3	76.2	3.43	87.1	40	.28	15.0	381	9.0	229	6.85	3.11	5 ft.	X	4685-2048
3 1/2	88.9	3.93	99.8	35	.24	15.0	381	12.0	305	7.90	3.58	5 ft.	X	4685-2056
4	101.6	4.43	112.5	30	.21	10.0	254	20.0	508	8.95	4.06	5 ft.	X	4685-2064
5	127.0	5.43	137.9	15	.10	5.0	127	24.0	610	13.45	6.10	5 ft.	X	4685-2080
6	152.4	6.43	163.3	15	.10	5.0	127	—	—	16.00	7.26	5 ft.	X	4685-2096

**RECOMMENDED FOR:** Open end water discharge applications and coolant on marine and stationary engines where tight bends or suction capability are required.

**TEMPERATURE:** -40°F to +257°F (-40°C to +125°C) continuous service.

**CONSTRUCTION:** **Tube:** Type P (EPDM). Black.  
**Reinforcement:** Multiple plies of synthetic fabric and two built-in helical steel wires.  
**Cover:** Type P (EPDM). Black with green spiral stripe.

**COUPLINGS:** 1, 5, 6 or 7. Reference the Hose Coupling Section.

**PACKAGING:** 5' per carton.

**BRANDING:** Continuous transfer label. Example: "GATES® 24916 GREEN STRIPE® WIGS COOLANT & AIR 1" I.D. (25.4mm) MADE IN USA"

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 200 feet.

**REMNANT LENGTHS:** None.

**STANDARDS:** Meets requirements of SAE 20R2 (20R5 Burst).  
**Tube:** Meets D-1, D-2 and D-3 (except D-2 oil swell).  
**Cover:** Meets D-1, D-2 and D-3.





**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Marine Hose**

**Engine Coolant (Silicone)**  
(Specification 4171)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/8	9.5	.74	18.8	110	.76	—	—	—	—	.19	.09	10 ft.	X	4171-0195
1/2	12.7	.87	22.1	110	.76	—	—	—	—	.23	.10	10 ft.	X	4171-0197
5/8	15.9	.99	25.2	110	.76	—	—	—	—	.27	.12	10 ft.	X	4171-0204
3/4	19.1	1.12	28.5	110	.76	—	—	—	—	.31	.14	10 ft.	X	4171-0206
7/8	22.2	1.24	31.5	110	.76	—	—	—	—	.35	.16	10 ft.	X	4171-0210
1	25.4	1.37	34.8	90	.62	—	—	—	—	.40	.18	10 ft.	X	4171-0213
1 1/8	28.6	1.50	38.1	90	.62	—	—	—	—	.44	.20	10 ft.	X	4171-0217
1 1/4	31.8	1.63	41.4	85	.59	—	—	—	—	.48	.22	10 ft.	X	4171-0265
1 3/8	34.9	1.75	44.5	85	.59	—	—	—	—	.52	.24	10 ft.	X	4171-0260
1 1/2	38.1	1.88	47.8	85	.59	—	—	—	—	.57	.26	10 ft.	X	4171-0270
1 5/8	41.3	2.00	50.8	80	.55	—	—	—	—	.61	.28	10 ft.	X	4171-0275
1 3/4	44.5	2.13	54.1	80	.55	—	—	—	—	.65	.29	10 ft.	X	4171-0280
2	50.8	2.38	60.5	75	.52	—	—	—	—	.73	.33	10 ft.	X	4171-0285
2 1/8	54.0	2.51	63.8	75	.52	—	—	—	—	.77	.35	10 ft.	X	4171-0224
2 1/4	57.2	2.63	66.8	75	.52	—	—	—	—	.81	.37	10 ft.	X	4171-0223
2 3/8	60.3	2.75	69.9	65	.45	—	—	—	—	.85	.39	10 ft.	X	4171-0229
2 1/2	63.5	2.88	73.2	65	.45	—	—	—	—	.89	.40	10 ft.	X	4171-0234
2 3/4	69.9	3.13	79.5	50	.34	—	—	—	—	.97	.44	10 ft.	X	4171-0238
3	76.2	3.38	85.9	50	.34	—	—	—	—	1.05	.48	10 ft.	X	4171-0246
3 1/4	82.6	3.63	92.2	40	.28	—	—	—	—	1.14	.52	10 ft.	X	4171-0249
3 1/2	88.9	3.88	98.6	35	.24	—	—	—	—	1.23	.56	10 ft.	X	4171-0241
3 3/4	95.3	4.13	104.9	35	.24	—	—	—	—	1.32	.60	10 ft.	200 ft.	4171-0835
4	101.6	4.38	111.3	35	.24	—	—	—	—	1.40	.64	10 ft.	X	4171-0290
4 1/2	114.3	4.88	124.0	25	.17	—	—	—	—	1.56	.71	10 ft.	X	4171-0295

**RECOMMENDED FOR:** Open end water discharge and coolant connections on marine and stationary engines where extremely high and low temperature resistance is required.

**TEMPERATURE:** -65°F to +347°F (-54°C to +175°C) continuous service.

**CONSTRUCTION:** **Tube:** Type MQ (Silicone). Orange.  
**Reinforcement:** Multiple plies of synthetic fabric.  
**Cover:** Type MQ (Silicone). Green.

**COUPLINGS:** 1, 5, 6 or 7. Reference the Hose Coupling Section.

**PACKAGING:** 10' per carton.

**BRANDING:** Unlabeled.

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 200 feet.

**REMNANT LENGTHS:** None.

**STANDARDS:** Meets requirements of SAE 20R1, Class A standard wall.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Marine Hose**

**Heater Hose**  
(Specification 4230T)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
5/16	7.9	.62	15.8	75	.52	25.0	635	2.0	51	.14	.06	Reel	X	4230-0193
3/8	9.5	.69	17.5	75	.52	25.0	635	2.5	64	.16	.07	Carton	X	4230-0129
1/2	12.7	.81	20.6	75	.52	25.0	635	3.0	76	.19	.09	Reel	X	4230-0060
5/8	15.9	.94	23.9	75	.52	25.0	635	4.0	102	.23	.10	Reel	X	4230-0135
3/4	19.1	1.06	26.9	75	.52	25.0	635	5.0	127	.26	.12	Carton	X	4230-0134
1	25.4	1.34	34.0	75	.52	25.0	635	7.0	178	.37	.17	Carton	X	4230-0150

- RECOMMENDED FOR:** Standard heater lines and small diameter coolant connections.
- TEMPERATURE:** -40°F to +257°F (-40°C to +125°C) continuous service.
- CONSTRUCTION:**
  - Tube:** Type P (EPDM). Black.
  - Reinforcement:** Synthetic, high tensile textile cord.
  - Cover:** Type P (EPDM). Black.
- COUPLINGS:** 1, 5, 6 or 7. Reference the Hose Coupling Section.
- PACKAGING:**
  - 5/16": Packaged in 600' to 800' reels. Maximum 4 pieces. Minimum length 25'.
  - 3/8": Packaged 500' per carton. Maximum 2 pieces. Minimum length 25'.
  - 1/2": Packaged in 600' to 800' reels. Maximum 4 pieces. Minimum length 25'.
  - 5/8": Packaged 300' per reel. Maximum 2 pieces. Minimum length 25'.
  - 3/4": Packaged 200' per carton. Maximum 2 pieces. Minimum length 25'.
  - 1": Packaged 600' per carton. Maximum 2 pieces. Minimum length 25'.
- BRANDING:** Continuous ink brand. Example: "GATES® EB 4230T 1 INCH (25.4mm) MADE IN U.S.A."
- SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 25,000 feet.
- REMNANT LENGTHS:** None.
- STANDARDS:** Meets requirements of SAE 20R3 Class D-2 (except durometer and compression set).

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Marine Hose**

**Wet Exhaust (Softwall)**  
(Specification 3137ME)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ea.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1 1/8	28.6	1.40	35.6	100	.69	—	—	—	—	5.59	2.54	12 1/2 ft.	X	3137-1207
1 1/4	31.8	1.53	38.9	100	.69	—	—	—	—	6.07	2.75	12 1/2 ft.	X	3137-1209
1 3/4	34.9	1.69	42.9	100	.69	—	—	—	—	6.58	2.98	12 1/2 ft.	X	3137-1213
1 1/2	38.1	1.78	45.2	100	.69	—	—	—	—	7.12	3.23	12 1/2 ft.	X	3137-1215
1 5/8	41.3	1.91	48.5	100	.69	—	—	—	—	7.63	3.46	12 1/2 ft.	X	3137-1217
1 3/4	44.5	2.03	51.6	100	.69	—	—	—	—	8.15	3.70	12 1/2 ft.	X	3137-1219
1 7/8	47.6	2.19	55.6	100	.69	—	—	—	—	8.63	3.91	12 1/2 ft.	X	3137-1221
2	50.8	2.32	58.9	100	.69	—	—	—	—	9.18	4.16	12 1/2 ft.	X	3137-1223
2 1/8	54.0	2.45	62.2	100	.69	—	—	—	—	9.69	4.40	12 1/2 ft.	X	3137-1225
2 1/4	57.2	2.57	65.3	100	.69	—	—	—	—	10.19	4.58	12 1/2 ft.	X	3137-1227
2 3/8	60.3	2.69	68.3	100	.69	—	—	—	—	10.70	4.85	12 1/2 ft.	X	3137-1229
2 1/2	63.5	2.82	71.6	100	.69	—	—	—	—	11.24	5.10	12 1/2 ft.	X	3137-1231
2 5/8	66.7	2.95	74.9	100	.69	—	—	—	—	11.79	5.35	12 1/2 ft.	X	3137-1233
2 3/4	69.9	3.09	78.5	100	.69	—	—	—	—	12.29	5.58	12 1/2 ft.	X	3137-1235
2 7/8	73.0	3.23	82.0	100	.69	—	—	—	—	12.80	5.81	12 1/2 ft.	X	3137-1237
3	76.2	3.36	85.3	100	.69	—	—	—	—	14.45	6.55	12 1/2 ft.	X	3137-1239
3 1/2	88.9	3.86	98.0	100	.69	—	—	—	—	16.63	7.54	12 1/2 ft.	X	3137-1245
4	101.6	4.36	110.7	100	.69	—	—	—	—	18.57	8.42	12 1/2 ft.	X	3137-1249
4 1/2	114.3	4.86	123.4	100	.69	—	—	—	—	21.14	9.59	12 1/2 ft.	X	3137-1252
5	127.0	5.37	136.4	100	.69	—	—	—	—	23.35	10.59	12 1/2 ft.	X	3137-1253
6	152.4	6.38	162.1	100	.69	—	—	—	—	27.14	12.58	12 1/2 ft.	X	3137-1254

**RECOMMENDED FOR:** Heavy-duty fabric reinforced. Designed for use where wire support is not required. Meets marine water and wet exhaust hose requirements. May be used for engine water circulation, discharge lines, heat exchangers and straight wet exhaust connections. For water applications hose is rated at 100 PSI.

**TEMPERATURE:** -40°F to +257°F (-40°C to +125°C) continuous service.

**CONSTRUCTION:** **Tube:** Type P (EPDM). Black.  
**Reinforcement:** Two plies of synthetic fabric.  
**Cover:** Type P (EPDM). Black with blue spiral stripe.

**PACKAGING:** All lengths packaged in poly wrap.

**BRANDING:** Continuous transfer label. Example: "GATES® MARINE WET EXHAUST SOFTWALL 100 PSI WP MADE IN U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 200 feet.

**REMNANT LENGTHS:** None.

**STANDARDS:** Meets requirements of SAE J2006 R1.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Marine Hose**

**Wet Exhaust (Hardwall)**  
(Specification 4686ME)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ea.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1 1/8	28.6	1.50	38.1	100	.69	25.0	635	2.5	64	7.40	3.36	12 1/2 ft.	X	4686-0602
1 1/4	31.8	1.63	41.4	100	.69	25.0	635	2.5	64	8.03	3.64	12 1/2 ft.	X	4686-0604
1 3/4	34.9	1.75	44.5	100	.69	25.0	635	3.0	76	8.66	3.93	12 1/2 ft.	X	4686-0606
1 1/2	38.1	1.88	47.8	100	.69	20.0	508	3.5	89	9.31	4.22	12 1/2 ft.	X	4686-0608
1 5/8	41.3	2.00	50.8	100	.69	20.0	508	3.5	89	9.81	4.45	12 1/2 ft.	X	4686-0610
1 3/4	44.5	2.12	53.9	100	.69	20.0	508	4.0	102	10.57	4.79	12 1/2 ft.	X	4686-0612
1 7/8	47.6	2.24	56.9	100	.69	20.0	508	4.5	114	11.23	5.09	12 1/2 ft.	X	4686-0614
2	50.8	2.36	59.9	100	.69	20.0	508	5.0	127	11.90	5.40	12 1/2 ft.	X	4686-0616
2 1/8	54.0	2.49	63.3	100	.69	20.0	508	5.5	140	12.56	5.70	12 1/2 ft.	X	4686-0618
2 1/4	57.2	2.63	66.8	100	.69	20.0	508	6.0	152	13.20	5.99	12 1/2 ft.	X	4686-0620
2 3/8	60.3	2.75	69.9	100	.69	20.0	508	6.5	165	14.62	6.63	12 1/2 ft.	X	4686-0622
2 1/2	63.5	2.90	73.7	100	.69	20.0	508	6.5	165	15.33	6.95	12 1/2 ft.	X	4686-0624
2 5/8	66.7	3.02	76.7	100	.69	15.0	381	7.0	178	16.00	7.26	12 1/2 ft.	X	4686-0626
2 3/4	69.9	3.22	81.8	100	.69	15.0	381	7.5	191	16.69	7.57	12 1/2 ft.	X	4686-0628
2 7/8	73.0	3.42	86.9	100	.69	15.0	381	8.0	203	17.35	7.87	12 1/2 ft.	X	4686-0630
3	76.2	3.54	89.9	100	.69	15.0	381	9.0	229	19.41	8.80	12 1/2 ft.	X	4686-0632
3 1/2	88.9	4.04	102.6	100	.69	15.0	381	12.0	305	22.31	10.12	12 1/2 ft.	X	4686-0638
4	101.6	4.54	115.3	100	.69	10.0	254	20.0	508	27.60	12.52	12 1/2 ft.	X	4686-0640
4 1/2	114.3	5.04	128.0	100	.69	10.0	254	22.0	559	30.89	14.01	12 1/2 ft.	X	4686-0642
5	127.0	5.54	140.7	100	.69	5.0	127	24.0	610	34.04	15.44	12 1/2 ft.	X	4686-0643
5 1/2	139.7	6.04	153.4	100	.69	5.0	127	—	—	39.29	17.82	12 1/2 ft.	X	4686-0645
6	152.4	6.68	169.7	100	.69	5.0	127	—	—	40.37	18.31	12 1/2 ft.	X	4686-0646

**RECOMMENDED FOR:** Heavy-duty fabric-reinforced hose with a helical steel wire reinforcement to meet marine water and wet exhaust hose requirements. May be used for engine water circulation, discharge lines, heat exchangers and wet exhaust connections. For water applications hose is rated at 100 PSI.

**TEMPERATURE:** -40°F to +257°F (-40°C to +125°C) continuous service.

**CONSTRUCTION:** **Tube:** Type P (EPDM). Black.  
**Reinforcement:** Two plies of synthetic fabric and two built-in helical steel wires.  
**Cover:** Type P (EPDM). Black with blue spiral stripe.

**PACKAGING:** All lengths packaged in poly wrap.

**BRANDING:** Continuous transfer label. Example: "GATES® MARINE WET EXHAUST HARDWALL 100 PSI WP SAE J2006R2 MADE IN U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 200 feet.

**REMNANT LENGTHS:** None.

**STANDARDS:** Meets requirements of SAE J2006 R2.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Marine Hose**

**4684CF (Wet Exhaust -  
Corrugated)**  
(Specification 4684CF)

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	⊖	Suction	⊖	Min. Bend Radius	R <sub>90</sub>	Wt. Per Ft.	⊖	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.44	36.6	100	.69	25.0	635	3.0	76	.51	.23	10 ft.	X	4684-1540
1 1/8	28.6	1.56	39.6	100	.69	25.0	635	4.0	102	.56	.25	10 ft.	X	4684-1545
1 1/4	31.8	1.69	42.9	100	.69	25.0	635	4.0	102	.61	.28	10 ft.	X	4684-1551
1 3/8	34.9	1.81	46.0	85	.59	25.0	635	4.0	102	.66	.30	10 ft.	X	4684-1556
1 1/2	38.1	1.94	49.3	85	.59	25.0	635	4.0	102	.70	.32	10 ft.	X	4684-1561
1 5/8	41.3	2.06	52.3	75	.52	20.0	508	5.0	127	.75	.34	10 ft.	X	4684-1601
1 3/4	44.5	2.19	55.6	75	.52	20.0	508	5.0	127	.80	.36	10 ft.	X	4684-1611
1 7/8	47.6	2.31	58.7	60	.41	20.0	508	5.0	127	.83	.38	10 ft.	X	4684-1651
2	50.8	2.44	62.0	60	.41	20.0	508	5.0	127	.88	.40	10 ft.	X	4684-1660
2 1/8	54.0	2.56	65.0	55	.38	20.0	508	6.0	152	.93	.42	10 ft.	X	4684-1670
2 1/4	57.2	2.69	68.3	55	.38	20.0	508	6.0	152	.98	.45	10 ft.	X	4684-1680
2 3/8	60.3	2.81	71.4	50	.34	20.0	508	7.0	178	1.03	.47	10 ft.	X	4684-1690
2 1/2	63.5	2.94	74.7	50	.34	20.0	508	7.0	178	1.08	.49	10 ft.	X	4684-1700
2 5/8	66.7	3.06	77.7	40	.28	15.0	381	9.0	229	1.12	.51	10 ft.	X	4684-1711
2 3/4	69.9	3.19	81.0	40	.28	15.0	381	10.0	254	1.17	.53	10 ft.	X	4684-1720
2 7/8	73.0	3.31	84.1	40	.28	15.0	381	11.0	279	1.21	.55	10 ft.	X	4684-1730
3	76.2	3.44	87.4	40	.28	15.0	381	12.0	305	1.26	.57	10 ft.	X	4684-1740
3 1/2	88.9	4.06	103.1	35	.24	15.0	381	17.0	432	1.45	.66	10 ft.	X	4684-1750
4	101.6	4.44	112.8	30	.21	10.0	254	24.0	610	1.64	.74	10 ft.	X	4684-1760
4 1/2	114.3	4.94	125.5	25	.17	5.0	127	27.0	914	1.84	.84	10 ft.	200 ft.	4684-1764
5	127.0	5.44	138.2	15	.10	5.0	127	30.0	1016	2.03	.92	10 ft.	200 ft.	4684-1766
6	152.4	6.46	164.1	15	.10	5.0	127	36.0	—	2.42	1.10	10 ft.	200 ft.	4684-1722

**RECOMMENDED FOR:** Marine wet exhaust and general purpose applications. Suitable for coolant lines where tight bends are required.

**TEMPERATURE:** -40°F to +212°F (-40°C to +100°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black. Oil and heat resistant.  
**Reinforcement:** Synthetic fabric with built-in wire.  
**Cover:** Type A (Neoprene). Black with red spiral stripe. Oil and heat resistant.

**PACKAGING:** 1", 1 1/4", 1 3/8", 1 1/2", 1 5/8", 1 7/8": Packaged 5 each 10' coils in a carton.  
3 1/2" through 6": Packaged in straight lengths in woven fiber.  
All other sizes: Packaged 10' per carton.

**BRANDING:** Continuous transfer label every 10 ft. Example: "GATES® 4684CF Engine Coolant-Marine Wet Exhaust 2 Inch Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** For enlarged or straight ends, contact Gates Corporation for pricing.  
Special production runs require minimum order quantities of 200 feet per size. Lengths can be as short as one foot, but minimum billing is for ten feet.

**REMNANT LENGTHS:** None.

**STANDARDS:** Meets requirements of SAE 20R2, SAE 20R5, SAE J2006.  
**Tube:** RMA (Class B) Medium oil resistance.  
**Cover:** RMA (Class C) Limited oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Marine Hose**

**C5M Fuel Line**  
(Specification 3658F)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.58	14.7	500	3.45	20.0	508	1.3	33	.22	.10	Reel	X	3658-1965
5/16	7.9	.67	17.0	500	3.45	20.0	508	1.3	33	.26	.12	Reel	X	3658-1969
13/32	10.3	.77	19.6	500	3.45	20.0	508	1.8	46	.29	.13	Reel	X	3658-1973
1/2	12.7	.92	23.4	500	3.45	20.0	508	2.3	58	.40	.18	Reel	X	3658-1977
5/8	15.9	1.08	27.4	500	3.45	20.0	508	2.8	71	.51	.23	Reel	X	3658-1981
7/8	22.2	1.23	31.2	500	3.45	20.0	508	3.5	89	.51	.23	Reel	X	3658-1985

- RECOMMENDED FOR:** All commercial and recreational vessel fuel line applications. Suitable for marine diesel, gasoline, gasohol fuels and hot oil applications.
- TEMPERATURE:** -4°F to +212°F (-20°C to +100°C) continuous service.
- CONSTRUCTION:**  
**Tube:** Type C (Nitrile). Black. Oil and heat resistant.  
**Reinforcement:** Braided, high tensile steel wire.  
**Cover:** Type C2 (Modified Nitrile). Blue.
- COUPLINGS:** 72 Gates Power Crimp®. For Stainless Steel PC and Brass Reusable couplings reference Gates Hydraulic catalog #35093.
- PACKAGING:**  
 1/4" and 5/16": Packaged in 385' reels. Maximum 4 pieces. Minimum length 10'.  
 13/32": Packaged in 330' reels. Maximum 3 pieces. Minimum length 10'.  
 1/2": Packaged in 275' reels. Maximum 3 pieces. Minimum length 10'.  
 5/8": Packaged in 220' reels. Maximum 3 pieces. Minimum length 10'.  
 7/8": Packaged in 165' reels. Maximum 3 pieces. Minimum length 10'.
- BRANDING:** Continuous transfer label. Example: "GATES® 8 C5M SAEJ1527 USCG TYPE A1 ISO 7840-A1 HOSE 500 PSI (3.45MPa) FLAME RESISTANT USMSHA 2G-IC-11C/18"
- SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 5,000 feet.
- REMNANT LENGTHS:** None.
- STANDARDS:** Hose is NMMA type accepted.  
 Meets requirements of SAE J1942 and SAE J1527, USCG Type A, Class 1, Style R3, SAE J30R2, MSHA and ABS.  
**Tube:** RMA (Class A) High oil resistance.  
**Cover:** RMA (Class C) Limited oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



Marine Hose

Fuel Line (USCG Type A1)  
(Specification 4219M)

25 Foot Lengths

Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	⊕	Suction	⊕	Min. Bend Radius	⊕	Wt. Per Ea.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.64	16.3	40	.28	28.0	711	2.5	64	4.73	1.94	25 ft.	X	4219-4145
5/16	7.9	.70	17.8	40	.28	28.0	711	3.0	76	5.08	2.20	25 ft.	X	4219-4565
3/8	9.5	.77	19.6	40	.28	28.0	711	3.0	76	6.10	2.50	25 ft.	X	4219-4385
1/2	12.7	.89	22.6	40	.28	28.0	711	5.0	127	7.37	3.03	25 ft.	X	4219-4125
5/8	15.9	1.01	25.7	40	.28	28.0	711	6.0	152	8.61	3.53	25 ft.	X	4219-4585

50 Foot Lengths

Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	⊕	Suction	⊕	Min. Bend Radius	⊕	Wt. Per Ea.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.64	16.3	40	.28	28.0	711	2.5	64	8.56	3.88	50 ft.	X	4219-4146
5/16	7.9	.70	17.8	40	.28	28.0	711	3.0	76	10.15	4.41	50 ft.	X	4219-4566
3/8	9.5	.77	19.6	40	.28	28.0	711	3.0	76	11.04	5.01	50 ft.	X	4219-4567
1/2	12.7	.89	22.6	40	.28	28.0	711	5.0	127	13.33	6.05	50 ft.	X	4219-4126
5/8	15.9	1.01	25.7	40	.28	28.0	711	6.0	152	15.57	7.06	50 ft.	X	4219-4586

Reel Lengths

Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	⊕	Suction	⊕	Min. Bend Radius	⊕	Wt. Per Ea.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.64	16.3	40	.28	28.0	711	2.5	64	45.36	19.41	250 ft.	X	4219-4140
5/16	7.9	.70	17.8	40	.28	28.0	711	3.0	76	53.57	22.04	250 ft.	X	4219-4560
3/8	9.5	.77	19.6	40	.28	28.0	711	3.0	76	60.99	25.03	250 ft.	X	4219-4380
1/2	12.7	.89	22.6	40	.28	28.0	711	5.0	127	66.65	30.23	250 ft.	X	4219-4120
5/8	15.9	1.01	25.7	40	.28	28.0	711	6.0	152	86.10	35.30	250 ft.	X	4219-4580

**RECOMMENDED FOR:** Flexible connections between rigid fuel distribution lines and engine. Excellent for vent lines and emission control systems. Suitable for marine diesel and gasohol blends of ethanol, methanol and ethers up to 10%.

**TEMPERATURE:** -40°F to +212°F (-40°C to +100°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black. Oil and heat resistant.  
**Reinforcement:** Braided, high tensile synthetic cord.  
**Cover:** Type A (Neoprene). Black.

**PACKAGING:** 1/4" through 5/8": Packaged 25' per carton.  
1/4" through 5/8": Packaged 50' per carton.  
1/4" through 5/8": Packaged in 250'. Maximum of 3 pieces. Minimum length 15'.

**BRANDING:** Continuous ink brand. Example: "GATES® 4219M FUEL LINE USCG TYPE A1 SAE J1527 NMMA TYPE ACCEPTED MADE IN U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 5,000 feet. Maximum length is 10 feet.

**REMNANT LENGTHS:** None.

**STANDARDS:** Hose is NMMA type accepted.  
Meets requirements of SAE J1527, USCG Type A1, Class 1, Style R1.  
**Tube:** RMA (Class A) High oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Marine Hose**

**Fuel Line (USCG Type B)**  
(Specification 4219N)

**50 Foot Lengths**

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	Ⓢ	Suction	○	Min. Bend Radius	Ⓢ	Wt. Per Ea.	Ⓢ	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.50	12.7	40	.28	28.0	711	2.5	64	4.48	2.03	50 ft.	25,000 ft.	4219-4046
5/16	7.9	.58	14.7	40	.28	28.0	711	3.0	76	5.59	2.54	50 ft.	25,000 ft.	4219-4066

**250 Foot Reels**

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	Ⓢ	Suction	○	Min. Bend Radius	Ⓢ	Wt. Per Ea.	Ⓢ	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.50	12.7	40	.28	28.0	711	2.5	64	22.40	10.16	250 ft.	X	4219-4040
5/16	7.9	.58	14.7	40	.28	28.0	711	3.0	76	27.95	12.68	250 ft.	X	4219-4060

**RECOMMENDED FOR:** Flexible connections between rigid fuel distribution lines and engine where the hose is in an open environment on pleasure craft. Excellent for vent lines. Suitable for marine diesel and gasohol blends of ethanol, methanol and ethers up to 10%.

NOTE: Not recommended for concealed applications. Not approved for use on commercial or for-hire craft.

**TEMPERATURE:** -40°F to +250°F (-40°C to +121°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Synthetic, high tensile textile cord.  
**Cover:** Type M (Hypalon). Black.

**PACKAGING:** 1/4" and 5/16": 50' per carton.  
1/4": Packaged in 250' reels. Maximum of 2 pieces. Minimum length 15'.  
5/16": Packaged in 250' single piece reels.

**BRANDING:** Continuous ink brand. Example: "GATES® 4219N 1/2 INCH MARINE FUEL LINE USCG TYPE B1 SAE J1527 NMMA TYPE ACCEPTED MADE IN U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 25,000 feet.

**REMNANT LENGTHS:** None.

**STANDARDS:** Hose is NMMA type accepted.  
Meets requirements of SAE J1527, USCG Type B, Class 1, Style R1.  
**Tube:** RMA (Class A) High oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Marine Hose**

**4219G (Fuel Line & Tank Vent)**  
(Specification 4219G)

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	Ⓢ	Suction	○	Min. Bend Radius	R <sub>2</sub>	Wt. Per Ft.	⚖	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/16	4.8	.41	10.4	50	.34	24.0	610	3.0	76	.07	.03	Reel	X	4219-0093
1/4	6.4	.50	12.7	50	.34	24.0	610	3.0	76	.09	.04	Reel	X	4219-0103
5/16	7.9	.56	14.2	50	.34	24.0	610	3.0	76	.10	.05	Reel	X	4219-0107
3/8	9.5	.62	15.8	50	.34	24.0	610	4.0	102	.12	.05	Reel	X	4219-0109
1/2	12.7	.78	19.8	35	.24	10.0	254	5.0	127	.16	.07	Reel	X	4219-0102
5/8	15.9	.94	23.9	35	.24	10.0	254	6.0	152	.23	.10	Reel	X	4219-0097

**RECOMMENDED FOR:** Fuel line applications to provide flexible connections between rigid fuel distribution lines and the engine. Also for use in evaporative emission control systems and as a vent line.  
**NOTE:** Not recommended for fuel injection systems.

**TEMPERATURE:** -40°F to +257°F (-40°C to +125°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black. Oil, gasoline and gasohol resistant.  
**Reinforcement:** Synthetic, high tensile textile.  
**Cover:** Type C2 (NBR/PVC). Black. Fuel, oil, ozone and high temperature resistant.

**PACKAGING:** 3/16" through 5/8": Packaged in 450' to 650' reels. Maximum 5 pieces. One piece 25' to 49'. All other pieces 49' and over.

**BRANDING:** Continuous ink label. Example: "GATES® 4219G Fuel Line PCV/EEC 3/8 Inch (9.5mm) SAE 30R7 Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 25,000 feet.

**REMNANT LENGTHS:** None.

**STANDARDS:** Exceeds requirements of SAE 30R6 & SAE 30R7.  
Hose is NMMA type accepted.  
**Tube:** RMA (Class A) High oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



# Fuel Fill (USCG Type A1 and B1)

## Marine Hose

(Specification 4689M)

### 12 1/2 Foot Lengths

Nom. I.D. (In.)		Nom. O.D. (In.)		Max. W.P. (psi)		Suction (In. Hg)		Min. Bend Radius (In.)		Wt. Per Ea. (Lbs.)		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
1 1/2	38.1	1.90	48.3	18	.12	20.0	508	7.0	178	9.44	4.28	12 1/2 ft.	200 ft.	4689-5000
1 5/8	41.3	2.03	51.6	18	.12	20.0	508	8.0	203	10.06	4.56	12 1/2 ft.	200 ft.	4689-5001
1 7/8	47.6	2.28	57.9	18	.12	20.0	508	9.0	229	11.34	5.14	12 1/2 ft.	200 ft.	4689-5002
2	50.8	2.40	61.0	18	.12	20.0	508	9.5	241	12.03	5.46	12 1/2 ft.	200 ft.	4689-5003
2 3/8	60.3	2.78	70.6	18	.12	20.0	508	10.0	254	14.02	6.36	12 1/2 ft.	200 ft.	4689-5004

### 50 Foot Lengths

Nom. I.D. (In.)		Nom. O.D. (In.)		Max. W.P. (psi)		Suction (In. Hg)		Min. Bend Radius (In.)		Wt. Per Ea. (Lbs.)		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
1	25.4	1.40	35.6	35	.24	20.0	508	4.0	102	27.01	12.25	50 ft.	X	4689-5005
1 1/2	38.1	1.90	48.3	18	.12	20.0	508	7.0	178	37.74	17.12	50 ft.	X	4689-5012
1 5/8	41.3	2.03	51.6	18	.12	20.0	508	8.0	203	40.25	18.26	50 ft.	X	4689-5007
1 7/8	47.6	2.28	57.9	18	.12	20.0	508	9.0	229	45.37	20.58	50 ft.	X	4689-5008
2	50.8	2.40	61.0	18	.12	20.0	508	9.5	241	48.13	21.83	50 ft.	X	4689-5009
2 3/8	60.3	2.78	70.6	18	.12	20.0	508	10.0	254	56.08	25.44	50 ft.	X	4689-5010

**RECOMMENDED FOR:** Designed to transfer fuel from the filler neck to the fuel tank. This top-quality hose is flame and fire resistant and its low permeation rate exceeds USCG standards. Suitable for marine diesel fuel, gasoline and gasohol blends of ethanol, methanol and ethers up to 15%.

**TEMPERATURE:** -40°F to +212°F (-40°C to +100°C) continuous service.

**CONSTRUCTION:**  
**Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Synthetic, high tensile textile cord with steel wire helix.  
**Cover:** Type A (Neoprene). Black with red spiral stripe.

**PACKAGING:** 12 1/2' and 50' lengths: Packaged one length per carton.

**BRANDING:** Continuous transfer label. Example: "GATES® MARINE FUEL FILL MEETS USCG & J1527 TYPE A1 MADE IN U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 200 feet.

**REMNANT LENGTHS:** None.

**STANDARDS:** Hose is NMMA type accepted.  
 Meets requirements of SAE J1527, USCG Type A1 and B1.  
**Tube:** RMA (Class A) High oil resistance.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Marine Hose**

**4663K (Fuel Fill - Corrugated)**

(Specification 4663K)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1 3/8	34.9	1.63	41.4	20	.14	30.0	762	5.0	127	.38	.17	10 ft.	X	4663-2828
1 1/2	38.1	1.77	45.0	20	.14	30.0	762	5.0	127	.41	.19	10 ft.	X	4663-2830
1 5/8	41.3	1.90	48.3	20	.14	30.0	762	5.5	140	.44	.20	10 ft.	200 ft.	4663-3624
1 3/4	44.5	2.02	51.3	20	.14	30.0	762	6.0	152	.47	.21	10 ft.	200 ft.	4663-3976
1 7/8	47.6	2.14	54.4	20	.14	30.0	762	6.0	152	.50	.23	10 ft.	200 ft.	4663-2933
2	50.8	2.25	57.2	20	.14	30.0	762	7.0	178	.53	.24	10 ft.	X	4663-2930
2 1/4	57.2	2.50	63.5	20	.14	30.0	762	8.0	203	.54	.25	10 ft.	X	4663-2932
2 1/2	63.5	2.75	69.9	20	.14	30.0	762	12.0	305	.65	.30	10 ft.	200 ft.	4663-2929
3	76.2	3.27	83.1	20	.14	30.0	762	—	—	.84	.38	10 ft.	200 ft.	4663-3625

**RECOMMENDED FOR:** Fuel tank filler applications to provide a flexible connector between fuel tank and fill pipe. Suitable for fill applications on automobiles, trucks, buses and other similar applications where exceptionally flexible hose is required.

**TEMPERATURE:** -40°F to +212°F (-40°C to +100°C) continuous service.

**CONSTRUCTION:**  
**Tube:** Type C (Nitrile). Black. Oil and heat resistant.  
**Reinforcement:** Single ply of synthetic fabric and two built-in helical steel wires.  
**Cover:** Type A (Neoprene). Black with white spiral stripe. Fabric reinforcement coated with Neoprene.

**PACKAGING:** 10' per carton.

**BRANDING:** Continuous transfer label. Example: "GATES® 4663K Fuel Fill Hose Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 200 feet. Maximum length is 10 feet.

**REMNANT LENGTHS:** None.

**STANDARDS:** Hose is NMMA type accepted.  
 Meets requirements of SAE 30R5.  
**Tube:** RMA (Class B) Medium oil resistance.  
**Cover:** RMA (Class C) Limited oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Marine Hose**

**Vacuum Tubing**  
(Specification 4040A)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ea.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
7/64	2.8	1/8	3.2	—	—	30.0	762	1.5	38	1.00	.45	50 ft.	X	4040-4101
5/32	4.0	3/16	4.8	—	—	30.0	762	1.5	38	1.50	.68	50 ft.	X	4040-4104
7/32	5.6	1/4	6.4	—	—	30.0	762	2.0	51	2.50	1.13	50 ft.	X	4040-4107
1/4	6.4	5/16	7.9	—	—	30.0	762	2.0	51	3.00	1.36	50 ft.	X	4040-4110
5/16	7.9	3/8	9.5	—	—	30.0	762	2.5	64	1.75	.79	25 ft.	X	4040-4112
3/8	9.5	7/16	11.1	—	—	30.0	762	3.0	76	2.50	1.13	25 ft.	X	4040-4113

**RECOMMENDED FOR:** Ideal for windshield washers and vacuum-operated accessories.

**TEMPERATURE:** -40°F to +257°F (-40°C to +125°C) continuous service.

**CONSTRUCTION:** **Tube:** Type P (EPDM). Black. Heat resistant.

**PACKAGING:** 7/64" through 3/8": Packaged 50' per reel.  
5/16" and 3/8": Packaged 25' per reel.

**BRANDING:** None.

**SPECIAL ORDER REQUIREMENTS:** None.

**REMNANT LENGTHS:** None.

**STANDARDS:** Tested to SAE J1037.



Material Handling Hose

**609W (Dry Cement Delivery)**  
(Specification 3129F, 3129H, 3129L)

**1/8" Tube Thickness (3129L)**

Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	⚡	Suction	⊖	Min. Bend Radius	R <sub>90</sub>	Wt. Per Ft.	⚖	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3	76.2	3.47	88.1	40	.28	—	—	36.0	914	1.30	.59	100 ft.	X	3129-0660
4	101.6	4.47	113.5	40	.28	—	—	48.0	1219	1.69	.77	100 ft.	X	3129-0670
4 1/2	114.3	4.97	126.2	35	.24	—	—	54.0	1372	1.89	.86	100 ft.	X	3129-0675
5	127.0	5.47	138.9	30	.21	—	—	60.0	1524	2.09	.95	100 ft.	X	3129-0680
6	152.4	6.47	164.3	25	.17	—	—	72.0	1829	2.48	1.13	100 ft.	X	3129-0690
6 5/8	168.3	7.10	180.3	20	.14	—	—	72.0	1829	2.73	1.24	100 ft.	200 ft.	3129-0700

**3/16" Tube Thickness (3129H)**

Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	⚡	Suction	⊖	Min. Bend Radius	R <sub>90</sub>	Wt. Per Ft.	⚖	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
4	101.6	4.61	117.1	60	.41	—	—	48.0	1219	2.21	1.00	100 ft.	X	3129-0790

**1/4" Tube Thickness (3129F)**

Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	⚡	Suction	⊖	Min. Bend Radius	R <sub>90</sub>	Wt. Per Ft.	⚖	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
4	101.6	4.73	120.1	60	.41	—	—	48.0	1219	2.69	1.22	100 ft.	X	3129-0570

**RECOMMENDED FOR:** Pneumatic transfer of bulk cement and other dry bulk materials.

**TEMPERATURE:** -40°F to +150°F (-40°C to +66°C) continuous service.

**CONSTRUCTION:** **Tube:** Type D3 (Natural Rubber). Black. Static conductive.  
**Reinforcement:** Synthetic, high tensile textile.  
**Cover:** Type D (SBR). Black with gray spiral stripe.

**COUPLINGS:** 5, 7, 49 or 78. Reference the Hose Coupling Section.

**PACKAGING:** 100' length coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® 609W Dry Cement Delivery - Static Conductive Tube 40 PSI (.28MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.





**Material Handling Hose**

**688SB (Bulk Commodity)**

(Specification 4691L)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
2	50.8	2.77	70.4	60	.41	30.0	762	16.0	406	1.65	.75	100 ft.	X	4691-0305
2	50.8	2.77	70.4	60	.41	30.0	762	16.0	406	1.65	.75	200 ft.	400 ft.	4691-0306
3	76.2	3.81	96.8	60	.41	30.0	762	24.0	610	2.54	1.15	100 ft.	X	4691-0325
4	101.6	4.77	121.2	45	.31	30.0	762	32.0	813	3.21	1.46	100 ft.	X	4691-0340
4	101.6	4.77	121.2	45	.31	30.0	762	32.0	813	3.21	1.46	200 ft.	400 ft.	4691-4342
4 1/2	114.3	5.27	133.9	40	.28	30.0	762	36.0	914	3.57	1.62	50 ft.	X	4691-0355
5	127.0	5.77	146.6	40	.28	30.0	762	40.0	1016	3.93	1.78	50 ft.	X	4691-0360
6	152.4	6.76	171.7	40	.28	30.0	762	48.0	1219	4.65	2.11	50 ft.	X	4691-0346
6	152.4	6.76	171.7	40	.28	30.0	762	48.0	1219	4.65	2.11	200 ft.	400 ft.	4691-0349

**RECOMMENDED FOR:** Transfer of bulk materials via suction, gravity or pneumatic systems where abrasion resistance is the primary requirement. Examples: Dry cement, sand, gravel, feed, seed and slurries.

**TEMPERATURE:** -40°F to +150°F (-40°C to +66°C) continuous service.

**CONSTRUCTION:** **Tube:** Type D3 (Natural Rubber). Black. Static conductive. 3/16" thick.  
**Reinforcement:** Synthetic, high tensile textile with steel wire helix.  
**Cover:** Type D (SBR). Black corrugated with gray spiral stripe.

**COUPLINGS:** 5, 6, 7, 49 or 78. Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® 688SB Wet-Dry Bulk Commodity 60 PSI (.41MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for sizes through 4" and 200 feet for sizes above 4". If a special transfer label is required, contact Gates Corporation for minimum quantity. Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Material Handling Hose**

**Hot Air Blower**  
(Specification 4691HA/4691HC)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1 1/2	38.1	2.08	52.8	130	.90	30.0	762	8.0	203	.89	.40	100 ft.	X	4691-0501
2	50.8	2.58	65.5	125	.86	30.0	762	9.0	229	1.13	.51	100 ft.	X	4691-0502
2 1/2	63.5	3.08	78.2	110	.76	30.0	762	14.0	356	1.43	.65	100 ft.	X	4691-0503
3	76.2	3.64	92.5	100	.69	30.0	762	18.0	457	1.89	.86	100 ft.	X	4691-0504
3 1/2	88.9	4.14	105.2	85	.59	30.0	762	21.0	533	2.17	.98	100 ft.	X	4691-0505
4	101.6	4.64	117.9	75	.52	30.0	762	24.0	610	2.44	1.11	100 ft.	X	4691-0506
5	127.0	5.74	145.8	55	.38	30.0	762	30.0	762	3.82	1.73	100 ft.	X	4691-0507
6	152.4	6.74	171.2	40	.28	30.0	762	36.0	914	4.52	2.05	100 ft.	X	4691-0508

- RECOMMENDED FOR:** Conveying hot air up to 350°F from blower or compressor to storage tank used in the transfer of dry bulk commodities. Can also be used for transferring mild chemicals at ambient temperatures.
- TEMPERATURE:** -40°F to +350°F (-40°C to +177°C) for hot air service. NOTE: -40°F to +125°F (-40°C to +52°C) for mild chemical transfer. For chemicals above 125°F or suitability for use with a specific chemical, contact Denver Product Application at (303) 744-5070.
- CONSTRUCTION:** **Tube:** Type P (EPDM). Black.  
**Reinforcement:** Synthetic, high tensile textile with steel wire helix.  
**Cover:** Type P (EPDM). Black with yellow spiral stripe.
- COUPLINGS:** 5, 7 or 49. Block 49 (Cam and Groove) should not be used for compressed air service and are not recommended for high temperature service. Reference the Hose Coupling Section.
- PACKAGING:** 100' length coiled and wrapped in polyethylene.
- BRANDING:** Continuous transfer label. Example: "GATES® HOT AIR BLOWER 130 PSI (.90MPa) WP Made In U.S.A."
- SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for sizes through 4" and 200 feet for sizes above 4". If a special transfer label is required, contact Gates Corporation for minimum quantity. Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.
- REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Material Handling Hose**

**770SB**  
(Specification 4691V)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.39	35.3	50	.34	20.0	508	5.0	127	.49	.22	100 ft.	400 ft.	4691-0400
1 1/4	31.8	1.64	41.7	50	.34	20.0	508	5.0	127	.59	.27	100 ft.	X	4691-0405
1 1/2	38.1	1.89	48.0	50	.34	20.0	508	6.0	152	.68	.31	100 ft.	X	4691-0410
2	50.8	2.39	60.7	50	.34	20.0	508	8.0	203	.75	.34	100 ft.	X	4691-0420
2 1/2	63.5	2.89	73.4	50	.34	20.0	508	9.0	229	.91	.41	100 ft.	X	4691-0430
3	76.2	3.39	86.1	50	.34	20.0	508	10.0	254	1.19	.54	100 ft.	X	4691-0435
4	101.6	4.39	111.5	50	.34	20.0	508	15.0	381	1.49	.68	100 ft.	X	4691-0440
5	127.0	5.53	140.5	50	.34	20.0	508	20.0	508	2.73	1.24	50 ft.	X	4691-0450
6	152.4	6.53	165.9	50	.34	20.0	508	24.0	610	3.24	1.47	50 ft.	X	4691-0455

**RECOMMENDED FOR:** Light duty vacuum service in industrial and maintenance applications conveying air, dust, fine particles, leaves, grass, etc.

**TEMPERATURE:** -40°F to +150°F (-40°C to +66°C) continuous service.

**CONSTRUCTION:** **Tube:** Type D3 (Natural Rubber). Black. Static conductive.  
**Reinforcement:** Synthetic, high tensile textile with steel wire helix.  
**Cover:** Type D (SBR). Black corrugated with gray spiral stripe.

**COUPLINGS:** 5, 6, 7 or 78. Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® 770SB LT WT Vacuum Service Only Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for sizes above 4" and 200 feet for sizes above 4". If a special transfer label is required, contact Gates Corporation for minimum quantity. Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Material Handling Hose**

**429W (Sand Blast)**  
(Specification 4129A)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/2	12.7	1.23	31.2	150	1.03	25.0	635	5.0	127	.55	.25	50 ft.	X	4129-0085
3/4	19.1	1.50	38.1	150	1.03	15.0	381	8.0	203	.70	.32	50 ft.	X	4129-0086
1	25.4	1.87	47.5	150	1.03	5.0	127	12.0	305	1.01	.46	50 ft.	X	4129-0100
1	25.4	1.63	41.4	150	1.03	5.0	127	12.0	305	.70	.32	50 ft.	X	4129-0256
1 1/4	31.8	2.16	54.9	150	1.03	5.0	127	12.0	305	1.22	.55	50 ft.	X	4129-0105
1 1/2	38.1	2.37	60.2	135	.93	5.0	127	18.0	457	1.37	.62	50 ft.	X	4129-0150
2	50.8	2.94	74.7	120	.83	5.0	127	20.0	508	1.82	.83	50 ft.	X	4129-0200

**RECOMMENDED FOR:** Sand, shot blasting work and wherever abrasive materials are carried at high velocity.

**TEMPERATURE:** -40°F to +150°F (-40°C to +66°C) continuous service.

**CONSTRUCTION:** **Tube:** Type D3 (Natural Rubber). Black. Static conductive.  
**Reinforcement:** Synthetic, high tensile textile.  
**Cover:** Type D (SBR). Black with yellow spiral stripe. All sizes are perforated.

**COUPLINGS:** 36. Reference the Hose Coupling Section.

**PACKAGING:** 50' length coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® 429W Sandblast 150 PSI (1.03MPa) WP Made In India"

**SPECIAL ORDER REQUIREMENTS:** All sizes are wrapped construction, 50 foot maximum length.  
Special production runs require minimum order quantities of 600 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity.  
Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** None.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Material Handling Hose**

**Master-Flex® 300 EPDM**  
(Specification 7744)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.34	34.0	80	.55	28.0	711	4.0	102	.23	.10	100 ft.	X	7744-5201
1 1/4	31.8	1.61	40.9	70	.48	28.0	711	5.0	127	.30	.14	100 ft.	X	7744-5202
1 1/2	38.1	1.96	49.8	60	.41	28.0	711	6.0	152	.49	.22	100 ft.	X	7744-5203
2	50.8	2.49	63.2	60	.41	28.0	711	9.0	229	.69	.31	100 ft.	X	7744-5204
2 1/2	63.5	3.00	76.2	50	.34	28.0	711	11.0	279	.91	.41	100 ft.	X	7744-5205
3	76.2	3.60	91.4	50	.34	28.0	711	12.0	305	1.03	.47	100 ft.	X	7744-5206
4	101.6	4.69	119.1	45	.31	28.0	711	17.0	432	1.81	.82	100 ft.	X	7744-5207
6	152.4	6.86	174.2	35	.24	28.0	711	27.0	686	3.84	1.74	100 ft.	X	7744-5208

\*Working Pressure and Suction at +72°F (+22°C).

**RECOMMENDED FOR:** Suction and discharge applications where lightweight, flexible hose is needed for transferring mild diluted chemicals and agricultural spray solutions. Good for septic service and transferring light abrasives. Reference Gates Chemical Resistance Table.

**TEMPERATURE:** -30°F to +140°F (-34°C to +60°C) continuous service.

**CONSTRUCTION:** **Tube:** Type P (EPDM). Black.  
**Reinforcement:** Polyethylene helix. Green.  
**Cover:** Type G (PVC). Black with green helix. Corrugated.

**COUPLINGS:** 1, 6, 7, 49 or 78. Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

**BRANDING:** Unlabeled.

**SPECIAL ORDER REQUIREMENTS:** None.

**REMNANT LENGTHS:** None.

**STANDARDS:** **Tube:** RMA (Class B) Medium oil resistance.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Material Handling Hose**

**Master-Flex® 400**  
(Specification 7744)

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	Ⓢ	Suction	⊖	Min. Bend Radius	Ⓢ	Wt. Per Ft.	Ⓢ	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1 1/2	38.1	1.88	47.8	40	.28	28.0	711	3.0	76	.38	.17	100 ft.	X	7744-6102
2	50.8	2.41	61.2	35	.24	28.0	711	4.0	102	.54	.25	100 ft.	X	7744-6103
2 1/2	63.5	2.98	75.7	35	.24	28.0	711	5.0	127	.77	.35	100 ft.	X	7744-6104
3	76.2	3.87	98.3	30	.21	28.0	711	6.0	152	1.05	.48	100 ft.	X	7744-6105
4	101.6	4.65	118.1	30	.21	28.0	711	8.0	203	1.68	.76	100 ft.	X	7744-6106
5	127.0	5.77	146.6	30	.21	28.0	711	9.0	229	2.40	1.09	100 ft.	1,000 ft.	7744-6107
6	152.4	6.86	174.2	25	.17	28.0	711	12.0	305	3.18	1.44	100 ft.	X	7744-6108
8	203.2	9.10	231.1	25	.17	28.0	711	16.0	406	5.73	2.60	50 ft.	X	7744-6209

\*Working Pressure and Suction at +72°F (+22°C).

**RECOMMENDED FOR:** Transfer of bulk materials via suction, pneumatic or gravity systems where abrasion resistance is the primary requirement and a static conductive hose is needed. Can also be used for vacuum or ducting service.

**TEMPERATURE:** -30°F to +140°F (-34°C to +60°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C (Nitrile) blend. Static conductive.  
Type D (SBR).

**Reinforcement:** Rigid PVC helix. Black.

**Cover:** Type G (PVC). Black with gray helix. Corrugated.

**COUPLINGS:** 1, 6, 7, 49 or 78. Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

**BRANDING:** Unlabeled.

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 1,000 feet per size. No deviations allowed to above product.

**REMNANT LENGTHS:** None.

**STANDARDS:** **Tube:** RMA (Class B) Medium oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Mining Hose**

**1000 MP/Mine Spray**  
(Specification 3619M)

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	Ⓢ	Suction		Min. Bend Radius	Ⓡ <sub>2</sub>	Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/2	12.7	.84	21.3	1000	6.90	30.0	762	5.0	127	.29	.13	50 ft.	X	3619-0699
1/2	12.7	.84	21.3	1000	6.90	30.0	762	5.0	127	.29	.13	100 ft.	X	3619-0716
1/2	12.7	.84	21.3	1000	6.90	30.0	762	5.0	127	.29	.13	Bulk 50 ft.	5,000 ft.	3619-0761
3/4	19.1	1.10	27.9	1000	6.90	25.0	635	8.0	203	.43	.20	50 ft.	X	3619-0700
3/4	19.1	1.10	27.9	1000	6.90	25.0	635	8.0	203	.43	.20	100 ft.	X	3619-0721
3/4	19.1	1.10	27.9	1000	6.90	25.0	635	8.0	203	.43	.20	Bulk 50 ft.	3,000 ft.	3619-0762
3/4	19.1	1.10	27.9	1000	6.90	25.0	635	8.0	203	.43	.20	Bulk 100 ft.	3,000 ft.	3619-0789
1	25.4	1.42	36.1	1000	6.90	25.0	635	11.0	279	.66	.30	50 ft.	X	3619-0701
1	25.4	1.42	36.1	1000	6.90	25.0	635	11.0	279	.66	.30	Bulk 50 ft.	3,000 ft.	3619-0763
1	25.4	1.42	36.1	1000	6.90	25.0	635	11.0	279	.66	.30	100 ft.	X	3619-0786
1	25.4	1.42	36.1	1000	6.90	25.0	635	11.0	279	.66	.30	Bulk 100 ft.	3,000 ft.	3619-0790
1 1/4	31.8	1.69	42.9	1000	6.90	20.0	508	16.0	406	.81	.37	50 ft.	X	3619-0702
1 1/4	31.8	1.69	42.9	1000	6.90	20.0	508	16.0	406	.81	.37	Bulk 50 ft.	3,000 ft.	3619-0764
1 1/4	31.8	1.69	42.9	1000	6.90	20.0	508	16.0	406	.81	.37	100 ft.	X	3619-0787
1 1/4	31.8	1.69	42.9	1000	6.90	20.0	508	16.0	406	.81	.37	Bulk 100 ft.	3,000 ft.	3619-0791
1 1/2	38.1	1.92	48.8	1000	6.90	15.0	381	18.0	457	.98	.45	50 ft.	X	3619-0708
1 1/2	38.1	1.92	48.8	1000	6.90	15.0	381	18.0	457	.98	.45	Bulk 50 ft.	3,000 ft.	3619-0765
1 1/2	38.1	1.92	48.8	1000	6.90	15.0	381	18.0	457	.98	.45	100 ft.	X	3619-0788
1 1/2	38.1	1.92	48.8	1000	6.90	15.0	381	18.0	457	.98	.45	Bulk 100 ft.	3,000 ft.	3619-0792
2	50.8	2.45	62.0	1000	6.90	10.0	254	25.0	635	1.36	.62	100 ft.	X	3619-0745
2	50.8	2.45	62.0	1000	6.90	10.0	254	25.0	635	1.36	.62	50 ft.	X	3619-0760
2	50.8	2.45	62.0	1000	6.90	10.0	254	25.0	635	1.36	.62	Bulk 50 ft.	3,000 ft.	3619-0766

**RECOMMENDED FOR:** High-pressure water service in underground mining applications and hot water washdown service. Air service working pressure is 300 PSI for all sizes.

**TEMPERATURE:** -40°F to +212°F (-40°C to +100°C) service range.

**CONSTRUCTION:** **Tube:** Type P (EPDM). Black.  
**Reinforcement:** Braided, high tensile steel wire.  
**Cover:** Type C2 (Modified Nitrile). Yellow (non-marking). All sizes are perforated.

**COUPLINGS:** 72 Gates Power Crimp®, 74 Gates MegaCrimp® (1/2" through 1 1/4"), 14, 15, or 19 (up to 300 PSI only). Reference the Hose Coupling Section.

**PACKAGING:** 1/2" through 2": 50' and 100' lengths, one length coiled in a carton.  
1/2" x 50': Packaged 1200' per bulk carton, each length coiled and tied.  
3/4" x 100': Packaged 1000' per bulk carton, each length coiled and tied.  
3/4" x 50': Packaged 1000' per bulk carton, each length coiled and tied.  
1" x 100': Packaged 700' per bulk carton, each length coiled and tied.  
1" x 50': Packaged 700' per bulk carton, each length coiled and tied.  
1 1/4" x 100': Packaged 600' per bulk carton, each length coiled and tied.  
1 1/4" x 50': Packaged 600' per bulk carton, each length coiled and tied.  
1 1/2" x 100': Packaged 400' per bulk carton, each length coiled and tied.  
1 1/2" x 50': Packaged 400' per bulk carton, each length coiled and tied.  
2" x 50': Packaged 200' per bulk carton, each length coiled and tied.

**BRANDING:** Continuous transfer label. Example: "GATES® 1000 MP/Mine Spray 1 1/2 INCH (38.1mm) 1000 PSI (6.90MPa) WP 300 PSI (2.07MPa) MAX Air Service MSHA IC-11C MADE IN INDIA"

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 5,000 feet for 1/2" and 3,000 feet for 3/4" through 2". Contact Gates Corporation for lead times.

**REMNANT LENGTHS:** None.

**STANDARDS:** **Cover:** Meets MSHA 30 CFR 18.65. Flame resistant.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Mining Hose**

**Longwall Mine Emulsion**

(Specification 3619MC/3619MY)

**Black Cover (3619MC)**

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	Ⓢ	Suction	⊖	Min. Bend Radius	Ⓢ	Wt. Per Ft.	Ⓢ	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
2 1/2	63.5	3.34	84.8	1000	6.90	10.0	254	20.0	508	2.90	1.32	50 ft.	X	3619-0809
2 1/2	63.5	3.34	84.8	1000	6.90	10.0	254	20.0	508	2.90	1.32	100 ft.	X	3619-0811
3	76.2	3.91	99.3	1000	6.90	10.0	254	20.0	508	4.05	1.84	50 ft.	X	3619-0810
3	76.2	3.91	99.3	1000	6.90	10.0	254	20.0	508	4.05	1.84	100 ft.	X	3619-3531

**Yellow Cover (3619MY)**

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	Ⓢ	Suction	⊖	Min. Bend Radius	Ⓢ	Wt. Per Ft.	Ⓢ	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3	76.2	3.91	99.3	1000	6.90	10.0	254	20.0	508	4.05	1.84	50 ft.	X	3619-0051
3	76.2	3.91	99.3	1000	6.90	10.0	254	20.0	508	4.05	1.84	100 ft.	X	3619-3530

**RECOMMENDED FOR:** Flexible connections in high pressure water distribution and emulsion systems used in a variety of industries. The thick cover meets MSHA's self-extinguishing requirements, and is designed for the rough mining environment.

**TEMPERATURE:** -40°F to +212°F (-40°C to +100°C) normal service.

**CONSTRUCTION:**  
**Tube:** Type A (Neoprene). Black.  
**Reinforcement:** Braided, high tensile steel wire.  
**Cover:** Type C2 (Specially compounded elastomer). Black. Self-extinguishing to meet MSHA requirements.  
 Type C4 (Modified Nitrile). Yellow (non-marking). Self-extinguishing to meet MSHA requirements.

**COUPLINGS:** 14, 15 or reusable male couplings (Wildman). Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled in a carton.

**BRANDING:** Continuous ink brand. Example: "GATES® LONGWALL MINE EMULSION 3 INCH (76.2mm) 1000 PSI (6.90MPa) W.P. MSHA 2G-IC-11C MADE IN INDIA".  
 Continuous ink brand. Example: "GATES® LONGWALL MINE EMULSION 3 INCH (76.2mm) 1000 PSI (6.90MPa) W.P. MSHA IC-11C MADE IN INDIA" (yellow cover only)

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 600 feet per size.

**REMNANT LENGTHS:** None.

**STANDARDS:**  
**Tube:** RMA (Class B) Medium oil resistance.  
**Cover:** Meets MSHA 30 CFR 18.65. Flame resistant.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Mining Hose**

**Scorpion™**  
(Specification 3618MT)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1 1/2	38.1	2.02	51.3	600	4.13	—	—	12.0	305	1.13	.51	50 ft.	X	3618-0311
2	50.8	2.62	66.6	600	4.13	—	—	16.0	406	1.51	.68	50 ft.	X	3618-0312
2 1/2	63.5	3.12	79.3	600	4.13	—	—	18.0	457	1.89	.86	50 ft.	X	3618-0313
3	76.2	3.64	92.5	600	4.13	—	—	20.0	508	2.46	1.12	50 ft.	X	3618-0314
4	101.6	4.79	121.7	600	4.13	—	—	25.0	635	4.10	1.86	50 ft.	X	3618-0315

**RECOMMENDED FOR:** High pressure and high temperature air hose used on industrial, construction, pneumatic mining and drilling applications requiring a wire braided hose with a high degree of hot air resistance.

**TEMPERATURE:** -40°F to +275°F (-40°C to +135°C).

**CONSTRUCTION:**  
**Tube:** Type J (CPE). Black.  
**Reinforcement:** Braided, high tensile steel wire.  
**Cover:** Type J (CPE). Black. All sizes perforated.

**COUPLINGS:** 14, 15, 18, Dixon Boss Clamps all sizes.

**PACKAGING:** 50' per carton +/- 10'. Maximum of 2 pieces. Minimum length 10'.

**BRANDING:** Continuous transfer label. Example: "GATES® SCORPION™ HI-TEMP AIR DRILL 600PSI (4.13 MPa) WP MADE IN USA"

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 600 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity.

**REMNANT LENGTHS:** None.

**STANDARDS:** **Tube:** RMA (Class B) Medium oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Mining Hose**

**Scorpion™ X-Treme**  
(Specification 3618HT)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1 1/2	38.1	2.02	51.3	600	4.13	—	—	12.0	305	1.07	.49	50 ft.	X	3618-0306
2	50.8	2.62	66.6	600	4.13	—	—	16.0	406	1.46	.66	50 ft.	X	3618-0307
2 1/2	63.5	3.12	79.3	600	4.13	—	—	18.0	457	1.81	.82	50 ft.	X	3618-0308
3	76.2	3.77	95.8	600	4.13	—	—	20.0	508	2.83	1.28	50 ft.	X	3618-0309
4	101.6	4.79	121.7	600	4.13	—	—	25.6	650	3.96	1.80	50 ft.	X	3618-0310

**RECOMMENDED FOR:** High pressure and high temperature air hose used on industrial, construction, pneumatic mining and drilling applications requiring a wire braided hose with extremely high temperature hot air and hot oil resistance.

**TEMPERATURE:** -40°F to +300°F (-40°C to +149°C).

**CONSTRUCTION:** **Tube:** Type B1 (Specially compounded elastomer). Black.  
**Reinforcement:** Braided, high tensile steel wire.  
**Cover:** Type J (CPE). Black. All sizes perforated.

**COUPLINGS:** 14, 15, 18, Dixon Boss Clamps all sizes.

**PACKAGING:** 50' per carton +/- 10'. Maximum of 2 pieces. Minimum length 10'.

**BRANDING:** Continuous transfer label. Example: "GATES® SCORPION™ X-TREME HI-TEMP AIR DRILL 600PSI (4.13 MPa) WP MADE IN USA"

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 600 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity.

**REMNANT LENGTHS:** None.

**STANDARDS:** **Tube:** RMA (Class A) High oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Mining Hose**

**18MB Air Drill**

(Specification 3618/3618GL)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.28	32.5	500	3.45	25.0	635	6.0	152	.60	.27	50 ft.	X	3618-0011
1	25.4	1.55	39.4	500	3.45	25.0	635	8.0	203	.80	.36	50 ft.	X	3618-0021
1 1/4	31.8	1.80	45.7	500	3.45	15.0	381	10.0	254	.95	.43	50 ft.	5,000 ft.	3618-0031
1 1/2	38.1	2.21	56.1	500	3.45	15.0	381	12.0	305	1.26	.57	50 ft.	X	3618-0041
2	50.8	2.77	70.4	600	4.14	15.0	381	14.0	356	1.99	.90	50 ft.	X	3618-0051
2 1/2	63.5	3.46	87.9	500	3.45	10.0	254	30.0	762	3.04	1.38	50 ft.	X	3618-0201
2 1/2	63.5	3.46	87.9	500	3.45	10.0	254	30.0	762	3.04	1.38	60 ft.	X	3618-0205
3	76.2	3.97	100.8	500	3.45	10.0	254	36.0	914	3.69	1.67	50 ft.	X	3618-0215
4	101.6	5.06	128.5	500	3.45	10.0	254	47.6	1219	5.77	2.62	50 ft.	X	3618-0225

**RECOMMENDED FOR:** Extra heavy duty, high pressure use on industrial, construction and pneumatic mining applications requiring wire braided hose with an oil resistant tube and abrasion resistant cover.

**TEMPERATURE:** -30°F to +212°F (-34°C to +100°C) continuous service.

**CONSTRUCTION:**  
**Tube:** Type A (Neoprene). Black.  
**Reinforcement:** Braided, high tensile steel wire.  
**Cover:** Type C2 (Modified Nitrile). Gray with yellow stripe. All sizes are perforated. For 3/4" through 1 1/4" sizes only.  
 Type D3 (Natural Rubber). Gray with yellow stripe. All sizes are perforated. For 1 1/2" through 4" sizes only.

**COUPLINGS:** 14, 15 or 18. Reference the Hose Coupling Section.

**PACKAGING:** 3/4" through 1 1/2": Packaged 49' - 50' length coiled in carton.  
 2" through 4": Packaged 48' - 50' length coiled in carton.  
 2 1/2" x 60": Packaged 60' length coiled in carton.

**BRANDING:** Continuous transfer label. Example: "GATES® 18MB PREMIUM AIR DRILL 500 PSI (3.45MPa) WP MADE IN USA"

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 5,000 feet for 3/4" through 1 1/4" and 600 feet for 1 1/2" and larger.

**REMNANT LENGTHS:** None.

**STANDARDS:** **Tube:** RMA (Class B) Medium oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Mining Hose**

**500 MP Air Drill**  
(Specification 3618/3618Y)

**Black Cover (3618)**

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	Ⓢ	Suction	○	Min. Bend Radius	Ⓢ	Wt. Per Ft.	Ⓢ	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.11	28.2	500	3.45	25.0	635	6.0	152	.41	.19	100 ft.	X	3618-0801
1	25.4	1.45	36.6	500	3.45	25.0	635	8.0	203	.66	.30	100 ft.	X	3618-0802
1 1/4	31.8	1.74	44.2	500	3.45	15.0	381	10.0	254	.86	.39	100 ft.	X	3618-0803
1 1/2	38.1	1.99	50.6	500	3.45	15.0	381	12.0	305	.98	.45	100 ft.	X	3618-0804
2	50.8	2.50	63.5	500	3.45	15.0	381	14.0	356	1.40	.64	100 ft.	X	3618-0805
2 1/2	63.5	3.14	79.8	500	3.45	10.0	254	30.0	762	2.16	.98	100 ft.	X	3618-0806
3	76.2	3.67	93.2	500	3.45	10.0	254	36.0	914	2.73	1.24	100 ft.	X	3618-0807

NOTE: For 4" I.D. see 18MB.

**Yellow Cover (3618Y)**

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	Ⓢ	Suction	○	Min. Bend Radius	Ⓢ	Wt. Per Ft.	Ⓢ	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.11	28.2	500	3.45	25.0	635	6.0	152	.41	.19	100 ft.	X	3618-0808
1	25.4	1.45	36.6	500	3.45	25.0	635	8.0	203	.65	.30	100 ft.	X	3618-0809
1 1/4	31.8	1.74	44.2	500	3.45	15.0	381	10.0	254	.85	.39	100 ft.	X	3618-0810
1 1/2	38.1	1.99	50.6	500	3.45	15.0	381	12.0	305	.96	.45	100 ft.	X	3618-0811
2	50.8	2.50	63.5	500	3.45	15.0	381	14.0	356	1.43	.65	100 ft.	X	3618-0812
2 1/2	63.5	3.14	79.8	500	3.45	10.0	254	30.0	762	2.19	.99	100 ft.	X	3618-0813
3	76.2	3.67	93.2	500	3.45	10.0	254	36.0	914	2.78	1.26	100 ft.	X	3618-0814

NOTE: For 4" I.D. see 18MB.

**RECOMMENDED FOR:** Heavy-duty, high pressure use on industrial, construction and pneumatic mining applications requiring wire braided hose with an oil resistant tube and abrasion resistant cover.

**TEMPERATURE:** -22°F to +180°F (-30°C to +82°C) continuous service.

**CONSTRUCTION:**  
**Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Braided, high tensile steel wire.  
**Cover:** Type C2 (Modified Nitrile). Yellow with black spiral stripe. All sizes are perforated. Type D3 (Natural Rubber). Black with yellow spiral stripe.

**COUPLINGS:** 14, 15 or 18. Reference the Hose Coupling Section.

**PACKAGING:** 100' length coiled in a carton.

**BRANDING:** Continuous transfer. Example: "GATES® 500 MP/Air Drill 3/4 INCH (19.1mm) 500 PSI (3.45MPa) WP MADE IN INDIA"  
 Continuous transfer. Example: "GATES® 500 MP/Air Drill 3/4 INCH (19.1mm) 500 PSI (3.45MPa) WP MSHA IC-11C MADE IN INDIA" (yellow cover only).

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 3,000 feet for 3/4" through 1 1/2" and 2,500 feet for 2" and larger.

**REMNANT LENGTHS:** None.

**STANDARDS:**  
**Tube:** RMA (Class B) Medium oil resistance.  
**Cover:** Meets MSHA 30 CFR 18.65. Flame resistant. Yellow cover only.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



## Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

# GATES CERTIFIED ROUGHNECK DISTRIBUTORS

---

Gates Rotary Drilling, Vibrator, Cementing, Sour Service, Choke and Kill, Motion Compensator and Decoker oilfield hoses shown in this section have couplings attached by a Gates Certified Roughneck Distributor from hose already in their stock. The advantage is that hose from the Roughneck Distributor's stock can be cut to the customer's specified length. Couplings are then swaged-on, tested to API 7K standards and then shipped all in a matter of just hours! This greatly reduces the lead time required to supply product meeting your specific needs. The resulting hose assembly far exceeds Gates standards for coupling pull and burst pressure tests for added safety. **Contact your nearest Roughneck Distributor for price and availability.**

**Du-Tex, Inc.**  
134 44th Street  
Corpus Christi, Texas 78405  
[www.dutex.com](http://www.dutex.com)  
Ph. 361-887-9807  
F. 361-887-0812  
Mike Ray  
[dutex@msn.com](mailto:dutex@msn.com)

**Power Product Technologies Inc.**  
6200 North Washington  
Bldg. 1, Unit 1  
Denver, Colorado 80216  
[www.ppt-hose-tech.com](http://www.ppt-hose-tech.com)  
Ph. 303-286-7724  
F. 303-286-7311  
Adam Stewart  
[astewart@ppt-hose-tech.com](mailto:astewart@ppt-hose-tech.com)

**Robesco, Inc.**  
4749 Eastpark Drive  
Houston, Texas 77028  
[www.robesco.com](http://www.robesco.com)  
Ph. 713-672-1777  
F. 713-672-1956  
Scott Collins  
[scott@robesco.com](mailto:scott@robesco.com)  
Frank Navarro  
[frank@robesco.com](mailto:frank@robesco.com)

**Gates A.E. Hydraulics Pte Ltd**  
40 Gul Circle  
Jurong Industrial Estate  
Singapore 629575  
[www.aehydraulic.com](http://www.aehydraulic.com)  
Ph. (65) 6861 7322  
F. (65) 6861 7631  
YK Chua  
[ykchua@aehydraulic.com](mailto:ykchua@aehydraulic.com)

**Gates Fleximak Ltd.**  
Mod. 215 731b Street  
P.O. Box 61046  
Jebel Ali, Dubai  
United Arab Emirates  
[www.gatesfleximak.com](http://www.gatesfleximak.com)  
Ph. 971 4 8813900  
F. 971 4 8813902  
Tony Rogowsky  
[info@gatesfleximak.com](mailto:info@gatesfleximak.com)

**Gates de Mexico, S.A. de C.V.**  
Lerma Hose Plant  
Blvd. Aeropuerto Miguel Aleman No. 164  
52000 Lerma  
Edo. De Mexico, Mexico  
[www.gates.com.mx](http://www.gates.com.mx)  
Ph. 52 (55) 2000-2777  
F. 52 (55) 2000-2727  
Antonio Santibanez  
[as1108@gates.com](mailto:as1108@gates.com)

**GS Hydro Norge A/S**  
Stavanger Branch  
Fabrikkveien 26  
4033 Stavanger  
Norway  
[www.gshydro.com](http://www.gshydro.com)  
Ph. (47) 51 95 96 40  
F. (47) 51 95 96 41  
Espen Myhre  
[espen.myhre@gshydro.no](mailto:espen.myhre@gshydro.no)

**Hydrasun Limited**  
392 King Street  
Aberdeen AB24 3BU  
United Kingdom  
[www.hydrasun.com](http://www.hydrasun.com)  
Ph. 44 (0) 1224 618618  
F. 44 (0) 1224 618612  
Bill Anderson  
[bill.anderson@hydrasun.com](mailto:bill.anderson@hydrasun.com)

---

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Oilfield Hose**

**Black Gold®**

**Rotary/Vibrator Drilling – Grade D or Motion Compensator  
 5,000 psi W.P. – 10,000 Test – 12,500 Minimum Burst**

(Specification 4774PE)




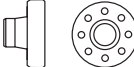
Nom. I.D.	Nom. O.D.	Min. Bend Radius (Inches)	Wt. per Ft. of hose (Lbs)	Coupling Threads API (T) (In.)	Swage Cplg. Wts. Each (Lbs)	Maximum length of hose (Feet)	Safety Clamp & Chain Part No.
2-1/2	4.14	36	9.8	3"	33	90	7361-0825
3	4.61	48	10.8	4"	44.5	90	7361-0830
3-1/2	5.25	54	12.8	4"	47	90	7361-0835
4	5.61	54	13.4	5"	55	90	7361-0840

**RECOMMENDED FOR:** Flexible connection between standpipe and swivel (Rotary Drilling) or between pump and standpipe (Rotary Vibrator) for pumping mud at extra high pressure in oil drilling and exploration work. Meets the high demands of directional drilling and down linking with negative pressure pulses and elevated temperatures. Motion Compensator hose is used for stabilization of rotary drilling and pumping equipment against vertical wave action on offshore drill platforms. The Motion Compensator hose is not recommended for phosphate ester fluids.

**TEMPERATURE:** -4°F to +180°F (-20°C to +82°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C<sub>3</sub> (Modified Nitrile). 3/16" thick. Black. Specially compounded for handling abrasive, corrosive and oily drilling mud.  
**Reinforcement:** Multiple layers of polyester cord over tube. Multiple layers of "close wound", high tensile steel cables, with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.  
**Cover:** Type C<sub>4</sub> (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

**COUPLINGS:** Swaged – API male line pipe threads standard. Gates recommends butt-welded couplings. Couplings can be supplied with your choice of end fittings. Please contact your nearest Roughneck Distributor for more detailed information. (Refer to Roughneck Distributor list at the beginning of this section).  
 NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

**FITTINGS:** Hammer Unions      
 Female Sub      Male Sub./Nut

**PACKAGING:** Each length packaged in a heavy-duty wooden crate.

**BRANDING:** One continuous longitudinal yellow transfer label (with serial number and code date embossed).  
 Example: "GATES® BLACK GOLD® ROTARY VIBRATOR 3 INCH MAX WP 5000 PSI API SPEC 7K TESTED TO 10000 PSI GRADE D FSL 1 TEMP RANGE 1 ISO 14693 LICENSE 7K-0003 MADE IN U.S.A."

**CERTIFICATION/STANDARDS:** API (American Petroleum Institute) Spec 7K.  
 Coupling/Mat'l Traceability (Additional Cost)  
 ISO 14693  
 Letter of Conformance (Additional Cost)  
 Test Certificates  
 3rd Party Witness Test (Additional Cost)  
 ABS/CDS Type Approval

**OPTIONAL:** Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Oilfield Hose**

**Rotary/Vibrator Drilling – Grade E  
7,500 psi W.P. – 15,000 Test – 18,750 Minimum Burst**

**Black Gold®**

(Specification 4773PE)

Nom. I.D.	Nom. O.D.	Min. Bend Radius (Inches)	Wt. per Ft. of hose (Lbs)	Swage Cplg. Wts. Each (Lbs)	Maximum length of hose (Feet)	Safety Clamp & Chain Part No.
2-1/2	5.16	48	20.2	62	90	7361-0835
3	5.66	48	22.6	70	90	7361-0840
3-1/2	6.04	54	24.1	75	90	7361-0845
4	6.48	60	25.8	90	90	7361-0850

**RECOMMENDED FOR:** Flexible connection between standpipe and swivel (Rotary Drilling) or between pump and standpipe (Rotary Vibrator) for pumping mud at extra high pressure in oil drilling and exploration work. Meets the high demands of directional drilling and down linking with negative pressure pulses and elevated temperatures.

**TEMPERATURE:** -4°F to +180°F (-20°C to +82°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C<sub>3</sub> (Modified Nitrile). 3/16" thick. Black. Specially compounded for handling abrasive, corrosive and oily drilling mud.  
**Reinforcement:** Multiple layers of polyester cord over tube. Multiple layers of "close wound", high tensile plated steel cables, with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.  
**Cover:** Type C<sub>4</sub> (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

**COUPLINGS:** Swaged – API 7K hose assemblies with working pressures exceeding 5,000 psi, the end fitting will be butt-welded onto the hose coupling. Couplings can be supplied with your choice of end fitting. Please contact your nearest Roughneck Distributor for more detailed information. (Refer to Roughneck Distributor list at the beginning of this section).

NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

**FITTINGS:** Hammer Unions

Female Sub      Male Sub./Nut      Hubs      Flanges

**PACKAGING:** Each length packaged in a heavy-duty wooden crate.

**BRANDING:** One continuous longitudinal yellow transfer label (with serial number and code date embossed). Example: "GATES® BLACK GOLD® ROTARY VIBRATOR 3INCH MAX WP 7500 PSI API SPEC 7K TESTED TO 15000 PSI GRADE E FSL 1 TEMP RANGE 1 ISO 14693 LICENSE 7K-0003 MADE IN U.S.A."

**CERTIFICATION/STANDARDS:** API (American Petroleum Institute) Spec 7K.  
Coupling/Mat'l Traceability (Additional Cost)  
ISO 14693  
Letter of Conformance (Additional Cost)  
Test Certificates  
3rd Party Witness Test (Additional Cost)  
ABS/CDS Type Approval

**OPTIONAL:** Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Oilfield Hose  
 Cementing (Nitrile Tube)  
 5,000 psi W.P. – 10,000 Test – 12,500 Minimum Burst**

**Black Gold®**

(Specification 4774PE)

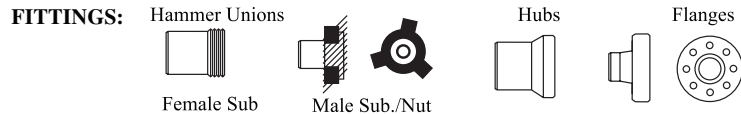
Nom. I.D.	Nom. O.D.	Min. Bend Radius (Inches)	Wt. per Ft. of hose (Lbs)	Coupling Threads API (T) (In.)	Swage Cplg. Wts. Each (Lbs)	Maximum length of hose (Feet)	Safety Clamp & Chain Part No.
2-1/2	4.14	36	9.8	3"	33	90	7361-0825
3	4.61	48	10.8	4"	44.5	90	7361-0830
3-1/2	5.25	54	12.8	4"	47	90	7361-0835
4	5.61	54	13.4	5"	55	90	7361-0840

**RECOMMENDED FOR:** Used as a flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure.

**TEMPERATURE:** -4°F to +180°F (-20°C to +82°C) continuous service.

**CONSTRUCTION: Tube:** Type C<sub>3</sub> (Modified Nitrile). 3/16" thick. Black. Specially compounded for handling abrasion and corrosion.  
**Reinforcement:** Multiple layers of "close wound", high tensile steel cables with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.  
**Cover:** Type C<sub>4</sub> (Modified Nitrile). Black. Specially compounded UltraBriasion cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

**COUPLINGS:** Swaged – API male line pipe threads standard. Gates recommends butt-welded couplings. Couplings can be supplied with your choice of end fitting. Please contact your nearest Roughneck Distributor for more detailed information. (Refer to Roughneck Distributor list at the beginning of this section).  
**NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.**



**PACKAGING:** Each length packaged in a heavy-duty wooden crate.

**BRANDING:** One continuous longitudinal yellow transfer label (with serial number and code date embossed).  
 Example: "GATES® BLACK GOLD® CEMENTING 4 INCH MAX WP 5000 PSI TESTED TO 10000 PSI FSL 0 TEMP RANGE 1 ISO 14693 LICENSE 7K-0003 MADE IN U.S.A."

**CERTIFICATION/STANDARDS:** API (American Petroleum Institute) Spec 7K.  
 Coupling/Mat'l Traceability (Additional Cost)  
 ISO 14693  
 Letter of Conformance (Additional Cost)  
 Test Certificates  
 3rd Party Witness Test (Additional Cost)  
 ABS/CDS Type Approval

**OPTIONAL:** Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Oilfield Hose**

**Cementing (Nitrile Tube)**

**10,000 psi W.P. – 15,000 Test. – 22,500 Minimum Burst**

**Black Gold®**

(Specification 4773PE)

Nom. I.D.	Nom. O.D.	Min. Bend Radius (Inches)	Wt. per Ft. of hose (Lbs)	Swage Cplg. Wts. Each (Lbs)	Maximum length of hose (Feet)	Safety Clamp & Chain Part No.
2-1/2	5.16	48	20.2	62	90	7361-0835
3	5.66	48	22.6	70	90	7361-0840
3-1/2	6.04	54	24.1	75	90	7361-0845

**RECOMMENDED FOR:** Used as a flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure.

**TEMPERATURE:** -4°F to +180°F (-20°C to +82°C) continuous service.

**CONSTRUCTION: Tube:** Type C<sub>3</sub> (Modified Nitrile). 3/16" thick. Black. Specially compounded for handling abrasion and corrosion.  
**Reinforcement:** Multiple layers of "close wound" high tensile plated steel cables, with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.  
**Cover:** Type C<sub>4</sub> (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

**COUPLINGS:** Swaged – API 7K hose assemblies with working pressures exceeding 5,000 psi, the end fitting will be butt-welded onto the hose coupling. Couplings can be supplied with your choice of end fitting. Please contact your nearest Roughneck Distributor for more detailed information. (Refer to Roughneck Distributor list at the beginning of this section).

NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

**FITTINGS:** Hammer Unions      Hubs      Flanges

Female Sub      Male Sub./Nut

**PACKAGING:** Each length packaged in a heavy-duty wooden crate.

**BRANDING:** One continuous longitudinal yellow transfer label (with serial number and code date embossed).  
 Example: "GATES® BLACK GOLD® CEMENTING 4 INCH MAX WP 10000 PSI TESTED TO 15000 PSI FSL 0 TEMP RANGE 1 ISO 14693 LICENSE 7K-0003 MADE IN U.S.A."

**CERTIFICATION/STANDARDS:** API (American Petroleum Institute) Spec 7K.  
 Coupling/Mat'l Traceability (Additional Cost)  
 ISO 14693  
 Letter of Conformance (Additional Cost)  
 Test Certificates  
 3rd Party Witness Test (Additional Cost)  
 ABS/CDS Type Approval

**OPTIONAL:** Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Oilfield Hose  
 Cementing (Fluoroelastomer Tube)  
 15,000 psi W.P. – 22,500 Test – 33,750 Minimum Burst**

**Black Gold®**

(Specification 4758L)

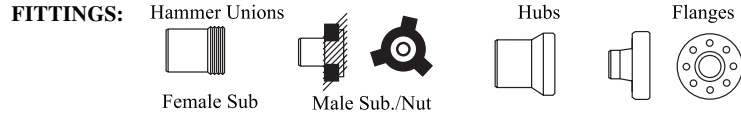
Nom. I.D.	Nom. O.D.	Min. Bend Radius (Inches)	Wt. per Ft. of hose (Lbs)	Swage Cplg. Wts. Each (Lbs)	Maximum length of hose (Feet)	Safety Clamp & Chain Part No.
2-1/2	5.66	60	29.4	130	90	7361-0840
3	6.16	60	33.2	172	90	7361-0845

**RECOMMENDED FOR:** Used as a flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure.

**TEMPERATURE:** -4°F to +212°F (-20°C to +100°C) continuous service.

**CONSTRUCTION:** **Tube:** Type V (Fluoroelastomer). Black. Excellent resistance to abrasion and corrosion.  
**Reinforcement:** Multiple layers of "close wound", high tensile plated steel cables to withstand flexing and high pressures encountered in offshore operations. Multiple layers of reinforcement under cover.  
**Cover:** Type C<sub>4</sub> (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

**COUPLINGS:** Special Built-In supplied with your choice of end fittings. Please contact your nearest Roughneck Distributor for more detailed information. (Refer to Roughneck Distributor list at the beginning of this section).  
 NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.



**PACKAGING:** Each length packaged in a heavy-duty wooden crate.

**BRANDING:** One continuous longitudinal yellow transfer label (with serial number and code date embossed).  
 Example: "GATES® BLACK GOLD® CEMENTING 2-1/2 INCH MAX WP 15000 PSI TESTED TO 22500 PSI MADE IN U.S.A."

**CERTIFICATION/STANDARDS:** Coupling/Mat'l Traceability (Additional Cost)  
 Letter of Conformance (Additional Cost)  
 Test Certificates  
 3rd Party Witness Test (Additional Cost)

**OPTIONAL:** Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.



**Oilfield Hose**

**Cementing (Nitrile Tube)**

**5,000 psi W.P. – 10,000 Test – 12,500 Minimum Burst**

**Black Gold®**

(Specification 4651ZL)

Nom. I.D.	Nom. O.D.	Min. Bend Radius (Inches)	Wt. per Ft. of hose (Lbs)	Crimped Cplg. Wts. (Lbs.) 1502 Hammer Union Assy.		Maximum length of hose (Feet)	Safety Clamp & Chain Part No.
2	2.80	36	4.63	Female Sub/Seal 7341-1569 (7.8 Lbs.)	Male Sub/Nut 7341-1571 (17.7 Lbs.)	200	7361-6550

**RECOMMENDED FOR:** Used as a flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure.

**TEMPERATURE:** -4°F to +250°F (-20°C to +121°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black. Specially compounded for handling abrasion and corrosion.  
**Reinforcement:** Multiple layers of spiraled high tensile steel wire.  
**Cover:** Type A (Neoprene). Black. Oil and abrasion resistant.

**COUPLINGS:** Crimped – Gates GSH™ with integral 2” Fig. 1502 hammer union couplings with male sub/nut and female sub/seal. Couplings can be supplied with your choice of end fittings. Please contact your nearest Roughneck Distributor for more detailed information. (Refer to Roughneck Distributor list at the beginning of this section). **NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.**

**FITTINGS:** GSH with Integral 2” Fig. 1502 Hammer Unions



**PACKAGING:** Each length packaged in a carton.

**BRANDING:** One continuous longitudinal yellow transfer label (with serial number and code date embossed).  
Example: “GATES® BLACK GOLD® CEMENTING NOT FOR SOUR SERVICE 2 INCH MAX WP 5000 PSI TESTED TO 10000 PSI FSL 0 TEMP RANGE III ISO 14693 LICENSE 7K-0003 MADE IN U.S.A.”

**CERTIFICATION/STANDARDS:** API (American Petroleum Institute) Spec 7K.  
Coupling/Mat'l Traceability (Additional Cost)  
ISO 14693  
Letter of Conformance (Additional Cost)  
Test Certificates  
3rd Party Witness Test (Additional Cost)  
ABS/CDS Type Approval

**OPTIONAL:** Accessories such as SAFETY CLAMPS are available.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Oilfield Hose**  
**Cementing (Nitrile Tube)**  
**10,000 psi W.P. – 15,000 Test – 22,500 Minimum Burst**

**Black Gold®**

(Specification 4651ZA)

Nom. I.D.	Nom. O.D.	Min. Bend Radius (Inches)	Wt. per Ft. of hose (Lbs)	Crimped Cplg. Wts. (Lbs.) 1502 Hammer Union Assy.		Maximum length of hose (Feet)	Safety Clamp & Chain Part No.
2	2.80	48	4.66	Female Sub/Seal 7341-1569 (7.8 Lbs.)	Male Sub/Nut 7341-1571 (17.7 Lbs.)	200	7361-6550

**RECOMMENDED FOR:** Used as a flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure.

**TEMPERATURE:** -4°F to +250°F (-20°C to +121°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black. Specially compounded for handling abrasion and corrosion.  
**Reinforcement:** Multiple layers of spiraled high tensile steel wire.  
**Cover:** Type L (MegaTuff®). Black. Oil and abrasion resistant.

**COUPLINGS:** Crimped – Gates GSH™ with integral 2” Fig. 1502 hammer union couplings with male sub/nut and female sub/seal. Couplings can be supplied with your choice of end fittings. Please contact your nearest Roughneck Distributor for more detailed information. (Refer to Roughneck Distributor list at the beginning of this section). **NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.**

**FITTINGS:** GSH with Integral 2” Fig. 1502 Hammer Unions



**PACKAGING:** Each length packaged in a carton.

**BRANDING:** One continuous longitudinal yellow transfer label (with serial number and code date embossed).  
 Example: “GATES® BLACK GOLD® CEMENTING NOT FOR SOUR SERVICE 2 INCH MAX WP 10000 PSI TESTED TO 15000 PSI FSL 0 TEMP RANGE III ISO 14693 LICENSE 7K-0003 MADE IN U.S.A.”

**CERTIFICATION/STANDARDS:** API (American Petroleum Institute) Spec 7K.  
 Coupling/Mat'l Traceability (Additional Cost)  
 ISO 14693  
 Letter of Conformance (Additional Cost)  
 Test Certificates  
 3rd Party Witness Test (Additional Cost)  
 ABS/CDS Type Approval

**OPTIONAL:** Accessories such as SAFETY CLAMPS are available.



**Oilfield Hose  
Sour Service  
5,000 psi W.P. – 10,000 Test – 12,500 Minimum Burst**

**Black Gold®**

(Specification 4774F)

Nom. I.D.	Nom. O.D.	Min. Bend Radius (Inches)	Wt. per Ft. of hose (Lbs)	Coupling Threads API (T) (In.)	Swage Cplg. Wts. Each (Lbs)	Maximum length of hose (Feet)	Safety Clamp & Chain Part No.
2-1/2	4.15	36	10.1	3"	33	90	7361-0825
3	4.61	48	11.1	4"	44.5	90	7361-0830
3-1/2	5.25	54	13.2	4"	47	90	7361-0835
4	5.58	54	13.9	5"	55	90	7361-0840

**RECOMMENDED FOR:** Flexible connection between standpipe and swivel (Rotary Drilling) or between pump and standpipe (Rotary Vibrator).

**TEMPERATURE:** -4°F to +200°F (-20°C to +93°C) continuous service.

**CONSTRUCTION: Tube:** Type V (Fluoroelastomer). Black. Resists abrasion, corrosion, oil, and up to 20% H<sub>2</sub>S.  
**NOTE:** Hose is manufactured to handle up to 20% Hydrogen Sulfide (H<sub>2</sub>S) for 1 hour at 93°C (200°F) at rated working pressure.

**Reinforcement:** Multiple layers of "close wound", high tensile steel cables, with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.

**Cover:** Type C<sub>1</sub> (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

**COUPLINGS:** Swaged – meets NACE MR0175. API male line pipe threads standard. Gates recommends butt-welded couplings. Couplings can be supplied with your choice of end fittings. Please contact your nearest Roughneck Distributor for more detailed information. (Refer to Roughneck Distributor list at the beginning of this section).

**NOTE:** FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

**FITTINGS:** Hammer Unions      Hubs      Flanges

Female Sub      Male Sub./Nut

**PACKAGING:** Each length packaged in a heavy-duty wooden crate.

**BRANDING:** One continuous longitudinal yellow transfer label (with serial number and code date embossed).  
Example: "GATES® BLACK GOLD® SOUR SERVICE – MAX 20% H<sub>2</sub>S 4 INCH MAX WP 5000 PSI TESTED TO 10000 PSI MADE IN U.S.A."

**CERTIFICATION/STANDARDS:** Coupling/Mat'l Traceability (Additional Cost)  
Letter of Conformance (Additional Cost)  
NACE  
Test Certificates  
3rd Party Witness Test (Additional Cost)

**OPTIONAL:** Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Oilfield Hose**  
**Sour Service**  
**7,500 psi W.P. – 15,000 Test – 18,750 Minimum Burst**

**Black Gold®**

(Specification 4773LE)

Nom. I.D.	Nom. O.D.	Min. Bend Radius (Inches)	Wt. per Ft. of hose (Lbs)	Swage Cplg. Wts. Each (Lbs)	Maximum length of hose (Feet)	Safety Clamp & Chain Part No.
2-1/2	5.14	48	20.6	62	90	7361-0835
3	5.64	48	23.0	70	90	7361-0840
3-1/2	6.05	54	24.6	75	90	7361-0845
4	6.40	60	26.4	90	90	7361-0850


**RECOMMENDED FOR:** Flexible connection between standpipe and swivel (Rotary Drilling) or between pump and standpipe (Rotary Vibrator).

**TEMPERATURE:** -4°F to +200°F (-20°C to +93°C) continuous service.

**CONSTRUCTION: Tube:** Type V (Fluoroelastomer). Black. Resists abrasion, corrosion, oil, and up to 20% H<sub>2</sub>S.  
 NOTE: Hose is manufactured to handle up to 20% Hydrogen Sulfide (H<sub>2</sub>S) for 1 hour at 93°C (200°F) at rated working pressure.  
**Reinforcement:** Multiple layers of "close wound", high tensile steel cables, with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.  
**Cover:** Type C<sub>4</sub> (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

**COUPLINGS:** Swaged – meets NACE MR0175. API 7K hose assemblies with working pressures exceeding 5,000 psi, the end fitting will be butt-welded onto the hose coupling. Couplings can be supplied with your choice of end fittings. Please contact your nearest Roughneck Distributor for more detailed information. (Refer to Roughneck Distributor list at the beginning of this section).  
 NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

**FITTINGS:** Hammer Unions      Hubs      Flanges



Female Sub      Male Sub./Nut

**PACKAGING:** Each length packaged in a heavy-duty wooden crate.

**BRANDING:** One continuous longitudinal yellow transfer label (with serial number and code date embossed).  
 Example: "GATES® BLACK GOLD® SOUR SERVICE – MAX 20% H<sub>2</sub>S 4 INCH MAX WP 7500 PSI TESTED TO 15000 PSI MADE IN U.S.A."

**CERTIFICATION/STANDARDS:** Coupling/Mat'l Traceability (Additional Cost)  
 Letter of Conformance (Additional Cost)  
 NACE  
 Test Certificates  
 3rd Party Witness Test (Additional Cost)

**OPTIONAL:** Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.



**Oilfield Hose**

**Choke and Kill**

**5,000 psi W.P. – 10,000 Test – 15,000 Minimum Burst**

**Black Gold®**

(Specification 4774F\*/4773LE\*\*)

Nom. I.D.	Nom. O.D.	Min. Bend Radius (Inches)	Wt. per Ft. of hose (Lbs)	Swage Cplg. Wts. Each (Lbs)	Maximum length of hose (Feet)	Safety Clamp & Chain Part No.
2-1/2*	4.15	36	10.1	33	90	7361-0825
3*	4.61	48	11.1	44.5	90	7361-0830
3-1/2*	5.25	54	13.2	47	90	7361-0835
4**	6.40	60	26.4	90	90	7361-0850

**RECOMMENDED FOR:** Flexible hose between the riser and manifold or around the ball joint of offshore drilling rigs.

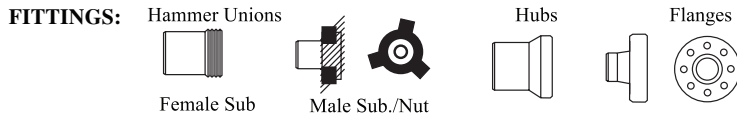
**TEMPERATURE:** -4°F to +200°F (-20°C to +93°C) continuous service.

**CONSTRUCTION: Tube:** Type V (Fluoroelastomer). Black. Resists abrasion, corrosion, oil, and up to 20% H<sub>2</sub>S.  
**NOTE:** Hose is manufactured to handle up to 20% Hydrogen Sulfide (H<sub>2</sub>S) for 1 hour at 93°C (200°F) at rated working pressure.

**Reinforcement:** Multiple layers of "close wound", high tensile steel cables, with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.

**Cover:** Type C<sub>4</sub> (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

**COUPLINGS:** Swaged – meets NACE MR0175. Per API – flexible Choke and Kill hose end fittings will be butt-welded and the pressure rating shall be equivalent to the pressure rating of the flexible hose. Couplings can be supplied with your choice of end fittings. Please contact your nearest Roughneck Distributor for more detailed information. (Refer to Roughneck Distributor list at the beginning of this section).  
**NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.**



**PACKAGING:** Each length packaged in a heavy-duty wooden crate.

**BRANDING:** One continuous longitudinal yellow transfer label (with serial number and code date embossed).  
Example: "GATES® BLACK GOLD® CHOKE AND KILL – MAX 20% H<sub>2</sub>S 4 INCH MAX WP 5000 PSI TESTED TO 10000 PSI MADE IN U.S.A."

**CERTIFICATION/STANDARDS:** Coupling/Mat'l Traceability (Additional Cost)  
Letter of Conformance (Additional Cost)  
NACE  
Test Certificates  
3rd Party Witness Test (Additional Cost)

**OPTIONAL:** Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Oilfield Hose  
 Choke and Kill  
 10,000 psi W.P. – 15,000 Test – 22,500 Minimum Burst**

**Black Gold®**

(Specification 4773LE)

Nom. I.D.	Nom. O.D.	Min. Bend Radius (Inches)	Wt. per Ft. of hose (Lbs)	Swage Cplg. Wts. Each (Lbs)	Maximum length of hose (Feet)	Safety Clamp & Chain Part No.
2-1/2	5.14	48	20.6	60	90	7361-0835
3	5.64	48	23.0	70	90	7361-0840
3-1/2	6.05	54	24.6	75	90	7361-0845

**RECOMMENDED FOR:** Flexible hose between the riser and manifold or around the ball joint of offshore drilling rigs.

**TEMPERATURE:** -4°F to +200°F (-20°C to +93°C) continuous service.

**CONSTRUCTION: Tube:** Type V (Fluoroelastomer). Black. Resists abrasion, corrosion, oil, and up to 20% H<sub>2</sub>S.  
**NOTE:** Hose is manufactured to handle up to 20% Hydrogen Sulfide (H<sub>2</sub>S) for 1 hour at 93°C (200°F) at rated working pressure.

**Reinforcement:** Multiple layers of "close wound", high tensile plated steel cables, with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.

**Cover:** Type C<sub>4</sub> (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

**COUPLINGS:** Swaged – meets NACE MR0175. Per API – flexible Choke and Kill hose end fittings will be butt-welded and the pressure rating shall be equivalent to the pressure rating of the flexible hose. Couplings can be supplied with your choice of end fittings. Please contact your nearest Roughneck Distributor for more detailed information. (Refer to Roughneck Distributor list at the beginning of this section).  
**NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.**

**FITTINGS:** Hammer Unions



Female Sub



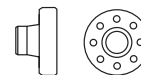
Male Sub./Nut



Hubs



Flanges



**PACKAGING:** Each length packaged in a heavy-duty wooden crate.

**BRANDING:** One continuous longitudinal yellow transfer label (with serial number and code date embossed).  
 Example: "GATES® BLACK GOLD® CHOKE AND KILL – MAX 20% H<sub>2</sub>S 3 INCH MAX WP 10000 PSI TESTED TO 15000 PSI MADE IN U.S.A."

**CERTIFICATION/STANDARDS:** Coupling/Mat'l Traceability (Additional Cost)  
 Letter of Conformance (Additional Cost)  
 Lloyds Fire Test OD/1000/499  
 NACE  
 Test Certificates  
 3rd Party Witness Test (Additional Cost)

**OPTIONAL:** Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Oilfield Hose**

**Super Choke and Kill**

**15,000 psi W.P. – 22,500 Test – 33,750 Minimum Burst**

**Black Gold®**

(Specification 4758L)

Nom. I.D.	Nom. O.D.	Min. Bend Radius (Inches)	Wt. per Ft. of hose (Lbs)	Swage Cplg. Wts. Each (Lbs)	Maximum length of hose (Feet)	Safety Clamp & Chain Part No.
2-1/2	5.66	60	29.4	130	90	7361-0840
3	6.16	60	33.2	172	90	7361-0845

**RECOMMENDED FOR:** Flexible hose between the riser and manifold or around the ball joint of offshore drilling rigs.

**TEMPERATURE:** -4°F to +200°F (-20°C to +93°C) continuous service.


**CONSTRUCTION: Tube:** Type V (Fluoroelastomer). Black. Resists abrasion, corrosion, oil, and up to 20% H<sub>2</sub>S.  
**NOTE:** Hose is manufactured to handle up to 20% Hydrogen Sulfide (H<sub>2</sub>S) for 1 hour at 93°C (200°F) at rated working pressure.

**Reinforcement:** Multiple layers of "close wound", high tensile plated steel cables to withstand flexing and high pressures encountered in offshore operations. Multiple layers of fabric reinforcement under cover.

**Cover:** Type C<sub>4</sub> (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

**COUPLINGS:** Special Built-In – meets NACE MR0175. Per API – flexible Choke and Kill hose end fittings will be butt-welded and the pressure rating shall be equivalent to the pressure rating of the flexible hose. Couplings can be supplied with your choice of end fittings. Please contact your nearest Roughneck Distributor for more detailed information. (Refer to Roughneck Distributor list at the beginning of this section).  
**NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.**

**FITTINGS:** Hammer Unions      Hubs      Flanges



Female Sub      Male Sub./Nut

**PACKAGING:** Each length packaged in a heavy-duty wooden crate.

**BRANDING:** One continuous longitudinal yellow transfer label (with serial number and code date embossed).  
Example: "GATES® BLACK GOLD® SUPER CHOKER AND KILL – MAX 20% H<sub>2</sub>S 3 INCH MAX WP 15000 PSI TESTED TO 22500 PSI MADE IN U.S.A."

**CERTIFICATION/STANDARDS:** Coupling/Mat'l Traceability (Additional Cost)  
Letter of Conformance (Additional Cost)  
NACE  
Test Certificates  
3rd Party Witness Test (Additional Cost)

**OPTIONAL:** Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Oilfield Hose**  
**Rotary Decoking**  
**5,000 psi W.P. – 10,000 Test – 12,500 Minimum Burst – Grade D**

**Black Gold®**

(Specification 4774PE)

Nom. I.D.	Nom. O.D.	Min. Bend Radius (Inches)	Wt. per Ft. of hose (Lbs)	Swage Cplg. Wts. Each (Lbs)	Maximum length of hose (Feet)	Safety Clamp & Chain Part No.
3	4.61	48	10.8	44.5	90	7361-0830
3-1/2	5.25	54	12.8	47	90	7361-0835
4	5.61	54	13.4	55	90	7361-0840

**7,500 psi W.P. – 15,000 Test – 18,750 Minimum Burst – Grade E**

(Specification 4773PE)

Nom. I.D.	Nom. O.D.	Min. Bend Radius (Inches)	Wt. per Ft. of hose (Lbs)	Swage Cplg. Wts. Each (Lbs)	Maximum length of hose (Feet)	Safety Clamp & Chain Part No.
3	5.66	48	22.6	70	90	7361-0840
3-1/2	6.04	54	24.1	75	90	7361-0845
4	6.40	60	25.8	90	90	7361-0850

**RECOMMENDED FOR:** Coke is one of the by-products used in oil refining. It is stored in silos until it can be loaded into railroad cars for shipment. The coke hardens after being placed in the silos. To unload the coke from the silos, a decoking hose is attached to a drill stem which travels down the silo using warm, high-pressure water to wash the loosened coke from the silo.

**TEMPERATURE:** -4°F to +180°F (-20°C to +82°C) continuous service.

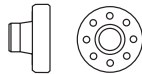
**CONSTRUCTION: Tube:** Type C<sub>3</sub> (Modified Nitrile). 3/16" thick. Black. Specially compounded for handling abrasion and corrosion.

**Reinforcement:** Multiple layers of polyester cord over tube. Multiple layers of "close wound", high tensile steel cables with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.

**Cover:** Type C<sub>4</sub> (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

**COUPLINGS:** Swaged – supplied with API standard flanges or equivalent of your choice. Please contact your nearest Roughneck Distributor for more detailed information. (Refer to Roughneck Distributor list at the beginning of this section).  
**NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.**

**FITTINGS:** Flanges



**PACKAGING:** Each length packaged in a heavy-duty wooden crate.

**BRANDING:** One continuous longitudinal yellow transfer label (with serial number and code date embossed).  
 Example: "GATES® BLACK GOLD® ROTARY VIBRATOR 3 INCH MAX WP 5000 PSI API SPEC 7K TESTED TO 10000 PSI GRADE D FSL 1 TEMP RANGE 1 ISO 14693 LICENSE 7K-0003 MADE IN U.S.A."

**CERTIFICATION/STANDARDS:** Coupling/Mat'l Traceability (Additional Cost)  
 Letter of Conformance (Additional Cost)  
 Test Certificates  
 3rd Party Witness Test (Additional Cost)


**OPTIONAL:** Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.




**Oilfield Hose**

**Safety Clamps & Chain**  
For Rotary Vibrator/Drilling Hose

**Grade "D" Rotary Hose or  
Motion Compensator Hose**  
5,000 psi W.P. – 10,000 Test

Nom. I.D. (In.)		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
	(mm)			
2-1/2	63.5	1 EA	X	7361-0825
3	76.2	1 EA	X	7361-0830
3-1/2	88.9	1 EA	X	7361-0835
4	101.6	1 EA	X	7361-0840

**Grade "E" Rotary Hose**  
7,500 psi W.P. – 15,000 Test

Nom. I.D. (In.)		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
	(mm)			
2-1/2	63.5	1 EA	X	7361-0835
3	76.2	1 EA	X	7361-0840
3-1/2	88.9	1 EA	X	7361-0845
4	101.6	1 EA	X	7361-0850

**SAFETY CLAMP:** A set of safety clamps can be obtained on special order. Location for attaching these safety clamps is shown by notations marked at each end of the assembly.

**NOTE:** Not Sold Separately. Additional Cost. Contact a Roughneck Distributor for pricing.



**LIFT EYE AND COLLAR:** Hose lift eye and collar clamp also available. Do not use safety clamp and chain for lifting.

**NOTE:** Additional Cost. Contact a Roughneck Distributor for pricing.



**STAINLESS STEEL ARMOR:** An external stainless steel armor shield can be supplied. Applied over the hose cover. The armor provides extra abrasion and mechanical protection for the hose, where external abuse is severe.

**NOTE:** Additional Cost. Contact a Roughneck Distributor for pricing.



Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





Oilfield Hose

# Powerbraid® Plus (Slim Hole Rotary)

(Specification 3670H, 4651RL, ZL)

## 2,000 - 3,000 Working Pressure 4651RL, 3670H

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
2	50.8	2.63	66.8	3000	20.68	—	—	25.0	635	2.95	1.34	50 ft.	X	3670-0655
2	50.8	2.63	66.8	3000	20.68	—	—	25.0	635	2.95	1.34	200 ft.	X	3670-0660
2 1/2	63.5	3.38	85.9	2500	17.24	—	—	30.0	762	4.00	1.81	50 ft.	X	3670-0656
3	76.2	3.90	99.1	2000	13.79	—	—	36.0	914	4.33	1.96	50 ft.	X	3670-0657

## 5,000 Working Pressure 4651ZL

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.53	38.9	5000	34.47	—	—	12.0	305	1.49	.68	200 ft.	X	3670-0665
1 1/4	31.8	1.97	50.0	5000	34.47	—	—	16.5	419	2.67	1.21	200 ft.	X	3670-0670
1 1/2	38.1	2.26	57.4	5000	34.47	—	—	20.0	508	3.22	1.46	200 ft.	X	3670-0675
2	50.8	2.80	71.1	5000	34.47	—	—	25.0	635	4.72	2.14	50 ft.	X	3670-0679
2	50.8	2.80	71.1	5000	34.47	—	—	25.0	635	4.72	2.14	200 ft.	X	3670-0680

**RECOMMENDED FOR:** Rotary applications on workover rigs and slim hole or seismograph rigs designed to operate at a maximum of 2,000 to 5,000 PSI rated working pressure depending on size. Applications on small or medium-size drilling rigs used for water well operations, water well core drill, blast or shot hole operations. Hoses are flexible connectors in pressure lines used in conveying mud or air. For normal air or mud applications and where increased resistance to external abuse or pump pulsations is required.

**TEMPERATURE:** -40°F to +180°F (-40°C to +82°C) continuous service.

**CONSTRUCTION: Tube:** Type A (Neoprene). Black. For 1 1/2" I.D. and 2" I.D. 5,000 psi and 2" I.D. 3,000 psi. Type C (Nitrile). Black. For 1" and 1 1/4" I.D. 5,000 psi, 2 1/2" I.D. 2,500 psi and 3" I.D. 2,000 psi.

**Reinforcement:** High tensile steel wire. (Minimum 2.5:1 design factor).

**Cover:** Type A (Neoprene). Black with blue longitudinal stripes. All sizes perforated.

**COUPLINGS:** 1 1/2" I.D. 5,000 psi. Gates 24PCM-24MPAPI (7347-0307)

1 1/4" I.D. 5,000 psi. Gates 20GS-20MPAPI (7347-7695)

1" I.D. 5,000 psi. Gates 16GS-16MPLH (7347-7654)

2" I.D. 5,000 psi. Gates 32PCM-32MPAPI (7347-0305)

2" I.D. 5,000 psi. Gates 32PCS-32MPAPI (7347-0389)

71 Permanent (Mulconroy - API threads only) or reusable male couplings (Wildman - API threads only). 77 GSH® with Integral 2" Fig. 1502 Hammer Unions. Reference the Hose Coupling Section.

For GS, PCM and PCS couplings reference Gates Hydraulic Hose catalog #35093.

**PACKAGING:** All sizes packaged 1 length in a carton.

**BRANDING:** Continuous transfer label. Example: "GATES® POWERBRAID® PLUS SLIM HOLE ROTARY 2 INCH 3000 PSI WP FLAME RESISTANT, MSHA 2G-IC-11C MADE IN U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 3,000 feet for 1" and 1,800 feet for 1 1/4" through 2". For 2", 2 1/2" and 3" 50 foot lengths, minimum is 600 feet. Maximum length available for 2 1/2" and 3" is 50 ft.

**REMNANT LENGTHS:** None.

**STANDARDS: Tube:** RMA (Class B) Medium oil resistance.  
**Cover:** Meets MSHA 30 CFR 18.65. Flame resistant.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Oilfield Hose**

**16 EFBOP Blow-Out Preventer**

(Specification 4651ZL, XL)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.53	38.9	5000	34.97	—	—	12.0	305	1.49	.68	200 ft.	X	3670-0141
1	25.4	1.53	38.9	6000	41.36	—	—	12.0	305	1.49	.68	200 ft.	X	3670-0140

**RECOMMENDED FOR:** Insert hose in all oilfield blow-out systems. This rugged hose has been tested for 5,000 psi STATIC pressure requirements. NOTE: Insert must be sleeved and shielded for BOP applications in accordance with applicable specifications.

**TEMPERATURE:** -40°F to +250°F (-40°C to +121°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black. Petroleum and Bio-degradable oil resistant.  
**Reinforcement:** High tensile steel wire. (Minimum 4:1 design factor for static applications).  
**Cover:** Type A (Neoprene). Black. Red lettering.

**COUPLINGS:** Gates GlobalSpiral. Stem 16GS-16MPAPI (7347-79285), 16GS-16MPLH (7347-76545). Ferrule 16GS1F-4 (7347-03145). See the Gates Hydraulics catalog 35093.

**PACKAGING:** 200' per carton.

**BRANDING:** Continuous transfer label. Example: "GATES® ENVIROFLUID™ 16 EFBOP 5000 PSI MAX STATIC WP USE ONLY FOR BLOW OUT PREVENTER INSERT HOSE MADE IN U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 3000 feet. If a special transfer label is required, contact Gates Corporation for minimum quantity.

**REMNANT LENGTHS:** None.

**STANDARDS:** **Tube:** RMA (Class A) High oil resistance.  
**Cover:** Meets MSHA 30 CFR 18.65. Flame resistant.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Petroleum Transfer Hose**

**Longhorn®**  
(Specification 4688CC/4688DC)

**Smooth Cover (4688CC)**

Nom. I.D. (In.)	⊖ (mm)	Nom. O.D. (In.)	⊕ (mm)	Max. W.P. (psi)	⚡ (MPa)	Suction		Min. Bend Radius (In.)	⚙️ (mm)	Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
						(In. Hg)	(mm Hg)			(Lbs.)	(Kg)			
1	25.4	1.50	38.1	150	1.03	30.0	762	3.0	76	.60	.27	200 ft.	400 ft.	4688-0454
1	25.4	1.50	38.1	150	1.03	30.0	762	3.0	76	.60	.27	100 ft.	X	4688-1305
1 1/4	31.8	1.75	44.5	150	1.03	30.0	762	4.0	102	.72	.33	100 ft.	X	4688-1306
1 1/2	38.1	2.02	51.3	150	1.03	30.0	762	4.0	102	.88	.36	100 ft.	X	4688-1307
1 1/2	38.1	2.02	51.3	150	1.03	30.0	762	4.0	102	.88	.36	200 ft.	400 ft.	4688-1493
2	50.8	2.52	64.0	150	1.03	30.0	762	6.0	152	1.12	.51	100 ft.	X	4688-1308
2	50.8	2.52	64.0	150	1.03	30.0	762	6.0	152	1.12	.51	200 ft.	400 ft.	4688-1342
2 1/2	63.5	3.05	77.5	150	1.03	30.0	762	8.0	203	1.50	.68	200 ft.	400 ft.	4688-0455
2 1/2	63.5	3.05	77.5	150	1.03	30.0	762	8.0	203	1.50	.68	100 ft.	X	4688-1309
3	76.2	3.58	90.9	150	1.03	30.0	762	9.0	229	1.90	.86	100 ft.	X	4688-1310
3	76.2	3.58	90.9	150	1.03	30.0	762	9.0	229	1.90	.86	200 ft.	400 ft.	4688-1343
4	101.6	4.62	117.4	150	1.03	30.0	762	12.0	305	2.65	1.20	100 ft.	X	4688-1311
4	101.6	4.62	117.4	150	1.03	30.0	762	12.0	305	2.65	1.20	200 ft.	400 ft.	4688-1344

**Corrugated Cover (4688DC)**

Nom. I.D. (In.)	⊖ (mm)	Nom. O.D. (In.)	⊕ (mm)	Max. W.P. (psi)	⚡ (MPa)	Suction		Min. Bend Radius (In.)	⚙️ (mm)	Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
						(In. Hg)	(mm Hg)			(Lbs.)	(Kg)			
2	50.8	2.52	64.0	150	1.03	30.0	762	5.0	127	1.13	.51	100 ft.	X	4688-1351
3	76.2	3.58	90.9	150	1.03	30.0	762	8.0	203	1.78	.81	100 ft.	X	4688-1352
4	101.6	4.64	117.9	150	1.03	30.0	762	11.0	279	2.65	1.20	100 ft.	X	4688-1353
6	152.4	6.87	174.5	150	1.03	30.0	762	17.0	432	5.91	2.68	50 ft.	X	4688-1355

**RECOMMENDED FOR:** Transfer of refined fuels (commercial gasoline and diesel fuel), oils and other petroleum products. Ideal for oilfield service truck use. Service life of transfer hoses can be extended by draining hoses after use. For bio-diesel and other alternative fuel applications, see Longhorn® AF. Petroleum transfer hoses may be used with all grades of bio-diesel only if the exposure is intermittent and the hose is drained between uses.

**TEMPERATURE:** -40°F to +180°F (-40°C to +82°C). Warning: Do not convey fuels over 120°F (+49°C).

**CONSTRUCTION:**  
**Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Synthetic, high tensile textile with steel wire helix.  
**Cover:** Type A (Neoprene). Black with red spiral stripe.

**COUPLINGS:** 7, 26, 49 or 78. (for ambient temperatures only). Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Longhorn® Petroleum Transfer 150 PSI (1.03MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

**STANDARDS:** **Tube:** RMA (Class A) High oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



# Longhorn® AF (Alternative Fuel-Corrugated)

(Specification 4688AC, AF)

## Petroleum Transfer Hose

### Smooth Cover (4688AF)

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	Ⓢ	Suction	⊖	Min. Bend Radius	Ⓢ	Wt. Per Ft.	Ⓢ	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.50	38.1	150	1.03	30.0	762	3.0	76	.53	.27	100 ft.	X	4688-1700
1	25.4	1.50	38.1	150	1.03	30.0	762	3.0	76	.59	.27	200 ft.	400 ft.	4688-1701
1 1/4	31.8	1.75	44.5	150	1.03	30.0	762	4.0	102	.70	.32	100 ft.	X	4688-1702
1 1/4	31.8	1.75	44.5	150	1.03	30.0	762	4.0	102	.70	.32	200 ft.	400 ft.	4688-1703
1 1/2	38.1	2.02	51.3	150	1.03	30.0	762	4.0	102	.87	.39	100 ft.	X	4688-1704
1 1/2	38.1	2.02	51.3	150	1.03	30.0	762	4.0	102	.87	.39	200 ft.	400 ft.	4688-1705
2	50.8	2.52	64.0	150	1.03	30.0	762	6.0	152	1.10	.50	100 ft.	X	4688-1706
2	50.8	2.52	64.0	150	1.03	30.0	762	6.0	152	1.10	.50	200 ft.	400 ft.	4688-1707
2 1/2	63.5	3.05	77.5	150	1.03	30.0	762	8.0	203	1.47	.67	100 ft.	X	4688-1708
2 1/2	63.5	3.05	77.5	150	1.03	30.0	762	8.0	203	1.47	.67	200 ft.	400 ft.	4688-1709
3	76.2	3.53	89.7	150	1.03	30.0	762	9.0	229	1.86	.84	100 ft.	X	4688-1710
3	76.2	3.53	89.7	150	1.03	30.0	762	9.0	229	1.86	.84	200 ft.	400 ft.	4688-1711
4	101.6	4.57	116.1	150	1.03	30.0	762	12.0	305	2.59	1.17	100 ft.	X	4688-1712
4	101.6	4.57	116.1	150	1.03	30.0	762	12.0	305	2.59	1.17	200 ft.	400 ft.	4688-1713

### Corrugated Cover (4688AC)

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	Ⓢ	Suction	⊖	Min. Bend Radius	Ⓢ	Wt. Per Ft.	Ⓢ	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.50	38.1	150	1.03	30.0	762	3.0	76	.59	.27	100 ft.	X	4688-1718
1 1/4	31.8	1.75	44.5	150	1.03	30.0	762	4.0	102	.70	.32	100 ft.	X	4688-1720
1 1/4	31.8	1.75	44.5	150	1.03	30.0	762	4.0	102	.70	.32	200 ft.	400 ft.	4688-1721
1 1/2	38.1	2.02	51.3	150	1.03	30.0	762	4.0	102	.87	.39	100 ft.	X	4688-1722
1 1/2	38.1	2.02	51.3	150	1.03	30.0	762	4.0	102	.87	.39	200 ft.	400 ft.	4688-1723
2	50.8	2.52	64	150	1.03	30.0	762	6.0	152	1.10	.50	100 ft.	X	4688-1724
2	50.8	2.52	64	150	1.03	30.0	762	6.0	152	1.10	.50	200 ft.	400 ft.	4688-1725
2 1/2	63.5	3.05	77.5	150	1.03	30.0	762	8.0	203	1.47	.67	100 ft.	X	4688-1726
2 1/2	63.5	3.05	77.5	150	1.03	30.0	762	8.0	203	1.47	.67	200 ft.	400 ft.	4688-1727
3	76.2	3.53	89.7	150	1.03	30.0	762	9.0	229	1.86	.84	100 ft.	X	4688-1728
3	76.2	3.53	89.7	150	1.03	30.0	762	9.0	229	1.86	.84	200 ft.	400 ft.	4688-1729
4	101.6	4.57	116.1	150	1.03	30.0	762	12.0	305	2.59	1.17	100 ft.	X	4688-1730
4	101.6	4.57	116.1	150	1.03	30.0	762	12.0	305	2.59	1.17	200 ft.	400 ft.	4688-1731

**RECOMMENDED FOR:** Longhorn AF is designed and engineered specifically for constant contact use in the transfer of alternative fuels such as bio-diesel, bio-diesel blends, ethanol and ethanol blends. It can also be used for transfer of commercial gasolines, diesel fuels, oils and other petroleum products. It is ideal for tank truck, terminal loading and in-plant operations.

**TEMPERATURE:** -30°F to +180°F (-34°C to +82°C). Warning: Do not convey fuels over 120°F (+49°C). Contact Denver Product Application (303) 744-5070 for use at temperature extremes.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Synthetic, high tensile textile with steel wire helix.  
**Cover:** Type C2 (Modified Nitrile). Black with red spiral stripe and green boarder.

**COUPLINGS:** 7, 26, 49 or 78. (for ambient temperatures only). Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® LONGHORN® AF 150 PSI (1.03MPa) WP FLAME RESISTANT MSHA IC-4116 MADE IN U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for sizes through 4" and 200 feet for sizes above 4". If a special transfer label is required, contact Gates Corporation for minimum quantity. Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

**STANDARDS:** **Tube:** RMA (Class A) High oil resistance.  
**Cover:** Meets MSHA 30 CFR 18.65. Flame resistant.  
RMA (Class A) High oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Petroleum Transfer Hose**

**Steer®**  
(Specification 4688CN)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
2	50.8	2.44	62.0	150	1.03	—	—	—	—	.93	.42	100 ft.	X	4688-1320
2	50.8	2.44	62.0	150	1.03	—	—	—	—	.93	.42	200 ft.	400 ft.	4688-1491
3	76.2	3.45	87.6	150	1.03	—	—	—	—	1.39	.63	100 ft.	X	4688-1321
3	76.2	3.45	87.6	150	1.03	—	—	—	—	1.39	.63	200 ft.	400 ft.	4688-1530
4	101.6	4.51	114.6	150	1.03	—	—	—	—	2.03	.92	100 ft.	X	4688-1322
4	101.6	4.51	114.6	150	1.03	—	—	—	—	2.03	.92	200 ft.	400 ft.	4688-1531

**RECOMMENDED FOR:** Transfer of refined fuels (commercial gasoline and diesel fuel), oils and other petroleum products. Ideal for oilfield service truck use. Service life of transfer hoses can be extended by draining hoses after use. For bio-diesel and other alternative fuel applications, see Longhorn® AF. Petroleum transfer hoses may be used with all grades of bio-diesel only if the exposure is intermittent and the hose is drained between uses.

**TEMPERATURE:** -40°F to +180°F (-40°C to +82°C). Warning: Do not convey fuels over 120°F (+49°C).

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Braided, high tensile synthetic textile cord with static conductor.  
**Cover:** Type A (Neoprene). Black with red spiral stripe.

**COUPLINGS:** 7, 26, 49 or 78. (for ambient temperatures only). Reference the Hose Coupling Section.

**PACKAGING:** 100' length coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Steer® Petroleum Transfer Discharge 150 PSI (1.03MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity.  
Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

**STANDARDS:** **Tube:** RMA (Class A) High oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Petroleum Transfer Hose**

**Maverick™**  
(Specification 4687R)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.			Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)	Standard Pack		
2	50.8	2.48	63.0	100	.69	30.0	762	4.0	102	1.08	.49	100 ft.	X	4687-0251
3	76.2	3.50	88.9	100	.69	30.0	762	6.0	152	1.73	.79	100 ft.	X	4687-0252
4	101.6	4.50	114.3	100	.69	30.0	762	11.0	279	2.25	1.02	100 ft.	X	4687-0253

**RECOMMENDED FOR:** Transfer of refined fuels (commercial gasoline and diesel fuel), oils and other petroleum products. Ideal for oilfield service truck use. Service life of transfer hoses can be extended by draining hoses after use. For bio-diesel and other alternative fuel applications, see Longhorn® AF. Petroleum transfer hoses may be used with all grades of bio-diesel only if the exposure is intermittent and the hose is drained between uses.

**TEMPERATURE:** -40°F to +180°F (-40°C to +82°C). Warning: Do not convey fuels over 120°F (+49°C).

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Synthetic, high tensile textile with steel wire helix.  
**Cover:** Type C2 (Modified Nitrile). Red corrugated with white spiral stripe.

**COUPLINGS:** 7, 26, 49 or 78. (for ambient temperatures only). Reference the Hose Coupling Section.

**PACKAGING:** 100' length coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Maverick™ Petroleum Transfer 100 PSI (.69MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity.  
Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

**STANDARDS:** **Tube:** RMA (Class A) High oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Petroleum Transfer Hose**

**Super-Vac®**  
(Specification 4688V)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.42	36.1	150	1.03	30.0	762	3.0	76	.52	.24	100 ft.	X	4688-0651
1 1/4	31.8	1.68	42.7	150	1.03	30.0	762	3.0	76	.67	.30	100 ft.	X	4688-0653
1 1/2	38.1	1.97	50.0	150	1.03	30.0	762	3.0	76	.77	.35	100 ft.	X	4688-0656
2	50.8	2.47	62.7	150	1.03	30.0	762	4.0	102	.99	.45	100 ft.	X	4688-0665
2	50.8	2.47	62.7	150	1.03	30.0	762	4.0	102	.99	.45	200 ft.	400 ft.	4688-0668
2 1/2	63.5	2.99	75.9	150	1.03	30.0	762	5.0	127	1.46	.66	100 ft.	X	4688-0675
3	76.2	3.52	89.4	150	1.03	30.0	762	6.0	152	1.76	.80	100 ft.	X	4688-0680
4	101.6	4.52	114.8	100	.69	30.0	762	8.0	203	2.29	1.04	100 ft.	X	4688-0690
6	152.4	6.67	169.4	60	.41	30.0	762	18.0	457	4.37	1.98	20 ft.	X	4688-0697
6	152.4	6.67	169.4	60	.41	30.0	762	18.0	457	4.37	1.98	50 ft.	X	4688-0698
6	152.4	6.67	169.4	60	.41	30.0	762	18.0	457	4.37	1.98	200 ft.	400 ft.	4688-0702

**RECOMMENDED FOR:** NOTE: NOT RECOMMENDED FOR REFINED PETROLEUM PRODUCTS SUCH AS GASOLINE. Tank truck service, including oil field vacuum truck, where full suction or rated working pressures are required. Ideal for applications handling crude oil, salt and fresh water, tank bottoms, drilling mud, dilute solutions of hydrochloric acids, diesel fuels and sewage transfer. Reference Gates Chemical Resistance Table.

**TEMPERATURE:** -40°F to +150°F (-40°C to +66°C) continuous service. NOTE: Diesel fuel normally conveyed below 120°F (+49°C).

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Synthetic, high tensile textile with steel wire helix.  
**Cover:** Type D (SBR). Black corrugated with blue spiral stripe.

**COUPLINGS:** 6, 7 or 78. (for ambient temperatures only). Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Super-Vac® Oil Field Vacuum 150 PSI (1.03MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for sizes through 4" and 200 feet for sizes above 4". If a special transfer label is required, contact Gates Corporation for minimum quantity. Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

**STANDARDS:** **Tube:** RMA (Class B) Medium oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Petroleum Transfer Hose**

**Blender Transfer**  
(Specification 4110DW)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
4	101.6	4.73	120.1	150	1.03	—	—	—	—	3.07	1.39	100 ft.	400 ft.	4110-0400
5	127.0	5.73	145.5	150	1.03	—	—	—	—	3.77	1.71	100 ft.	400 ft.	4110-0500

**RECOMMENDED FOR:** Transfer of water, petroleum based fluids, dilute acids, chemicals and abrasive slurries used in oil and gas well stimulation.

**TEMPERATURE:** -40°F to +180°F (-40°C to +82°C).

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Synthetic, high tensile textile.  
**Cover:** Type A (Neoprene). Black with red spiral stripe.

**PACKAGING:** 100' length coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Blender Transfer 150 PSI (1.03MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for 4" and 200 feet for 5". If a special transfer label is required, contact Denver Industrial Hose Marketing for minimum quantity.

**REMNANT LENGTHS:** None.

**STANDARDS:** **Tube:** RMA (Class A) High oil resistance.











**Petroleum Transfer Hose**

**Sea Horse® 400 (Fuel Transfer)**

(Specification 4110SH)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
2	50.8	2.70	68.6	400	2.76	10.0	254	17.0	432	1.51	.68	200 ft.	X	4110-0715
3	76.2	3.67	93.2	400	2.76	10.0	254	22.0	559	2.14	.97	200 ft.	X	4110-0716
4	101.6	4.83	122.7	400	2.76	10.0	254	30.0	762	3.43	1.56	200 ft.	X	4110-0717

**RECOMMENDED FOR:** Transfer of refined fuels (commercial gasoline, diesel fuel) oils and other petroleum products. Transfer hoses are designed for intermittent contact with refined fuels and must be drained after use. Ideal for offshore/onshore transfer applications involving discharge service for diesel oils and other similar petroleum products where an extremely lightweight, flexible hose with a high rated working pressure and a small minimum bend radius is required. For bio-diesel and other alternative fuel applications, see Longhorn® AF. Petroleum transfer hoses may be used with all grades of bio-diesel only if the exposure is intermittent and the hose is drained between uses.

**TEMPERATURE:** -40°F to +180°F (-40°C to +82°C) continuous service.

**CONSTRUCTION:**  
**Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Synthetic, high tensile textile with static wire.  
**Cover:** Type A (Neoprene). Black with red spiral stripe.

**COUPLINGS:** 14, 15, 71. Reference the Hose Coupling Section.

**PACKAGING:** 200' length coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® SEA HORSE® 400 Fuel Transfer 400 PSI (2.76MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

**STANDARDS:** **Tube:** RMA (Class A) High oil resistance.



**Petroleum Transfer Hose**

**Sea Horse® 400 HW (Fuel  
Transfer Suction/Discharge -  
Hardwall)**

(Specification 4688SH)

Nom. I.D. (In.)		Nom. O.D. (In.)		Max. W.P. (psi)		Suction (In. Hg)		Min. Bend Radius (In.)		Wt. Per Ft. (Lbs.)			Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)				
2	50.8	2.84	72.1	400	2.76	30.0	762	15.0	381	2.03	.92		200 ft.	X	4688-0590
3	76.2	4.00	101.6	400	2.76	30.0	762	20.0	508	3.66	1.66		200 ft.	X	4688-0591
4	101.6	4.99	126.8	400	2.76	30.0	762	25.0	635	4.64	2.11		200 ft.	X	4688-0592

**RECOMMENDED FOR:** Transfer of refined fuels (commercial gasoline and diesel fuel) oils and other petroleum products. Transfer hoses are designed for intermittent contact with refined fuels and must be drained after use. Ideal for offshore/onshore transfer applications involving suction and discharge service for diesel oils and other similar petroleum products where an extremely lightweight, hardwall, flexible hose with a high rated working pressure and a small minimum bend radius is required. For bio-diesel and other alternative fuel applications, see Longhorn® AF. Petroleum transfer hoses may be used with all grades of bio-diesel only if the exposure is intermittent and the hose is drained between uses.

**TEMPERATURE:** -40°F to +180°F (-40°C to +82°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Synthetic, high tensile textile with steel wire helix.  
**Cover:** Type A (Neoprene). Black with red spiral stripe.

**COUPLINGS:** 14, 15, 71. Reference the Hose Coupling Section.

**PACKAGING:** 200' length coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® SEA HORSE® 400 HW Hardwall Fuel Transfer 400 PSI (2.76 MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

**STANDARDS:** **Tube:** RMA (Class A) High oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Petroleum Transfer Hose**

**Sea Horse® (Fuel Transfer)**  
(Specification 4110SS)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
2	50.8	2.66	67.6	300	2.07	10.0	254	14.0	356	1.40	.64	200 ft.	X	4110-0701
2 1/2	63.5	3.16	80.3	300	2.07	10.0	254	17.0	432	1.70	.77	200 ft.	400 ft.	4110-0704
3	76.2	3.70	94.0	300	2.07	10.0	254	21.0	533	2.17	.98	200 ft.	X	4110-0707
4	101.6	4.70	119.4	300	2.07	10.0	254	28.0	711	2.80	1.27	200 ft.	X	4110-0710
5	127.0	5.84	148.3	300	2.07	10.0	254	35.0	889	4.14	1.88	200 ft.	X	4110-0713

**RECOMMENDED FOR:** Transfer of refined fuels (commercial gasoline, diesel fuel) oils and other petroleum products. Transfer hoses are designed for intermittent contact with refined fuels and must be drained after use. Ideal for offshore/onshore transfer applications involving discharge service for diesel oils and other similar petroleum products where an extremely lightweight, flexible hose with a high rated working pressure and a small minimum bend radius is required. For bio-diesel and other alternative fuel applications, see Longhorn® AF. Petroleum transfer hoses may be used with all grades of bio-diesel only if the exposure is intermittent and the hose is drained between uses.

**TEMPERATURE:** -40°F to +180°F (-40°C to +82°C) continuous service.

**CONSTRUCTION:**  
**Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Synthetic, high tensile textile with static wire.  
**Cover:** Type A (Neoprene). Black with red spiral stripe.

**COUPLINGS:** 14, 15, 71, all sizes. 26 2" and 2 1/2" only. Reference the Hose Coupling Section.

**PACKAGING:** 200' length coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® SEA HORSE® Fuel Transfer 300 PSI (2.07MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for sizes through 4" and 200 feet for sizes above 4". If a special transfer label is required, contact Gates Corporation for minimum quantity.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

**STANDARDS:** **Tube:** RMA (Class A) High oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Petroleum Transfer Hose**

**Sea Horse® HW (Fuel Transfer  
Suction/Discharge - Hardwall)**  
(Specification 4688SS)

Nom. I.D. (In.)	⊖ (mm)	Nom. O.D. (In.)	⊖ (mm)	Max. W.P. (psi)	⚡ (MPa)	Suction (In. Hg)	○ (mm Hg)	Min. Bend Radius (In.)	⤵ (mm)	Wt. Per Ft. (Lbs.)	⚖ (Kg)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
2	50.8	2.78	70.6	300	2.07	30.0	762	10.0	254	1.87	.85	200 ft.	X	4688-0584
3	76.2	3.86	98.0	300	2.07	30.0	762	18.0	457	3.14	1.42	200 ft.	X	4688-0585
4	101.6	4.87	123.7	300	2.07	30.0	762	24.0	610	4.03	1.83	200 ft.	X	4688-0587
6	152.4	7.07	179.6	200	1.38	30.0	762	36.0	914	7.95	3.61	100 ft.	X	4688-0589

**RECOMMENDED FOR:** Transfer of refined fuels (commercial gasoline and diesel fuel) oils and other petroleum products. Transfer hoses are designed for intermittent contact with refined fuels and must be drained after use. Ideal for offshore/onshore transfer applications involving suction and discharge service for diesel oils and other similar petroleum products where an extremely lightweight, hardwall, flexible hose with a high rated working pressure and a small minimum bend radius is required. For bio-diesel and other alternative fuel applications, see Longhorn® AF. Petroleum transfer hoses may be used with all grades of bio-diesel only if the exposure is intermittent and the hose is drained between uses.

**TEMPERATURE:** -40°F to +180°F (-40°C to +82°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Synthetic, high tensile textile with steel wire helix.  
**Cover:** Type A (Neoprene). Black with red spiral stripe.

**COUPLINGS:** 14, 15 or 71. Reference the Hose Coupling Section.

**PACKAGING:** 200' length coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® SEA HORSE® HW Hardwall Fuel Transfer 300 PSI (2.07MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for sizes through 4" and 200 feet for sizes above 4". If a special transfer label is required, contact Gates Corporation for minimum quantity.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

**STANDARDS:** **Tube:** RMA (Class A) High oil resistance.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Petroleum Transfer Hose**

**Trident® 400**  
(Specification 3150B)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
2	50.8	2.71	68.8	400	2.76	10.0	254	16.0	406	1.50	.68	200 ft.	X	3150-0410
2 1/2	63.5	3.20	81.3	400	2.76	10.0	254	20.0	508	1.82	.83	200 ft.	400 ft.	3150-0411
3	76.2	3.71	94.2	400	2.76	10.0	254	24.0	610	2.23	1.01	200 ft.	X	3150-0412
4	101.6	4.84	122.9	400	2.76	10.0	254	32.0	813	3.49	1.58	200 ft.	X	3150-0413

**RECOMMENDED FOR:** NOTE: For fuels, use a petroleum transfer hose with a Type C (Nitrile) tube.  
Water, air and petroleum product transfer applications where a lightweight, flexible hose in long lengths is required.

**TEMPERATURE:** -30°F to +158°F (-34°C to +70°C) continuous service.

**CONSTRUCTION:** **Tube:** Type A (Neoprene). Black.  
**Reinforcement:** Synthetic, high tensile textile.  
**Cover:** Type A (Neoprene). Black with blue spiral stripe for high visibility.

**COUPLINGS:** 14, 15, 71 or 8. Reference the Hose Coupling Section.

**PACKAGING:** 200' length coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Trident® 400 Multi Service Transfer Air-Water-Petroleum 400 PSI WP Fluid/250 PSI WP Air Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

**STANDARDS:** **Tube:** RMA (Class B) Medium oil resistance.

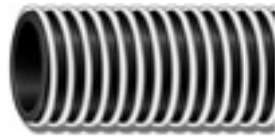
Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Petroleum Transfer Hose**

**Master-Flex® Fuel Delivery**  
(Specification 7744)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3	76.2	3.76	95.5	65	.45	28.0	711	6.0	152	1.71	.78	100 ft.	X	7744-7103
4	101.6	4.79	121.7	65	.45	28.0	711	8.0	203	2.44	1.11	100 ft.	X	7744-7104

\*Working Pressure and Suction at +72°F (+22°C).

**RECOMMENDED FOR:** Transfer of commercial gasolines, diesel fuel, oils and other petroleum products. Ideal for oilfield service truck use.

**TEMPERATURE:** -30°F to +130°F (-34°C to +55°C) Warning: Do not convey fuels over 120°F (+49°C).

**CONSTRUCTION:** **Tube:** Type C3 (Modified Nitrile). Black.  
**Reinforcement:** Polyester fabric with static wire.  
**Cover:** Type G (PVC). Black with yellow helix.

**COUPLINGS:** 6, 7, 49 or 78. Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

**BRANDING:** Unlabeled.

**SPECIAL ORDER REQUIREMENTS:** None.

**REMNANT LENGTHS:** None.



**Master-Flex® Fuel Delivery Sleeve**

Nom. I.D.		Wt. Per Ea.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(Lbs.)	(Kg)			
3	76.2	5.13	2.33	3 ft.	1 ea.	7744-8103
4	101.6	7.32	3.32	3 ft.	1 ea.	7744-8104

**INSTALLATION:** Apply the sleeve by twisting in a clockwise direction. Use of an appropriate lubricant, i.e. soapy water solution, will simplify sleeve application and reduce possibility of damage to hose cover. Make sure sleeve is applied prior to coupling insertion.

**RECOMMENDED FOR:** Soft Black PVC sleeve is designed to fit Gates Fuel Delivery Hose and provides a smooth banding surface.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Petroleum Transfer Hose**

**Master-Flex® Vapor Recovery**  
(Specification 7744)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1 1/2	38.1	1.88	47.8	5	.03	—	—	1.5	38	.36	.16	100 ft.	1,000 ft.	7744-7015
2	50.8	2.43	61.7	5	.03	—	—	2.0	51	.48	.22	100 ft.	X	7744-7020
3	76.2	3.54	89.9	5	.03	—	—	3.0	76	.69	.31	100 ft.	X	7744-7030
4	101.6	4.56	115.8	5	.03	—	—	4.0	102	.92	.42	100 ft.	X	7744-7040
5	127.0	5.51	140.0	5	.03	—	—	5.0	127	1.13	.51	100 ft.	1,000 ft.	7744-7050
6	152.4	6.52	165.6	5	.03	—	—	6.0	152	1.24	.56	100 ft.	1,000 ft.	7744-7060

\*Working Pressure and Suction at +72°F (+22°C).

**RECOMMENDED FOR:** Vapor Recovery for use with Gates Brahma®, Longhorn® and Master-Flex® Fuel Delivery. Can also be used for ducting, dust and light abrasive material handling.

**TEMPERATURE:** -30°F to +140°F (-34°C to +60°C) continuous service.

**CONSTRUCTION:**  
**Tube:** Type U (Polyurethane). Clear.  
**Reinforcement:** Rigid yellow PVC helix with copper static wire.  
**Cover:** Type G (PVC). Clear with yellow helix.

**COUPLINGS:** 7, 26, 49 or 78. Reference the Hose Coupling Section.

**PACKAGING:** 100' coiled and wrapped in polyethylene.

**BRANDING:** Unlabeled.

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 1,000 feet per size. No deviations allowed to above product.

**REMNANT LENGTHS:** None.



**Master-Flex® Vapor Recovery Sleeve**

Nom. I.D.		Wt. Per Ea.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(Lbs.)	(Kg)			
3	76.2	5.13	2.33	3 ft.	1 ea.	7744-8030
4	101.6	7.32	3.32	3 ft.	1 ea.	7744-8040

**INSTALLATION:** Apply the sleeve by twisting in a clockwise direction. Use of an appropriate lubricant, i.e. soapy water solution, will simplify sleeve application and reduce possibility of damage to hose cover. Make sure sleeve is applied prior to coupling insertion.

**RECOMMENDED FOR:** Soft Gray PVC sleeve is designed to fit Gates Vapor Recovery Hose and provides a smooth banding surface.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Petroleum Transfer Hose**

**Fuel Oil Delivery**  
(Specification 3221FR)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.50	38.1	200	1.38	10.0	254	8.0	203	.58	.26	100 ft.	X	3221-0410
1	25.4	1.50	38.1	200	1.38	10.0	254	8.0	203	.58	.26	125 ft.	X	3221-0411
1	25.4	1.50	38.1	200	1.38	10.0	254	8.0	203	.58	.26	150 ft.	X	3221-0412
1	25.4	1.50	38.1	200	1.38	10.0	254	8.0	203	.58	.26	175 ft.	X	3221-0413
1 1/4	31.8	1.75	44.5	200	1.38	10.0	254	10.0	254	.75	.34	100 ft.	X	3221-0414
1 1/4	31.8	1.75	44.5	200	1.38	10.0	254	10.0	254	.75	.34	125 ft.	X	3221-0415
1 1/4	31.8	1.75	44.5	200	1.38	10.0	254	10.0	254	.75	.34	150 ft.	X	3221-0416
1 1/4	31.8	1.75	44.5	200	1.38	10.0	254	10.0	254	.75	.34	175 ft.	X	3221-0417
1 3/8	34.9	1.87	47.5	200	1.38	10.0	254	10.0	254	.80	.36	100 ft.	X	3221-0418
1 3/8	34.9	1.87	47.5	200	1.38	10.0	254	10.0	254	.80	.36	125 ft.	X	3221-0419
1 3/8	34.9	1.87	47.5	200	1.38	10.0	254	10.0	254	.80	.36	150 ft.	X	3221-0420
1 3/8	34.9	1.87	47.5	200	1.38	10.0	254	10.0	254	.80	.36	175 ft.	X	3221-0421
1 1/2	38.1	2.08	52.8	200	1.38	10.0	254	12.0	305	.95	.43	100 ft.	X	3221-0422
1 1/2	38.1	2.08	52.8	200	1.38	10.0	254	12.0	305	.95	.43	125 ft.	X	3221-0423
1 1/2	38.1	2.08	52.8	200	1.38	10.0	254	12.0	305	.95	.43	150 ft.	X	3221-0424
1 1/2	38.1	2.08	52.8	200	1.38	10.0	254	12.0	305	.95	.43	175 ft.	X	3221-0425
1 1/2	38.1	2.08	52.8	200	1.38	10.0	254	12.0	305	.95	.43	200 ft.	X	3221-0426

**Fuel Oil Delivery Assemblies**

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ea.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.50	38.1	200	1.38	10.0	254	8.0	203	61.00	27.67	100 ft. cpld	1 ea.	3221-0075
1	25.4	1.50	38.1	200	1.38	10.0	254	8.0	203	75.50	34.25	125 ft. cpld	1 ea.	3221-0076
1	25.4	1.50	38.1	200	1.38	10.0	254	8.0	203	90.00	40.82	150 ft. cpld	1 ea.	3221-0077
1	25.4	1.50	38.1	200	1.38	10.0	254	8.0	203	104.50	47.63	175 ft. cpld	1 ea.	3221-0078
1 1/4	31.8	1.75	44.5	200	1.38	10.0	254	10.0	254	79.00	33.11	100 ft. cpld	1 ea.	3221-0079
1 1/4	31.8	1.75	44.5	200	1.38	10.0	254	10.0	254	97.75	41.39	125 ft. cpld	1 ea.	3221-0080
1 1/4	31.8	1.75	44.5	200	1.38	10.0	254	10.0	254	116.50	49.67	150 ft. cpld	1 ea.	3221-0081
1 1/4	31.8	1.75	44.5	200	1.38	10.0	254	10.0	254	135.25	57.95	175 ft. cpld	1 ea.	3221-0082
1 3/8	34.9	1.87	47.5	200	1.38	10.0	254	10.0	254	84.00	34.93	100 ft. cpld	1 ea.	3221-0083
1 3/8	34.9	1.87	47.5	200	1.38	10.0	254	10.0	254	104.00	43.66	125 ft. cpld	1 ea.	3221-0084
1 3/8	34.9	1.87	47.5	200	1.38	10.0	254	10.0	254	124.00	52.39	150 ft. cpld	1 ea.	3221-0085
1 3/8	34.9	1.87	47.5	200	1.38	10.0	254	10.0	254	144.00	61.12	175 ft. cpld	1 ea.	3221-0086
1 1/2	38.1	2.08	52.8	200	1.38	10.0	254	12.0	305	100.00	38.56	100 ft. cpld	1 ea.	3221-0087
1 1/2	38.1	2.08	52.8	200	1.38	10.0	254	12.0	305	123.75	48.19	125 ft. cpld	1 ea.	3221-0088
1 1/2	38.1	2.08	52.8	200	1.38	10.0	254	12.0	305	147.50	57.83	150 ft. cpld	1 ea.	3221-0089
1 1/2	38.1	2.08	52.8	200	1.38	10.0	254	12.0	305	171.25	67.47	175 ft. cpld	1 ea.	3221-0090
1 1/2	38.1	2.08	52.8	200	1.38	10.0	254	12.0	305	195.00	88.45	200 ft. cpld	1 ea.	3221-0095

**RECOMMENDED FOR:** Transferring fuel oils or commercial gasolines in applications at temperatures as low as -40°F (-40°C). Hose remains flexible to -20°F (-29°C). For home and commercial service where a non-marking cover is required.

**TEMPERATURE:** -40°F to +180°F (-29°C to +82°C) continuous service. NOTE: Gasoline is normally conveyed below 120°F (+49°C).

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black.  
**Reinforcement:** High tensile synthetic textile cord.  
**Cover:** Type C4 (Carboxylated Nitrile). Red. Non-marking.

**COUPLINGS:** 26 or 49. Reference the Hose Coupling Section.

**PACKAGING:** 1" through 1 3/8": Cut lengths: Packaged one each in a carton.  
1 1/2": Cut lengths: Packaged one length coiled and shrink wrapped on a pallet.

**BRANDING:** Continuous ink print label. Example: "GATES® FUEL OIL DELIVER/GASOLINE 1 1/2 INCH (38.1mm) 200 PSI (1.38MPa) WP MADE IN U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 25,000 feet for all sizes.

**REMNANT LENGTHS:** None.

**STANDARDS:** **Tube:** RMA (Class A) High oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Petroleum Transfer Hose**

**LP350 (Butane-Propane)**

(Specification 3220LP, 3320)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1 1/4	31.8	1.85	47.0	350	2.41	10.0	254	10.0	254	.89	.40	Reel	X	3220-0855
1 1/2	38.1	2.25	57.2	350	2.41	10.0	254	12.0	305	1.35	.61	60 ft.	X	3320-0935
2	50.8	2.86	72.6	350	2.41	10.0	254	14.0	356	2.01	.91	60 ft.	X	3320-0938
3	76.2	3.88	98.6	350	2.41	10.0	254	24.0	610	2.77	1.26	60 ft.	X	3320-0934

**RECOMMENDED FOR:** Liquid or gaseous propane, butane or any combination of these two mixtures. Can be used for natural gas (not to exceed 50 psi) under certain conditions such as: open/outside areas and well ventilated factory buildings (if local building codes permit). Not recommended for residential, office buildings or as fuel line hose on compressed natural gas vehicles. Contact Denver Product Application (303) 744-5070 for inspection and assembly testing information.

**TEMPERATURE:** -40°F to +180°F (-40°C to +82°C) continuous service. Warning: Do not convey LP Gas over 140°F (60°C).

**CONSTRUCTION:** **Tube:** Type A (Neoprene). 1 1/2", 2" and 3". Black.  
Type C (Nitrile) 1 1/4". Black.  
**Reinforcement:** Braided, high tensile synthetic textile cord.  
**Cover:** Type A (Neoprene). Black. All sizes are perforated.

**COUPLINGS:** 75 Gates GLX® only for 1/4" through 1". 72 Gates Power Crimp® only for 1 1/4", 1 1/2" and 2" I.D. For Power Crimp ferrules, reference the Hose Coupling Section. Do not use male swivel, reusable or o-ring type couplings. For 3" I.D. use Dixon LP Boss only.

**PACKAGING:** 1 1/4": Packaged in 270' to 330' reels. Maximum of 3 pieces. Minimum length 25'.  
1 1/2" through 3": Packaged 60' in a carton.

**BRANDING:** Continuous molded strip brand label. Example: "GATES® LP350 LP-Gas Hose 2 INCH DO NOT EXCEED 350 PSI WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 5,000 feet for 1 1/4" and 600 feet for 1 1/2" through 3". Any other size in specified lengths requires a minimum production order. For price, add 15% (x1.15) to price.

**REMNANT LENGTHS:** None.

**STANDARDS:** CAN/CGA-8.1-M86.  
NFPA 58, Section 2-4.6.  
Underwriters Laboratories Standard No. 21. (Applies to all sizes).

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Petroleum Transfer Hose**

**LP350X (Butane-Propane)**

(Specification 3220SP)

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	⚡	Suction	○	Min. Bend Radius	⚙️	Wt. Per Ft.	⚖️	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.58	14.7	350	2.41	30.0	762	3.0	76	.14	.06	Reel	X	3220-1200
1/4	6.4	.58	14.7	350	2.41	30.0	762	3.0	76	.14	.06	Bulk	3700 ft. (X)	3220-1201
3/8	9.5	.74	18.8	350	2.41	30.0	762	3.0	76	.21	.10	Reel	X	3220-1202
3/8	9.5	.74	18.8	350	2.41	30.0	762	3.0	76	.21	.10	Bulk	2000 ft. (X)	3220-1203
1/2	12.7	.91	23.1	350	2.41	25.0	635	5.0	127	.28	.13	Reel	X	3220-1204
1/2	12.7	.91	23.1	350	2.41	25.0	635	5.0	127	.28	.13	Bulk	1000 ft. (X)	3220-1205
3/4	19.1	1.23	31.2	350	2.41	20.0	508	6.0	152	.44	.20	Reel	X	3220-1206
3/4	19.1	1.23	31.2	350	2.41	20.0	508	6.0	152	.44	.20	100 ft.	X	3220-1207
3/4	19.1	1.23	31.2	350	2.41	20.0	508	6.0	152	.44	.20	125 ft.	X	3220-1208
3/4	19.1	1.23	31.2	350	2.41	20.0	508	6.0	152	.44	.20	150 ft.	X	3220-1209
1	25.4	1.51	38.4	350	2.41	15.0	381	8.0	203	.60	.27	Reel	X	3220-1210
1	25.4	1.51	38.4	350	2.41	15.0	381	8.0	203	.60	.27	100 ft.	X	3220-1211
1	25.4	1.51	38.4	350	2.41	15.0	381	8.0	203	.60	.27	125 ft.	X	3220-1212
1	25.4	1.51	38.4	350	2.41	15.0	381	8.0	203	.60	.27	150 ft.	X	3220-1213

**RECOMMENDED FOR:** Liquid or gaseous propane, butane or any combination of these two mixtures. Can be used for natural gas (not to exceed 50 psi) under certain conditions such as: open/outside areas and well ventilated factory buildings (if local building codes permit). Not recommended for residential, office buildings or as fuel line hose on compressed natural gas vehicles. Contact Denver Product Application (303) 744-5070 for inspection and assembly testing information.

**TEMPERATURE:** -40°F to +180°F (-40°C to +82°C) continuous service. Warning: Do not convey LP Gas over 140°F (60°C).

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black.  
**Reinforcement:** High tensile synthetic textile cord.  
**Cover:** Type A (Neoprene). Black. All sizes are perforated.

**COUPLINGS:** 75 Gates GLX®. Do not use male swivel, reusable or o-ring type couplings. Reference the Hose Coupling Section.

**PACKAGING:** 1/4" Bulk Pack: Packaged 3700' in a pallet carton. Maximum 10 pieces. Maximum of 6 pieces under 25'. Minimum length 10'.  
1/4" through 1/2": Packaged in 600' to 800' reels. Maximum 4 pieces. One length 25' to 50'. Maximum of 2 pieces under 100'.  
3/8" Bulk Pack: Packaged 2000' in a pallet carton. Maximum 10 pieces. Maximum of 6 pieces under 25'. Minimum length 10'.  
1/2" Bulk Pack: Packaged 1000' in a pallet carton. Maximum 10 pieces. All lengths in increments of 25'. Minimum length 25'.  
3/4" and 1" Cut lengths: Coiled in cartons.  
3/4" through 1": Packaged in 300' to 400' reels. Maximum 3 pieces. One length 25' to 50'. All other lengths over 50'. Maximum of 2 pieces under 100'.

**BRANDING:** Continuous molded strip brand label. Example: "GATES® LP350X UL/CGA TYPE 1 LP-Gas Hose 1 INCH DO NOT EXCEED 350 PSI WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 25,000 feet. 3/4" and 1" cut lengths are available as standard items as listed. Any other size in specified lengths requires a minimum production order. For price add 15% (x1.15) to reel price.

**REMNANT LENGTHS:** None.

**STANDARDS:** CAN/CGA-8.1-M86 Type 1.  
NFPA 58, Section 2-4.6.  
Underwriters Laboratories Standard No. 21. (Applies to all sizes).

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Petroleum Transfer Hose**

**LPG Vapor**  
(Specification 3220E)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/16	4.8	.44	11.2	125	.86	30.0	762	2.0	51	.08	.04	Reel	X	3220-0451
1/4	6.4	.53	13.5	125	.86	30.0	762	3.0	76	.11	.05	Reel	X	3220-0456
3/8	9.5	.66	16.8	125	.86	25.0	635	3.0	76	.14	.06	Reel	X	3220-0461

**RECOMMENDED FOR:** Flexible connector for conveying low pressure LPG (vapor only) to many types of farm and industrial heating applications; e.g., space heaters.

NOTE: This hose should not be used for liquid LPG or in UL approved appliances such as barbecue grills.

**TEMPERATURE:** -30°F to +150°F (-34°C to +66°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black.  
**Reinforcement:** High tensile synthetic textile cord.  
**Cover:** Type A (Neoprene). Black.

**PACKAGING:** 3/16" through 3/8": Packaged in 600' to 800' reels. Maximum 4 pieces. One length 25' to 50'. Maximum of 2 lengths under 100'.

**BRANDING:** Continuous ink print label. Example: "GATES® LPG Vapor 3/8 Inch (9.5mm) 125 PSI (.86MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 25,000 feet per size.

**REMNANT LENGTHS:** None.

**STANDARDS:** Underwriters Laboratories Standard No. 569. (Applies to hose assemblies only).

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Petroleum Transfer Hose**

**Blacksnake® (Curb Pump -  
Hardwall)**  
(Specification 3624)

Nom. I.D. (In.)	⊖ (mm)	Nom. O.D. (In.)	⊖ (mm)	Max. W.P. (psi)	⊕ (MPa)	Suction (In. Hg)	⊖ (mm Hg)	Min. Bend Radius (In.)	⊕ (mm)	Wt. Per Ft. (Lbs.)	⊕ (Kg)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
5/8	15.9	1.00	25.4	150	1.03	30.0	762	6.0	152	.37	.17	Reel	X	3624-0001
3/4	19.1	1.13	28.7	150	1.03	30.0	762	6.0	152	.42	.19	Reel	X	3624-0002
1	25.4	1.38	35.1	150	1.03	30.0	762	8.0	203	.57	.26	Reel	X	3624-0003

**RECOMMENDED FOR:** Dispensing all types of commercial gasolines, or other petroleum based products, from service station pumps. A heavy duty hardwall hose which does not collapse in reel use or behind the nozzle in heavy duty service.

**TEMPERATURE:** -40°F to +120°F (-40°C to +49°C) continuous service.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black.  
**Reinforcement:** Braided, high tensile steel wire.  
**Cover:** Type J (CPE). Black.

**COUPLINGS:** 24. Reference the Hose Coupling Section.

**PACKAGING:** 5/8" through 1": Packaged 500' per reel. Maximum 5 pieces. Minimum length 12'.

**BRANDING:** Continuous transfer label. Example: "GATES® BLACKSNAKE® 3/4 Inch (19.1mm) 1 wire braid (UL) Listed Gasoline Hose Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 5,000 feet per size.

**REMNANT LENGTHS:** None.

**STANDARDS:** Underwriters Laboratories Standard No. 330. (USA and Canada).  
**Tube:** RMA (Class A) High oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Pressure Washer**

**PowerClean™ - 1 Wire Braid**

(Specification 4657, KB, KG, KK, KY, PB, PG, PY)

**PowerClean™ 2500**

Color	Nom. I.D.	Nom. O.D.	Max. W.P.	Suction	Min. Bend Radius	Wt. Per Ft.	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
	(In.)								
Black	1/2	.80	2500	30.0	7.0	.28	Reel	X	4657-2408
Black	1/2	.80	2500	30.0	7.0	.28	Lg. Reel	5,000 ft.	4657-2412
Blue	1/2	.80	2500	30.0	7.0	.28	Reel	X	4657-2413
Gray	1/2	.80	2500	30.0	7.0	.28	Reel	5,000 ft.	4657-2414
Yellow	1/2	.80	2500	30.0	7.0	.28	Reel	X	4657-2415

**PowerClean™ 3000**

Color	Nom. I.D.	Nom. O.D.	Max. W.P.	Suction	Min. Bend Radius	Wt. Per Ft.	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
	(In.)								
Black	3/8	.68	3000	30.0	5.0	.23	Lg. Reel	X	4657-2401
Black	3/8	.68	3000	30.0	5.0	.23	Reel	X	4657-2402
Blue	3/8	.68	3000	30.0	5.0	.23	Lg. Reel	X	4657-2403
Blue	3/8	.68	3000	30.0	5.0	.23	Reel	X	4657-2404
Gray	3/8	.68	3000	30.0	5.0	.23	Reel	X	4657-2416
Yellow	3/8	.68	3000	30.0	5.0	.23	Reel	X	4657-2417

**PowerClean™ 3500**

Color	Nom. I.D.	Nom. O.D.	Max. W.P.	Suction	Min. Bend Radius	Wt. Per Ft.	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
	(In.)								
Black	1/4	.53	3500	30.0	4.0	.15	Reel	X	4657-2400
Black	1/4	.53	3500	30.0	4.0	.15	Lg. Reel	X	4657-2418
Blue	1/4	.53	3500	30.0	4.0	.15	Reel	X	4657-2419
Gray	1/4	.53	3500	30.0	4.0	.15	Reel	X	4657-2420
Yellow	1/4	.53	3500	30.0	4.0	.15	Reel	5,000 ft.	4657-2421

**PowerClean™ 4000**

Color	Nom. I.D.	Nom. O.D.	Max. W.P.	Suction	Min. Bend Radius	Wt. Per Ft.	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
	(In.)								
Black	3/8	.68	4000	30.0	5.0	.23	Reel	X	4657-2225
Black	3/8	.68	4000	30.0	5.0	.23	Lg. Reel	X	4657-2405
Blue	3/8	.68	4000	30.0	5.0	.25	Reel	X	4657-2422
Gray	3/8	.68	4000	30.0	5.0	.23	Reel	5,000 ft.	4657-2423
Yellow	3/8	.68	4000	30.0	5.0	.23	Reel	5,000 ft.	4657-2424

**RECOMMENDED FOR:** Heavy-duty use on hot and cold water high pressure cleaning equipment where heavy duty service is required. Flexible. Use Bend Restrictors to extend service life. NOTE: Not recommended for steam service.

**TEMPERATURE:** -40°F to +250°F (-40°C to +121°C). Laboratory tested for normal service. Increased operating temperatures will reduce hose assembly service life.

**CONSTRUCTION:** **Tube:** Type C (Nitrile). Black. Specially compounded to handle high pressure water service.

**Reinforcement:** High tensile steel one-wire braid.

**Cover:** Type C2 (Modified Nitrile). Black, Blue, Gray, Yellow. Specially compounded to handle pressure washer environment. (Blue, Gray and Yellow covers are non-marking).

**COUPLINGS:** 74 MegaCrimp® couplings. Reference the Hose Coupling Section.

**PACKAGING:** 1/4" through 1/2": Packaged in 1000' large reels. Any number of pieces. All lengths in 50' increments. Minimum length 50'.

1/4" through 1/2": Packaged in 300' reels. Any number of pieces. All lengths in 50' increments. Minimum length 50'.

**BRANDING:** Continuous ink brand. Example: "GATES® 3/8 Inch PowerClean™ 3000 Max WP 3000 PSI Not For Steam Service Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 5,000 feet per size.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Pressure Washer**

**PowerClean™ - 2 Wire Braid**

(Specification 4657F, XB, XG, XY)

**PowerClean™ 4000**

Color	Nom. I.D.	⊖ (mm)	Nom. O.D.	⊕ (mm)	Max. W.P.	⊕ (MPa)	Suction		Min. Bend Radius	⊕ (mm)	Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
	(In.)		(psi)		(In. Hg)		(mm Hg)	(Lbs.)			(Kg)				
Black	1/2	12.7	.86	21.8	4000	27.58	30.0	762	7.0	178	.42	.19	Lg. Reel	5,000 ft.	4657-2425
Black	1/2	12.7	.86	21.8	4000	27.58	30.0	762	7.0	178	.42	.19	Reel	X	4657-2426
Blue	1/2	12.7	.86	21.8	4000	27.58	30.0	762	7.0	178	.42	.19	Reel	5,000 ft.	4657-2409
Gray	1/2	12.7	.86	21.8	4000	27.58	30.0	762	7.0	178	.42	.19	Reel	5,000 ft.	4657-2427
Yellow	1/2	12.7	.86	21.8	4000	27.58	30.0	762	7.0	178	.42	.19	Reel	5,000 ft.	4657-2428

**PowerClean™ 5000**

Color	Nom. I.D.	⊖ (mm)	Nom. O.D.	⊕ (mm)	Max. W.P.	⊕ (MPa)	Suction		Min. Bend Radius	⊕ (mm)	Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
	(In.)		(psi)		(In. Hg)		(mm Hg)	(Lbs.)			(Kg)				
Black	3/8	9.5	.74	18.8	5000	34.47	30.0	762	5.0	127	.35	.16	Lg. Reel	X	4657-2406
Black	3/8	9.5	.74	18.8	5000	34.47	30.0	762	5.0	127	.35	.16	Reel	X	4657-2407
Blue	3/8	9.5	.74	18.8	5000	34.47	30.0	762	5.0	127	.35	.16	Reel	X	4657-2429
Gray	3/8	9.5	.74	18.8	5000	34.47	30.0	762	5.0	127	.35	.16	Reel	5,000 ft.	4657-2430
Yellow	3/8	9.5	.74	18.8	5000	34.47	30.0	762	5.0	127	.35	.16	Reel	5,000 ft.	4657-2431

**PowerClean™ 6000**

Color	Nom. I.D.	⊖ (mm)	Nom. O.D.	⊕ (mm)	Max. W.P.	⊕ (MPa)	Suction		Min. Bend Radius	⊕ (mm)	Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
	(In.)		(psi)		(In. Hg)		(mm Hg)	(Lbs.)			(Kg)				
Black	1/4	6.4	.59	15.0	6000	41.37	30.0	762	4.0	102	.25	.11	Reel	X	4657-2410

**RECOMMENDED FOR:** Heavy-duty use on hot and cold water high pressure cleaning equipment where heavy duty service is required. Flexible. Use Bend Restrictors to extend service life. NOTE: Not recommended for steam service.

**TEMPERATURE:** -40°F to +250°F (-40°C to +121°C). Laboratory tested for normal service. Increased operating temperatures will reduce hose assembly service life.

**CONSTRUCTION:**  
**Tube:** Type C (Nitrile). Black. Specially compounded to handle high pressure water service.  
**Reinforcement:** High tensile steel two-wire braid.  
**Cover:** Type C2 (Modified Nitrile). Black, Blue, Gray, Yellow. Specially compounded to handle pressure washer environment. (Blue, Gray and Yellow covers are non-marking).

**COUPLINGS:** 74 MegaCrimp® couplings. Reference the Hose Coupling Section.

**PACKAGING:** 1/4" through 1/2": Packaged in 300' reels. Any number of pieces. All lengths in 50' increments. Minimum length 50'.  
 3/8" and 1/2": Packaged in 1000' large reels. Any number of pieces. All lengths in 50' increments. Minimum length 50'.

**BRANDING:** Continuous ink brand. Example: "GATES® 3/8 Inch PowerClean™ 5000 Max WP 5000 PSI Not For Steam Service Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 5,000 feet per size.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Pressure Washer**

**Pressure Washer Assemblies**

(Specification 3603PW)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ea.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/4	6.4	.48	12.2	3000	20.68	30.0	762	4.0	102	5.50	2.50	50 ft.	5 ea. (X)	3604-0034
3/8	9.5	.63	16.0	3000	20.68	30.0	762	5.0	127	8.50	3.86	50 ft.	5 ea. (X)	3604-0035
3/8	9.5	.63	16.0	3000	20.68	30.0	762	5.0	127	8.50	3.86	100 ft.	50 ea.	3604-0071
1/2	12.7	.76	19.3	3000	20.68	30.0	762	7.0	178	11.50	5.22	50 ft.	5 ea. (X)	3604-0036

**RECOMMENDED FOR:** Standard duty use on hot and cold water high pressure cleaning equipment. Extremely flexible, lightweight and easy to handle. NOTE: Not recommended for steam service.

**TEMPERATURE:** -40°F to +250°F (-40°C to +121°C). Laboratory tested for normal service. Increased operating temperatures will reduce hose assembly service life.

**CONSTRUCTION:**  
**Tube:** Type C (Nitrile). Black. Specially compounded to handle high pressure water service.  
**Reinforcement:** High tensile steel one-wire braid.  
**Cover:** Type C2 (Modified Nitrile). Black. Specially compounded to handle pressure washer environment. Bend restrictors applied on each end.

**COUPLINGS:** Gates permanent couplings (MP/MPX). Factory coupled assemblies only.

**PACKAGING:**  
 1/4" x 50': Coiled in a carton, 5 assemblies per carton.  
 3/8" x 100': Coiled in a carton, 5 assemblies per carton.  
 3/8" x 50': Coiled in a carton, 5 assemblies per carton.  
 1/2" x 100': Coiled in a carton, 5 assemblies per carton.

**BRANDING:** Continuous ink brand. Example: "GATES® 3/8 Inch Pressure Washer Max 3000 PSI Not For Steam Service Made In Mexico"

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 5,000 feet per size.

**REMNANT LENGTHS:** None.





**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Pressure Washer**

**Cyclone®**  
(Specification 3217HY)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/8	9.5	.73	18.5	1000	6.90	30.0	762	4.0	102	.18	.08	100 ft.	X	3217-0584
3/8	9.5	.73	18.5	1000	6.90	30.0	762	4.0	102	.18	.08	Reel	X	3217-0585
1/2	12.7	.94	23.9	1000	6.90	30.0	762	5.0	127	.29	.13	Reel	X	3217-0586
1/2	12.7	.94	23.9	1000	6.90	30.0	762	5.0	127	.29	.13	100 ft.	5,000 ft.	3217-0587
3/4	19.1	1.20	30.5	1000	6.90	30.0	762	6.0	152	.41	.19	Reel	X	3217-0588

**RECOMMENDED FOR:** High-pressure washer operations using mild detergents in meat and poultry plants. Cover is resistant to weather, oil, animal fat, abrasion and heat encountered in packing plant cleaning applications. Air service working pressure is 300 psi for all sizes.

**TEMPERATURE:** -40°F to +212°F (-40°C to +100°C) continuous washdown service.

**CONSTRUCTION:**  
**Tube:** Type C2 (Modified Nitrile). Black.  
**Reinforcement:** Braided, synthetic high tensile cord.  
**Cover:** Type C2 (Modified Nitrile). Yellow. (Red, green and blue cover available on special order).

**COUPLINGS:** 75 Gates GLX®. Reference the Hose Coupling Section.

**PACKAGING:**  
 3/8" through 3/4": Packaged in 500' to 750' reels. Maximum 3 pieces. Minimum length 50'.  
 3/8" x 100': Packaged 500' in a pallet box. Each length coiled and tied.  
 1/2" x 100': Packaged 500' in a pallet box. Each length coiled and tied.

**BRANDING:** Continuous ink print label. Example: "GATES® Cyclone® Washdown 3/8 Inch (9.5mm) 1000 PSI (6.90MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Red, green and blue covers are made to order and require 5,000 feet orders per size/color. Contact Gates Corporation for pricing, order requirements and availability.  
 Special production runs require minimum order quantities of 5,000 feet per size. For special requirements contact Gates Corporation.

**REMNANT LENGTHS:** None.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Pressure Washer**

**Creamery/Paper Mill  
Washdown**

(Specification 3213B/3325T)

**Without Nozzle (3213B)**

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1/2	12.7	.91	23.1	200	1.38	25.0	635	5.0	127	.28	.13	Reel	X	3213-0401
3/4	19.1	1.25	31.8	200	1.38	15.0	381	6.0	152	.49	.22	50 ft.	X	3213-0413
3/4	19.1	1.25	31.8	200	1.38	15.0	381	6.0	152	.49	.22	Reel	X	3213-0501
1	25.4	1.52	38.6	200	1.38	15.0	381	8.0	203	.65	.30	Reel	25,000 ft.	3213-0415
1	25.4	1.52	38.6	200	1.38	15.0	381	8.0	203	.65	.30	50 ft.	X	3213-0416

**With Nozzle (3325T)**

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ea.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.25	31.8	150	1.03	25.0	635	6.0	152	27.50	12.47	50 ft.	1 ea. (X)	3213-0543
1	25.4	1.50	38.1	150	1.03	15.0	381	8.0	203	33.50	15.20	50 ft.	1 ea. (X)	3213-0544
1 1/4	31.8	1.75	44.5	150	1.03	15.0	381	10.0	254	39.50	17.92	50 ft.	1 ea. (X)	3213-0545

**RECOMMENDED FOR:**

CAUTION: NOT RECOMMENDED FOR USE WITH STEAM.

Cold and hot water up to 212°F (100°C) where steam is injected into the water. Used for paper mill, food handling or processing plant washdown service requiring hose with a non-marking cover.

**TEMPERATURE:**

-20°F to +180°F (-29°C to +82°C) continuous service. For nozzle only.  
-40°F to +212°F (-40°C to +100°C) continuous service.

**CONSTRUCTION:**

**Tube:** Type D (SBR). Black. For nozzle only.  
Type P (EPDM). Black.

**Reinforcement:** Braided, high tensile synthetic textile cord. For nozzle only.  
Synthetic, high tensile textile cord.

**Cover:** Type D (Natural Rubber). Gray with green stripe. For nozzle only.  
Type P (EPDM). White. All sizes are perforated on plain end hose only.

**COUPLINGS:**

1, 14, 15 or 75 Gates GLX® (For without nozzle only). Reference the Hose Coupling Section.

**PACKAGING:**

1/2": Packaged in 600' to 800' reels. Maximum 4 pieces. Minimum length 25'.  
3/4" and 1": Packaged in 300' to 400' reels. Maximum 3 pieces. One length 25' to 50'. Maximum of 2 lengths under 100'.  
50' lengths (with nozzle): Packaged each length coiled and wrapped in polyethylene.  
50' lengths (without nozzle): Packaged 50' coiled in a carton.

**BRANDING:**

Continuous ink print label. Example: "GATES® WASHDOWN 3/4 INCH (19.1mm) 200 PSI (1.38MPa) WP MADE IN U.S.A."  
Continuous transfer label. Example: "GATES® WASHDOWN 3/4 INCH (19.1mm) 150 PSI (1.03MPa) WP MADE IN MEXICO"

**SPECIAL ORDER REQUIREMENTS:**

Special production runs require minimum order quantities of 25,000 feet for plain end hose and 600 feet for 3/4" through 1 1/4" with nozzle.

**REMNANT LENGTHS:**

None.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**205MB Steam King®**  
(Specification 3605)

**Steam Hose**

**Smooth Cover**

Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	⊕	Suction	⊕	Min. Bend Radius	⊕	Wt. Per Ft.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/8	9.5	.78	19.8	250	1.72	30.0	762	4.0	102	.26	.12	50 ft.	250 ft. (X)	3605-0650
3/8	9.5	.78	19.8	250	1.72	30.0	762	4.0	102	.26	.12	Reel	X	3605-0652
1/2	12.7	1.06	26.9	250	1.72	25.0	635	7.0	178	.40	.18	50 ft.	200 ft. (X)	3605-0655
1/2	12.7	1.06	26.9	250	1.72	25.0	635	7.0	178	.40	.18	Reel	X	3605-0672
1/2	12.7	1.06	26.9	250	1.72	25.0	635	7.0	178	.40	.18	50 ft.-BP**	1,500 ft. (X)	3605-0677
3/4	19.1	1.28	32.5	250	1.72	20.0	508	9.0	229	.49	.22	50 ft.	150 ft. (X)	3605-0664
3/4	19.1	1.28	32.5	250	1.72	20.0	508	9.0	229	.49	.22	Reel	X	3605-0678
3/4	19.1	1.28	32.5	250	1.72	20.0	508	9.0	229	.49	.22	50 ft.-BP**	1,000 ft. (X)	3605-0679
1	25.4	1.63	41.4	250	1.72	20.0	508	11.0	279	.78	.35	Reel	X	3605-0668

**Wrapped Cover**

Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	⊕	Suction	⊕	Min. Bend Radius	⊕	Wt. Per Ft.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.27	32.3	250	1.72	20.0	508	9.0	229	.57	.26	50 ft.	100 ft. (X)	3605-0901
1	25.4	1.52	38.6	250	1.72	20.0	508	11.0	279	.70	.32	50 ft.	200 ft. (X)	3605-0665
1	25.4	1.52	38.6	250	1.72	20.0	508	11.0	279	.70	.32	50 ft.-BP**	600 ft. (X)	3605-0669
1 1/4	31.8	1.81	46.0	250	1.72	20.0	508	16.0	406	.90	.41	50 ft.	100 ft. (X)	3605-0671
1 1/2	38.1	2.14	54.4	250	1.72	10.0	254	20.0	508	1.21	.55	50 ft.	X	3605-0676
2	50.8	2.66	67.6	250	1.72	10.0	254	25.0	635	1.57	.71	50 ft.	X	3605-0681

**205MB Assemblies Wrapped Cover**

Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	⊕	Suction	⊕	Min. Bend Radius	⊕	Wt. Per Ea.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.27	32.3	250	1.72	20.0	508	9.0	229	31.90	14.47	50 ft. F/F	1 ea. (X)	3605-0736
3/4	19.1	1.27	32.3	250	1.72	20.0	508	9.0	229	30.90	14.02	50 ft. F/M	1 ea. (X)	3605-0737
3/4	19.1	1.27	32.3	250	1.72	20.0	508	9.0	229	29.90	13.56	50 ft. M/M	1 ea. (X)	3605-0738

**RECOMMENDED FOR:** NOTE: DO NOT ALTERNATE USE BETWEEN STEAM AND WATER.

**TEMPERATURE:** -40°F to +450°F (-40°C to +232°C) continuous service.

**CONSTRUCTION:** **Tube:** Type P2 (EPDM). Black.  
**Reinforcement:** Braided, high tensile steel wire.  
**Cover:** Type P2 (EPDM). Black. All sizes are perforated.

**COUPLINGS:** 14, 15, or 76 only. Reference the Hose Coupling Section.

**PACKAGING:** \*\*BP - Bulk Pack, 50' coiled and tied in a pallet carton: 1/2" - 1,500'; 3/4" - 1,000'; 1" - 600'.  
3/8" x 50': Packaged 250' per carton, each length coiled and tied.  
3/8": Packaged in 200' to 300' reels. Maximum of 3 pieces. Minimum length 25'. One length under 100'.  
1/2" x 50': Packaged 200' per carton, each length coiled and tied.  
3/4" x 50" coupled assy: Coiled in carton, one assembly per carton.  
3/4" x 50': Packaged 100' or 150' per carton, each length coiled and tied.  
1" x 50': Packaged 200' per carton, each length coiled and tied.  
1 1/4" x 50': Packaged 100' per carton, each length coiled and tied.  
1 1/2" and 2" x 50': Packaged 50' per carton, each length coiled and tied.  
1/2", 3/4" and 1": Packaged in 500' reels. Maximum of 3 pieces. All lengths in 50' increments.

**BRANDING:** Continuous molded brand. Example: "GATES® 205MB STEAM KING® 3/4 INCH 2 WIRE BRAID 250 PSI WP AT 450°F MADE IN U.S.A. CAUTION: TIGHTEN CLAMPS BEFORE USING."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 5,000 feet.

**REMNANT LENGTHS:** None.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Steam Hose**

**232MB Steam Queen®**  
(Specification 3602EL)

Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	⊕	Suction	⊖	Min. Bend Radius	⊕	Wt. Per Ft.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/8	9.5	.80	20.3	250	1.72	30.0	762	4.0	102	.30	.14	50 ft.	X	3602-1051
3/8	9.5	.80	20.3	250	1.72	30.0	762	4.0	102	.30	.14	Reel	X	3602-1061
1/2	12.7	1.02	25.9	250	1.72	25.0	635	7.0	178	.45	.20	50 ft.	X	3602-1052
1/2	12.7	1.02	25.9	250	1.72	25.0	635	7.0	178	.45	.20	Reel	X	3602-1062
3/4	19.1	1.27	32.3	250	1.72	20.0	508	9.0	229	.60	.27	50 ft.	X	3602-1055
3/4	19.1	1.27	32.3	250	1.72	20.0	508	9.0	229	.60	.27	Reel	X	3602-1065
1	25.4	1.52	38.6	250	1.72	20.0	508	11.0	279	.73	.33	50 ft.	X	3602-1057
1 1/2	38.1	2.18	55.4	250	1.72	10.0	254	20.0	508	1.24	.56	50 ft.	X	3602-1059
2	50.8	2.66	67.6	250	1.72	10.0	254	25.0	635	1.64	.74	50 ft.	X	3602-1060

**232MB Assemblies Wrapped Cover**

Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	⊕	Suction	⊖	Min. Bend Radius	⊕	Wt. Per Ea.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
3/4	19.1	1.27	32.3	250	1.72	20.0	508	9.0	229	33.40	15.15	50 ft. F/F	1 ea. (X)	3602-0002
3/4	19.1	1.27	32.3	250	1.72	20.0	508	9.0	229	32.40	14.70	50 ft. F/M	1 ea. (X)	3602-0003
3/4	19.1	1.27	32.3	250	1.72	20.0	508	9.0	229	31.40	14.24	50 ft. M/M	1 ea. (X)	3602-0004

**RECOMMENDED FOR:** All types of steam - saturated and superheated - up to 250 PSI and +450°F (+232°C).  
**NOTE:** DO NOT ALTERNATE USE BETWEEN STEAM AND WATER.

**TEMPERATURE:** -40°F to +450°F (-40°C to +232°C) continuous service.

**CONSTRUCTION:** **Tube:** Type P2 (EPDM). Black.  
**Reinforcement:** Braided, high tensile steel wire.  
**Cover:** Type B1 (Special compound designed to withstand heat and oil). Red. All sizes are perforated.

**COUPLINGS:** 14, 15, or 76 only. Reference the Hose Coupling Section.

**PACKAGING:** 3/8" through 3/4": Packaged in 200' to 300' reels. Maximum of 3 pieces. Minimum length 25'. One length under 100'.  
3/4" x 50" coupled assy: Coiled in carton, one assembly per carton.  
50' lengths: Coiled in a carton.

**BRANDING:** Continuous molded brand. Example: "GATES® 232MB STEAM QUEEN® 3/4 INCH 2 WIRE BRAID 250 PSI WP AT 450°F MADE IN U.S.A. (assemblies only)  
Continuous molded brand. Example: "GATES® 232MB STEAM QUEEN® 3/4 INCH 2 WIRE BRAID 250 PSI WP AT 450°F MADE IN U.S.A. CAUTION: TIGHTEN CLAMPS BEFORE USING."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 5,000 feet for sizes less than 1 1/2" and 600 feet for 1 1/2" and larger.

**REMNANT LENGTHS:** None.

**STANDARDS:** **Cover:** RMA (Class C) Limited oil resistance.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



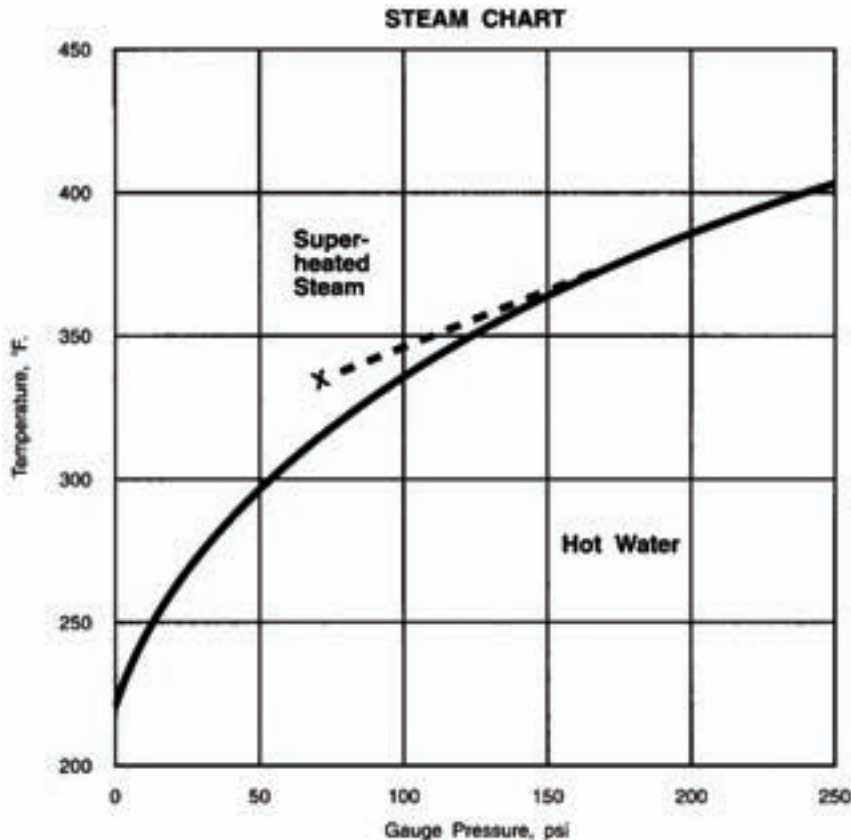
## Steam and Its Effect on Hose

Water can exist in three different basic states — solid, liquid or gas — and there are three different conditions of the gas (steam). Which particular condition exists is dictated by the pressure and temperature existing.

These conditions are:

- Wet Saturated Steam or “Wet Steam”**
- Dry Saturated Steam**
- Superheated Steam or “Dry Steam”**

By way of explanation, refer to the steam chart. The heavy black line is the boiling point of water at various gauge pressures. Any point on this line represents saturated steam. Saturated steam may be completely free of unvaporized water particles, or it may carry such particles. In other words, saturated steam may be “Dry” or “Wet.” Any point below the line represents Hot Water — any point above the line represents Superheated Steam.



The dotted line shows the process of saturated steam being transformed into superheated steam. If a steam line is at a pressure of 150 psi, and a temperature of 366°F., it contains saturated steam. If the pressure is substantially reduced by the expansion of the steam (such as the sudden opening of a valve or the steam passing into a larger pipe or hose), the condition of the steam follows the dotted line to some point X in the superheated steam area. This condition may not last very long, but the superheated steam tends to deteriorate the tube stock in ordinary steam hose intended for use with saturated steam. This usually results in hose failure.



# How to Select The Correct Steam Hose Assembly

1. **Determine Required Hose Size**  
The hose size required is usually fixed by size of fittings or pipe to which the hose is to be connected. It is important that you **do not select** a hose with inside diameter **larger** than the diameter of the preceding pipe.
2. **Find Actual Rated Working Pressure and Temperature**  
Take pressure and temperature readings just ahead of the hose connection.
3. **Determine Condition of Steam (Saturated or Superheated)**  
Locate the actual Rated Working Pressure and Temperature on the steam chart on previous page. Any point on the heavy line is saturated steam.
4. **Select the Correct Hose**  
From the table at right, select the hose that fulfills the requirements of both the condition of the team and the Rated Working Pressure.
5. **Determine Length Required**  
Length required is almost always dictated by the application.
6. **Select Couplings Required**  
Gates recommends interlocking\* and permanent crimped types of couplings for steam hose applications. These are identified as:
  - 14 Interlocking, ground joint
  - 15 Interlocking, washer joint
  - 76 Permanent Crimped Steam Hose Couplings
7. **Maintenance and Inspection**  
For proper maintenance and inspection of interlocking and permanent crimped steam hose assemblies, refer to RMA IP-11-1.

NOTE: When electrical continuity is required, ground the wire braid in the hose to couplings with aluminum, copper or stainless steel staples.

**STEAM HOSE TABLE**

Hose Type	Recommended Service		
	Rated Working Pressure (psi)	Working Temperature (°F)	Type of Steam
232MB Steam Queen®	250	450	Saturated or Superheated
205MB Steam King®	250	450	Saturated or Superheated

**Properties of Saturated Steam**  
(Abridged from Handbook of Chemistry and Physics – 39<sup>th</sup> Edition.)

Gauge Pressure (psi)	*Temperature of Saturated Steam (°F)	Gauge Pressure (psi)	*Temperature of Saturated Steam (°F)	Gauge Pressure (psi)	*Temperature of Saturated Steam (°F)
10	239	110	344	200	388
25	267	115	347	205	390
30	274	120	350	210	392
35	281	125	353	215	394
40	287	130	356	220	395
45	292	135	358	225	397
50	298	140	361	230	399
55	303	145	363	235	401
60	307	150	366	240	403
65	312	155	368	245	404
70	316	160	371	250	406
75	320	165	373	255	408
80	324	170	375	260	409
85	328	175	377	265	411
90	331	180	380	270	413
95	335	185	382	275	414
100	338	190	384		
105	341	195	386		

\*Based on an atmosphere pressure of 14.7 psi.

**IMPORTANT: Steam can be dangerous material. Play it safe – stay within the limits of published recommendations!**

**Do Not Alternate Use Between Steam and Water**



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Water Hose**

**Shark®**  
(Specification 4686AR/4686DC)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.45	36.8	150	1.03	30.0	762	5.0	127	.53	.24	100 ft.	X	4686-0701
1 1/4	31.8	1.71	43.4	150	1.03	30.0	762	6.0	152	.68	.31	100 ft.	X	4686-0702
1 1/2	38.1	1.96	49.8	150	1.03	30.0	762	8.0	203	.79	.36	100 ft.	X	4686-0703
2	50.8	2.46	62.5	150	1.03	30.0	762	10.0	254	1.01	.46	100 ft.	X	4686-0704
2	50.8	2.46	62.5	150	1.03	30.0	762	10.0	254	1.01	.46	200 ft.	400 ft.	4686-0710
2 1/2	63.5	3.02	76.7	150	1.03	30.0	762	12.0	305	1.46	.66	100 ft.	X	4686-0705
3	76.2	3.58	90.9	150	1.03	30.0	762	15.0	381	2.01	.91	100 ft.	X	4686-0706
4	101.6	4.58	116.3	150	1.03	30.0	762	20.0	508	2.62	1.19	100 ft.	X	4686-0707
5	127.0	5.60	142.2	100	.69	30.0	762	25.0	635	3.89	1.76	100 ft.	X	4686-0708
6	152.4	6.65	168.9	100	.69	30.0	762	30.0	762	4.84	2.20	100 ft.	X	4686-0709
6	152.4	6.65	168.9	100	.69	30.0	762	30.0	762	4.84	2.20	20 ft.	X	4686-0711
6	152.4	6.65	168.9	100	.69	30.0	762	30.0	762	4.84	2.20	25 ft.	X	4686-0712

**RECOMMENDED FOR:** Suction hose used to convey water, detergents, phosphate ester hydraulic fluids and dilute solutions of acids, alkalies and glycols.

**TEMPERATURE:** -40°F to +180°F (-40°C to +82°C) continuous service.

**CONSTRUCTION:** **Tube:** Type P (EPDM). Black.  
**Reinforcement:** Synthetic, high tensile textile with steel wire helix.  
**Cover:** Type D (SBR). Black with green spiral stripe.

**COUPLINGS:** 6, 7, 49 or 78. Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Shark® Water Suction/Discharge 150 PSI (1.03MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for sizes through 4" and 200 feet for sizes above 4". If a special transfer label is required, contact Gates Corporation for minimum quantity. Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Water Hose**

**Barracuda®**  
(Specification 4686AT)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.33	33.8	150	1.03	30.0	762	5.0	127	.39	.18	100 ft.	400 ft.	4686-0199
1 1/4	31.8	1.61	40.9	150	1.03	30.0	762	5.0	127	.51	.23	100 ft.	X	4686-0203
1 1/2	38.1	1.86	47.2	150	1.03	30.0	762	6.0	152	.60	.27	100 ft.	X	4686-0204
1 1/2	38.1	1.86	47.2	150	1.03	30.0	762	6.0	152	.60	.27	200 ft.	400 ft.	4686-0237
2	50.8	2.36	59.9	150	1.03	30.0	762	8.0	203	.76	.35	100 ft.	X	4686-0200
2	50.8	2.36	59.9	150	1.03	30.0	762	8.0	203	.76	.35	200 ft.	400 ft.	4686-0235
2 1/2	63.5	2.96	75.2	150	1.03	30.0	762	10.0	254	1.06	.48	100 ft.	X	4686-0205
2 1/2	63.5	2.96	75.2	150	1.03	30.0	762	10.0	254	1.06	.48	200 ft.	400 ft.	4686-0250
3	76.2	3.54	89.9	150	1.03	30.0	762	14.0	356	1.74	.79	100 ft.	X	4686-0201
3	76.2	3.54	89.9	150	1.03	30.0	762	14.0	356	1.74	.79	200 ft.	400 ft.	4686-0236
4	101.6	4.54	115.3	150	1.03	30.0	762	18.0	457	2.25	1.02	100 ft.	X	4686-0202
4	101.6	4.54	115.3	150	1.03	30.0	762	18.0	457	2.25	1.02	200 ft.	400 ft.	4686-0208
6	152.0	6.68	170.0	100	.69	30.0	762	28.0	711	3.94	1.79	25 ft.	X	4686-0206
6	152.0	6.68	170.0	100	.69	30.0	762	28.0	711	3.94	1.79	20 ft.	X	4686-0207
6	152.0	6.68	170.0	100	.69	30.0	762	28.0	711	3.94	1.79	200 ft.	400 ft.	4686-0234
8	203.2	9.00	228.6	100	.69	30.0	762	40.0	1016	8.81	4.00	25 ft.	X	4686-0209
10	254.0	11.27	286.3	100	.69	30.0	762	50.0	1270	15.80	7.17	25 ft.	X	4686-0210
12	304.8	13.27	337.1	100	.69	30.0	762	60.0	1524	18.63	8.45	25 ft.	X	4686-0211

**RECOMMENDED FOR:** Medium to light duty water suction/discharge for agricultural, construction and industrial applications. EPDM tube designed to handle a variety of liquids including Lasso\*, Lasso II\* and Freedom\*. Recommended for sanitation liner in marine applications.

**TEMPERATURE:** -32°F to +200°F (-36°C to +93°C). For 8" through 12" sizes.  
-40°F to +180°F (-40°C to +82°C). For 1" through 6" sizes.

**CONSTRUCTION:** **Tube:** Type P (EPDM). Black.  
**Reinforcement:** Synthetic, high tensile textile with steel wire helix.  
**Cover:** Type P (EPDM). Black with green spiral stripe.

**COUPLINGS:** 5, 6, 7, 8, 49 or 78 all sizes. Reference the Hose Coupling Section.

**PACKAGING:** 1" through 6": Packaged with each length coiled and wrapped in polyethylene.  
8" through 12": Packaged with each length placed in nylon woven fabric.

**BRANDING:** Continuous transfer label. Example: "GATES® Barracuda® Water Suction/Discharge 150 PSI (1.03MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for sizes through 4" I.D. and 200 feet for sizes above 4" I.D. If a special transfer label is required, contact Gates Corporation for minimum quantity. Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

\*Lasso®, Lasso II® and Freedom® are Registered Trademarks of Monsanto.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Water Hose**

**Steelhead®**  
(Specification 3135SP)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1 1/2	38.1	1.98	50.3	150	1.03	—	—	12.0	305	.70	.32	100 ft.	X	3135-2651
1 5/8	41.3	2.10	53.3	150	1.03	—	—	15.0	381	.74	.34	100 ft.	400 ft.	3135-2652
1 7/8	47.6	2.35	59.7	150	1.03	—	—	15.0	381	.88	.40	100 ft.	400 ft.	3135-2653
2	50.8	2.48	63.5	150	1.03	—	—	20.0	508	.93	.42	100 ft.	X	3135-2654
2 1/2	63.5	2.99	76.0	150	1.03	—	—	25.0	635	1.14	.52	100 ft.	X	3135-2655
3	76.2	3.49	88.7	150	1.03	—	—	36.0	914	1.35	.61	100 ft.	X	3135-2656
3	76.2	3.49	88.7	150	1.03	—	—	36.0	914	1.64	.74	200 ft.	400 ft.	3135-2661
3 1/2	88.9	3.99	101.4	150	1.03	—	—	42.0	1067	1.35	.74	100 ft.	400 ft.	3135-2657
4	101.6	4.49	114.1	150	1.03	—	—	48.0	1219	1.85	.84	100 ft.	X	3135-2658
4 1/2	114.3	5.01	127.3	150	1.03	—	—	54.0	1372	2.16	.98	100 ft.	X	3135-2659
6	152.4	6.51	165.4	150	1.03	—	—	72.0	1829	2.84	1.29	100 ft.	X	3135-2660

- RECOMMENDED FOR:** Water discharge in heavy duty industrial applications.
- TEMPERATURE:** -40°F to +150°F (-40°C to +66°C) continuous service.
- CONSTRUCTION:** **Tube:** Type D (SBR). Black.  
**Reinforcement:** Multiple plies of synthetic, high tensile textile.  
**Cover:** Type D (SBR). Black with green spiral stripe.
- COUPLINGS:** 1, 3, 5, 7, 49 or 78. Reference the Hose Coupling Section.
- PACKAGING:** 100' coiled and wrapped in polyethylene.
- BRANDING:** Continuous transfer label. Example: "GATES® Steelhead® HD Water Discharge 150 PSI (1.03MPa) WP Made In U.S.A."
- SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for sizes through 4" and 200 feet for sizes above 4". If a special transfer label is required, contact Gates Corporation for minimum quantity.
- REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Water Hose**

**Marlin®**  
(Specification 3137M)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1 1/2	38.1	1.82	46.2	150	1.03	—	—	12.0	305	.47	.21	100 ft.	X	3137-0370
1 1/2	38.1	1.90	48.3	150	1.03	—	—	12.0	305	.63	.29	100 ft.	X	3137-0371
2	50.8	2.33	59.2	150	1.03	—	—	20.0	508	.65	.30	100 ft.	X	3137-0372
2	50.8	2.41	61.2	150	1.03	—	—	20.0	508	.84	.38	100 ft.	X	3137-0373
2 1/2	63.5	2.83	71.9	150	1.03	—	—	25.0	635	1.02	.36	100 ft.	400 ft.	3137-0374
2 1/2	63.5	2.91	73.9	150	1.03	—	—	25.0	635	1.02	.46	100 ft.	X	3137-0375
3	76.2	3.33	84.6	150	1.03	—	—	36.0	914	1.21	.43	100 ft.	X	3137-0376
3	76.2	3.41	86.6	150	1.03	—	—	36.0	914	1.21	.55	100 ft.	X	3137-0377
3 1/2	88.9	3.91	99.3	150	1.03	—	—	42.0	1067	1.47	.67	100 ft.	X	3137-0378
4	101.6	4.33	110.0	150	1.03	—	—	48.0	1219	1.32	.60	100 ft.	X	3137-0379
4	101.6	4.41	112.0	150	1.03	—	—	48.0	1219	1.67	.76	100 ft.	X	3137-0380
4	101.6	4.33	110.0	150	1.03	—	—	48.0	1219	1.32	.60	200 ft.	400 ft.	3137-1272
5	127.0	5.44	138.2	150	1.03	—	—	60.0	1524	2.17	.98	100 ft.	X	3137-0381
6	152.4	6.40	162.6	150	1.03	—	—	72.0	1829	2.32	1.05	100 ft.	X	3137-0382
6	152.4	6.49	164.9	150	1.03	—	—	72.0	1829	2.96	1.34	100 ft.	X	3137-0383

**RECOMMENDED FOR:** Water discharge in heavy duty service requiring a compact, rugged and lightweight hose.

**TEMPERATURE:** -40°F to +180°F (-40°C to +82°C) continuous service.

**CONSTRUCTION:** **Tube:** Type P (EPDM). Black.  
**Reinforcement:** Multiple plies of synthetic, high tensile textile.  
**Cover:** Type D (SBR). Black with green spiral stripe.

**COUPLINGS:** 1, 3, 5, 7, 49 or 78. Reference the Hose Coupling Section.

**PACKAGING:** 100' coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Marlin® Water Discharge 150 PSI (1.03MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for sizes through 4" and 200 feet for sizes above 4". If a special transfer label is required, contact Gates Corporation for minimum quantity. Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Water Hose**

**Dolphin®**  
(Specification 3137T)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1 1/4	31.8	1.53	38.9	150	1.03	—	—	—	—	.37	.17	100 ft.	X	3137-0884
1 1/2	38.1	1.78	45.2	150	1.03	—	—	—	—	.43	.20	100 ft.	X	3137-0883
1 1/2	38.1	1.78	45.2	150	1.03	—	—	—	—	.43	.20	200 ft.	400 ft.	3137-0898
2	50.8	2.32	58.9	150	1.03	—	—	—	—	.65	.30	100 ft.	X	3137-0885
2	50.8	2.32	58.9	150	1.03	—	—	—	—	.65	.30	200 ft.	400 ft.	3137-0905
2 1/2	63.5	2.82	71.6	150	1.03	—	—	—	—	.80	.36	100 ft.	X	3137-0888
3	76.2	3.36	85.3	150	1.03	—	—	—	—	1.08	.49	100 ft.	X	3137-0886
3	76.2	3.36	85.3	150	1.03	—	—	—	—	1.08	.49	200 ft.	400 ft.	3137-0895
4	101.6	4.36	111.7	150	1.03	—	—	—	—	1.41	.64	100 ft.	X	3137-0889
4	101.6	4.36	111.7	150	1.03	—	—	—	—	1.41	.64	200 ft.	400 ft.	3137-0896
6	152.4	6.38	162.1	125	.86	—	—	—	—	2.09	.95	100 ft.	X	3137-0890
6	152.4	6.38	162.1	125	.86	—	—	—	—	2.09	.95	200 ft.	400 ft.	3137-0892

**RECOMMENDED FOR:** Medium to light duty water discharge for agricultural, construction and industrial applications. EPDM tube designed to handle a variety of liquids including Lasso\*, Lasso II\* and Freedom\*.

**TEMPERATURE:** -40°F to +180°F (-40°C to +82°C).

**CONSTRUCTION:** **Tube:** Type P (EPDM). Black.  
**Reinforcement:** Synthetic, high tensile textile.  
**Cover:** Type P (EPDM). Black with green spiral stripe.

**COUPLINGS:** 5, 6, 7, 8, 49 or 78 all sizes. Reference the Hose Coupling Section.  
NOTE: 3:1 Safety Factor for Burst Pressure to Working Pressure is reduced when the temperature increases.

**PACKAGING:** 100' length coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Dolphin® Water Discharge 150 PSI (1.03MPa) WP Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 400 feet for sizes through 4" I.D. and 200 feet for sizes above 4" I.D. If a special transfer label is required, contact Gates Corporation for minimum quantity. Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

**REMNANT LENGTHS:** Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

\*Lasso®, Lasso II® and Freedom® are Registered Trademarks of Monsanto.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Water Hose**

**Master-Flex® 500**  
(Specification 7744)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1 1/2	38.1	1.67	42.4	75	.52	—	—	—	—	.17	.08	300 ft.	X	7744-1001
2	50.8	2.16	54.9	65	.45	—	—	—	—	.21	.10	300 ft.	X	7744-1002
2 1/2	63.5	2.55	64.8	60	.41	—	—	—	—	.28	.13	300 ft.	X	7744-1003
3	76.2	3.17	80.5	60	.41	—	—	—	—	.39	.18	300 ft.	X	7744-1004
4	101.6	4.20	106.7	60	.41	—	—	—	—	.53	.24	300 ft.	X	7744-1005
6	152.4	6.20	157.5	45	.31	—	—	—	—	.88	.40	300 ft.	X	7744-1006
8	203.2	8.16	207.3	45	.31	—	—	—	—	1.27	.58	300 ft.	X	7744-1007

**RECOMMENDED FOR:** General lay flat water discharge service. Excellent for job sites in construction, irrigation and areas where a lightweight, flexible hose is required.

**TEMPERATURE:** +25°F to +120°F (-4°C to +49°C) continuous service.

**CONSTRUCTION:** **Tube:** Type G (PVC). Blue with yellow identification.  
**Reinforcement:** Synthetic, high tensile textile.  
**Cover:** Type G (PVC). Blue. Smooth.

**COUPLINGS:** 5, 6, 7 or 49. One band for 1 1/2". Two bands for 2" I.D. and larger. Reference the Hose Coupling Section.

**PACKAGING:** 300' length coiled in polyethylene and banded, one length.

**BRANDING:** Ink stamp every 5 ft. with I.D. only.

**SPECIAL ORDER REQUIREMENTS:** None.

**REMNANT LENGTHS:** None.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



**Master-Flex® 100GR**  
(Specification 7744)

**Water Hose**

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.27	32.3	90	.62	28.0	711	3.0	76	.27	.12	100 ft.	X	7744-3101
1 1/4	31.8	1.53	38.9	90	.62	28.0	711	4.0	102	.36	.16	100 ft.	X	7744-3102
1 1/2	38.1	1.82	46.2	90	.62	28.0	711	5.0	127	.47	.21	100 ft.	X	7744-3103
2	50.8	2.36	59.9	70	.48	28.0	711	6.0	152	.66	.30	100 ft.	X	7744-3104
2 1/2	63.5	2.90	73.7	65	.45	28.0	711	8.0	203	.92	.42	100 ft.	X	7744-3105
3	76.2	3.44	87.4	60	.41	28.0	711	9.0	229	1.20	.54	100 ft.	X	7744-3106
4	101.6	4.52	114.8	50	.34	28.0	711	13.0	330	1.87	.86	100 ft.	X	7744-3107
5	127.0	5.65	143.5	45	.31	28.0	711	21.0	533	3.08	1.40	100 ft.	1,000 ft.	7744-3108
6	152.4	6.80	172.7	45	.31	28.0	711	24.0	610	4.56	2.07	100 ft.	X	7744-3109

\*Working Pressure and Suction at +72°F (+22°C).

**RECOMMENDED FOR:** Conveying water and light chemical solutions under suction or rated discharge pressure.

**TEMPERATURE:** -10°F to +130°F (-23°C to +55°C) continuous service.

**CONSTRUCTION:** **Tube:** Type G (PVC). Green.  
**Reinforcement:** Rigid thermoplastic helix. White.  
**Cover:** Type G (PVC). Green. Smooth.

**COUPLINGS:** 1, 6, 7, 49 or 78 all sizes. Reference the Hose Coupling Section.

**PACKAGING:** All lengths coiled and wrapped in polyethylene.

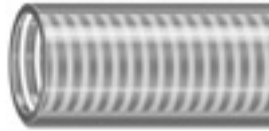
**BRANDING:** Unlabeled.

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 1,000 feet per size. No deviations allowed to above product.

**REMNANT LENGTHS:** None.



**Industrial Hose  
Products**



39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

**Water Hose**

**Master-Flex® 101CL**  
(Specification 7744)

**Smooth Cover**

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	⊖	Suction	⊖	Min. Bend Radius	⊖	Wt. Per Ft.	⊖	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(in.)	(mm)	(in.)	(mm)	(psi)	(MPa)	(in. Hg)	(mm Hg)	(in.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.27	32.3	90	.62	28.0	711	3.0	76	.27	.12	100 ft.	X	7744-2101
1 1/4	31.8	1.53	38.9	90	.62	28.0	711	4.0	102	.34	.15	100 ft.	X	7744-2102
1 1/2	38.1	1.82	46.2	90	.62	28.0	711	5.0	127	.47	.21	100 ft.	X	7744-2103
2	50.8	2.36	60.0	70	.48	28.0	711	6.0	152	.66	.30	100 ft.	X	7744-2104
2 1/2	63.5	2.90	73.7	65	.45	28.0	711	8.0	203	.92	.42	100 ft.	X	7744-2105
3	76.2	3.44	87.4	55	.38	28.0	711	9.0	229	1.20	.54	100 ft.	X	7744-2106
4	101.6	4.52	114.8	50	.34	28.0	711	13.0	330	1.87	.85	100 ft.	X	7744-2107
5	127.0	5.65	143.5	45	.31	28.0	711	21.0	533	3.00	1.36	100 ft.	1,000 ft.	7744-2108
6	152.4	6.80	172.7	45	.31	28.0	711	24.0	610	4.42	2.00	100 ft.	X	7744-2109

\*Working Pressure and Suction at +72°F (+22°C).

**Corrugated Cover**

Nom. I.D.	⊖	Nom. O.D.	⊖	Max. W.P.	⊖	Suction	⊖	Min. Bend Radius	⊖	Wt. Per Ft.	⊖	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(in.)	(mm)	(in.)	(mm)	(psi)	(MPa)	(in. Hg)	(mm Hg)	(in.)	(mm)	(Lbs.)	(Kg)			
1	25.4	1.26	32.0	35	.24	28.0	711	2.0	51	.14	.06	100 ft.	X	7744-0000
1 1/4	31.8	1.61	40.9	50	.34	28.0	711	3.0	76	.31	—	100 ft.	X	7744-0015
1 1/2	38.1	1.86	47.2	50	.34	28.0	711	3.0	76	.37	.17	100 ft.	X	7744-0008
2	50.8	2.44	62.0	40	.28	28.0	711	4.0	102	.57	.26	100 ft.	X	7744-0009
3	76.2	3.54	89.9	35	.24	28.0	711	6.0	152	1.04	.47	100 ft.	X	7744-0011
4	101.6	4.65	118.1	35	.24	28.0	711	8.0	203	1.65	.75	100 ft.	X	7744-0012
5	127.0	5.73	145.5	30	.21	28.0	711	11.0	279	2.34	1.06	100 ft.	1,000 ft.	7744-0013
6	152.4	6.98	177.3	35	.24	28.0	711	15.0	381	4.08	1.85	100 ft.	X	7744-0014

\*Working Pressure and Suction at +72°F (+22°C).

- RECOMMENDED FOR:** Conveying water and light chemical solutions where a clear PVC hose with a white helix is desirable for heavy duty applications.
- TEMPERATURE:** -10°F to +130°F (-23°C to +55°C) continuous service.
- CONSTRUCTION:** **Tube:** Type G (PVC). Clear. Smooth.  
**Reinforcement:** Rigid thermoplastic helix.
- COUPLINGS:** 1, 6, 7, 49 or 78 all sizes. Reference the Hose Coupling Section.
- PACKAGING:** All lengths coiled and wrapped in polyethylene.
- BRANDING:** Unlabeled.
- SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 1,000 feet per size. No deviations allowed to above product.
- REMNANT LENGTHS:** None.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



## GATES GC®96 INDUSTRIAL HOSE CRIMPER

The GC®96 crimper is capable of crimping up to 6 inch ID industrial hose. This crimper allows distributors to make assemblies that are reliable and professional looking, thus providing more value to the end user. The large crimper head allows industrial hose assemblies to be made with a variety of terminations using crimpable ferrules and sleeves. The GC96 crimper has additional versatility since in conjunction with optional spacer dies and GC®32–XD dies; it can make Gates hydraulic hose assemblies also.

**Features:**

- Electronic touch screen control panel for fast input of crimper settings
- Horizontal front-end feed makes crimping easier and convenient
- 340 ton force that allows crimping of a wide variety of couplings
- 2 speed die closure and rapid retract permit fast assembly fabrication
- 3-phase inverter allows crimper to be used all over the world
- Full range of die sets that enable production of a wide range of hose assemblies
- Complete line of options permit customizing the crimper to meet your needs

**Model Number:**

GC96

**Product Number:**

7480-9001

**Crimping Force:**

340 Tons

**Capability:**

1/4" – 2": Industrial and hydraulic hose (except 2", 6-wire)

2-1/2" – 4": Industrial hose

5" – 6": Industrial hose up to and including 100 PSI WP

**Power Source:**

208-264 Volts, 45-65 HZ, 1 or 3 Phase and 20 Amps

Electrical inverter for world-wide use

**Crimper Dimensions:**

31" H x 32" W x 16" D

**Weight:**

650 lbs.



Crimper	Product No.	Weight (lbs)
GC96 Crimper – Includes Starter Kit, Foot Pedal, 96-610 Die Set and Lifting Rope	7480-9001	650

Dies and Accessories	Product No.	Weight (lbs)
Quick Change Tool	7482-7104	2
Standard Die Kit includes GC32 QCT and GC96 Spacer Dies	7482-9104	36
Mirror	7482-9109	10
Starter Kit	7482-9112	10
Calibration Ring	7482-9200	2
Knuckles	7482-9601	5
GC96 Spacer Dies with box	7482-9600	31
Die Set – 96-610 with box	7482-9610	47
Die Set – 96-611 with box	7482-9611	41
Die Set – 96-612 with box	7482-9612	40
Die Set – 96-613 with box	7482-9613	46
Die Set – 96-614 with box	7482-9614	31

For Pricing of Crimper and Accessories, please contact your local Gates Field Representative.

NOTE: For replacement parts, see GC96 Operating Manual. GC32 dies should be ordered from the Hydraulic Price Sheet #35096-00.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



**Clamps**

**Stainless Steel Clamps**

(Specification 7408)

Clamp Size	Hose Range		Clamp Range		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
	Min.	Max.	Min.	Max.			
8	.3125	.5	7/16	1	10 ea.	X	7408-1008
10	.375	.625	1/2	1 1/8	10 ea.	X	7408-1010
12	.625	.75	1/2	1 1/4	10 ea.	X	7408-1012
16	.75	1	3/4	1 1/2	10 ea.	X	7408-1016
20	1	1.25	3/4	1 3/4	10 ea.	X	7408-1020
24	1.25	1.5	1	2	10 ea.	X	7408-1024
28	1.25	1.75	1 5/16	2 1/4	10 ea.	X	7408-1028
32	1.5	2	1 1/16	2 1/2	10 ea.	X	7408-1032
36	1.75	2.25	1 7/8	2 3/4	10 ea.	X	7408-1036
48	2.5	3	1 5/8	3 1/2	10 ea.	X	7408-1048
52	3	3.25	1 7/8	3 3/4	10 ea.	X	7408-1052
56	2	3.5	2 1/8	4	10 ea.	X	7408-1056
60	2.25	3.75	2 5/16	4 1/4	10 ea.	X	7408-1060
64	2.25	4	2 5/8	4 1/2	10 ea.	X	7408-1064
72	3	4.5	3 1/2	5	10 ea.	X	7408-1072
104	4	6.5	4	7	10 ea.	X	7408-1104

**RECOMMENDED FOR:** Clamping all types of hose and tubing in corrosive marine environment.

**CONSTRUCTION:** Clamps are constructed of 100% marine grade stainless steel. Bands are 9/16" wide with rounded edges to prevent cutting. Screws feature 305 grade stainless steel construction and deep slotted hex heads.

**PACKAGING:** 10 each per box.





**Clamps**

**Heavy-Duty T-Bolt Clamps**

(Specification 7422)

SAE Size	Min. Dia. (in.)	⊖ mm	Max. Dia. (in.)	⊖ mm	Recommended Installation Torque	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
8	1.375	35.1	1.5625	38.6	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1049
10	1.5	38.1	1.625	41.7	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1050
12	1.625	41.4	1.875	46	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1051
28	1.75	44.5	2	50.8	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1052
32	1.875	47.8	2.1875	55.6	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1053
36	2	50.8	2.3125	58.7	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1054
40	2.125	54.1	2.4375	62	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1055
44	2.25	57.2	2.5625	65	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1056
48	2.375	60.5	2.6875	68.3	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1057
52	2.5	63.5	2.8125	71.4	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1058
56	2.625	66.8	2.9375	74.7	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1059
60	2.75	69.9	3.0625	77.7	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1060
64	2.875	73.2	3.1875	81	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1061
68	3	76.2	3.3125	84.1	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1062
72	3.125	79.5	3.4375	87.4	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1063
76	3.25	82.6	3.5625	90.4	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1064
80	3.375	85.9	3.6875	93.7	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1065
84	3.5	88.9	3.8125	96.8	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1066
88	3.625	92.2	3.9375	100.1	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1067
92	3.75	95.3	4.0625	103.1	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1068
100	4	101.6	4.3125	109.5	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1069
108	4.25	108	4.5625	115.8	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1070
116	4.5	114.3	4.8125	122.2	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1071
124	4.75	120.7	5.0625	128.5	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1072
132	5	127	5.3125	134.9	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1073
140	5.25	133.4	5.5625	141.2	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1074
148	5.5	139.7	5.8125	147.6	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1075
156	5.75	146.1	6.0625	153.9	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1076
164	6	152.4	6.3125	160.3	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1077
172	6.25	158.8	6.5625	166.6	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1078
180	6.5	165.1	6.8125	173	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1079
188	6.75	171.5	7.0625	179.3	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1080
196	7	177.8	7.3125	185.7	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1081
204	7.25	184.2	7.5625	192	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1082
212	7.5	190.5	7.8125	198.4	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1083
220	7.75	196.9	8.0625	204.7	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1084
228	8	203.2	8.3125	211.1	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1085
236	8.25	209.6	8.5625	217.4	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1086
244	8.5	215.9	8.8125	223.8	75 in./lbs. (8.5 Nm)	10 ea.	X	7422-1087

**RECOMMENDED FOR:** Use in high vibration and large diameter applications. Typical applications include industrial machinery, truck air take systems, cold side charge air systems and off road equipment.

**CONSTRUCTION:** T-Bolt Standard Design  
**Band/Bridge:** 3/4" width, 201/301 stainless steel.  
**Bolt:** 1/4" - 28 plated steel.  
**Nut:** 7/16" hex, nylon insert, plated steel locknut.  
**Trunnion:** Plated Steel

**PACKAGING:** 10 each per box.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Industrial Hose  
Products**

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

# Hose Couplings

## GLX® - Male Pipe (NPTF 30° Cone Seat)



### Standard Pack

Size (In.)	Description	Thread (In.)	Stem Hex (In.)	Nut Hex (In.)	Overall Length		Cut Off Length		Weight Per Ea. (Lbs.)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	Description	(In.)	(In.)	(In.)	(In.)	(mm)	(In.)	(mm)	(Lbs.)			
1/4	4GLX-2MP	1/8-27	1/2	—	2.01	51.1	.98	24.9	.09	1 ea.	50 ea.	7107-00105
1/4	4GLX-4MP	1/4-18	9/16	—	2.17	55.1	1.14	29.0	.11	1 ea.	X	7107-00115
3/8	6GLX-4MP	1/4-18	11/16	—	2.32	58.9	1.22	31.0	.15	1 ea.	50 ea.	7107-00135
3/8	6GLX-6MP	3/8-18	11/16	—	2.32	58.9	1.22	31.0	.16	1 ea.	X	7107-00145
1/2	8GLX-6MP	3/8-18	13/16	—	2.72	69.1	1.24	31.5	.25	1 ea.	50 ea.	7107-00165
1/2	8GLX-8MP	1/2-14	7/8	—	2.78	70.6	1.40	35.6	.29	1 ea.	X	7107-00175
5/8	10GLX-8MP	1/2-14	15/16	—	2.40	61.0	1.55	39.3	.22	1 ea.	X	7107-00195
3/4	12GLX-8MP	1/2-14	1 1/16	—	3.46	87.9	1.46	37.1	.45	1 ea.	50 ea.	7107-00215
3/4	12GLX-12MP	3/4-14	1 1/16	—	3.46	87.9	1.46	37.1	.49	1 ea.	X	7107-00225
1	16GLX-16MP	1-11 1/2	1 3/8	—	4.11	104.4	1.88	47.8	.78	1 ea.	X	7107-00255
1 1/4	20GLX-20MP	1 1/4-11 1/2	1 3/4	—	4.41	112.0	2.09	53.0	1.24	1 ea.	X	7107-00265
1/2	8GLX-12MP	3/4-14	13/16	—	3.46	87.8	1.45	36.9	.15	1 ea.	X	7107-00785

### Bulk Pack

Size (In.)	Description	Thread (In.)	Stem Hex (In.)	Nut Hex (In.)	Overall Length		Cut Off Length		Weight Per Ea. (Lbs.)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	Description	(In.)	(In.)	(In.)	(In.)	(mm)	(In.)	(mm)	(Lbs.)			
1/4	4GLX-2MPXBULK	1/8-27	1/2	—	2.01	51.1	.98	24.9	.09	200 ea.	200 ea.	7107-0010
1/4	4GLX-4MPXBULK	1/4-18	9/16	—	2.17	55.1	1.14	29.0	.11	200 ea.	X	7107-0011
3/8	6GLX-4MPXBULK	1/4-18	11/16	—	2.32	58.9	1.22	31.0	.15	150 ea.	150 ea.	7107-0013
3/8	6GLX-6MPXBULK	3/8-18	11/16	—	2.32	58.9	1.22	31.0	.16	150 ea.	X	7107-0014
1/2	8GLX-6MPXBULK	3/8-18	13/16	—	2.72	69.1	1.24	31.5	.25	100 ea.	100 ea.	7107-0016
1/2	8GLX-8MPXBULK	1/2-14	7/8	—	2.78	70.6	1.40	35.6	.29	100 ea.	X	7107-0017
5/8	10GLX-8MPXBULK	1/2-14	15/16	—	2.40	61.0	1.55	39.3	.22	100 ea.	X	7107-0019
3/4	12GLX-8MPXBULK	1/2-14	1 1/16	—	3.46	87.9	1.46	37.1	.46	75 ea.	75 ea.	7107-0021
3/4	12GLX-12MPXBULK	3/4-14	1 1/16	—	3.46	87.9	1.46	37.1	.49	75 ea.	X	7107-0022
1	16GLX-16MPXBULK	1-11 1/2	1 3/8	—	4.11	104.4	1.88	47.8	.78	25 ea.	X	7107-0025
1 1/4	20GLX-20MPXBULK	1 1/4-11 1/2	1 3/4	—	4.41	112.0	2.09	53.0	1.24	20 ea.	X	7107-0026
1/2	8GLX-12MPXBULK	3/4-14	13/16	—	3.46	87.8	1.45	36.9	.15	60 ea.	60 ea.	7107-0078

## GLX® - MS 45° SAE Male Solid



### Standard Pack

Size (In.)	Description	Thread (In.)	Stem Hex (In.)	Nut Hex (In.)	Overall Length		Cut Off Length		Weight Per Ea. (Lbs.)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	Description	(In.)	(In.)	(In.)	(In.)	(mm)	(In.)	(mm)	(Lbs.)			
1/4	4GLX-4MS	7/16-20	1/2	—	2.11	53.6	1.08	27.4	.09	1 ea.	50 ea.	7107-00525
3/8	6GLX-6MS	5/8-18	5/8	—	2.38	60.5	1.28	32.5	.16	1 ea.	50 ea.	7107-00535
1/2	8GLX-8MS	3/4-16	13/16	—	2.89	73.4	1.42	36.1	.27	1 ea.	50 ea.	7107-00545
3/4	12GLX-12MS	1 1/16-14	1 1/16	—	3.78	96.0	1.77	45.0	.54	1 ea.	50 ea.	7107-00555

### Bulk Pack

Size (In.)	Description	Thread (In.)	Stem Hex (In.)	Nut Hex (In.)	Overall Length		Cut Off Length		Weight Per Ea. (Lbs.)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
(In.)	Description	(In.)	(In.)	(In.)	(In.)	(mm)	(In.)	(mm)	(Lbs.)			
1/4	4GLX-4MSXBULK	7/16-20	1/2	—	2.11	53.6	1.08	27.4	.09	1 ea.	50 ea.	7107-0052
3/8	6GLX-6MSXBULK	5/8-18	5/8	—	2.38	60.5	1.28	32.5	.16	1 ea.	50 ea.	7107-0053
1/2	8GLX-8MSXBULK	3/4-16	13/16	—	2.89	73.4	1.42	36.1	.27	1 ea.	50 ea.	7107-0054
3/4	12GLX-12MSXBULK	1 1/16-14	1 1/16	—	3.78	96.0	1.77	45.0	.54	1 ea.	50 ea.	7107-0055

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



## Hose Couplings

### GLX® - FSX 45° SAE Female Swivel



#### Standard Pack

Size (In.)	Description	Thread (In.)	Stem Hex (In.)	Nut Hex (In.)	Overall Length (In.) (mm)		Cut Off Length (In.) (mm)		Weight Per Ea. (Lbs.)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
1/4	4GLX-4FSX	7/16-20	1/2	—	2.24	56.9	1.22	31.0	.13	200 ea.	200 ea.	7107-00485
3/8	6GLX-6FSX	5/8-18	5/8	—	2.44	62.0	1.35	34.3	.17	150 ea.	150 ea.	7107-00495
1/2	8GLX-8FSX	3/4-16	13/16	—	2.82	71.6	1.34	34.0	.26	100 ea.	100 ea.	7107-00505
3/4	12GLX-12FSX	1 1/16-14	1 1/16	—	3.68	93.5	1.67	42.4	.51	75 ea.	75 ea.	7107-00515

#### Bulk Pack

Size (In.)	Description	Thread (In.)	Stem Hex (In.)	Nut Hex (In.)	Overall Length (In.) (mm)		Cut Off Length (In.) (mm)		Weight Per Ea. (Lbs.)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
1/4	4GLX-4FSXXBULK	7/16-20	1/2	—	2.24	56.9	1.22	31.0	.13	1 ea.	50 ea.	7107-0048
3/8	6GLX-6FSX XBULK	5/8-18	5/8	—	2.44	62.0	1.35	34.3	.17	1 ea.	50 ea.	7107-0049
1/2	8GLX-8FSX XBULK	3/4-16	13/16	—	2.82	71.6	1.34	34.0	.26	1 ea.	50 ea.	7107-0050
3/4	12GLX-12FSX XBULK	1 1/16-14	1 1/16	—	3.68	93.5	1.67	42.4	.51	1 ea.	50 ea.	7107-0051

### GLX® - MPX Male NPTF Swivel



#### Standard Pack

Size (In.)	Description	Thread (In.)	Stem Hex (In.)	Nut Hex (In.)	Overall Length (In.) (mm)		Cut Off Length (In.) (mm)		Weight Per Ea. (Lbs.)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
1/4	4GLX-4MPX	1/4-18	1/2	11/16	2.61	66.3	1.58	40.1	.15	1 ea.	50 ea.	7107-00565
3/8	6GLX-6MPX	3/8-18	5/8	7/8	2.81	71.4	1.72	43.7	.25	1 ea.	50 ea.	7107-00575
1/2	8GLX-8MPX	1/2-14	13/16	1	3.42	86.9	1.95	49.5	.36	1 ea.	50 ea.	7107-00585
3/4	12GLX-12MPX	3/4-14	1 1/16	1 5/16	4.02	102.0	2.01	51.1	.65	1 ea.	50 ea.	7107-00595
1	16GLX-16MPX	1-11 1/2	1 3/8	1 5/8	4.73	120.1	2.50	63.5	.98	1 ea.	50 ea.	7107-00605
1 1/4	20GLX-20MPX	1 1/4-11 1/2	1 7/8	2	5.30	134.6	2.98	75.7	1.83	1 ea.	50 ea.	7107-00615

#### Bulk Pack

Size (In.)	Description	Thread (In.)	Stem Hex (In.)	Nut Hex (In.)	Overall Length (In.) (mm)		Cut Off Length (In.) (mm)		Weight Per Ea. (Lbs.)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
1/4	4GLX-4MPX XBULK	1/4-18	1/2	11/16	2.61	66.3	1.58	40.1	.15	200 ea.	200 ea.	7107-0056
3/8	6GLX-6MPX XBULK	3/8-18	5/8	7/8	2.81	71.4	1.72	43.7	.25	150 ea.	150 ea.	7107-0057
1/2	8GLX-8MPX XBULK	1/2-14	13/16	1	3.42	86.9	1.95	49.5	.36	100 ea.	100 ea.	7107-0058
3/4	12GLX-12MPX XBULK	3/4-14	1 1/16	1 5/16	4.02	102.0	2.01	51.1	.65	75 ea.	75 ea.	7107-0059
1	16GLX-16MPX XBULK	1-11 1/2	1 3/8	1 5/8	4.73	120.1	2.50	63.5	1.14	25 ea.	25 ea.	7107-0060
1 1/4	20GLX-20MPX XBULK	1 1/4-11 1/2	1 7/8	2	5.30	134.6	2.98	75.7	1.83	20 ea.	20 ea.	7107-0061

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



## Hose Couplings

### GLX® - FP Female NPTF Swivel



#### Standard Pack

Size (In.)	Description	Thread (In.)	Stem Hex (In.)	Nut Hex (In.)	Overall Length (In.) (mm)		Cut Off Length (In.) (mm)		Weight Per Ea. (Lbs.)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
1/4	4GLX-4FP	1/4-18	11/16	—	1.99	50.5	.96	24.4	.11	1 ea.	50 ea.	7107-00415
3/8	6GLX-4FP	1/4-18	11/16	—	2.07	52.6	.97	24.6	.16	1 ea.	50 ea.	7107-00425
3/8	6GLX-6FP	3/8-18	13/16	—	2.07	52.6	.97	24.6	.18	1 ea.	50 ea.	7107-00435
1/2	8GLX-6FP	3/8-18	13/16	—	2.48	63.0	1.00	25.4	.25	1 ea.	50 ea.	7107-00445
1/2	8GLX-8FP	1/2-14	1	—	2.64	67.1	1.16	29.5	.28	1 ea.	50 ea.	7107-00455
3/4	12GLX-12FL	3/4-14	1 1/4	—	3.23	82.0	1.22	31.0	.48	1 ea.	50 ea.	7107-00465
1	16GLX-16FP	1-11 1/2	1 1/2	—	3.86	98.0	1.62	41.1	.76	1 ea.	50 ea.	7107-00475

#### Bulk Pack

Size (In.)	Description	Thread (In.)	Stem Hex (In.)	Nut Hex (In.)	Overall Length (In.) (mm)		Cut Off Length (In.) (mm)		Weight Per Ea. (Lbs.)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
1/4	4GLX-4FPXBULK	1/4-18	11/16	—	1.99	50.5	.96	24.4	.12	200 ea.	200 ea.	7107-0041
3/8	6FLX-4FPXBULK	1/4-18	11/16	—	2.07	52.6	.97	24.6	.16	150 ea.	150 ea.	7107-0042
3/8	6GLX-6FPXBULK	3/8-18	13/16	—	2.07	52.6	.97	24.6	.18	150 ea.	150 ea.	7107-0043
1/2	8GLX-6FPXBULK	3/8-18	13/16	—	2.48	63.0	1.00	25.4	.25	100 ea.	100 ea.	7107-0044
1/2	8GLX-8FPXBULK	1/2-14	1	—	2.64	67.1	1.16	29.5	.28	100 ea.	100 ea.	7107-0045
3/4	12GLX-12FPXBULK	3/4-14	1 1/4	—	3.23	82.0	1.22	31.0	.48	75 ea.	75 ea.	7107-0046
1	16GLX-16FPXBULK	1-11 1/2	1 1/2	—	3.86	98.0	1.62	41.1	.76	25 ea.	25 ea.	7107-0047

### GLX® - FPX Female NPSM Swivel



#### Standard Pack

Size (In.)	Description	Thread (In.)	Stem Hex (In.)	Nut Hex (In.)	Overall Length (In.) (mm)		Cut Off Length (In.) (mm)		Weight Per Ea. (Lbs.)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
1/4	4GLX-4FPX	1/4-18	1/2	11/16	2.24	56.9	1.22	31.0	.12	1 ea.	50 ea.	7107-00345
3/8	6GLX-4FPX	1/4-18	5/8	11/16	2.40	61.0	1.30	33.0	.18	1 ea.	50 ea.	7107-00355
3/8	6GLX-6FPX	3/8-18	5/8	7/8	2.49	63.2	1.39	35.3	.21	1 ea.	50 ea.	7107-00365
1/2	8GLX-6FPX	3/8-18	13/16	7/8	2.85	72.4	1.38	35.1	.30	1 ea.	50 ea.	7107-00375
1/2	8GLX-8FPX	1/2-14	13/16	1	2.89	73.4	1.41	35.8	.32	1 ea.	50 ea.	7107-00385
3/4	12GLX-12FPX	3/4-14	1 1/16	1 1/4	3.72	94.5	1.71	43.4	.57	1 ea.	50 ea.	7107-00395
1	16GLX-16FPX	1-11 1/2	1 3/8	1 1/2	4.11	104.4	1.87	47.5	.98	1 ea.	50 ea.	7107-00405

#### Bulk Pack

Size (In.)	Description	Thread (In.)	Stem Hex (In.)	Nut Hex (In.)	Overall Length (In.) (mm)		Cut Off Length (In.) (mm)		Weight Per Ea. (Lbs.)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
1/4	4GLX-4FPXXBULK	1/4-18	1/2	11/16	2.24	56.9	1.22	31.0	.12	200 ea.	200 ea.	7107-0034
3/8	6FLX-4FPX XBULK	1/4-18	5/8	11/16	2.40	61.0	1.30	33.0	.18	150 ea.	150 ea.	7107-0035
3/8	6GLX-6FPX XBULK	3/8-18	5/8	7/8	2.49	63.2	1.39	35.3	.21	150 ea.	150 ea.	7107-0036
1/2	8GLX-6FPX XBULK	3/8-18	13/16	7/8	2.85	72.4	1.38	35.1	.30	100 ea.	100 ea.	7107-0037
1/2	8GLX-8FPX XBULK	1/2-14	13/16	1	2.89	73.4	1.41	35.8	.32	100 ea.	100 ea.	7107-0038
3/4	12GLX-12FPX XBULK	3/4-14	1 1/16	1 1/4	3.72	94.5	1.71	43.4	.57	75 ea.	75 ea.	7107-0039
1	16GLX-16FPX XBULK	1-11 1/2	1 3/8	1 1/2	4.11	104.4	1.87	47.5	.98	25 ea.	25 ea.	7107-0040

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





## Hose Couplings

### GLX® - Female JIC 37° Flare Swivel



#### Standard Pack

Size (In.)	Description	Thread (In.)	Stem Hex (In.)	Nut Hex (In.)	Overall Length (In.) (mm)		Cut Off Length (In.) (mm)		Weight Per Ea. (Lbs.)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
1/4	4GLX-4FJX	7/16-20	1/2	9/16	2.10	53.3	1.08	27.4	.11	1 ea.	X	7107-00275
3/8	6GLX-6FJX	9/16-18	5/8	3/4	2.31	58.7	1.19	30.2	.19	1 ea.	X	7107-00285
1/2	8GLX-8FJX	3/4-16	13/16	7/8	2.82	71.6	1.34	34.0	.34	1 ea.	X	7107-00295
5/8	10GLX-10FJX	7/8-14	—	1 1/16	2.27	57.7	1.42	36.0	.24	1 ea.	X	7107-00305
3/4	12GLX-12FJX	1 1/16-12	1 1/16	1 1/4	3.68	93.5	1.67	42.4	.63	1 ea.	X	7107-00315
1	16GLX-16FJX	1 5/16-1/2	1 3/8	1 1/2	4.17	105.9	1.94	49.3	1.08	1 ea.	X	7107-00325
1 1/4	20GLX20FJX	1 5/8-12	1 3/4	2	4.58	116.4	2.26	57.4	1.32	1 ea.	X	7107-00335

#### Bulk Pack

Size (In.)	Description	Thread (In.)	Stem Hex (In.)	Nut Hex (In.)	Overall Length (In.) (mm)		Cut Off Length (In.) (mm)		Weight Per Ea. (Lbs.)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
1/4	4GLX-4FJXXBULK	7/16-20	1/2	9/16	2.10	53.3	1.08	27.4	.11	200 ea.	X	7107-0027
3/8	6GLX-6FJX XBULK	9/16-18	5/8	3/4	2.31	58.7	1.19	30.2	.19	150 ea.	X	7107-0028
1/2	8GLX-8FJX XBULK	3/4-16	13/16	7/8	2.82	71.6	1.34	34.0	.34	100 ea.	X	7107-0029
5/8	10GLX-10FJX XBULK	7/8-14	—	1 1/16	2.27	57.7	1.42	36.0	.24	100 ea.	X	7107-0030
3/4	12GLX-12FJX XBULK	1 1/16-12	1 1/16	1 1/4	3.68	93.5	1.67	42.4	.63	75 ea.	X	7107-0031
1	16GLX-16FJX XBULK	1 5/16-1/2	1 3/8	1 1/2	4.17	105.9	1.94	49.3	1.08	25 ea.	X	7107-0032
1 1/4	20GLX-20FJX XBULK	1 5/8-12	1 3/4	2	4.58	116.4	2.26	57.4	1.32	20 ea.	X	7107-0033

### GSH™ - GSH with Intergral 2" Fig. 1502 Hammer Unions



#### 2" Figure 1502 Female Sub with Seal

Size (In.)	Description	Thread (In.)	Stem Hex (In.)	Nut Hex (In.)	Overall Length (In.) (mm)		Cut Off Length (In.) (mm)		Weight Per Ea. (Lbs.)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
1 1/2	24GSH-32FHU	—	—	—	2.52	64.0	6.26	159.0	5.49	1 ea.	X	7341-02675
2	32GSH-32FHU	—	—	—	2.64	67.1	7.13	181.1	7.45	1 ea.	X	7341-15695

#### 2" Figure 1502 Male Sub with Nut

Size (In.)	Description	Thread (In.)	Stem Hex (In.)	Nut Hex (In.)	Overall Length (In.) (mm)		Cut Off Length (In.) (mm)		Weight Per Ea. (Lbs.)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
1 1/2	24-GSH-32MHUWN	—	—	—	6.64	168.7	2.90	73.7	16.43	1 ea.	X	7341-02695
2	32GSH-32MHUWN	—	—	—	7.25	184.2	2.76	70.1	17.75	1 ea.	X	7341-15715

#### 2" Figure 1502 Male Sub without Nut

Size (In.)	Description	Thread (In.)	Stem Hex (In.)	Nut Hex (In.)	Overall Length (In.) (mm)		Cut Off Length (In.) (mm)		Weight Per Ea. (Lbs.)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
1 1/2	24GSH-32MHU	—	—	—	6.64	168.7	2.90	73.7	2.75	1 ea.	X	7341-02685
2	32GSH-32MHU	—	—	—	7.25	184.2	2.76	70.1	7.64	1 ea.	X	7341-15705

#### 2" Figure 1502 Rubber Lip Seal and Wing Nut

Size (In.)	Description	Thread (In.)	Stem Hex (In.)	Nut Hex (In.)	Overall Length (In.) (mm)		Cut Off Length (In.) (mm)		Weight Per Ea. (Lbs.)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
2	-32 SR	—	—	—	—	—	—	—	.05	1 ea.	X	7253-01905
2	-32 WN	—	—	—	—	—	—	—	9.20	1 ea.	X	7253-01915

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



## Hose Couplings

### 2" Butt Weld

Size (In.)	Description	Thread	Stem Hex	Nut Hex	Overall Length		Cut Off Length		Weight Per Ea.	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
		(In.)	(In.)	(In.)	(In.)	(mm)	(In.)	(mm)	(Lbs.)			
2	32GSH-32XXSBW	—	—	—	6.68	169.7	2.19	55.6	5.14	1 ea.	X	7341-15775
2	32GSH-40S160BW	—	—	—	6.65	168.9	2.16	54.9	5.51	1 ea.	X	7341-15785
2	32GSH-32S160BW	—	—	—	6.68	169.7	2.19	55.6	5.16	1 ea.	X	7341-15795
2	32GSH-48XXSBWXBULK	—	—	—	6.61	167.9	2.13	54.1	5.82	1 ea.	X	7341-15805

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

## How To Use The Coupling Section

**NOTE:** Because the hose/coupling interface is critical to hose assembly performance, always follow the specific instructions of hose and coupling manufacturers regarding the match of hose/fittings and assembly procedures. Trained personnel using proper tools and procedures should make hose assemblies. Failure to follow hose and couplings manufacturers' instructions or failure to use trained personnel might be dangerous and could result in damage to property and serious bodily injury.

Couplings are designated by Numbers, and are described as to construction and source. Adapters and fittings are available for special applications. Each coupling has a pressure rating of Low, Medium or High. These terms have a general meaning as follows:

**Low Pressure..... 100 psi maximum**  
**Medium Pressure..... 315 psi maximum**  
**High Pressure..... 800 psi maximum**

Coupling ratings apply only where the recommended clamps or bands are used. Use this information as a guide since different tube stocks affect coupling retention. Common shank couplings or nipples with bands or clamps should be used only on straight or plain end water or material handling hoses up to the following rated working pressures:

1/2"- 1-1/2" I.D. — 315 psi	5" I.D. — 60 psi
2 -3" I.D. — 100 psi	6" I.D. — 50 psi
4" I.D. — 75 psi	

**NOTE: Band-It® Swaged Hose Nipples, a form of combination nipple, can be used for higher rated working pressures. They are available in plated and unplated steel plus stainless steel with Tapered Pipe Thread for 1/2" through 6" I.D. hose.**

Listed are all of the clamps, bands and ferrules used to secure the couplings to the hose. The proper clamp size should be selected carefully, since many clamps will fit only one hose size or a narrow range of sizes. For certain critical fluids, specific couplings are used, as follows:

### Critical Applications

- Use only the couplings recommended in this catalog for conveying:
  - Steam**
  - LP Gas**
  - Corrosive Chemicals**
  - Petroleum Products**
- For conveying flammable fluids, use couplings made of nonsparking materials, such as brass or aluminum.
- For ground fueling of aircraft, use certified coupled assemblies only.

**When you have selected a hose from the Hose Section, you will have found one or more coupling recommendations for that hose. The following procedure will help you make the final selection:**

- If more than one coupling is recommended, make a final selection for type of coupling on basis of cost, sizes available, thread type available and application.
- Determine how the coupling is to be fastened to the hose—ferrule, band or clamp.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



---

## **Coupling Installation**

**Before making any hose assembly, check these general instructions and precautions:**

1. **Square Ends**—Before attaching a coupling to the hose, make sure the end is cut square. This will help prevent leakage of the coupling.
2. **Proper Fit of Ferrules and Clamps**—**This is important.** Make sure you are using the correct sizes for the hose being coupled. Never buff the cover, except when specified for certain hydraulic hose couplings, and you should not enlarge the hose tube in any way to make the coupling insert fit. Occasionally, a nipple pusher tool will be helpful in pushing the insert into the hose.
3. **Installation Lubricants**—Use of lubricants on coupling inserts and ferrules will simplify coupling installation and reduce possibility of damage to the hose. Some lubricants to use are water, soap solution or Lactol. Or, you can use a solution of glycerin and alcohol made up of one (1) part glycerin and 15 parts wood alcohol by volume.
4. **Appearance of the Hose Assembly**—A properly installed coupling significantly improves customer acceptance of the product. It also provides added assurance of satisfactory service and safety of assembly.
5. **Seal the Ends**—Where the hose is intended for use in petroleum transfer applications and hose ends will be exposed after couplings are attached, apply a sufficient amount of quality Neoprene cement or shellac to seal the ends.
6. **Critical Applications.**
  - (a) Use only the couplings recommended in this Hose Coupling Section for conveying:
    - Steam
    - LP Gas
    - Corrosive Chemicals
    - Petroleum Products
    - Edible Products
  - (b) For conveying flammable fluids, use couplings made of nonsparking materials; i.e., brass or aluminum.
  - (c) For aircraft ground fueling hose, use factory coupled assemblies only.

**NOTE: Refer to NAHAD Industrial Hose Assembly Guidelines for installation information and additional general information.**





## Pipe Thread Usage

There are several terms or abbreviations which have come into common use for denoting pipe threads. Some of these are:

- Iron Pipe Threads
- IPT
- Tapered IPT
- Straight IPT
- IP—S
- IP—T

These may be satisfactory for general reference, but since there are several types of pipe thread, it is best to use the notations as given by a recognized standard (ANSI B2.1). The types in this standard which are used with industrial hose couplings are listed later in this section.

Compatibility of threads and method of sealing determine which type of thread is to be used.

An NPT male and female form a pressure-tight joint, and usually some type of sealing compound is placed on the threads. NPTF threads are similar in that the seal is made by tight fit between the threads. However the fit is close enough that a sealing compound is not needed.

NPSM threads are used for either male or female fittings, but the seal is formed by compressing a packing or by metal contact between chamfers on the male and female. Size range is from 1/4" through 6" nominal pipe I.D.

NPSH threads are similar to NPSM threads but are used mostly for fire hose or special couplings. Size range is from 1/2" through 2" nominal pipe I.D. The seal is made by compressing packing. GHT, garden hose threads, are a form of NPSH threads used on water hose. There is only one basic size of thread, 3/4 - 1 1/2. It is not compatible with 3/4-14NPT, NPSH or NPSM threads.

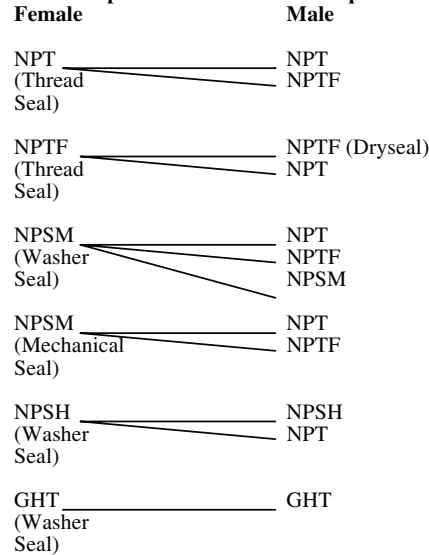
Couplings which come in sets usually have a female with NPSM threads and washer; and a male with NPT or NPSM threads.

Long shank couplings and pin lug couplings are examples where the male has NPSM threads. Reusable petroleum couplings are examples of sets in which the male has NPT threads.

Standard brass inserts have NPTF males and solid females and NPSM swivel females. The seal is made by contact of chamfers or tight fit of threads. (See Chart No.1).

Couplings for hydraulic hose have threads which may conform to the above descriptions. In addition, there are many other types peculiar to the hydraulic field. For a complete description of threads, identification, sizes, methods of sealing and other related data, see Hydraulic Hose Catalog #35093.

### Combinations of Pipe Threads that Are Compatible:

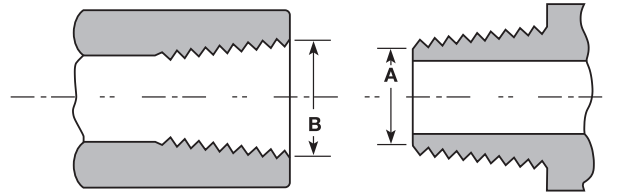






**Pipe Thread Usage**

(Continued)



**Chart No. 2**

American Standard Pipe Threads (ANSI B2.1)

Nominal Pipe Size (In.)	Pipe O.D. (In.)	Threads Per Inch	NPT & NPTF	NPT	NPSM**	
			*Ext. Thrd. Pitch (A) Diameter	*Int. Thrd. Pitch (B) Diameter	Ext. Thrd. Max. Major Diameter	Int. Thrd. Min. Minor Diameter
1/8	.405	27	0.36351	0.37476	0.409	0.362
1/4	.504	18	0.47739	0.48989	0.541	0.470
3/8	.675	18	0.61201	0.62701	0.678	0.607
1/2	.840	14	0.75843	0.77843	0.844	0.753
3/4	1.050	14	0.96768	0.98887	1.054	0.964
1	1.315	11-1/2	1.21363	1.23863	1.318	1.208
1-1/4	1.660	11-1/2	1.55713	1.58338	1.663	1.553
1-1/2	1.900	11-1/2	1.79609	1.82234	1.902	1.792
2	2.375	11-1/2	2.26902	2.29627	2.376	2.265
2-1/2	2.875	8	2.71593	2.76216	2.877	2.718
3	3.500	8	3.34062	3.38850	3.503	3.344
3-1/2	4.000	8	3.83750	3.88881	4.003	3.845
4	4.500	8	4.33438	4.38712	4.502	4.343
5	5.563	8	5.39073	5.44929	5.564	5.405
6	6.625	8	6.44609	6.50597	6.620	6.462

\* Dimensions A & B shown on the sketch above

\*\* Loose Fitting

**Chart No. 3**

American Standard Straight Pipe Threads for Hose Couplings and Nipples

	Nominal Size (Hose I.D.) (In.)	Threads Per In.	Pitch	Depth of Thread	Major Diam. Min.
GHT	1/2, 5/8, 3/4	11-1/2	Coupling 0.08696	0.05648	1.0725
	1/2, 5/8, 3/4	11-1/2	Nipple 0.08696	0.05648	Max. 1.0625
NPSH	Female				Major Diam. Min.
	1/2	14	0.07143	0.04639	0.8323
	3/4	14	0.07143	0.04639	1.0428
	1	11-1/2	0.08696	0.05648	1.3051
	1-1/4	11-1/2	0.08696	0.05648	1.6499
	1-1/2	11-1/2	0.08696	0.05648	1.8888
	2	11-1/2	0.08696	0.05648	2.3628
	Male				Major Diam. Max.
	1/2	14	0.07143	0.04639	0.8248
	3/4	14	0.07143	0.04639	1.0353
1	11-1/2	0.08696	0.05648	1.2951	
1-1/4	11-1/2	0.08696	0.05648	1.6399	
1-1/2	11-1/2	0.08696	0.05648	1.8788	
2	11-1/2	0.08696	0.05648	2.3528	

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





**Couplings for Gates Hoses**

**1 Long Shank**



**Description:** Cast brass, serrated shank, set has hex male and hex swivel female couplings, with a washer seal. Threads are GHT or NPSM.

**Sources:** A P G  
Dixon Valve & Coupling Co.  
Seal-Fast, Inc.

**2 Lightweight Water Hose**



**Description:** Spun or wrought brass serrated shank, round swivel female and solid male, both GHT, washer seal.

**Sources:** American Coupling Co.  
L.R. Nelson Corp.

**3 Cast Brass or Zinc Short Shank**



**Description:** Cast brass, serrated shank, hex swivel female with washer, solid male, GHT threads, 3/4-11-1/2.

**Sources:** A P G  
J.C. Gadd Co.  
Seal-Fast, Inc.

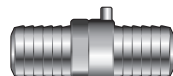
**4 Machined Brass Short Shank**



**Description:** Machined brass, serrated shank. Each set has round swivel female and solid male, GHT, washer seal. Octagon nut male and female.

**Sources:** American Coupling Co.  
Anderson Fittings  
A P G  
Campbell Fittings, Inc.  
Lenz, Inc.

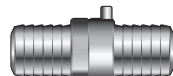
**5 Brass Pin Lug**



**Description:** Cast brass shank and swivel, shank is serrated. NPSM threads in female and male, with washer seal. Sizes under 3" have lugs on female only.

**Sources:** A P G  
Dixon Valve & Coupling Co.  
P-T Coupling Co.

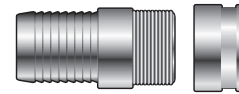
**6 Malleable Iron Pin Lug**



**Description:** Malleable iron shank and swivel with serrated shank, cadmium plated. NPSM threads in male and female, washer seal. Pin lugs on female Only.

**Sources:** A P G  
Dixon Valve & Coupling Co.  
P-T Coupling Co.  
Seal-Fast, Inc.

**7 Combination Nipple**



**Victaulic Nipple**

**Description:** Swaged steel with scored or serrated shank, NPT threads same nominal size as I.D. of hose. Special plastic materials available.

**Sources:** A P G  
Band-It-IDEX, Inc.  
Campbell Fittings, Inc.  
Dixon Valve & Coupling Co.  
Martin Brass Works, Inc.  
P-T Coupling Co.  
Seal-Fast, Inc.

**8 Tri-Lokt**



**Description:** Machined steel insert, male NPT threads only. Held in place with steel yoke and Band-It Jr. clamps. Insert is reusable — can be reinstalled with new yoke and clamps.

**Source:** Band-It-IDEX, Inc.

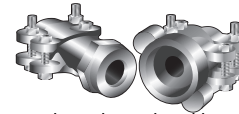
**10 Single or Double Bolt Malleable Iron Clamp**



**Description:** Cast malleable iron, cadmium plated.

**Source:** Dixon Valve & Coupling Co.

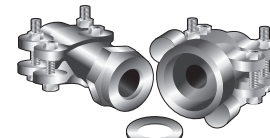
**14 Interlocking, Ground Joint**



**Description:** Malleable iron swivel. Inserts and spud may be either steel or malleable iron. All parts are cadmium plated. Male and female threads both NPT with same nominal size as hose I.D. Ground joint between spud and female insert. Available with 2- and 4-bolt clamps.

**Sources:** A P G  
Dixon Valve & Coupling Co.  
P-T Coupling Co.  
Seal-Fast, Inc.

**15 Interlocking, Washer Joint**



**Description:** Malleable iron swivel. Insert and spud may be either malleable iron or steel. All parts are cadmium plated. Female thread in spud is NPT with same nominal size as hose I.D. Washer joint between insert and spud. Available with 2- and 4-bolt clamps.

**Source:** Campbell Fittings, Inc.  
Dixon Valve & Coupling Co.  
P-T Coupling Co.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



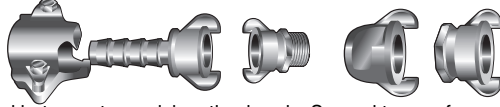
# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

## Couplings for Gates Hose—continued

### 18 Universal Quick Acting

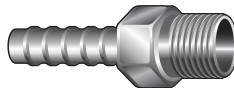
**Description:** Cast malleable iron with cadmium plate, cast bronze.



Washer seal between two quick-acting heads. Several types of heads are available, but all have same-size attaching heads regardless of hose size. Fingers lock together with quarter-turn rotation.

**Sources:** A P G  
Campbell Fittings, Inc.  
Dixon Valve & Coupling Co.  
P-T Coupling Co.  
Seal-Fast, Inc.

### 19 Standard Air Hose



**Description:** Machined brass, with serrated shank, NPTF threads on hex solid male and on hex solid female, and NPSM threads on hex swivel female.

**Sources:** American Coupling Co.  
Anderson Fittings  
A P G  
Dixon Valve & Coupling Co.  
Lenz, Inc.  
National Coupling Co.  
Plews-Schrader

### 20 Ferrules



**Description:** All stock ferrules are plain drawn brass.

**Sources:** American Coupling Co.  
Anderson Fittings  
Dixon Valve & Coupling Co.  
Jagemann Stamping Co.  
Plews-Schrader  
Truex, Inc.  
Winzler Stamping Co.

### 21 Preformed Band Clamps



**Description:** A preformed ring clamp of rust-resistant carbon steel or Type 201 stainless steel. Also available in Type 316 stainless steel, and non-sparking silicon bronze.

**Sources:** Band-It  
Fast-Lok Hose Clamps  
Punch-Lok Co.

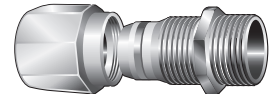
### 21 Band Rolls



**Description:** Available in 100-foot rolls, carbon steel or stainless steel. Buckles—100 per box

**Sources:** Band-It-IDEX, Inc.  
Fast-Lok Hose Clamps  
Punch-Lok Co.

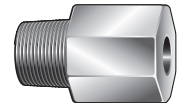
### 23 Reusable Gasoline Pump



**Description:** Various materials; Two piece construction. Male NPT or IPT threads (also see coupling 47).

**Sources:** J.C. Gadd Co.  
P-T Coupling Co.  
Serv-All Die and Tool Co.

### 24 Permanent Gasoline Pump Hose



**Description:** Various materials; One piece construction. Male NPT or IPT threads.

**Sources:** J.C. Gadd Co.  
Serv-All Die and Tool Co.

### 26 Internal Expansion-Brass



**Description:** Body is forged brass. Ferrule is cold-drawn copper alloy. Male coupling has NPT threads, female swivel coupling has NPSH threads. All threads same nominal size as hose I.D. except 1-3/8" I.D. size which has 1-1/2 – 11-1/2 threads. On 1-1/2" and larger sizes, female has special tightening lugs.

**Sources:** Dixon Valve & Coupling Co.  
ProGrip Co.  
United Metal Industries, Inc.

### 26 Ferrules for Internal Expansion



**Sources:** Dixon Valve & Coupling Co.  
ProGrip Co.  
United Metal Industries, Inc.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.

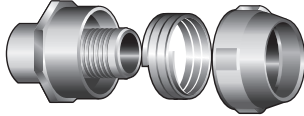


The world's most trusted name in belts, hose and hydraulics.



**Couplings for Gates Hose—continued**

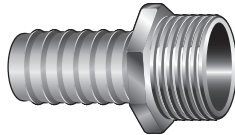
**27 Reusable Petroleum Hose  
(Compression Ring)**



**Description:** Machined brass coupling body, cast brass sleeve, flat steel wire compression ring. Male NPT or female swivel with NPSM threads and washer seal. Threads are same nominal size as hose I.D.

**Sources:** United Metal Industries, Inc.

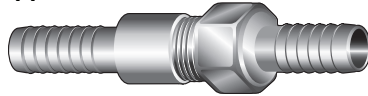
**28 Barrel Pump**



**Description:** Various materials with serrated shank. Threads are male NPT only.

**Sources:** J.C. Gadd Co.  
Serv-All Die and Tool Co.

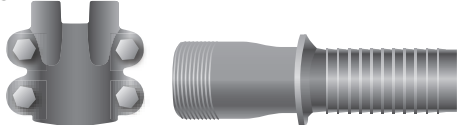
**34 Stainless Steel Nipples**



**Description:** Type 316 stainless steel, with serrated shank, solid male NPT threads, hex swivel female, NPSM threads, washer seal. Threads same nominal size as hose I.D.

**Sources:** Dixon Valve & Coupling Co.  
Martin Brass Works, Inc.

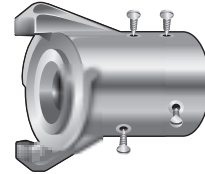
**35 Four-Finger Boss Clamp**



**Description:** Plated iron, stainless steel and brass clamps in 2, 3 and 4 gripping finger configurations. Corresponding stems come in NPT or beveled ends. Available in 2-, 4- and 6-bolt clamps. Follow manufacturer's recommendations for bolt torque and tightening sequence procedures.

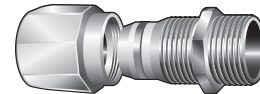
**Sources:** Dixon Valve & Coupling Co.

**36 Sandblast**



**Sources:** A P G  
Campbell Fitting, Inc.  
Dixon Valve & Coupling Co.  
P-T Coupling Co.  
Seal-Fast, Inc.

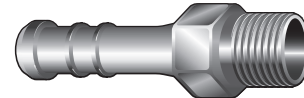
**47 Reusable Fuel Oil**



**Description:** This coupling is similar to **23** except it has a brass finish, instead of chrome plating. Male NPTF threads, female NPSM threads, washer seal. Threads same nominal size as hose I.D., except as noted.

**Sources:** United Metal Industries, Inc.

**48 Band-It Nipples**



**Description:** Machined steel hex inserts, rust-resistant blued finish, serrated shank, male NPT threads.

**Source:** Band-It-IDEX, Inc.

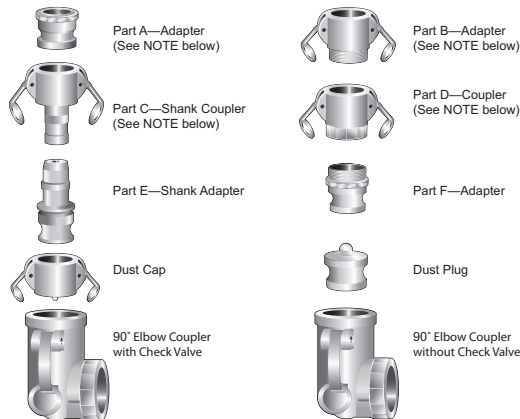


**Couplings for Gates Hose—continued**

**49 Quick-Connecting**

**Description:** The basic parts of this coupling are a bronze female shank coupler and a male adapter, which have a washer seal but no threads. These two parts fit snugly together and are held in place by two cams on the female shank coupler which rotate against a groove in the male adapter. This allows the coupling to be connected or disconnected very quickly. Adapters and dust caps are available as shown below. Standard materials are bronze or aluminum.

**Sources:** A P G  
Dixon Valve & Coupling Co.  
OPW Engineered Systems  
P-T Coupling Co.  
Scully Signal Co.  
Seal-Fast, Inc.



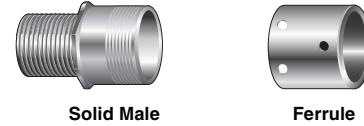
**NOTE:** Part A and Part D have female NPT threads. Part B and Part F have male NPT threads. Above threads have same nominal size as hose I.D. The above couplers and adapters are used to convert threaded-end couplings to quick connect.

**61 Center Punch**



**Description:** Open-end band or preformed band of rust-resistant steel. Also available in stainless steel.  
**Sources:** Fast-Lok Hose Clamps  
Punch-Lok Co.

**71 Permanent Swaged or Crimped**



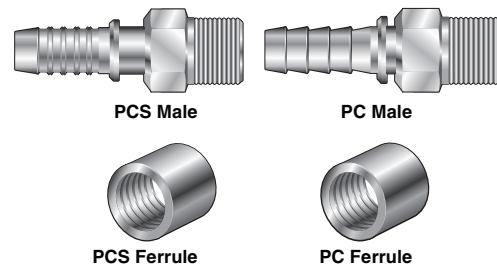
**Solid Male**

**Ferrule**

**Description:** API or NPT threads on connecting end of stem for easy flange attachment. Strong collar to anchor ferrule to stem. Electroplated steel. Also available in stainless steel, brass and other special metals.

**Sources:** Campbell Fittings, Inc. (Max. 1500 psi)  
Dixon Valve & Coupling Co.  
George Myer Company, Inc.  
ProGrip Co. (Max. 500 psi)

**72 Gates Power Crimp®**



**PCS Male**

**PC Male**

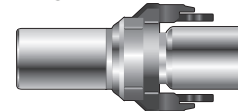
**PCS Ferrule**

**PC Ferrule**

**Description:** API or NPT threads on connecting end of stem for easy flange attachment. Strong collar to anchor ferrule to stem. Electroplated steel. Also available in stainless steel.

**Sources:** Gates Corp.

**73 Permanent Swaged or Crimped**

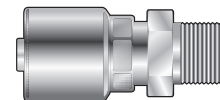


**Cam and Groove**

**Description:** NPT threads on connecting end of stem for easy flange attachment. Strong collar to anchor ferrule to stem. Electroplated steel. Also available in stainless steel, brass and other special metals.

**Sources:** A P G  
Dixon Valve & Coupling Co.  
ProGrip Co.

**74 Gates MegaCrimp™**



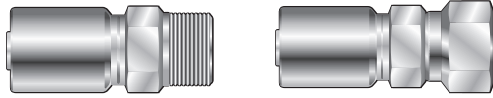
**Description:** NPT threads on connecting end of stem for easy flange attachment. Tuffcoat™ plated steel. The “C” insert assures an even distribution of crimping forces to form a concentric seal.  
**Sources:** Gates Corp.





**Couplings for Gates Hose—continued**

**75 Gates GLX®**



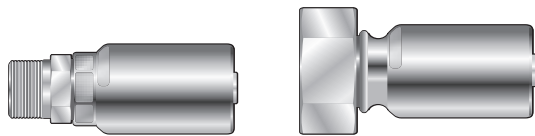
**Male Pipe**

**Female Swivel**

**Description:** One piece staked ferrule design. Smooth ferrule ID designed for textile reinforced transfer hoses. Male pipe NPTF 30° cone seat and female JIC 37° flare swivel terminations. TuffCoat™ plated steel for 400 hour red rust corrosion protection (SAE-J516 and ASTMB-117 salt spray conditions).

**Sources:** Gates Corp.

**76 Permanent Crimped Steam Hose Couplings**



**Male Pipe**

**Female Ground Joint**

**Description:** Permanently crimped steam hose couplings – Female Viton® Seal Ground Joint or Male NPT Thread. Precision metal to metal contact with a Viton seal provides leak-free performance. Streamlined permanently crimped ferrule eliminates protruding bolts that require retightening and can catch on equipment or cause injury.

**Sources:** Campbell Fittings, Inc.

**77 Gates GSH™ with Integral 2" Fig. 1502 Hammer Unions**



**Description:** One piece, no skive, staked ferrule design. Stem terminations are integral (not Welded) mating male or female Fig. 1502 hammer union subs. The male sub is supplied with a hammer union nut. The female sub is supplied with a rubber lip seal.

**Sources:** Gates Corp.

**78 Crimp Sleeves**

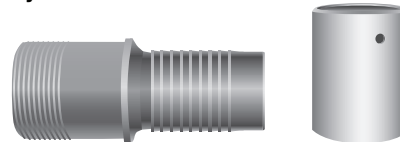


**Description:** Available in plated steel, 316 stainless steel and aluminum. Suitable for replacing band clamps when using pin lug, combination nipple or cam and groove stems. Working pressures are determined by the type of couplings and hose used.

**Sources:** APG

Campbell Fittings, Inc.  
Dixon Valve & Coupling Co.  
P-T Coupling Co.

**79 Holedall Permanent Swage Couplings – Long Style**



**Description:** Patented Holedall couplings include a Holedall stem and specially engineered ferrule. This multi-purpose, high-pressure coupling system requires no bolts and results in a clean coupling with no protrusions.

**Sources:** Dixon Valve & Coupling Co.



## Coupling Sources

**American Couplings Company**

A Dixon Company  
Westmont, IL 60559  
(800) 323-4440

**2 4 19 20**

**Anderson Fittings**

Oak Forrest, IL 60452  
(800) 323-5284

**4 19 20**

**A P G**

Houston, TX 77020  
(800) 888-5223

**1 3 4 5 6 7 14 18 19 36 49 73 78**

**Band-IT-IDEX, Inc.**

Denver, CO 80216  
(303) 320-4555

**7 8 21 48**

**Campbell Fittings, Inc.**

Boyertown, PA 19512  
(800) 367-3678

**4 7 15 18 36 71 76 78**

**Dixon Valve & Coupling Co.**

Chestertown, MD 21620  
(800) 355-1991

**1 6 7 10 14 15 18 19 20 26 35 49  
71 73 78 79**

**Fast-Lok Hose Clamps**

**Division of Deco Products Co.**  
Decorah, IA 52101  
(800) 327-9751

**61**

**Gadd, J.C., Company**

Denver, CO 80227  
(720) 849-4392

**3 23 24 28**

**George Myer Company, Inc.**

Houston, TX 77023  
(800) 600-3074

**71**

**Jagemann Stamping Company**

Manitowoc, WI 54220  
(920) 682-4633

**20**

**Lenz, Inc.**

Dayton, OH 45401  
(937) 277-9364

**4 19**

**Martin Brass Works, Inc.**

Jamaica, NY 11433  
(718) 523-3146

**7 34**

**National Coupling Co.**

Stafford, TX 77477  
(281) 499-2583

**19**

**Nelson Corp., L.R.**

Peoria, IL 61615  
(309) 692-2200

**2**

**OPW Engineered Systems**

Lebanon, OH 45036  
(800) 547-9393

**49**

**P-T Coupling Co.**

**ProGrip Co.**  
**Punch-Lok Co.**  
Enid, OK 73701  
(800) 654-0320

**5 6 7 14 15 18 21 23 26 49 61 71  
73 78**

**Plews-Schrader**

Division of Tomkins Ind. & Auto  
Dixon, IL 61021  
(800) 545-1689

**19 20**

**Scully Signal Co.**

Wilmington, MA 01887  
(617) 692-8600

**49**

**Seal-Fast, Inc.**

Houston, TX 77220  
(800) 681-1515

**1 3 6 7 18 36 49**

**Serv-All Die and Tool Co.**

Crystal Lake, IL 60014  
(815) 459-2900

**23 24 28**

**Truex, Inc.**

Pawtucket, RI 02861  
(800) 458-7839

**20**

**United Metal Industries, Inc.**

New Hyde Park, NY 11040  
(800) 359-6801

**26 27**

**Winzler Stamping Company**

Montpelier, OH 43543  
(419) 485-3147

**20**





## Definitions and Abbreviations

**API Thread**—American Petroleum Institute Thread.

**Block Number**—A number, e.g., **1**, that designates each Gates coupling.

**Conductive**—Rubber designed to transmit electrical current; conducting static electricity

**Coupling**—A device used to attach a hose to a fitting or other hose in a secure, leakproof manner. There are two primary types:

**Permanent**—A coupling that is applied to the hose with crimping or swaging dies and cannot be easily removed. It is referred to as a "one-time coupling."

**Reusable**—A coupling that can be used more than once. It can be applied to or removed from a hose with the use of simple tools.

**Coupling Joint**—This leak proof connection is achieved by fastening together the mating surfaces of two couplings. The leak proof seal is obtained by any one of these methods:

1. Washer seal
2. Mechanical seal
3. Thread seal

**Ferrule**—The external part of the coupling which serves to hold the insert to the hose.

**GHT**—Garden Hose Thread. See Pipe Thread Usage for compatibility.

**Helix**—Reinforcement formed by spiraling a wire or plastic rod around the cylindrical body of hose—usually to resist collapse or improve minimum bend radius.

**I.D.**—Abbreviation for Inside Diameter.

**Insert**—That part of the coupling which fits into the I.D. of the hose, which often has a threaded end, also called stem or nipple.

**IPT**—Iron Pipe Thread. A general term applying to all pipe threads. See Pipe Thread Usage page.

**MBR**—Abbreviation for Minimum Bend Radius. It's the smallest radius, in inches, around which a hose can be bent without over-stressing components, collapsing the hose wall and without substantially reducing fluid flow.

**NPSH**—American Standard Straight Pipe Thread for hose couplings and nipples.

**NPSM**—American Standard Straight Pipe Thread—Common name, straight pipe thread for mechanical joints.

**NPT**—American Standard Taper Pipe Thread—Common name, tapered pipe thread.

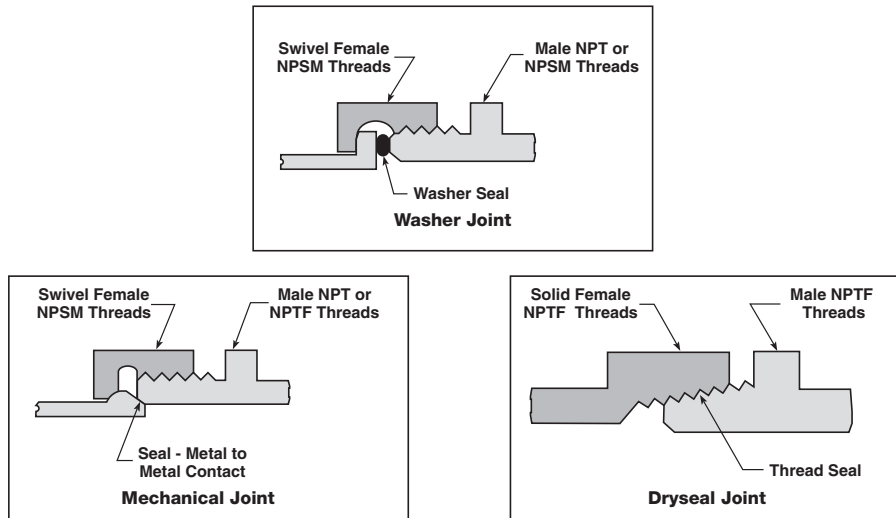
**NPTF**—American Standard Dryseal Pipe Thread—Common name, dryseal for pressure type joints without sealer.

**O.D.**—Abbreviation for Outside Diameter.

**Resistant**—Rubber designed to prevent transmission of electrical current; nonconductive.

**Shank**—That part of the coupling which fits into the I.D. of the hose.

**Chart No. 1  
Coupling Joints**



Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





## RMA Tolerances

**1. Hand Built Hose – Wire and Nonwire (W and SB)**

Size (In.)	I.D. (In.)	O.D. (In.)
3/4 and under	± .031	± .031
Over 3/4 through 2	± .031	± .063
Over 2 through 3-1/2	± .047	± .063
Over 3-1/2 through 4	± .063	± .063
Over 4 through 6-5/8	+ .063 - .250	+ .125 - .250

**2. Vertical Braid Hose (B) & Spiral Hose**

Size (In.)	I.D. (In.)	O.D. (In.)
3/16	± .023	± .031
1/4 through 3/4	± .031	± .031
1 through 1-1/2	± .063	± .063

**3. Horizontal Braid Hose (HB and HW)**

Size (In.)	I.D. (In.)	O.D. (In.)
1/4, 5/16, 3/8	± .016	± .031
1/2, 5/8, 3/4	± .023	± .031
1	± .031	± .031
1-1/4, 1-1/2	± .039	± .047
2	± .039	± .063
2-1/2, 3	± .047	± .063
3-1/2, 4	± .063	± .063

**4. Specified Cut Length of Hose\***

Length (In.)	Tolerance (In.)
12 and under	± .125
Over 12 through 24	± .188
Over 24 through 36	± .250
Over 36 through 48	± .375
Over 48 through 72	± .500
Over 72	± 1%

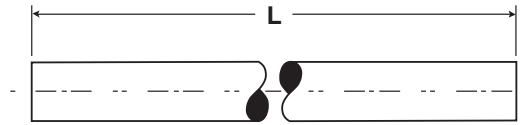
\*Helix wire hoses which can be coiled can appear shorter than the factory cut length. This phenomenon is normal, and the hose(s) will return to the factory cut length upon initial pressurization.

**5. Made-To-Order Hoses**

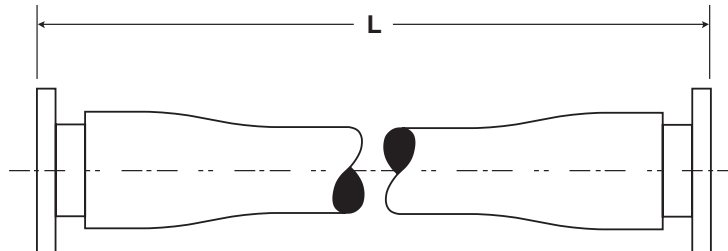
**Wire-Inserted Construction, Gates**

Length (Ft.)	Tolerance (In.)
up to 5	± 1
5 to 10	+ 2, -1
10 to 25	± 2
over 25	± 1%

### How to Measure Hose Lengths and Assemblies



**Uncoupled**



**Coupled or Coupled and Flanged**

Hose or hose assembly lengths (“L”) are measured as shown above, unless otherwise specified.





## Care and Maintenance of Hose

(Reprinted From RMA Hose Handbook)

Hose has a limited life and the user must be alert to signs of impending failure, particularly when the conditions of service include high working pressures and/or the conveyance or containment of hazardous materials. The periodic inspection and testing procedures described here provide a schedule of specific measures which constitute a minimum level of user action to detect signs indicating hose deterioration or loss of performance before conditions leading to malfunction or failure are reached.

**SAFETY WARNING:** Failure to follow properly the manufacturer's recommended procedures for the care, maintenance and storage of a particular hose might result in its failure to perform in the manner intended and might result in possible damage to property and serious bodily injury.

General instructions are also described for the proper storage of hose to minimize deterioration from exposure to elements or environments which are known to be deleterious to rubber products. Proper storage conditions can enhance and extend substantially the ultimate life of hose products.

### General Care and Maintenance of Hose

Hose should not be subjected to any form of abuse in service. It should be handled with reasonable care. Hose should not be dragged over sharp or abrasive surfaces unless specifically designed for such service. Care should be taken to protect hose from severe end loads for which the hose or hose assembly were not designed. Hose should be used at or below its rated working pressure; any changes in pressure should be made gradually so as to not subject the hose to excessive surge pressures. Hose should not be kinked or be run over by equipment. In handling large size hose, dollies should be used whenever possible; slings or handling rigs, properly placed, should be used to support heavy hose used in oil suction and discharge service.

### General Test and Inspection Procedures for Hose

An inspection and hydrostatic test should be made at periodic intervals to determine if a hose is suitable for continued service.

A visual inspection of the hose should be made for loose covers, kinks, bulges or soft spot which might indicate broken or displaced reinforcement. The couplings or fittings should be closely examined and, if there is any sign of movement of the hose from the couplings, the hose should be removed from service.

The periodic inspection should include a hydrostatic test for one minute at 150 percent of the recommended working pressure of the hose. An exception to this would be woven jacketed fire hose.\* During the hydrostatic test, the hose should be straight, not coiled or in a kinked position.

Water is the usual test medium and, following the test, the hose may be flushed with alcohol to remove traces of moisture. A regular schedule for testing should be followed and inspection records maintained.

**SAFETY WARNING:** Before conducting any pressure tests on hose, provision must be made to ensure the safety of the personnel performing the tests and to prevent any possible damage to property. Only trained personnel using proper tools and procedures should conduct any pressure tests.

\*Woven jacket fire hose should be tested in accordance with the service test provisions contained in the current edition of National Fire Protection Bulletin No.1962 — Standard for the Care, Use and Service Testing of Fire Hose.

**1. Air or any other compressible gas must never be used as the test media because of the explosive action of the hose should a failure occur. Such a failure might result in possible damage to property and serious bodily injury.**

**2. Air should be removed from the hose by bleeding it through an outlet valve while the hose is being filled with the test medium.**

**3. Hose to be pressure tested must be restrained by placing steel rods or straps close to each end and at approximate 10 foot (3 m) intervals along its length to keep the hose from "whipping" if failure occurs. The steel rods or straps are to be anchored firmly to the test structure but in such a manner that they do not contact the hose which must be free to move.**

**4. The outlet end of hose is to be bulwarked so that a blown-out fitting will be stopped.**

**5. Provisions must be made to protect testing personnel from the forces of the pressure media if a failure occurs.**

**6. Testing personnel must never stand in front of or in back of the ends of a hose being pressure tested.**

**7. When liquids such as gasoline, oil, solvent, or other hazardous fluids are used as the test fluid, precautions must be taken to protect against fire or other damage should a hose assembly fail and the test liquid be sprayed over the surrounding area.**

The Rubber Manufacturers Association has published separately a series of Hose Technical information bulletins describing hoses designed for different applications which detail Maintenance, Testing and Inspection recommendations. Reference should be made to the current RMA Catalog of Publications to determine the availability of the latest edition. Bulletins published as of January 2003 include the following:

#### Publication No.

- IP 11—1—Steam Hose
- IP 11—2—Anhydrous Ammonia Hose
- IP 11—4—Oil Suction and Discharge Hose
- IP 11—5—Welding Hose
- IP 11—7—Chemical Hose
- IP 11—8—Fuel Dispensing Hose

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



## Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

### Hose Cleaning

There are many different methods used to clean hose assemblies. An apron, safety glasses or face shield, rubber boots and gloves should be worn to help protect the person doing the cleaning from potential injury. Some suggested methods for select hoses in this catalog are listed below. Which method to use and how often cleaning should be performed is based on the following:

- Type of hose
- Residual material in the hose
- Cleanliness requirements for the application
- Cleaning facilities available
- Consideration for disposal of the residual material and cleaning solution(s)
- Requirements for special applications such as foods, pharmaceuticals, etc.

### Solution Recommendations

1. Cleaning solutions should be chosen that will dissolve or remove the residual material without damaging the hose assembly.
2. A dilute solution of soap in water can often be sufficient. CAUTION – Some chemicals, such as concentrated acids or bases, can react with water releasing heat and byproducts, and possibly splatter.
3. Consult the MSDS of the material being cleaned to identify potential cleaning solutions.
4. After identifying potential cleaning solutions, check Chemical Resistance Table in this catalog for compatibility with hose tube and cover.
5. Non-compatibility of a cleaning solution can cause damage to the hose.

### Flushing or Immersing in a Cleaning Bath

1. **Do not exceed the maximum working pressure or temperature for the hose.**
2. The cover of the hose should also be washed or wiped to remove any residual material.

### Steam Cleaning

1. **Steam cleaning is not generally recommended.** High temperatures can accelerate aging of a hose and shorten service life.
2. **Do not exceed the maximum temperature rating of the hose.** Doing so can cause defects such as tube delamination (reducing tube to reinforcement adhesion), tube cracking or tube flow leaving thin spots.
3. **Never use superheated steam!** This will exaggerate the potential damages noted above. Only “open end” 50 psi steam should be used.
4. If the hose has blockage, remove it before introducing steam.
5. If the steam source has a wand attached, use caution inserting the wand so that physical damage to the hose is not caused. Sharp edges on the wand can cut the tube, and thin spots could occur where the hot wand contacts the tube.

### Shuttle Method

1. **This is not a recommended cleaning method for hose assemblies.**
2. This method uses a shuttle to travel through the inside of the hose assembly to wipe residual material from the hose. The shuttle and residual material can come out of the hose at velocities that could cause injuries or damage.
3. There is also danger from a build up of pressure if the shuttle becomes lodged.
4. The shuttle can cause damage to the hose tube.

### Recommended Cleaning of Chemical Hose

1. Drain the hose after each use.
2. Flush with water or other neutralizing cleaning solution.
3. Properly dispose of drained fluid and cleaning waste.
4. Between uses, store the hose in a clean, dry environment away from sunlight.
5. **Avoid cross contamination.** Dedicate a hose to handle a specific chemical.

### Recommended Cleaning of Food Hose

1. Drain the hose after each use.
2. Flush with water or other cleaning solution.
3. Properly dispose of drained material and cleaning waste.
4. Between uses, store the hose in a clean, dry environment away from sunlight.
5. **Avoid cross contamination.** Dedicate a hose to handle a specific food material.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

## Storage

Rubber hose products in storage can be affected adversely by temperature, humidity, ozone, sunlight, oils, solvents, corrosive liquids and fumes, insects, rodents and radioactive materials.

The appropriate method for storing hose depends to a great extent on its size (diameter and length), the quantity to be stored and the way in which it is packaged. Hose should not be piled or stacked to such an extent that the weight of the stack creates distortions on the length stored at the bottom.

Since hose products vary considerably in size, weight and length, it is not practical to establish definite recommendations on this point. Hose having a very light wall will not support as much load as could a hose having a heavier wall or hose having a wire reinforcement. Hose which is shipped in coils or bales should be stored so that the coils are in a horizontal plane.

Whenever feasible, rubber hose products should be stored in their original shipping containers, especially when such containers are wooden crates or cardboard cartons which provide some protection against the deteriorating effects of oils, solvents and corrosive liquids; shipping containers also afford some protection against ozone and sunlight.

Certain rodents and insects will damage rubber hose products and adequate protection from them should be provided.

Cotton jacketed hose should be protected against fungal growths if the hose is to be stored for prolonged periods in humid conditions in excess of 70 percent.

The ideal temperature for the storage of rubber products ranges for 50° to 70°F (10-21°C) with a maximum limit of 100°F (38°C). If stored below 32°F (0°C), some rubber products become stiff and would require warming before being placed in service. Rubber products should not be stored near sources of heat, such as radiators, base heaters, etc., nor should they be stored under conditions of high or low humidity.

To avoid the adverse effects of high ozone concentration, rubber hose products should not be stored near electrical equipment that may generate ozone or be stored for any lengthy period in geographical areas of known high ozone concentration. Hose should not be stored in locations where the ozone level exceeds the National Institute of Occupational Safety and Health's upper limits of 0.10 ppm. Exposure to direct or reflected sunlight – even through windows – should also be avoided. Uncovered hose should not be stored under fluorescent or mercury lamps which generate light waves harmful to rubber.

Storage areas should be relatively cool and dark, and free of dampness and mildew. Items should be stored on a first-in, first-out basis, since even under the best of conditions, an unusually long shelf life could deteriorate certain rubber products.

## Decimal and Millimeter Equivalents of Fractions

Inches		Decimals	Millimeters
Fractions			
1/64		.015625	.397
	1/32	.03125	.794
3/64		.046875	1.191
	1/16	.0625	1.588
5/64		.078125	1.984
	3/32	.09375	2.381
7/64		.109375	2.778
	1/8	.125	3.175
9/64		.140625	3.572
	5/32	.15625	3.969
11/64		.171875	4.366
	3/16	.1875	4.763
13/64		.203125	5.159
	7/32	.21875	5.556
15/64		.234375	5.953
	1/4	.250	6.350
17/64		.265625	6.747
	9/32	.28125	7.144
19/64		.296875	7.541
	5/16	.3125	7.938
21/64		.328125	8.334
	11/32	.34375	8.731
23/64		.359375	9.128
	3/8	.375	9.525
25/64		.390625	9.922
	13/32	.40625	10.319
27/64		.421875	10.716
	7/16	.4375	11.113
29/64		.453125	11.509
	15/32	.46875	11.906
31/64		.484375	12.303
	1/2	.500	12.700

Inches		Decimals	Millimeters
Fractions			
33/64		.515625	13.097
	17/32	.53125	13.494
35/64		.546875	13.891
	9/16	.5625	14.288
37/64		.578125	14.684
	19/32	.59375	15.081
39/64		.609375	15.478
	5/8	.625	15.875
41/64		.640625	16.272
	21/32	.65625	16.669
43/64		.671875	17.066
	11/16	.6875	17.463
45/64		.703125	17.859
	23/32	.71875	18.256
47/64		.734375	18.653
	3/4	.750	19.050
49/64		.765625	19.447
	25/32	.78125	19.844
51/64		.796875	20.241
	13/16	.8125	20.638
53/64		.828125	21.034
	27/32	.84375	21.431
55/64		.859375	21.828
	7/8	.875	22.225
57/64		.890625	22.622
	29/32	.90625	23.019
59/64		.921875	23.416
	15/16	.9375	23.813
61/64		.953125	24.209
	31/32	.96875	24.606
63/64		.984375	25.003
	1	1.000	25.400

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



Rubber hoses are used basically to convey material. They are used for a variety of reasons, but principally for:

- Flexibility; allows for changes in alignment, hookup or outlet.
- Absorbing vibration.
- Resistance to Corrosive fluids.
- Resistance to abrasion.
- Providing a closed system.

In applying any product, the more you know about the application, the better the product you choose to meet the needs of the application. This is particularly true with hose because of the many variables involved.

Each type of hose and coupling is designed to give satisfactory, safe service life for a particular application. To obtain this service life, the user should:

- Select the proper hose and couplings for the application.
- Take reasonable care of the hose assembly while it is in service.
- Maintain the hose assembly in good working condition.
- Observe all applicable safety regulations.

If a hose assembly was incorrectly selected to solve an application problem, there is very little that care and maintenance can do to prolong its service life. It's very simple: hoses will fail soon regardless of the care and maintenance provided if they are misapplied.

When designing a system with rubber hose, engineering principles regarding materials always apply. Take advantage of the outstanding characteristics of rubber materials listed on the Characteristics and Resistance Information for Hose Tube and Cover Compounds page and avoid those conditions that shorten hose life. Some of these conditions are:

- Exposure to higher-than-rated temperatures.
- Exposure to severe external abuse such as kinking, pulling, excessive bending.
- Exposure to corrosive fluids to which hose has little resistance.
- Subjecting hose to higher than rated working pressure/high surge pressure.

The process of selecting hoses from Industrial Hose Products #39496-000 or the following Data Pages usually is resolved in one of two ways:

- Making the optimum choice from several possible selections for an application.
- Making the only choice, which satisfies all the requirements of a somewhat special application; i.e., transfer of LP Gas.

Hoses are versatile, and it's often possible to use one type of hose for several different applications. However, certain specific applications are critical and/or hazardous, and the only type of hose used should be the one Gates recommends for that application. Some of the critical or hazardous applications involving hoses are:

- Steam.
- Liquid Petroleum Gas (LPG).
- Corrosive chemicals.
- Air Drill operation.

Refer to the product description pages in this catalog for details of hoses used in these applications.

The hoses listed in this Hose Finder may be found in one or more additional Gates catalogs or Market Specifications publications.

The Data Pages are intended to give you a reference for quickly locating standard line hoses for a given application. Hoses are listed by size (I.D.) and rated working pressure. Pertinent specification information is also provided for each hose.

### Precautionary Notes

**Not all of the sizes shown are stock items and may require minimum order quantities. In addition, many of the larger diameter hoses (water, material handling, etc.) are made to order. For availability, delivery and pricing information refer to your Industrial Hose Products #39496-000, Customer Service Representative in Denver or your local Gates Representative.**





## PROPER HOSE SELECTION

Proper hose selection is the first step in preventive maintenance. Selecting the best product for the application will allow you to obtain the maximum life expectancy from the product for the best value.

When selecting the correct hose, use the acronym **STAMPED** as your guide:

**S – Size:**

- I.D. (Inside Diameter)
- O.D. (Outside Diameter)
- Based on the machinery sizing.

**T – Temperature:**

- Consider exterior and interior temperature, as well as temperature impact on the material being conveyed.

**A – Application:**

- Where will the hose be used?
- How will the hose be used?
- How often will the hose be used (continuous, intermittent, seldom)?
- What are the environmental conditions?
- Special hose construction (crush resistant)?
- Conductivity requirements?
- Is the hose used in a critical application?
- Government or Industrial Standard requirements?
- Use hoses that are specifically designed for these applications:
  - Steam
  - LP Gas
  - Aircraft Ground Refueling
  - Corrosive Chemicals

**M – Material  
being  
conveyed:**

- Chemical name(s) and state(s) – (liquid, solid or gas)
- Food
- Dry or powder
- Liquid

**P – Pressure:**

- What is the working pressure?
- What is the maximum surge pressure?
- Is there a vacuum?

**E – End  
requirements:**

- What type of thread ends?
- See Coupling Section.

**D – Delivery:**

- Identify how many items and when they need to be supplied.
  - Distributors – Call Customer Service.
  - End Users – Call Distributors.



## Explanation of Column Headings

1. **Hose I.D. (In.)** — This is the nominal hose inside diameter in inches (Refer to RMA Tolerances page).
2. **Hose Name** — This is the hose identification shown in the catalog. For some special hoses, it may be a number, not a name.
3. **Rated Working Pressure (psi)** — This is the design working pressure and is based on a certain percentage of the hose burst value. It varies with hose type and intended application.
4. **Suction (In. Hg)** — This is the vacuum rating of the hose when used in suction applications at ambient temperatures, and not bent beyond the minimum bend radius.
5. **Hose O.D.** — The outside diameter (Refer to RMA Tolerances page).
6. **Tube** — For reference, the Gates rubber type identification is given and the color used on that particular hose. Refer to Characteristics and Resistance Information for Hose Tube and Cover Compounds page for a description of these stocks.  
**Oil Resistance** — RMA Oil Resistance rating is listed:  
  - High = High
  - Med. = Medium
  - Low = Low > 100% swell
  - = Not Rated.
7. **Cover** — Same information for tube stock.

Color Abbreviations:

<b>Beige</b> – Beige	<b>Mar</b> – Maroon
<b>Blk</b> – Black	<b>Nat</b> – Natural
<b>Blu</b> – Blue	<b>Org</b> – Orange
<b>Bur</b> – Burgundy	<b>Red</b> – Red
<b>Clear</b> – Clear	<b>Tan</b> – Tan
<b>Gld</b> – Gold	<b>Wht</b> – White
<b>Grn</b> – Green	<b>Yel</b> – Yellow
<b>Gry</b> – Gray	

Refer to the product description pages in this catalog for description of any special cover stripes.

8. **Hose Weight (lb/ft)** — This is approximate measurement per current specification.
9. **Minimum Bend Radius** — This is the smallest radius in inches around which a hose can be bent without overstressing components, without collapsing the hose wall and without substantially reducing fluid flow.
10. **Hose Temperature Range** — Includes maximum and minimum temperatures of each hose listed.
11. **Hose Category** — This is a listing of hose types as indicated in the Table of Contents of the Industrial Hose Products #39496-000. Most hoses are not limited to these applications only.

## How to Select a Hose From the Data Pages

### Example 1

**Given:** A customer wants a 3/4" I.D. x 20" hose to handle air or water and general purpose applications. Temperatures are ambient, a pressure rating up to 300 psi is required and it must have textile reinforcement with a high oil resistant tube.

Turn to Hose Finder Data Pages for the listing of 3/4" I.D. hoses. In the Rated Working Pressure column, you will find the 300 psi figures. NOTE: Several hoses have a 300 psi rating or higher. But, the ones with textile reinforcement and high oil resistance that are multi-purpose are 19B, 119B or Premo Flex® hoses. All of these hoses could be suitable for the application. Refer to corresponding catalog page number for specific hose details and coupling recommendations.

### Example 2

**Given:** 6" x 50" dry powder food grade transfer hose is needed. The hose requirements are: full suction, 50 psi and a temperature of 100°F.

Turn to Hose Finder Data Pages for the listing of 6" I.D. hoses. In the Rated Working Pressure column, you will find the 50 psi rating or higher. The two hoses with 50 psi and full suction ratings and suitable for bulk food transfer are 690SB and 692SB. Refer to corresponding catalog page number for specific hose details and coupling recommendations.





Hose I.D. (In.)	Name	Rated W.P. (psi)	Suction (In. Hg.)	Hose O.D. (In.)	Tube Type	Cover Type	Min. Bend Radius (In.)	Hose Wt. (Lbs./Ft.)	Temp (°F)		Hose Categories	Catalog Page No.
									Min.	Max.		
7/64	Vacuum Tubing	—	30.0	0.12	P	—	1.5	1.00	-40°F	+257°F	Marine	66
5/32	Vacuum Tubing	—	30.0	0.19	P	—	1.5	1.50	-40°F	+257°F	Marine	66
3/16	4219G (Fuel Line & Tank Vent)	50	24.0	0.41	C	C <sub>2</sub>	3.0	0.07	-40°F	+257°F	Marine	63
	LPG Vapor	125	30.0	0.44	C	A	2.0	0.08	-30°F	+150°F	Petroleum Transfer	113
	Premo Flex	250	30.0	0.45	C	C <sub>2</sub>	2.0	0.07	-40°F	+212°F	Air and Multi-Purpose	25
	19B Plant Master	500	30.0	0.43	C	C <sub>2</sub>	3.0	0.07	-40°F	+212°F	Air and Multi-Purpose	20
7/32	Vacuum Tubing	—	30.0	0.25	P	—	2.0	2.50	-40°F	+257°F	Marine	66
1/4	Vacuum Tubing	—	30.0	0.31	P	—	2.0	3.00	-40°F	+257°F	Marine	66
	Fuel Line (USCG Type A1)	40	28.0	0.64	C	A	2.5	4.73	-40°F	+212°F	Marine	61
	Fuel Line (USCG Type A1)	40	28.0	0.64	C	A	2.5	45.36	-40°F	+212°F	Marine	61
	Fuel Line (USCG Type A1)	40	28.0	0.64	C	A	2.5	8.56	-40°F	+212°F	Marine	61
	Fuel Line (USCG Type B)	40	28.0	0.50	C	M	2.5	22.40	-40°F	+250°F	Marine	62
	Fuel Line (USCG Type B)	40	28.0	0.50	C	M	2.5	4.48	-40°F	+250°F	Marine	62
	4219G (Fuel Line & Tank Vent)	50	24.0	0.50	C	C <sub>2</sub>	3.0	0.09	-40°F	+257°F	Marine	63
	LPG Vapor	125	30.0	0.53	C	A	3.0	0.11	-30°F	+150°F	Petroleum Transfer	113
	Adapta Flex Black	200	30.0	0.50	P	P	3.0	0.09	-40°F	+200°F	Air and Multi-Purpose	30
	Adapta Flex Red	200	30.0	0.50	P	P	3.0	0.09	-40°F	+200°F	Air and Multi-Purpose	28
	Adapta Flex Red Cover - UPS Shippable Reels	200	30.0	0.50	P	P	3.0	0.09	-40°F	+200°F	Air and Multi-Purpose	29
	119B Plant Master	250	30.0	0.50	C	A	3.0	0.09	-40°F	+212°F	Air and Multi-Purpose	21
	19B Plant Master	250	30.0	0.50	C	C <sub>2</sub>	3.0	0.09	-40°F	+212°F	Air and Multi-Purpose	20
	6B Dura Master	250	30.0	0.50	B <sub>1</sub>	P	3.0	0.09	-40°F	+200°F	Air and Multi-Purpose	26
	Adapta Flex Black	250	30.0	0.50	P	P	3.0	0.09	-40°F	+200°F	Air and Multi-Purpose	30
	Adapta Flex Black	250	30.0	0.62	P	P	3.0	0.15	-40°F	+200°F	Air and Multi-Purpose	30
	Adapta Flex Blue, Green & Yellow Cover	250	30.0	0.50	P	P	3.0	0.09	-40°F	+200°F	Air and Multi-Purpose	31
	Adapta Flex Red	250	30.0	0.50	P	P	3.0	0.09	-40°F	+200°F	Air and Multi-Purpose	28
	Adapta Flex Red	250	30.0	0.62	P	P	3.0	0.15	-40°F	+200°F	Air and Multi-Purpose	28
	Duro Flex	250	30.0	0.50	B <sub>1</sub>	P	2.0	0.09	-40°F	+200°F	Air and Multi-Purpose	27
	Premo Flex	250	30.0	0.50	C	C <sub>2</sub>	2.0	0.09	-40°F	+212°F	Air and Multi-Purpose	25
	Tufflex Food	250	—	0.47	G	G	—	0.07	-10°F	+130°F	Food and Beverage	50
	Adapta Flex Red	300	30.0	0.53	P	P	3.0	0.10	-40°F	+200°F	Air and Multi-Purpose	28
	Duro Flex	300	30.0	0.57	B <sub>1</sub>	P	2.0	0.12	-40°F	+200°F	Air and Multi-Purpose	27
	LOL Plus (Lock-On Hose)	300	27.9	0.47	C	A	3.0	0.09	-40°F	+212°F	Air and Multi-Purpose	23
	Python Plus (Lock-On Hose)	300	30.0	0.54	C	A	3.0	0.11	-20°F	+212°F	Air and Multi-Purpose	24
	Tufflex Plus	300	25.0	0.50	G <sub>1</sub>	G <sub>1</sub>	.7	0.11	-15°F	+150°F	Air and Multi-Purpose	32
	6B Dura Master	315	30.0	0.62	B <sub>1</sub>	P	3.0	0.15	-40°F	+200°F	Air and Multi-Purpose	26
	Premo Flex	315	30.0	0.57	C	C <sub>2</sub>	2.0	0.12	-40°F	+212°F	Air and Multi-Purpose	25
	LP350X (Butane-Propane)	350	30.0	0.58	C	A	3.0	0.14	-40°F	+180°F	Petroleum Transfer	112
	119B Plant Master	500	30.0	0.62	C	A	3.0	0.16	-40°F	+212°F	Air and Multi-Purpose	21
	19B Plant Master	500	30.0	0.62	C	C <sub>2</sub>	3.0	0.14	-40°F	+212°F	Air and Multi-Purpose	20
	77B (Paint Spray and Chemical)	500	30.0	0.52	Z	A	3.0	0.09	-40°F	+150°F	Acid-Chemical	19
C5M Fuel Line	500	20.0	0.58	C	C <sub>2</sub>	1.3	0.22	-4°F	+212°F	Marine	60	
Terminator	501	30.0	0.57	C	C <sub>4</sub>	3.0	0.12	-40°F	+212°F	Air and Multi-Purpose	22	
319MB Gold Master	1000	30.0	0.63	A	M	3.0	0.22	-40°F	+212°F	Air and Multi-Purpose	33	
Pressure Washer Assemblies	3000	30.0	0.48	C	C <sub>2</sub>	4.0	5.50	-40°F	+250°F	Pressure Washer	117	
PowerClean - 1 Wire Braid	3500	30.0	0.53	C	C <sub>2</sub>	4.0	0.15	-40°F	+250°F	Pressure Washer	115	
PowerClean - 2 Wire Braid	6000	30.0	0.59	C	C <sub>2</sub>	4.0	0.25	-40°F	+250°F	Pressure Washer	116	
5/16	Vacuum Tubing	—	30.0	0.38	P	—	2.5	1.75	-40°F	+257°F	Marine	66
	Fuel Line (USCG Type A1)	40	28.0	0.70	C	A	3.0	10.15	-40°F	+212°F	Marine	61
	Fuel Line (USCG Type A1)	40	28.0	0.70	C	A	3.0	5.08	-40°F	+212°F	Marine	61
	Fuel Line (USCG Type A1)	40	28.0	0.70	C	A	3.0	53.57	-40°F	+212°F	Marine	61
	Fuel Line (USCG Type B)	40	28.0	0.58	C	M	3.0	27.95	-40°F	+250°F	Marine	62
	Fuel Line (USCG Type B)	40	28.0	0.58	C	M	3.0	5.59	-40°F	+250°F	Marine	62
	4219G (Fuel Line & Tank Vent)	50	24.0	0.56	C	C <sub>2</sub>	3.0	0.10	-40°F	+257°F	Marine	63





**Industrial Hose  
Products**

# Hose Finder

## Data Pages

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Hose I.D. (In.)	Name	Rated W.P. (psi)	Suction (In. Hg.)	Hose O.D. (In.)	Tube Type	Cover Type	Min. Bend Radius (In.)	Hose Wt. (Lbs./Ft.)	Temp (°F)		Hose Categories	Catalog Page No.
									Min.	Max.		
5/16	Heater Hose	75	25.0	0.62	P	P	2.0	0.14	-40°F	+257°F	Marine	56
	Adapta Flex Red	200	30.0	0.53	P	P	3.0	0.09	-40°F	+200°F	Air and Multi-Purpose	28
	119B Plant Master	250	30.0	0.62	C	A	3.0	0.13	-40°F	+212°F	Air and Multi-Purpose	21
	19B Plant Master	250	30.0	0.62	C	C <sub>2</sub>	3.0	0.13	-40°F	+212°F	Air and Multi-Purpose	20
	6B Dura Master	250	30.0	0.62	B <sub>1</sub>	P	3.0	0.14	-40°F	+200°F	Air and Multi-Purpose	26
	Premo Flex	250	30.0	0.56	C	C <sub>2</sub>	2.0	0.10	-40°F	+212°F	Air and Multi-Purpose	25
	Premo Flex	315	30.0	0.67	C	C <sub>2</sub>	2.0	0.16	-40°F	+212°F	Air and Multi-Purpose	25
	19B Plant Master	500	30.0	0.69	C	C <sub>2</sub>	3.0	0.17	-40°F	+212°F	Air and Multi-Purpose	20
	77B (Paint Spray and Chemical)	500	30.0	0.59	Z	A	3.0	0.11	-40°F	+150°F	Acid-Chemical	19
C5M Fuel Line	500	20.0	0.67	C	C <sub>2</sub>	1.3	0.26	-4°F	+212°F	Marine	60	
3/8	Vacuum Tubing	—	30.0	0.44	P	—	3.0	2.50	-40°F	+257°F	Marine	66
	Fuel Line (USCG Type A1)	40	28.0	0.77	C	A	3.0	11.04	-40°F	+212°F	Marine	61
	Fuel Line (USCG Type A1)	40	28.0	0.77	C	A	3.0	6.10	-40°F	+212°F	Marine	61
	Fuel Line (USCG Type A1)	40	28.0	0.77	C	A	3.0	60.99	-40°F	+212°F	Marine	61
	4219G (Fuel Line & Tank Vent)	50	24.0	0.62	C	C <sub>2</sub>	4.0	0.12	-40°F	+257°F	Marine	63
	Heater Hose	75	25.0	0.69	P	P	2.5	0.16	-40°F	+257°F	Marine	56
	Engine Coolant (Silicone)	110	—	0.74	MQ	MQ	—	0.19	-65°F	+347°F	Marine	55
	LPG Vapor	125	25.0	0.66	C	A	3.0	0.14	-30°F	+150°F	Petroleum Transfer	113
	Adapta Flex Black	200	30.0	0.66	P	P	3.0	0.14	-40°F	+200°F	Air and Multi-Purpose	30
	Adapta Flex Red	200	30.0	0.66	P	P	3.0	0.14	-40°F	+200°F	Air and Multi-Purpose	28
	Adapta Flex Red Cover - UPS Shippable Reels	200	30.0	0.66	P	P	3.0	0.14	-40°F	+200°F	Air and Multi-Purpose	29
	Tufflex Food	200	—	0.63	G	G	—	0.11	-10°F	+130°F	Food and Beverage	50
	119B Plant Master	250	30.0	0.69	C	A	3.0	0.15	-40°F	+212°F	Air and Multi-Purpose	21
	19B Plant Master	250	30.0	0.69	C	C <sub>2</sub>	3.0	0.15	-40°F	+212°F	Air and Multi-Purpose	20
	205MB Steam King	250	30.0	0.78	P <sub>2</sub>	P <sub>2</sub>	4.0	0.26	-40°F	+450°F	Steam	120
	232MB Steam Queen	250	30.0	0.80	P <sub>2</sub>	B <sub>1</sub>	4.0	0.30	-40°F	+450°F	Steam	121
	6B Dura Master	250	30.0	0.69	B <sub>1</sub>	P	3.0	0.16	-40°F	+200°F	Air and Multi-Purpose	26
	Adapta Flex Black	250	30.0	0.66	P	P	3.0	0.14	-40°F	+200°F	Air and Multi-Purpose	30
	Adapta Flex Blue, Green & Yellow Cover	250	30.0	0.66	P	P	3.0	0.14	-40°F	+200°F	Air and Multi-Purpose	31
	Adapta Flex Red	250	30.0	0.66	P	P	3.0	0.14	-40°F	+200°F	Air and Multi-Purpose	28
	Duro Flex	250	30.0	0.66	B <sub>1</sub>	P	3.0	0.14	-40°F	+200°F	Air and Multi-Purpose	27
	Premo Flex	250	30.0	0.66	C	C <sub>2</sub>	3.0	0.14	-40°F	+212°F	Air and Multi-Purpose	25
	Adapta Flex Blue, Green & Yellow Cover	300	30.0	0.69	P	P	3.0	0.15	-40°F	+200°F	Air and Multi-Purpose	31
	Adapta Flex Red	300	30.0	0.67	P	P	3.0	0.15	-40°F	+200°F	Air and Multi-Purpose	28
	Duro Flex	300	30.0	0.73	B <sub>1</sub>	P	3.0	0.18	-40°F	+200°F	Air and Multi-Purpose	27
	LOL Plus (Lock-On Hose)	300	27.9	0.63	C	A	3.0	0.11	-40°F	+212°F	Air and Multi-Purpose	23
	Ohmega (Pot Room)	300	30.0	0.75	P	P	3.0	0.19	-20°F	+150°F	Air and Multi-Purpose	36
	Python Plus (Lock-On Hose)	300	30.0	0.68	C	A	3.0	0.15	-20°F	+212°F	Air and Multi-Purpose	24
	Tufflex Plus	300	25.0	0.60	G <sub>1</sub>	G <sub>1</sub>	1.0	0.11	-15°F	+150°F	Air and Multi-Purpose	32
	6B Dura Master	315	30.0	0.75	B <sub>1</sub>	P	3.0	0.20	-40°F	+200°F	Air and Multi-Purpose	26
	Premo Flex	315	30.0	0.73	C	C <sub>2</sub>	3.0	0.18	-40°F	+212°F	Air and Multi-Purpose	25
	LP350X (Butane-Propane)	350	30.0	0.74	C	A	3.0	0.21	-40°F	+180°F	Petroleum Transfer	112
	119B Plant Master	500	30.0	0.75	C	A	3.0	0.21	-40°F	+212°F	Air and Multi-Purpose	21
	19B Plant Master	500	30.0	0.75	C	C <sub>2</sub>	3.0	0.18	-40°F	+212°F	Air and Multi-Purpose	20
	77B (Paint Spray and Chemical)	500	30.0	0.67	Z	A	3.0	0.14	-40°F	+150°F	Acid-Chemical	19
	Terminator	501	25.0	0.75	C	C <sub>4</sub>	3.0	0.19	-40°F	+212°F	Air and Multi-Purpose	22
	Thermo AG 570 (Ag Spray)	570	25.0	0.67	G	G	4.0	0.12	-10°F	+130°F	Acid-Chemical	17
	Thermo AG 800 (Ag Spray)	800	25.0	0.69	G	G	4.0	0.14	-10°F	+130°F	Acid-Chemical	18
	319MB Gold Master	1000	30.0	0.77	A	M	3.0	0.31	-40°F	+212°F	Air and Multi-Purpose	33
	Cyclone	1000	30.0	0.73	C <sub>2</sub>	C <sub>2</sub>	4.0	0.18	-40°F	+212°F	Pressure Washer	118
33HB (Divers' Air)	1125	30.0	0.75	C	A	4.0	0.19	-40°F	+120°F	Air and Multi-Purpose	37	
PowerClean - 1 Wire Braid	3000	30.0	0.68	C	C <sub>2</sub>	5.0	0.23	-40°F	+250°F	Pressure Washer	115	
Pressure Washer Assemblies	3000	30.0	0.63	C	C <sub>2</sub>	5.0	8.50	-40°F	+250°F	Pressure Washer	117	





**Industrial Hose  
Products**

# Hose Finder

## Data Pages

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Hose I.D. (In.)	Name	Rated W.P. (psi)	Suction (In. Hg.)	Hose O.D. (In.)	Tube Type	Cover Type	Min. Bend Radius (In.)	Hose Wt. (Lbs./Ft.)	Temp (°F)		Hose Categories	Catalog Page No.
									Min.	Max.		
3/8	PowerClean - 1 Wire Braid	4000	30.0	0.68	C	C <sub>2</sub>	5.0	0.23	-40°F	+250°F	Pressure Washer	115
	PowerClean - 1 Wire Braid	4000	30.0	0.68	C	C <sub>2</sub>	5.0	0.25	-40°F	+250°F	Pressure Washer	115
	PowerClean - 2 Wire Braid	5000	30.0	0.74	C	C <sub>2</sub>	5.0	0.35	-40°F	+250°F	Pressure Washer	116
13/32	C5M Fuel Line	500	20.0	0.77	C	C <sub>2</sub>	1.8	0.29	-4°F	+212°F	Marine	60
1/2	4219G (Fuel Line & Tank Vent)	35	10.0	0.78	C	C <sub>2</sub>	5.0	0.16	-40°F	+257°F	Marine	63
	Fuel Line (USCG Type A1)	40	28.0	0.89	C	A	5.0	13.33	-40°F	+212°F	Marine	61
	Fuel Line (USCG Type A1)	40	28.0	0.89	C	A	5.0	66.65	-40°F	+212°F	Marine	61
	Fuel Line (USCG Type A1)	40	28.0	0.89	C	A	5.0	7.37	-40°F	+212°F	Marine	61
	Heater Hose	75	25.0	0.81	P	P	3.0	0.19	-40°F	+257°F	Marine	56
	Engine Coolant (Silicone)	110	—	0.87	MQ	MQ	—	0.23	-65°F	+347°F	Marine	55
	429W (Sand Blast)	150	25.0	1.23	D <sub>3</sub>	D	5.0	0.55	-40°F	+150°F	Material Handling	71
	Adapta Flex Black	200	25.0	0.81	P	P	5.0	0.19	-40°F	+200°F	Air and Multi-Purpose	30
	Adapta Flex Red	200	25.0	0.81	P	P	5.0	0.19	-40°F	+200°F	Air and Multi-Purpose	28
	Adapta Flex Red Cover - UPS Shippable Reels	200	25.0	0.81	P	P	5.0	0.19	-40°F	+200°F	Air and Multi-Purpose	29
	Creamery/Paper Mill Washdown	200	25.0	0.91	P	P	5.0	0.28	-40°F	+212°F	Pressure Washer	119
	Tufflex Food	200	—	0.75	G	G	—	0.13	-10°F	+130°F	Food and Beverage	50
	119B Plant Master	250	25.0	0.84	C	A	5.0	0.21	-40°F	+212°F	Air and Multi-Purpose	21
	19B Plant Master	250	25.0	0.84	C	C <sub>2</sub>	5.0	0.20	-40°F	+212°F	Air and Multi-Purpose	20
	205MB Steam King	250	25.0	1.06	P <sub>2</sub>	P <sub>2</sub>	7.0	0.40	-40°F	+450°F	Steam	120
	232MB Steam Queen	250	25.0	1.02	P <sub>2</sub>	B <sub>1</sub>	7.0	0.45	-40°F	+450°F	Steam	121
	6B Dura Master	250	25.0	0.84	B <sub>1</sub>	P	5.0	0.21	-40°F	+200°F	Air and Multi-Purpose	26
	Adapta Flex Black	250	25.0	0.81	P	P	5.0	0.19	-40°F	+200°F	Air and Multi-Purpose	30
	Adapta Flex Blue, Green & Yellow Cover	250	25.0	0.81	P	P	5.0	0.19	-40°F	+200°F	Air and Multi-Purpose	31
	Adapta Flex Red	250	25.0	0.81	P	P	5.0	0.19	-40°F	+200°F	Air and Multi-Purpose	28
	Duro Flex	250	25.0	0.81	B <sub>1</sub>	P	4.0	0.19	-40°F	+200°F	Air and Multi-Purpose	27
	Premo Flex	250	25.0	0.85	C	C <sub>2</sub>	4.0	0.22	-40°F	+212°F	Air and Multi-Purpose	25
	Adapta Flex Blue, Green & Yellow Cover	300	25.0	0.83	P	P	5.0	0.20	-40°F	+200°F	Air and Multi-Purpose	31
	Adapta Flex Red	300	25.0	0.83	P	P	5.0	0.20	-40°F	+200°F	Air and Multi-Purpose	28
	Duro Flex	300	25.0	0.84	B <sub>1</sub>	P	4.0	0.25	-40°F	+200°F	Air and Multi-Purpose	27
	LOL Plus (Lock-On Hose)	300	27.9	0.77	C	A	5.0	0.15	-40°F	+212°F	Air and Multi-Purpose	23
	Ohmega (Pot Room)	300	25.0	0.88	P	P	5.0	0.24	-20°F	+150°F	Air and Multi-Purpose	36
	Python Plus (Lock-On Hose)	300	30.0	0.81	C	A	5.0	0.18	-20°F	+212°F	Air and Multi-Purpose	24
	Tufflex Plus	300	25.0	0.79	G <sub>1</sub>	G <sub>1</sub>	1.3	0.13	-15°F	+150°F	Air and Multi-Purpose	32
	6B Dura Master	315	25.0	0.88	B <sub>1</sub>	P	5.0	0.25	-40°F	+200°F	Air and Multi-Purpose	26
	Premo Flex	315	25.0	0.88	C	C <sub>2</sub>	4.0	0.24	-40°F	+212°F	Air and Multi-Purpose	25
	LP350X (Butane-Propane)	350	25.0	0.91	C	A	5.0	0.28	-40°F	+180°F	Petroleum Transfer	112
	119B Plant Master	500	25.0	0.88	C	A	5.0	0.26	-40°F	+212°F	Air and Multi-Purpose	21
	19B Plant Master	500	25.0	0.88	C	C <sub>2</sub>	5.0	0.23	-40°F	+212°F	Air and Multi-Purpose	20
	C5M Fuel Line	500	20.0	0.92	C	C <sub>2</sub>	2.3	0.40	-4°F	+212°F	Marine	60
	Terminator	501	25.0	0.89	C	C <sub>4</sub>	5.0	0.25	-40°F	+212°F	Air and Multi-Purpose	22
	Thermo AG 570 (Ag Spray)	570	25.0	0.81	G	G	5.0	0.17	-10°F	+130°F	Acid-Chemical	17
	77B (Paint Spray and Chemical)	750	25.0	0.87	Z	A	5.0	0.23	-40°F	+150°F	Acid-Chemical	19
	Thermo AG 800 (Ag Spray)	800	25.0	0.84	G	G	5.0	0.18	-10°F	+130°F	Acid-Chemical	18
	1000 MP/Mine Spray	1000	30.0	0.84	P	C <sub>2</sub>	5.0	0.29	-40°F	+212°F	Mining	74
	319MB Gold Master	1000	30.0	0.92	A	M	5.0	0.42	-40°F	+212°F	Air and Multi-Purpose	33
	33HB (Divers' Air)	1000	30.0	0.94	C	A	5.0	0.29	-40°F	+120°F	Air and Multi-Purpose	37
Cyclone	1000	30.0	0.94	C <sub>2</sub>	C <sub>2</sub>	5.0	0.29	-40°F	+212°F	Pressure Washer	118	
PowerClean - 1 Wire Braid	2500	30.0	0.80	C	C <sub>2</sub>	7.0	0.28	-40°F	+250°F	Pressure Washer	115	
Pressure Washer Assemblies	3000	30.0	0.76	C	C <sub>2</sub>	7.0	11.50	-40°F	+250°F	Pressure Washer	117	
PowerClean - 2 Wire Braid	4000	30.0	0.86	C	C <sub>2</sub>	7.0	0.42	-40°F	+250°F	Pressure Washer	116	
5/8	63SB (Air & Vapor Duct)	10	5.0	0.81	A	A	1.0	0.12	-30°F	+250°F	Air and Multi-Purpose	34
	4219G (Fuel Line & Tank Vent)	35	10.0	0.94	C	C <sub>2</sub>	6.0	0.23	-40°F	+257°F	Marine	63
	Fuel Line (USCG Type A1)	40	28.0	1.01	C	A	6.0	15.57	-40°F	+212°F	Marine	61



**Industrial Hose  
Products**

# Hose Finder

## Data Pages

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Hose I.D. (In.)	Name	Rated W.P. (psi)	Suction (In. Hg.)	Hose O.D. (In.)	Tube Type	Cover Type	Min. Bend Radius (In.)	Hose Wt. (Lbs./Ft.)	Temp (°F)		Hose Categories	Catalog Page No.
									Min.	Max.		
5/8	Fuel Line (USCG Type A1)	40	28.0	1.01	C	A	6.0	8.61	-40°F	+212°F	Marine	61
	Fuel Line (USCG Type A1)	40	28.0	1.01	C	A	6.0	86.10	-40°F	+212°F	Marine	61
	Heater Hose	75	25.0	0.94	P	P	4.0	0.23	-40°F	+257°F	Marine	56
	Engine Coolant (Silicone)	110	—	0.99	MQ	MQ	—	0.27	-65°F	+347°F	Marine	55
	Blacksnake (Curb Pump - Hardwall)	150	30.0	1.00	C	J	6.0	0.37	-40°F	+120°F	Petroleum Transfer	114
	Adapta Flex Black	200	20.0	0.97	P	P	6.0	0.26	-40°F	+200°F	Air and Multi-Purpose	30
	Adapta Flex Red	200	20.0	0.97	P	P	6.0	0.26	-40°F	+200°F	Air and Multi-Purpose	28
	Adapta Flex Red Cover - UPS Shippable Reels	200	20.0	0.97	P	P	6.0	0.26	-40°F	+200°F	Air and Multi-Purpose	29
	Tufflex Food	200	—	0.88	G	G	—	0.15	-10°F	+130°F	Food and Beverage	50
	119B Plant Master	250	20.0	0.94	C	A	6.0	0.23	-40°F	+212°F	Air and Multi-Purpose	21
	19B Plant Master	250	20.0	0.94	C	C <sub>2</sub>	6.0	0.22	-40°F	+212°F	Air and Multi-Purpose	20
	Adapta Flex Red	250	20.0	0.97	P	P	6.0	0.26	-40°F	+200°F	Air and Multi-Purpose	28
	Duro Flex	250	20.0	0.98	B <sub>1</sub>	P	5.0	0.27	-40°F	+200°F	Air and Multi-Purpose	27
	Premo Flex	250	20.0	0.98	C	C <sub>2</sub>	5.0	0.27	-40°F	+212°F	Air and Multi-Purpose	25
	Duro Flex	300	20.0	0.98	B <sub>1</sub>	P	5.0	0.27	-40°F	+200°F	Air and Multi-Purpose	27
	LOL Plus (Lock-On Hose)	300	27.9	0.94	C	A	6.0	0.20	-40°F	+212°F	Air and Multi-Purpose	23
	Tufflex Plus	300	20.0	0.92	G <sub>1</sub>	G <sub>1</sub>	1.8	0.20	-15°F	+150°F	Air and Multi-Purpose	32
	Premo Flex	315	20.0	0.98	C	C <sub>2</sub>	5.0	0.27	-40°F	+212°F	Air and Multi-Purpose	25
	19B Plant Master	500	20.0	1.00	C	C <sub>2</sub>	6.0	0.27	-40°F	+212°F	Air and Multi-Purpose	20
	C5M Fuel Line	500	20.0	1.08	C	C <sub>2</sub>	2.8	0.51	-4°F	+212°F	Marine	60
3/4	63SB (Air & Vapor Duct)	10	5.0	0.94	A	A	1.0	0.14	-30°F	+250°F	Air and Multi-Purpose	34
	163SB (Air & Vapor Duct - Heavy Duty)	20	15.0	1.00	A	A	1.0	0.20	-30°F	+250°F	Air and Multi-Purpose	35
	Heater Hose	75	25.0	1.06	P	P	5.0	0.26	-40°F	+257°F	Marine	56
	75W (Standard Wall Coolant)	80	5.0	1.17	P	P	6.0	0.37	-40°F	+257°F	Marine	51
	Engine Coolant (Silicone)	110	—	1.12	MQ	MQ	—	0.31	-65°F	+347°F	Marine	55
	429W (Sand Blast)	150	15.0	1.50	D <sub>3</sub>	D	8.0	0.70	-40°F	+150°F	Material Handling	71
	Blacksnake (Curb Pump - Hardwall)	150	30.0	1.13	C	J	6.0	0.42	-40°F	+120°F	Petroleum Transfer	114
	Colt	150	30.0	1.27	P	P	3.0	0.50	-40°F	+250°F	Acid-Chemical	16
	Creamery/Paper Mill Washdown	150	25.0	1.25	D	D	6.0	27.50	-20°F	+180°F	Pressure Washer	119
	Engine Coolant (Oil Resistant - Softwall)	150	—	1.17	C	A	6.0	0.34	-40°F	+212°F	Marine	53
	Food Master Lite	150	30.0	1.33	C <sub>2</sub>	C <sub>2</sub>	2.0	0.65	-40°F	+230°F	Food and Beverage	41
	Tufflex Food	150	—	1.03	G	G	—	0.20	-10°F	+130°F	Food and Beverage	50
	Adapta Flex Black	200	15.0	1.11	P	P	6.0	0.32	-40°F	+200°F	Air and Multi-Purpose	30
	Adapta Flex Red	200	15.0	1.11	P	P	6.0	0.31	-40°F	+200°F	Air and Multi-Purpose	28
	Adapta Flex Red Cover - UPS Shippable Reels	200	15.0	1.11	P	P	6.0	0.31	-40°F	+200°F	Air and Multi-Purpose	29
	Creamery/Paper Mill Washdown	200	15.0	1.25	P	P	6.0	0.49	-40°F	+212°F	Pressure Washer	119
	Mustang	200	30.0	1.25	K	P	4.0	0.45	-40°F	+250°F	Acid-Chemical	12
	Mustang Crush Resistant	200	20.0	1.36	K	P	4.0	0.53	-40°F	+250°F	Acid-Chemical	13
	Renegade	200	30.0	1.22	L	P	4.0	0.41	-40°F	+212°F	Acid-Chemical	15
	Stallion	200	30.0	1.29	T	P	4.0	0.52	-40°F	+300°F	Acid-Chemical	10
	Stallion Crush Resistant	200	20.0	1.33	T	P	4.0	0.53	-40°F	+300°F	Acid-Chemical	11
	119B Plant Master	250	20.0	1.09	C	A	6.0	0.29	-40°F	+212°F	Air and Multi-Purpose	21
	19B Plant Master	250	20.0	1.09	C	C <sub>2</sub>	6.0	0.28	-40°F	+212°F	Air and Multi-Purpose	20
	205MB Steam King	250	20.0	1.28	P <sub>2</sub>	P <sub>2</sub>	9.0	0.49	-40°F	+450°F	Steam	120
	205MB Steam King	250	20.0	1.27	P <sub>2</sub>	P <sub>2</sub>	9.0	0.57	-40°F	+450°F	Steam	120
	232MB Steam Queen	250	20.0	1.27	P <sub>2</sub>	B <sub>1</sub>	9.0	0.60	-40°F	+450°F	Steam	121
	6B Dura Master	250	20.0	1.09	B <sub>1</sub>	P	6.0	0.29	-40°F	+200°F	Air and Multi-Purpose	26
	Adapta Flex Black	250	20.0	1.15	P	P	6.0	0.35	-40°F	+200°F	Air and Multi-Purpose	30
	Adapta Flex Blue, Green & Yellow Cover	250	20.0	1.15	P	P	6.0	0.35	-40°F	+200°F	Air and Multi-Purpose	31
	Adapta Flex Red	250	20.0	1.11	P	P	6.0	0.35	-40°F	+200°F	Air and Multi-Purpose	28
	Adapta Flex Red	250	20.0	1.15	P	P	6.0	0.35	-40°F	+200°F	Air and Multi-Purpose	28
	Duro Flex	250	20.0	1.15	B <sub>1</sub>	P	5.0	0.36	-40°F	+200°F	Air and Multi-Purpose	27
	Food & Beverage Master	250	30.0	1.22	S	P	2.0	0.42	-40°F	+230°F	Food and Beverage	38





**Industrial Hose  
Products**

# Hose Finder

## Data Pages

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Hose I.D. (In.)	Name	Rated W.P. (psi)	Suction (In. Hg.)	Hose O.D. (In.)	Tube Type	Cover Type	Min. Bend Radius (In.)	Hose Wt. (Lbs./Ft.)	Temp (°F)		Hose Categories	Catalog Page No.
									Min.	Max.		
3/4	Premo Flex	250	20.0	1.15	C	C <sub>2</sub>	5.0	0.36	-40°F	+212°F	Air and Multi-Purpose	25
	Adapta Flex Blue, Green & Yellow Cover	300	15.0	1.15	P	P	6.0	0.35	-40°F	+200°F	Air and Multi-Purpose	31
	Adapta Flex Red	300	15.0	1.15	P	P	6.0	0.35	-40°F	+200°F	Air and Multi-Purpose	28
	Duro Flex	300	20.0	1.15	B <sub>1</sub>	P	5.0	0.36	-40°F	+200°F	Air and Multi-Purpose	27
	LOL Plus (Lock-On Hose)	300	15.0	1.06	C	A	7.0	0.24	-40°F	+212°F	Air and Multi-Purpose	23
	Ohmega (Pot Room)	300	20.0	1.16	P	P	6.0	0.36	-20°F	+150°F	Air and Multi-Purpose	36
	Tufflex Plus	300	15.0	1.07	G <sub>1</sub>	G <sub>1</sub>	2.5	0.29	-15°F	+150°F	Air and Multi-Purpose	32
	6B Dura Master	315	20.0	1.19	B <sub>1</sub>	P	6.0	0.40	-40°F	+200°F	Air and Multi-Purpose	26
	Premo Flex	315	20.0	1.19	C	C <sub>2</sub>	5.0	0.40	-40°F	+212°F	Air and Multi-Purpose	25
	LP350X (Butane-Propane)	350	20.0	1.23	C	A	6.0	0.44	-40°F	+180°F	Petroleum Transfer	112
	119B Plant Master	500	20.0	1.19	C	A	6.0	0.42	-40°F	+212°F	Air and Multi-Purpose	21
	18MB Air Drill	500	25.0	1.28	A	C <sub>2</sub>	6.0	0.60	-30°F	+212°F	Mining	78
	19B Plant Master	500	20.0	1.19	C	C <sub>2</sub>	6.0	0.38	-40°F	+212°F	Air and Multi-Purpose	20
	500 MP Air Drill	500	25.0	1.11	C	D <sub>3</sub>	6.0	0.41	-22°F	+180°F	Mining	79
	500 MP Air Drill	500	25.0	1.11	C	C <sub>2</sub>	6.0	0.41	-22°F	+180°F	Mining	79
	Terminator	501	15.0	1.22	C	C <sub>4</sub>	6.0	0.42	-40°F	+212°F	Air and Multi-Purpose	22
	Thermo AG 570 (Ag Spray)	570	25.0	1.08	G	G	6.0	0.27	-10°F	+130°F	Acid-Chemical	17
	77B (Paint Spray and Chemical)	750	25.0	1.16	Z	A	6.0	0.35	-40°F	+150°F	Acid-Chemical	19
	Thermo AG 800 (Ag Spray)	800	25.0	1.41	G	G	6.0	0.30	-10°F	+130°F	Acid-Chemical	18
	1000 MP/Mine Spray	1000	25.0	1.10	P	C <sub>2</sub>	8.0	0.43	-40°F	+212°F	Mining	74
319MB Gold Master	1000	25.0	1.21	A	M	8.0	0.60	-40°F	+212°F	Air and Multi-Purpose	33	
Cyclone	1000	30.0	1.20	C <sub>2</sub>	C <sub>2</sub>	6.0	0.41	-40°F	+212°F	Pressure Washer	118	
7/8	63SB (Air & Vapor Duct)	10	5.0	1.06	A	A	1.0	0.17	-30°F	+250°F	Air and Multi-Purpose	34
	75W (Standard Wall Coolant)	75	7.0	1.25	P	P	7.0	0.39	-40°F	+257°F	Marine	51
	Engine Coolant (Silicone)	110	—	1.24	MQ	MQ	—	0.35	-65°F	+347°F	Marine	55
	Engine Coolant (Oil Resistant - Softwall)	150	—	1.30	C	A	7.0	0.38	-40°F	+212°F	Marine	53
	76W (Heavy Wall Coolant)	175	15.0	1.38	P	P	7.0	0.58	-40°F	+257°F	Marine	52
	C5M Fuel Line	500	20.0	1.23	C	C <sub>2</sub>	3.5	0.51	-4°F	+212°F	Marine	60
1	63SB (Air & Vapor Duct)	10	5.0	1.19	A	A	1.0	0.20	-30°F	+250°F	Air and Multi-Purpose	34
	163SB (Air & Vapor Duct - Heavy Duty)	20	15.0	1.25	A	A	1.0	0.26	-30°F	+250°F	Air and Multi-Purpose	35
	Fuel Fill (USCG Type A1 and B1)	35	20.0	1.40	C	A	4.0	27.01	-40°F	+212°F	Marine	64
	Master-Flex 101CL	35	28.0	1.26	G	—	2.0	0.14	-10°F	+130°F	Water	131
	Master-Flex 201CR	40	28.0	1.26	G	G	2.0	0.14	-10°F	+130°F	Food and Beverage	48
	770SB	50	20.0	1.39	D <sub>3</sub>	D	5.0	0.49	-40°F	+150°F	Material Handling	70
	Heater Hose	75	25.0	1.34	P	P	7.0	0.37	-40°F	+257°F	Marine	56
	Master-Flex 300 EPDM	80	28.0	1.34	P	G	4.0	0.23	-30°F	+140°F	Material Handling	72
	Engine Coolant (Silicone)	90	—	1.37	MQ	MQ	—	0.40	-65°F	+347°F	Marine	55
	Master-Flex 100GR	90	28.0	1.27	G	G	3.0	0.27	-10°F	+130°F	Water	130
	Master-Flex 101CL	90	28.0	1.27	G	—	3.0	0.27	-10°F	+130°F	Water	131
	4684CF (Wet Exhaust - Corrugated)	100	25.0	1.44	C	A	3.0	0.51	-40°F	+212°F	Marine	59
	Engine Coolant (Wire Inserted - Hardwall)	100	25.0	1.46	P	P	2.0	2.50	-40°F	+257°F	Marine	54
	Master-Flex 200CL	100	28.0	1.29	G	G	3.0	0.30	-10°F	+130°F	Food and Beverage	47
	Tufflex Food	125	—	1.31	G	G	—	0.32	-10°F	+130°F	Food and Beverage	50
	Engine Coolant (Oil Resistant - Softwall)	135	—	1.42	C	A	8.0	0.43	-40°F	+212°F	Marine	53
	75W (Standard Wall Coolant)	140	7.0	1.38	P	P	8.0	0.42	-40°F	+257°F	Marine	51
	429W (Sand Blast)	150	5.0	1.63	D <sub>3</sub>	D	12.0	0.70	-40°F	+150°F	Material Handling	71
	429W (Sand Blast)	150	5.0	1.87	D <sub>3</sub>	D	12.0	1.01	-40°F	+150°F	Material Handling	71
	Adapta Flex Black	150	10.0	1.40	P	P	8.0	0.44	-40°F	+200°F	Air and Multi-Purpose	30
	Adapta Flex Red	150	10.0	1.39	P	P	8.0	0.43	-40°F	+200°F	Air and Multi-Purpose	28
	Barracuda	150	30.0	1.33	P	P	5.0	0.39	-40°F	+180°F	Water	125
	Blacksnake (Curb Pump - Hardwall)	150	30.0	1.38	C	J	8.0	0.57	-40°F	+120°F	Petroleum Transfer	114
Colt	150	30.0	1.52	P	P	3.5	0.61	-40°F	+250°F	Acid-Chemical	16	
Creamery/Paper Mill Washdown	150	15.0	1.50	D	D	8.0	33.50	-20°F	+180°F	Pressure Washer	119	



**Industrial Hose  
Products**

# Hose Finder

## Data Pages

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Hose I.D. (In.)	Name	Rated W.P. (psi)	Suction (In. Hg.)	Hose O.D. (In.)	Tube Type	Cover Type	Min. Bend Radius (In.)	Hose Wt. (Lbs./Ft.)	Temp (°F)		Hose Categories	Catalog Page No.
									Min.	Max.		
1	Food Master Lite	150	30.0	1.58	C <sub>2</sub>	C <sub>2</sub>	3.0	0.79	-40°F	+230°F	Food and Beverage	41
	Longhorn	150	30.0	1.50	C	A	3.0	0.60	-40°F	+180°F	Petroleum Transfer	97
	Longhorn AF (Alternative Fuel-Corrugated)	150	30.0	1.50	C	C <sub>2</sub>	3.0	0.53	-30°F	+180°F	Petroleum Transfer	98
	Longhorn AF (Alternative Fuel-Corrugated)	150	30.0	1.50	C	C <sub>2</sub>	3.0	0.59	-30°F	+180°F	Petroleum Transfer	98
	Shark	150	30.0	1.45	P	D	5.0	0.53	-40°F	+180°F	Water	124
	Super-Vac	150	30.0	1.42	C	D	3.0	0.52	-40°F	+150°F	Petroleum Transfer	101
	76W (Heavy Wall Coolant)	175	10.0	1.50	P	P	8.0	0.59	-40°F	+257°F	Marine	52
	Adapta Flex Black	200	10.0	1.40	P	P	8.0	0.45	-40°F	+200°F	Air and Multi-Purpose	30
	Adapta Flex Red	200	10.0	1.39	P	P	8.0	0.45	-40°F	+200°F	Air and Multi-Purpose	28
	Adapta Flex Red Cover - UPS Shippable Reels	200	10.0	1.40	P	P	8.0	0.45	-40°F	+200°F	Air and Multi-Purpose	29
	Creamery/Paper Mill Washdown	200	15.0	1.52	P	P	8.0	0.65	-40°F	+212°F	Pressure Washer	119
	Fuel Oil Delivery	200	10.0	1.50	C	C <sub>4</sub>	8.0	0.58	-40°F	+180°F	Petroleum Transfer	110
	Mustang	200	30.0	1.50	K	P	5.0	0.56	-40°F	+250°F	Acid-Chemical	12
	Mustang Crush Resistant	200	20.0	1.61	K	P	5.0	0.64	-40°F	+250°F	Acid-Chemical	13
	Renegade	200	30.0	1.47	L	P	5.0	0.51	-40°F	+212°F	Acid-Chemical	15
	Stallion	200	30.0	1.56	T	P	5.0	0.63	-40°F	+300°F	Acid-Chemical	10
	Stallion Crush Resistant	200	20.0	1.58	T	P	5.0	0.63	-40°F	+300°F	Acid-Chemical	11
	Tufflex Plus	200	15.0	1.44	G <sub>1</sub>	G <sub>1</sub>	3.5	0.44	-15°F	+150°F	Air and Multi-Purpose	32
	119B Plant Master	250	10.0	1.38	C	A	8.0	0.42	-40°F	+212°F	Air and Multi-Purpose	21
	19B Plant Master	250	10.0	1.38	C	C <sub>2</sub>	8.0	0.41	-40°F	+212°F	Air and Multi-Purpose	20
	205MB Steam King	250	20.0	1.52	P <sub>2</sub>	P <sub>2</sub>	11.0	0.70	-40°F	+450°F	Steam	120
	205MB Steam King	250	20.0	1.63	P <sub>2</sub>	P <sub>2</sub>	11.0	0.78	-40°F	+450°F	Steam	120
	232MB Steam Queen	250	20.0	1.52	P <sub>2</sub>	B <sub>1</sub>	11.0	0.73	-40°F	+450°F	Steam	121
	6B Dura Master	250	10.0	1.38	B <sub>1</sub>	P	8.0	0.42	-40°F	+200°F	Air and Multi-Purpose	26
	Cellar Master	250	30.0	1.48	S	P	3.0	0.52	-40°F	+230°F	Food and Beverage	39
	Duro Flex	250	10.0	1.47	B <sub>1</sub>	P	8.0	0.54	-40°F	+200°F	Air and Multi-Purpose	27
	Food & Beverage Master	250	30.0	1.48	S	P	3.0	0.52	-40°F	+230°F	Food and Beverage	38
	Premo Flex	250	10.0	1.47	C	C <sub>2</sub>	8.0	0.54	-40°F	+212°F	Air and Multi-Purpose	25
	Adapta Flex Red	300	10.0	1.47	P	P	8.0	0.54	-40°F	+200°F	Air and Multi-Purpose	28
	Aquarius Potable Water	300	15.0	1.53	D <sub>2</sub>	P	10.0	0.61	-40°F	+150°F	Food and Beverage	43
	6B Dura Master	315	20.0	1.50	B <sub>1</sub>	P	8.0	0.59	-40°F	+200°F	Air and Multi-Purpose	26
	LP350X (Butane-Propane)	350	15.0	1.51	C	A	8.0	0.60	-40°F	+180°F	Petroleum Transfer	112
	119B Plant Master	500	20.0	1.50	C	A	8.0	0.62	-40°F	+212°F	Air and Multi-Purpose	21
	18MB Air Drill	500	25.0	1.55	A	C <sub>2</sub>	8.0	0.80	-30°F	+212°F	Mining	78
	19B Plant Master	500	20.0	1.50	C	C <sub>2</sub>	8.0	0.55	-40°F	+212°F	Air and Multi-Purpose	20
	500 MP Air Drill	500	25.0	1.45	C	C <sub>2</sub>	8.0	0.65	-22°F	+180°F	Mining	79
500 MP Air Drill	500	25.0	1.45	C	D <sub>3</sub>	8.0	0.66	-22°F	+180°F	Mining	79	
Terminator	501	10.0	1.51	C	C <sub>4</sub>	8.0	0.57	-40°F	+212°F	Air and Multi-Purpose	22	
1000 MP/Mine Spray	1000	25.0	1.42	P	C <sub>2</sub>	11.0	0.66	-40°F	+212°F	Mining	74	
319MB Gold Master	1000	25.0	1.46	A	M	11.0	0.77	-40°F	+212°F	Air and Multi-Purpose	33	
16 EFBOP Blow-Out Preventer	5000	—	1.53	C	A	12.0	1.49	-40°F	+250°F	Oilfield	96	
Powerbraid Plus (Slim Hole Rotary)	5000	—	1.53	C	A	12.0	1.49	-40°F	+180°F	Oilfield	95	
16 EFBOP Blow-Out Preventer	6000	—	1.53	C	A	12.0	1.49	-40°F	+250°F	Oilfield	96	
1 1/8	Engine Coolant (Silicone)	90	—	1.50	MQ	MQ	—	0.44	-65°F	+347°F	Marine	55
	4684CF (Wet Exhaust - Corrugated)	100	25.0	1.56	C	A	4.0	0.56	-40°F	+212°F	Marine	59
	Engine Coolant (Wire Inserted - Hardwall)	100	25.0	1.58	P	P	2.5	2.75	-40°F	+257°F	Marine	54
	Wet Exhaust (Hardwall)	100	25.0	1.50	P	P	2.5	7.40	-40°F	+257°F	Marine	58
	Wet Exhaust (Softwall)	100	—	1.40	P	P	—	5.59	-40°F	+257°F	Marine	57
	75W (Standard Wall Coolant)	125	6.0	1.50	P	P	8.0	0.47	-40°F	+257°F	Marine	51
	Engine Coolant (Oil Resistant - Softwall)	135	—	1.55	C	A	8.0	0.48	-40°F	+212°F	Marine	53
76W (Heavy Wall Coolant)	175	10.0	1.63	P	P	8.0	0.64	-40°F	+257°F	Marine	52	
1 1/4	63SB (Air & Vapor Duct)	10	5.0	1.44	A	A	1.0	0.22	-30°F	+250°F	Air and Multi-Purpose	34
	163SB (Air & Vapor Duct - Heavy Duty)	20	15.0	1.50	A	A	1.0	0.34	-30°F	+250°F	Air and Multi-Purpose	35





**Industrial Hose  
Products**

# Hose Finder

## Data Pages

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Hose I.D. (In.)	Name	Rated W.P. (psi)	Suction (In. Hg.)	Hose O.D. (In.)	Tube Type	Cover Type	Min. Bend Radius (In.)	Hose Wt. (Lbs./Ft.)	Temp (°F)		Hose Categories	Catalog Page No.
									Min.	Max.		
1 1/4	770SB	50	20.0	1.64	D <sub>3</sub>	D	5.0	0.59	-40°F	+150°F	Material Handling	70
	Master-Flex 101CL	50	28.0	1.61	G	—	3.0	0.31	-10°F	+130°F	Water	131
	Master-Flex 201CR	50	28.0	1.61	G	G	3.0	0.31	-10°F	+130°F	Food and Beverage	48
	Master-Flex 300 EPDM	70	28.0	1.61	P	G	5.0	0.30	-30°F	+140°F	Material Handling	72
	Engine Coolant (Silicone)	85	—	1.63	MQ	MQ	—	0.48	-65°F	+347°F	Marine	55
	Master-Flex 100GR	90	28.0	1.53	G	G	4.0	0.36	-10°F	+130°F	Water	130
	Master-Flex 101CL	90	28.0	1.53	G	—	4.0	0.34	-10°F	+130°F	Water	131
	Master-Flex 200CL	90	28.0	1.56	G	G	4.0	0.38	-10°F	+130°F	Food and Beverage	47
	4684CF (Wet Exhaust - Corrugated)	100	25.0	1.69	C	A	4.0	0.61	-40°F	+212°F	Marine	59
	75W (Standard Wall Coolant)	100	5.0	1.63	P	P	12.0	0.51	-40°F	+257°F	Marine	51
	Engine Coolant (Wire Inserted - Hardwall)	100	25.0	1.71	P	P	2.5	3.00	-40°F	+257°F	Marine	54
	Tufflex Food	100	—	1.75	G	G	—	0.63	-10°F	+130°F	Food and Beverage	50
	Wet Exhaust (Hardwall)	100	25.0	1.63	P	P	2.5	8.03	-40°F	+257°F	Marine	58
	Wet Exhaust (Softwall)	100	—	1.53	P	P	—	6.07	-40°F	+257°F	Marine	57
	76W (Heavy Wall Coolant)	125	10.0	1.74	P	P	12.0	0.70	-40°F	+257°F	Marine	52
	Engine Coolant (Oil Resistant - Softwall)	135	—	1.67	C	A	10.0	0.51	-40°F	+212°F	Marine	53
	429W (Sand Blast)	150	5.0	2.16	D <sub>3</sub>	D	12.0	1.22	-40°F	+150°F	Material Handling	71
	Barracuda	150	30.0	1.61	P	P	5.0	0.51	-40°F	+180°F	Water	125
	Colt	150	30.0	1.79	P	P	4.0	0.77	-40°F	+250°F	Acid-Chemical	16
	Creamery/Paper Mill Washdown	150	15.0	1.75	D	D	10.0	39.50	-20°F	+180°F	Pressure Washer	119
	Dolphin	150	—	1.53	P	P	—	0.37	-40°F	+180°F	Water	128
	Longhorn	150	30.0	1.75	C	A	4.0	0.72	-40°F	+180°F	Petroleum Transfer	97
	Longhorn AF (Alternative Fuel-Corrugated)	150	30.0	1.75	C	C <sub>2</sub>	4.0	0.70	-30°F	+180°F	Petroleum Transfer	98
	Shark	150	30.0	1.71	P	D	6.0	0.68	-40°F	+180°F	Water	124
	Super-Vac	150	30.0	1.68	C	D	3.0	0.67	-40°F	+150°F	Petroleum Transfer	101
	6B Dura Master	200	10.0	1.73	B <sub>1</sub>	P	10.0	0.67	-40°F	+200°F	Air and Multi-Purpose	26
	Fuel Oil Delivery	200	10.0	1.75	C	C <sub>4</sub>	10.0	0.75	-40°F	+180°F	Petroleum Transfer	110
	Mustang	200	30.0	1.75	K	P	6.0	0.66	-40°F	+250°F	Acid-Chemical	12
	Renegade	200	30.0	1.72	L	P	6.0	0.60	-40°F	+212°F	Acid-Chemical	15
	119B Plant Master	250	10.0	1.75	C	A	10.0	0.69	-40°F	+212°F	Air and Multi-Purpose	21
	19B Plant Master	250	10.0	1.75	C	C <sub>2</sub>	10.0	0.67	-40°F	+212°F	Air and Multi-Purpose	20
	205MB Steam King	250	20.0	1.81	P <sub>2</sub>	P <sub>2</sub>	16.0	0.90	-40°F	+450°F	Steam	120
	Adapta Flex Black	250	10.0	1.73	P	P	10.0	0.68	-40°F	+200°F	Air and Multi-Purpose	30
	Duro Flex	250	10.0	1.73	B <sub>1</sub>	P	10.0	0.67	-40°F	+200°F	Air and Multi-Purpose	27
	Premo Flex	250	10.0	1.75	C	C <sub>2</sub>	10.0	0.67	-40°F	+212°F	Air and Multi-Purpose	25
	LP350 (Butane-Propane)	350	10.0	1.85	C	A	10.0	0.89	-40°F	+180°F	Petroleum Transfer	111
18MB Air Drill	500	15.0	1.80	A	C <sub>2</sub>	10.0	0.95	-30°F	+212°F	Mining	78	
19B Plant Master	500	10.0	1.75	C	C <sub>2</sub>	10.0	0.76	-40°F	+212°F	Air and Multi-Purpose	20	
500 MP Air Drill	500	15.0	1.74	C	C <sub>2</sub>	10.0	0.85	-22°F	+180°F	Mining	79	
500 MP Air Drill	500	15.0	1.74	C	D <sub>3</sub>	10.0	0.86	-22°F	+180°F	Mining	79	
Terminator	501	10.0	1.78	C	C <sub>4</sub>	10.0	0.73	-40°F	+212°F	Air and Multi-Purpose	22	
1000 MP/Mine Spray	1000	20.0	1.69	P	C <sub>2</sub>	16.0	0.81	-40°F	+212°F	Mining	74	
319MB Gold Master	1000	20.0	1.69	A	M	16.0	0.87	-40°F	+212°F	Air and Multi-Purpose	33	
Powerbraid Plus (Slim Hole Rotary)	5000	—	1.97	C	A	16.5	2.67	-40°F	+180°F	Oilfield	95	
1 3/8	63SB (Air & Vapor Duct)	10	5.0	1.52	A	A	1.5	0.24	-30°F	+250°F	Air and Multi-Purpose	34
	163SB (Air & Vapor Duct - Heavy Duty)	15	15.0	1.63	A	A	1.5	0.44	-30°F	+250°F	Air and Multi-Purpose	35
	4663K (Fuel Fill - Corrugated)	20	30.0	1.63	C	A	5.0	0.38	-40°F	+212°F	Marine	65
	4684CF (Wet Exhaust - Corrugated)	85	25.0	1.81	C	A	4.0	0.66	-40°F	+212°F	Marine	59
	Engine Coolant (Silicone)	85	—	1.75	MQ	MQ	—	0.52	-65°F	+347°F	Marine	55
	Engine Coolant (Wire Inserted - Hardwall)	85	25.0	1.83	P	P	3.0	3.25	-40°F	+257°F	Marine	54
	75W (Standard Wall Coolant)	100	4.0	1.75	P	P	12.0	0.55	-40°F	+257°F	Marine	51
	Engine Coolant (Oil Resistant - Softwall)	100	—	1.80	C	A	12.0	0.56	-40°F	+212°F	Marine	53
Wet Exhaust (Hardwall)	100	25.0	1.75	P	P	3.0	8.66	-40°F	+257°F	Marine	58	



**Industrial Hose  
Products**

# Hose Finder

## Data Pages

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Hose I.D. (In.)	Name	Rated W.P. (psi)	Suction (In. Hg.)	Hose O.D. (In.)	Tube Type	Cover Type	Min. Bend Radius (In.)	Hose Wt. (Lbs./Ft.)	Temp (°F)		Hose Categories	Catalog Page No.
									Min.	Max.		
1 3/8	Wet Exhaust (Softwall)	100	—	1.69	P	P	—	6.58	-40°F	+257°F	Marine	57
	76W (Heavy Wall Coolant)	110	10.0	1.88	P	P	12.0	0.76	-40°F	+257°F	Marine	52
	Fuel Oil Delivery	200	10.0	1.87	C	C <sub>4</sub>	10.0	0.80	-40°F	+180°F	Petroleum Transfer	110
	19B Plant Master	250	10.0	1.87	C	C <sub>2</sub>	10.0	0.71	-40°F	+212°F	Air and Multi-Purpose	20
	19B Plant Master	500	10.0	1.88	C	C <sub>2</sub>	10.0	0.73	-40°F	+212°F	Air and Multi-Purpose	20
1 1/2	Master-Flex Vapor Recovery	5	—	1.88	U	G	1.5	0.36	-30°F	+140°F	Petroleum Transfer	109
	63SB (Air & Vapor Duct)	10	5.0	1.69	A	A	1.5	0.26	-30°F	+250°F	Air and Multi-Purpose	34
	163SB (Air & Vapor Duct - Heavy Duty)	15	15.0	1.75	A	A	1.5	0.48	-30°F	+250°F	Air and Multi-Purpose	35
	Fuel Fill (USCG Type A1 and B1)	18	20.0	1.90	C	A	7.0	37.74	-40°F	+212°F	Marine	64
	Fuel Fill (USCG Type A1 and B1)	18	20.0	1.90	C	A	7.0	9.44	-40°F	+212°F	Marine	64
	4663K (Fuel Fill - Corrugated)	20	30.0	1.77	C	A	5.0	0.41	-40°F	+212°F	Marine	65
	Master-Flex 400	40	28.0	1.88	C	G	3.0	0.38	-30°F	+140°F	Material Handling	73
	770SB	50	20.0	1.89	D <sub>3</sub>	D	6.0	0.68	-40°F	+150°F	Material Handling	70
	Master-Flex 101CL	50	28.0	1.86	G	—	3.0	0.37	-10°F	+130°F	Water	131
	Master-Flex 201CR	50	28.0	1.82	G	G	3.0	0.37	-10°F	+130°F	Food and Beverage	48
	Master-Flex 300 EPDM	60	28.0	1.96	P	G	6.0	0.49	-30°F	+140°F	Material Handling	72
	Master-Flex 500	75	—	1.67	G	G	—	0.17	+25°F	+120°F	Water	129
	Tufflex Food	75	—	2.00	G	G	—	0.74	-10°F	+130°F	Food and Beverage	50
	4684CF (Wet Exhaust - Corrugated)	85	25.0	1.94	C	A	4.0	0.70	-40°F	+212°F	Marine	59
	Engine Coolant (Silicone)	85	—	1.88	MQ	MQ	—	0.57	-65°F	+347°F	Marine	55
	Engine Coolant (Wire Inserted - Hardwall)	85	20.0	1.96	P	P	3.5	3.50	-40°F	+257°F	Marine	54
	Master-Flex 100GR	90	28.0	1.82	G	G	5.0	0.47	-10°F	+130°F	Water	130
	Master-Flex 101CL	90	28.0	1.82	G	—	5.0	0.47	-10°F	+130°F	Water	131
	Master-Flex 200CL	90	28.0	1.84	G	G	5.0	0.48	-10°F	+130°F	Food and Beverage	47
	75W (Standard Wall Coolant)	100	3.0	1.88	P	P	12.0	0.51	-40°F	+257°F	Marine	51
	Engine Coolant (Oil Resistant - Softwall)	100	—	1.92	C	A	12.0	0.60	-40°F	+212°F	Marine	53
	Wet Exhaust (Hardwall)	100	20.0	1.88	P	P	3.5	9.31	-40°F	+257°F	Marine	58
	Wet Exhaust (Softwall)	100	—	1.78	P	P	—	7.12	-40°F	+257°F	Marine	57
	76W (Heavy Wall Coolant)	112	10.0	2.00	P	P	12.0	0.81	-40°F	+257°F	Marine	52
	Hot Air Blower	130	30.0	2.08	P	P	8.0	0.89	-40°F	+350°F	Material Handling	69
	429W (Sand Blast)	135	5.0	2.37	D <sub>3</sub>	D	18.0	1.37	-40°F	+150°F	Material Handling	71
	690SB (Bulk Commodity)	150	30.0	2.23	D <sub>2</sub>	D <sub>3</sub>	10.0	1.41	-40°F	+150°F	Food and Beverage	44
	692SB (Bulk Commodity)	150	30.0	2.07	C	P	9.0	1.13	-40°F	+180°F	Food and Beverage	45
	Barracuda	150	30.0	1.86	P	P	6.0	0.60	-40°F	+180°F	Water	125
	Cellar Master Light	150	30.0	2.00	S	P	6.0	0.77	-40°F	+212°F	Food and Beverage	40
	Colt	150	30.0	2.04	P	P	5.0	0.89	-40°F	+250°F	Acid-Chemical	16
	Dolphin	150	—	1.78	P	P	—	0.43	-40°F	+180°F	Water	128
	Food Master Lite	150	30.0	2.10	C <sub>2</sub>	C <sub>2</sub>	4.5	1.14	-40°F	+230°F	Food and Beverage	41
	Longhorn	150	30.0	2.02	C	A	4.0	0.88	-40°F	+180°F	Petroleum Transfer	97
	Longhorn AF (Alternative Fuel-Corrugated)	150	30.0	2.02	C	C <sub>2</sub>	4.0	0.87	-30°F	+180°F	Petroleum Transfer	98
	Marlin	150	—	1.82	P	D	12.0	0.47	-40°F	+180°F	Water	127
	Marlin	150	—	1.90	P	D	12.0	0.63	-40°F	+180°F	Water	127
	Sani-Pure	150	—	2.07	C <sub>2</sub>	C <sub>2</sub>	18.0	0.97	-40°F	+230°F	Food and Beverage	42
	Shark	150	30.0	1.96	P	D	8.0	0.79	-40°F	+180°F	Water	124
	Steelhead	150	—	1.98	D	D	12.0	0.70	-40°F	+150°F	Water	126
Super-Vac	150	30.0	1.97	C	D	3.0	0.77	-40°F	+150°F	Petroleum Transfer	101	
6B Dura Master	200	10.0	1.98	B <sub>1</sub>	P	12.0	0.79	-40°F	+200°F	Air and Multi-Purpose	26	
Appaloosa	200	30.0	1.97	K	L	8.0	0.76	-40°F	+225°F	Acid-Chemical	14	
Fuel Oil Delivery	200	10.0	2.08	C	C <sub>2</sub>	12.0	0.95	-40°F	+180°F	Petroleum Transfer	110	
Mustang	200	30.0	2.04	K	P	8.0	0.87	-40°F	+250°F	Acid-Chemical	12	
Mustang	200	30.0	2.04	K	P	8.0	0.88	-40°F	+250°F	Acid-Chemical	12	
Mustang Crush Resistant	200	20.0	2.13	K	P	8.0	0.90	-40°F	+250°F	Acid-Chemical	13	
Renegade	200	30.0	2.00	L	P	8.0	0.78	-40°F	+212°F	Acid-Chemical	15	





**Industrial Hose  
Products**

# Hose Finder

## Data Pages

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Hose I.D. (In.)	Name	Rated W.P. (psi)	Suction (In. Hg.)	Hose O.D. (In.)	Tube Type	Cover Type	Min. Bend Radius (In.)	Hose Wt. (Lbs./Ft.)	Temp (°F)		Hose Categories	Catalog Page No.
									Min.	Max.		
1 1/2	Stallion	200	30.0	2.05	T	P	8.0	0.89	-40°F	+300°F	Acid-Chemical	10
	Stallion	200	30.0	2.05	T	P	8.0	0.93	-40°F	+300°F	Acid-Chemical	10
	Stallion Crush Resistant	200	20.0	2.08	T	P	8.0	0.86	-40°F	+300°F	Acid-Chemical	11
	119B Plant Master	250	10.0	2.00	C	A	12.0	0.81	-40°F	+212°F	Air and Multi-Purpose	21
	19B Plant Master	250	10.0	2.00	C	C <sub>2</sub>	12.0	0.78	-40°F	+212°F	Air and Multi-Purpose	20
	205MB Steam King	250	10.0	2.14	P <sub>2</sub>	P <sub>2</sub>	20.0	1.21	-40°F	+450°F	Steam	120
	232MB Steam Queen	250	10.0	2.18	P <sub>2</sub>	B <sub>1</sub>	20.0	1.24	-40°F	+450°F	Steam	121
	Adapta Flex Black	250	10.0	1.98	P	P	12.0	0.79	-40°F	+200°F	Air and Multi-Purpose	30
	Cellar Master	250	30.0	2.07	S	P	4.5	0.90	-40°F	+230°F	Food and Beverage	39
	Duro Flex	250	10.0	1.98	B <sub>1</sub>	P	12.0	0.79	-40°F	+200°F	Air and Multi-Purpose	27
	Food & Beverage Master	250	30.0	2.07	S	P	4.5	0.90	-40°F	+230°F	Food and Beverage	38
	Premo Flex	250	10.0	2.00	C	C <sub>2</sub>	12.0	0.78	-40°F	+212°F	Air and Multi-Purpose	25
	LP350 (Butane-Propane)	350	10.0	2.25	A	A	12.0	1.35	-40°F	+180°F	Petroleum Transfer	111
	18MB Air Drill	500	15.0	2.21	A	D <sub>3</sub>	12.0	1.26	-30°F	+212°F	Mining	78
	19B Plant Master	500	10.0	2.00	C	C <sub>2</sub>	12.0	0.78	-40°F	+212°F	Air and Multi-Purpose	20
	500 MP Air Drill	500	15.0	1.99	C	C <sub>2</sub>	12.0	0.96	-22°F	+180°F	Mining	79
	500 MP Air Drill	500	15.0	1.99	C	D <sub>3</sub>	12.0	0.98	-22°F	+180°F	Mining	79
	Terminator	501	10.0	2.09	C	C <sub>4</sub>	12.0	0.96	-40°F	+212°F	Air and Multi-Purpose	22
	Scorpion	600	—	2.02	J	J	12.0	1.13	-40°F	+275°F	Mining	76
	Scorpion X-Treme	600	—	2.02	B <sub>1</sub>	J	12.0	1.07	-40°F	+300°F	Mining	77
1000 MP/Mine Spray	1000	15.0	1.92	P	C <sub>2</sub>	18.0	0.98	-40°F	+212°F	Mining	74	
319MB Gold Master	1000	15.0	1.94	A	M	18.0	1.06	-40°F	+212°F	Air and Multi-Purpose	33	
Powerbraid Plus (Slim Hole Rotary)	5000	—	2.26	A	A	20.0	3.22	-40°F	+180°F	Oilfield	95	
1 5/8	63SB (Air & Vapor Duct)	10	5.0	1.81	A	A	2.0	0.28	-30°F	+250°F	Air and Multi-Purpose	34
	163SB (Air & Vapor Duct - Heavy Duty)	15	15.0	1.88	A	A	1.8	0.51	-30°F	+250°F	Air and Multi-Purpose	35
	Fuel Fill (USCG Type A1 and B1)	18	20.0	2.03	C	A	8.0	10.06	-40°F	+212°F	Marine	64
	Fuel Fill (USCG Type A1 and B1)	18	20.0	2.03	C	A	8.0	40.25	-40°F	+212°F	Marine	64
	4663K (Fuel Fill - Corrugated)	20	30.0	1.90	C	A	5.5	0.44	-40°F	+212°F	Marine	65
	4684CF (Wet Exhaust - Corrugated)	75	20.0	2.06	C	A	5.0	0.75	-40°F	+212°F	Marine	59
	Engine Coolant (Wire Inserted - Hardwall)	75	20.0	2.08	P	P	3.5	3.75	-40°F	+257°F	Marine	54
	Engine Coolant (Silicone)	80	—	2.00	MQ	MQ	—	0.61	-65°F	+347°F	Marine	55
	Engine Coolant (Oil Resistant - Softwall)	85	—	2.05	C	A	15.0	0.63	-40°F	+212°F	Marine	53
	75W (Standard Wall Coolant)	90	2.0	2.00	P	P	15.0	0.63	-40°F	+257°F	Marine	51
	Wet Exhaust (Hardwall)	100	20.0	2.00	P	P	3.5	9.81	-40°F	+257°F	Marine	58
	Wet Exhaust (Softwall)	100	—	1.91	P	P	—	7.63	-40°F	+257°F	Marine	57
76W (Heavy Wall Coolant)	106	7.0	2.13	P	P	14.0	0.87	-40°F	+257°F	Marine	52	
Steelhead	150	—	2.10	D	D	15.0	0.74	-40°F	+150°F	Water	126	
1 3/4	63SB (Air & Vapor Duct)	10	5.0	1.94	A	A	2.0	0.30	-30°F	+250°F	Air and Multi-Purpose	34
	163SB (Air & Vapor Duct - Heavy Duty)	15	15.0	2.00	A	A	1.8	0.54	-30°F	+250°F	Air and Multi-Purpose	35
	4663K (Fuel Fill - Corrugated)	20	30.0	2.02	C	A	6.0	0.47	-40°F	+212°F	Marine	65
	4684CF (Wet Exhaust - Corrugated)	75	20.0	2.19	C	A	5.0	0.80	-40°F	+212°F	Marine	59
	75W (Standard Wall Coolant)	75	1.0	2.13	P	P	15.0	0.67	-40°F	+257°F	Marine	51
	Engine Coolant (Oil Resistant - Softwall)	75	—	2.17	C	A	15.0	0.68	-40°F	+212°F	Marine	53
	Engine Coolant (Wire Inserted - Hardwall)	75	20.0	2.21	P	P	4.0	4.00	-40°F	+257°F	Marine	54
	Engine Coolant (Silicone)	80	—	2.13	MQ	MQ	—	0.65	-65°F	+347°F	Marine	55
	76W (Heavy Wall Coolant)	100	5.0	2.25	P	P	15.0	0.93	-40°F	+257°F	Marine	52
	Wet Exhaust (Hardwall)	100	20.0	2.12	P	P	4.0	10.57	-40°F	+257°F	Marine	58
Wet Exhaust (Softwall)	100	—	2.03	P	P	—	8.15	-40°F	+257°F	Marine	57	
1 7/8	63SB (Air & Vapor Duct)	10	5.0	2.06	A	A	2.0	0.32	-30°F	+250°F	Air and Multi-Purpose	34
	163SB (Air & Vapor Duct - Heavy Duty)	15	15.0	2.13	A	A	1.8	0.58	-30°F	+250°F	Air and Multi-Purpose	35
	Fuel Fill (USCG Type A1 and B1)	18	20.0	2.28	C	A	9.0	11.34	-40°F	+212°F	Marine	64
	Fuel Fill (USCG Type A1 and B1)	18	20.0	2.28	C	A	9.0	45.37	-40°F	+212°F	Marine	64
	4663K (Fuel Fill - Corrugated)	20	30.0	2.14	C	A	6.0	0.50	-40°F	+212°F	Marine	65





**Industrial Hose  
Products**

# Hose Finder

## Data Pages

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Hose I.D. (In.)	Name	Rated W.P. (psi)	Suction (In. Hg.)	Hose O.D. (In.)	Tube Type	Cover Type	Min. Bend Radius (In.)	Hose Wt. (Lbs./Ft.)	Temp (°F)		Hose Categories	Catalog Page No.
									Min.	Max.		
1 7/8	4684CF (Wet Exhaust - Corrugated)	60	20.0	2.31	C	A	5.0	0.83	-40°F	+212°F	Marine	59
	Engine Coolant (Wire Inserted - Hardwall)	60	20.0	2.33	P	P	4.5	4.25	-40°F	+257°F	Marine	54
	75W (Standard Wall Coolant)	75	—	2.25	P	P	—	0.72	-40°F	+257°F	Marine	51
	Engine Coolant (Oil Resistant - Softwall)	75	—	2.30	C	A	—	0.73	-40°F	+212°F	Marine	53
	76W (Heavy Wall Coolant)	94	4.0	2.38	P	P	—	0.98	-40°F	+257°F	Marine	52
	Wet Exhaust (Hardwall)	100	20.0	2.24	P	P	4.5	11.23	-40°F	+257°F	Marine	58
	Wet Exhaust (Softwall)	100	—	2.19	P	P	—	8.63	-40°F	+257°F	Marine	57
	Steelhead	150	—	2.35	D	D	15.0	0.88	-40°F	+150°F	Water	126
2	63SB (Air & Vapor Duct)	5	3.0	2.19	A	A	2.0	0.33	-30°F	+250°F	Air and Multi-Purpose	34
	Master-Flex Vapor Recovery	5	—	2.43	U	G	2.0	0.48	-30°F	+140°F	Petroleum Transfer	109
	163SB (Air & Vapor Duct - Heavy Duty)	15	15.0	2.25	A	A	2.0	0.60	-30°F	+250°F	Air and Multi-Purpose	35
	Fuel Fill (USCG Type A1 and B1)	18	20.0	2.40	C	A	9.5	12.03	-40°F	+212°F	Marine	64
	Fuel Fill (USCG Type A1 and B1)	18	20.0	2.40	C	A	9.5	48.13	-40°F	+212°F	Marine	64
	4663K (Fuel Fill - Corrugated)	20	30.0	2.25	C	A	7.0	0.53	-40°F	+212°F	Marine	65
	Master-Flex 400	35	28.0	2.41	C	G	4.0	0.54	-30°F	+140°F	Material Handling	73
	Master-Flex 101CL	40	28.0	2.44	G	—	4.0	0.57	-10°F	+130°F	Water	131
	Master-Flex 201CR	40	28.0	2.44	G	G	4.0	0.57	-10°F	+130°F	Food and Beverage	48
	Master-Flex 202SW	40	28.0	2.37	G	G	4.0	0.58	-10°F	+130°F	Food and Beverage	49
	770SB	50	20.0	2.39	D <sub>3</sub>	D	8.0	0.75	-40°F	+150°F	Material Handling	70
	4684CF (Wet Exhaust - Corrugated)	60	20.0	2.44	C	A	5.0	0.88	-40°F	+212°F	Marine	59
	688SB (Bulk Commodity)	60	30.0	2.77	D <sub>3</sub>	D	16.0	1.65	-40°F	+150°F	Material Handling	68
	75W (Standard Wall Coolant)	60	—	2.39	P	P	—	0.76	-40°F	+257°F	Marine	51
	Engine Coolant (Oil Resistant - Softwall)	60	—	2.42	C	A	—	0.77	-40°F	+212°F	Marine	53
	Engine Coolant (Wire Inserted - Hardwall)	60	20.0	2.46	P	P	5.0	4.75	-40°F	+257°F	Marine	54
	Master-Flex 300 EPDM	60	28.0	2.49	P	G	9.0	0.69	-30°F	+140°F	Material Handling	72
	Master-Flex 500	65	—	2.16	G	G	—	0.21	+25°F	+120°F	Water	129
	Master-Flex 100GR	70	28.0	2.36	G	G	6.0	0.66	-10°F	+130°F	Water	130
	Master-Flex 101CL	70	28.0	2.36	G	—	6.0	0.66	-10°F	+130°F	Water	131
	Master-Flex 200CL	70	28.0	2.39	G	G	6.0	0.71	-10°F	+130°F	Food and Beverage	47
	Engine Coolant (Silicone)	75	—	2.38	MQ	MQ	—	0.73	-65°F	+347°F	Marine	55
	Tufflex Food	75	—	2.50	G	G	—	0.95	-10°F	+130°F	Food and Beverage	50
	76W (Heavy Wall Coolant)	88	3.0	2.50	P	P	—	1.04	-40°F	+257°F	Marine	52
	Maverick	100	30.0	2.48	C	C <sub>2</sub>	4.0	1.08	-40°F	+180°F	Petroleum Transfer	100
	Wet Exhaust (Hardwall)	100	20.0	2.36	P	P	5.0	11.90	-40°F	+257°F	Marine	58
	Wet Exhaust (Softwall)	100	—	2.32	P	P	—	9.18	-40°F	+257°F	Marine	57
	429W (Sand Blast)	120	5.0	2.94	D <sub>3</sub>	D	20.0	1.82	-40°F	+150°F	Material Handling	71
	Hot Air Blower	125	30.0	2.58	P	P	9.0	1.13	-40°F	+350°F	Material Handling	69
	690SB (Bulk Commodity)	150	30.0	2.75	D <sub>2</sub>	D <sub>3</sub>	12.0	1.88	-40°F	+150°F	Food and Beverage	44
	692SB (Bulk Commodity)	150	30.0	2.60	C	P	12.0	1.46	-40°F	+180°F	Food and Beverage	45
	Barracuda	150	30.0	2.36	P	P	8.0	0.76	-40°F	+180°F	Water	125
	Cellar Master Light	150	30.0	2.50	S	P	12.0	0.96	-40°F	+212°F	Food and Beverage	40
	Colt	150	30.0	2.54	P	P	6.0	1.11	-40°F	+250°F	Acid-Chemical	16
	Dolphin	150	—	2.32	P	P	—	0.65	-40°F	+180°F	Water	128
	Food Master Lite	150	30.0	2.60	C <sub>2</sub>	C <sub>2</sub>	6.0	1.50	-40°F	+230°F	Food and Beverage	41
	Longhorn	150	30.0	2.52	C	A	5.0	1.13	-40°F	+180°F	Petroleum Transfer	97
	Longhorn	150	30.0	2.52	C	A	6.0	1.12	-40°F	+180°F	Petroleum Transfer	97
	Longhorn AF (Alternative Fuel-Corrugated)	150	30.0	2.52	C	C <sub>2</sub>	6.0	1.10	-30°F	+180°F	Petroleum Transfer	98
	Marlin	150	—	2.33	P	D	20.0	0.65	-40°F	+180°F	Water	127
Marlin	150	—	2.41	P	D	20.0	0.84	-40°F	+180°F	Water	127	
Sani-Pure	150	—	2.57	C <sub>2</sub>	C <sub>2</sub>	24.0	1.25	-40°F	+230°F	Food and Beverage	42	
Shark	150	30.0	2.46	P	D	10.0	1.01	-40°F	+180°F	Water	124	
Steelhead	150	—	2.48	D	D	20.0	0.93	-40°F	+150°F	Water	126	
Steer	150	—	2.44	C	A	—	0.93	-40°F	+180°F	Petroleum Transfer	99	





Hose I.D. (In.)	Name	Rated W.P. (psi)	Suction (In. Hg.)	Hose O.D. (In.)	Tube Type	Cover Type	Min. Bend Radius (In.)	Hose Wt. (Lbs./Ft.)	Temp (°F)		Hose Categories	Catalog Page No.
									Min.	Max.		
	Super-Vac	150	30.0	2.47	C	D	4.0	0.99	-40°F	+150°F	Petroleum Transfer	101
	6B Dura Master	200	4.0	2.56	B <sub>1</sub>	B <sub>2</sub>	16.5	0.99	-22°F	+158°F	Air and Multi-Purpose	26
	Appaloosa	200	30.0	2.47	K	L	9.0	0.97	-40°F	+225°F	Acid-Chemical	14
	Mustang	200	30.0	2.54	K	P	9.0	1.10	-40°F	+250°F	Acid-Chemical	12
	Mustang	200	30.0	2.54	K	P	9.0	1.11	-40°F	+250°F	Acid-Chemical	12
	Mustang Crush Resistant	200	20.0	2.63	K	P	9.0	1.13	-40°F	+250°F	Acid-Chemical	13
	Renegade	200	30.0	2.50	L	P	9.0	0.99	-40°F	+212°F	Acid-Chemical	15
	Stallion	200	30.0	2.55	T	P	9.0	1.18	-40°F	+300°F	Acid-Chemical	10
	Stallion Crush Resistant	200	20.0	2.58	T	P	9.0	1.09	-40°F	+300°F	Acid-Chemical	11
	205MB Steam King	250	10.0	2.66	P <sub>2</sub>	P <sub>2</sub>	25.0	1.57	-40°F	+450°F	Steam	120
	232MB Steam Queen	250	10.0	2.66	P <sub>2</sub>	B <sub>1</sub>	25.0	1.64	-40°F	+450°F	Steam	121
	Cellar Master	250	30.0	2.62	S	P	6.0	1.20	-40°F	+230°F	Food and Beverage	39
	Food & Beverage Master	250	30.0	2.62	S	P	6.0	1.19	-40°F	+230°F	Food and Beverage	38
	Food & Beverage Master	250	30.0	2.62	S	P	6.0	1.20	-40°F	+230°F	Food and Beverage	38
	Aquarius Potable Water	300	10.0	2.70	D <sub>2</sub>	P	14.0	1.46	-40°F	+150°F	Food and Beverage	43
<b>2</b>	Sea Horse (Fuel Transfer)	300	10.0	2.66	C	A	14.0	1.40	-40°F	+180°F	Petroleum Transfer	105
	Sea Horse HW (Fuel Transfer Suction/Discharge - Hardwall)	300	30.0	2.78	C	A	10.0	1.87	-40°F	+180°F	Petroleum Transfer	106
	LP350 (Butane-Propane)	350	10.0	2.86	A	A	14.0	2.01	-40°F	+180°F	Petroleum Transfer	111
	Sea Horse 400 (Fuel Transfer)	400	10.0	2.70	C	A	17.0	1.51	-40°F	+180°F	Petroleum Transfer	103
	Sea Horse 400 HW (Fuel Transfer Suction/Discharge - Hardwall)	400	30.0	2.84	C	A	15.0	2.03	-40°F	+180°F	Petroleum Transfer	104
	Trident 400	400	10.0	2.71	A	A	16.0	1.50	-30°F	+158°F	Petroleum Transfer	107
	500 MP Air Drill	500	15.0	2.50	C	D <sub>3</sub>	14.0	1.40	-22°F	+180°F	Mining	79
	500 MP Air Drill	500	15.0	2.50	C	C <sub>2</sub>	14.0	1.43	-22°F	+180°F	Mining	79
	Terminator	501	10.0	2.64	C	C <sub>4</sub>	14.0	1.35	-40°F	+212°F	Air and Multi-Purpose	22
	18MB Air Drill	600	15.0	2.77	A	D <sub>3</sub>	14.0	1.99	-30°F	+212°F	Mining	78
	Scorpion	600	—	2.62	J	J	16.0	1.51	-40°F	+275°F	Mining	76
	Scorpion X-Treme	600	—	2.62	B <sub>1</sub>	J	16.0	1.46	-40°F	+300°F	Mining	77
	1000 MP/Mine Spray	1000	10.0	2.45	P	C <sub>2</sub>	25.0	1.36	-40°F	+212°F	Mining	74
	319MB Gold Master	1000	10.0	2.46	A	M	25.0	1.48	-40°F	+212°F	Air and Multi-Purpose	33
	Powerbraid Plus (Slim Hole Rotary)	3000	—	2.63	A	A	25.0	2.95	-40°F	+180°F	Oilfield	95
	Powerbraid Plus (Slim Hole Rotary)	5000	—	2.80	A	A	25.0	4.72	-40°F	+180°F	Oilfield	95
<b>2 1/8</b>	63SB (Air & Vapor Duct)	5	3.0	2.31	A	A	2.5	0.35	-30°F	+250°F	Air and Multi-Purpose	34
	163SB (Air & Vapor Duct - Heavy Duty)	10	15.0	2.40	A	A	2.5	0.74	-30°F	+250°F	Air and Multi-Purpose	35
	4684CF (Wet Exhaust - Corrugated)	55	20.0	2.56	C	A	6.0	0.93	-40°F	+212°F	Marine	59
	Engine Coolant (Wire Inserted - Hardwall)	55	20.0	2.58	P	P	5.5	5.05	-40°F	+257°F	Marine	54
	75W (Standard Wall Coolant)	60	—	2.51	P	P	—	0.79	-40°F	+257°F	Marine	51
	Engine Coolant (Oil Resistant - Softwall)	60	—	2.55	C	A	—	0.82	-40°F	+212°F	Marine	53
	Engine Coolant (Silicone)	75	—	2.51	MQ	MQ	—	0.77	-65°F	+347°F	Marine	55
	Wet Exhaust (Hardwall)	100	20.0	2.49	P	P	5.5	12.56	-40°F	+257°F	Marine	58
	Wet Exhaust (Softwall)	100	—	2.45	P	P	—	9.69	-40°F	+257°F	Marine	57
<b>2 1/4</b>	63SB (Air & Vapor Duct)	5	3.0	2.44	A	A	2.5	0.37	-30°F	+250°F	Air and Multi-Purpose	34
	163SB (Air & Vapor Duct - Heavy Duty)	10	15.0	2.50	A	A	2.5	0.88	-30°F	+250°F	Air and Multi-Purpose	35
	4663K (Fuel Fill - Corrugated)	20	30.0	2.50	C	A	8.0	0.54	-40°F	+212°F	Marine	65
	4684CF (Wet Exhaust - Corrugated)	55	20.0	2.69	C	A	6.0	0.98	-40°F	+212°F	Marine	59
	Engine Coolant (Wire Inserted - Hardwall)	55	20.0	2.71	P	P	6.0	5.30	-40°F	+257°F	Marine	54
	75W (Standard Wall Coolant)	60	—	2.64	P	P	—	0.84	-40°F	+257°F	Marine	51
	Engine Coolant (Oil Resistant - Softwall)	60	—	2.67	C	A	—	0.85	-40°F	+212°F	Marine	53
	Engine Coolant (Silicone)	75	—	2.63	MQ	MQ	—	0.81	-65°F	+347°F	Marine	55
	76W (Heavy Wall Coolant)	88	1.0	2.74	P	P	—	1.15	-40°F	+257°F	Marine	52
	Wet Exhaust (Hardwall)	100	20.0	2.63	P	P	6.0	13.20	-40°F	+257°F	Marine	58
	Wet Exhaust (Softwall)	100	—	2.57	P	P	—	10.19	-40°F	+257°F	Marine	57
<b>2 3/8</b>	63SB (Air & Vapor Duct)	5	3.0	2.56	A	A	2.5	0.39	-30°F	+250°F	Air and Multi-Purpose	34
	163SB (Air & Vapor Duct - Heavy Duty)	10	15.0	2.63	A	A	2.5	0.71	-30°F	+250°F	Air and Multi-Purpose	35



**Industrial Hose  
Products**

# Hose Finder

## Data Pages

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Hose I.D. (In.)	Name	Rated W.P. (psi)	Suction (In. Hg.)	Hose O.D. (In.)	Tube Type	Cover Type	Min. Bend Radius (In.)	Hose Wt. (Lbs./Ft.)	Temp (°F)		Hose Categories	Catalog Page No.
									Min.	Max.		
2 3/8	Fuel Fill (USCG Type A1 and B1)	18	20.0	2.78	C	A	10.0	14.02	-40°F	+212°F	Marine	64
	Fuel Fill (USCG Type A1 and B1)	18	20.0	2.78	C	A	10.0	56.08	-40°F	+212°F	Marine	64
	4684CF (Wet Exhaust - Corrugated)	50	20.0	2.81	C	A	7.0	1.03	-40°F	+212°F	Marine	59
	Engine Coolant (Wire Inserted - Hardwall)	50	20.0	2.83	P	P	6.5	5.55	-40°F	+257°F	Marine	54
	75W (Standard Wall Coolant)	60	—	2.76	P	P	—	0.88	-40°F	+257°F	Marine	51
	Engine Coolant (Oil Resistant - Softwall)	60	—	2.80	C	A	—	0.89	-40°F	+212°F	Marine	53
	Engine Coolant (Silicone)	65	—	2.75	MQ	MQ	—	0.85	-65°F	+347°F	Marine	55
	76W (Heavy Wall Coolant)	81	—	2.88	P	P	—	1.21	-40°F	+257°F	Marine	52
	Wet Exhaust (Hardwall)	100	20.0	2.75	P	P	6.5	14.62	-40°F	+257°F	Marine	58
Wet Exhaust (Softwall)	100	—	2.69	P	P	—	10.70	-40°F	+257°F	Marine	57	
2 1/2	63SB (Air & Vapor Duct)	5	3.0	2.69	A	A	2.5	0.41	-30°F	+250°F	Air and Multi-Purpose	34
	163SB (Air & Vapor Duct - Heavy Duty)	10	15.0	2.75	A	A	2.5	0.74	-30°F	+250°F	Air and Multi-Purpose	35
	4663K (Fuel Fill - Corrugated)	20	30.0	2.75	C	A	12.0	0.65	-40°F	+212°F	Marine	65
	Master-Flex 400	35	28.0	2.98	C	G	5.0	0.77	-30°F	+140°F	Material Handling	73
	Master-Flex 201CR	40	28.0	2.98	G	G	5.0	0.77	-10°F	+130°F	Food and Beverage	48
	Master-Flex 202SW	40	28.0	3.01	G	G	4.0	0.79	-10°F	+130°F	Food and Beverage	49
	4684CF (Wet Exhaust - Corrugated)	50	20.0	2.94	C	A	7.0	1.08	-40°F	+212°F	Marine	59
	770SB	50	20.0	2.89	D <sub>3</sub>	D	9.0	0.91	-40°F	+150°F	Material Handling	70
	Engine Coolant (Wire Inserted - Hardwall)	50	20.0	2.96	P	P	6.5	5.80	-40°F	+257°F	Marine	54
	Master-Flex 300 EPDM	50	28.0	3.00	P	G	11.0	0.91	-30°F	+140°F	Material Handling	72
	75W (Standard Wall Coolant)	60	—	2.89	P	P	—	0.92	-40°F	+257°F	Marine	51
	Engine Coolant (Oil Resistant - Softwall)	60	—	2.92	C	A	—	0.94	-40°F	+212°F	Marine	53
	Master-Flex 500	60	—	2.55	G	G	—	0.28	+25°F	+120°F	Water	129
	Engine Coolant (Silicone)	65	—	2.88	MQ	MQ	—	0.89	-65°F	+347°F	Marine	55
	Master-Flex 100GR	65	28.0	2.90	G	G	8.0	0.92	-10°F	+130°F	Water	130
	Master-Flex 101CL	65	28.0	2.90	G	—	8.0	0.92	-10°F	+130°F	Water	131
	Master-Flex 200CL	65	28.0	2.92	G	G	8.0	0.97	-10°F	+130°F	Food and Beverage	47
	76W (Heavy Wall Coolant)	75	—	3.00	P	P	—	1.27	-40°F	+257°F	Marine	52
	Wet Exhaust (Hardwall)	100	20.0	2.90	P	P	6.5	15.33	-40°F	+257°F	Marine	58
	Wet Exhaust (Softwall)	100	—	2.82	P	P	—	11.24	-40°F	+257°F	Marine	57
	Hot Air Blower	110	30.0	3.08	P	P	14.0	1.43	-40°F	+350°F	Material Handling	69
	690SB (Bulk Commodity)	125	30.0	3.23	D <sub>2</sub>	D <sub>3</sub>	15.0	2.25	-40°F	+150°F	Food and Beverage	44
	692SB (Bulk Commodity)	125	30.0	2.85	C	P	15.0	1.77	-40°F	+180°F	Food and Beverage	45
	Barracuda	150	30.0	2.96	P	P	10.0	1.06	-40°F	+180°F	Water	125
	Barracuda	150	30.0	2.96	P	P	10.0	1.06	-32°F	+200°F	Water	125
	Cellar Master Light	150	30.0	3.11	S	P	22.0	1.53	-40°F	+212°F	Food and Beverage	40
	Colt	150	30.0	3.05	P	P	9.0	1.48	-40°F	+250°F	Acid-Chemical	16
	Dolphin	150	—	2.82	P	P	—	0.80	-40°F	+180°F	Water	128
	Food Master Lite	150	30.0	3.13	C <sub>2</sub>	C <sub>2</sub>	12.0	1.98	-40°F	+230°F	Food and Beverage	41
	Longhorn	150	30.0	3.05	C	A	8.0	1.50	-40°F	+180°F	Petroleum Transfer	97
	Longhorn AF (Alternative Fuel-Corrugated)	150	30.0	3.05	C	C <sub>2</sub>	8.0	1.47	-30°F	+180°F	Petroleum Transfer	98
	Marlin	150	—	2.83	P	D	25.0	1.02	-40°F	+180°F	Water	127
	Marlin	150	—	2.91	P	D	25.0	1.02	-40°F	+180°F	Water	127
	Mustang	150	30.0	3.05	K	P	12.0	1.40	-40°F	+250°F	Acid-Chemical	12
	Renegade	150	30.0	3.01	L	P	12.0	1.28	-40°F	+212°F	Acid-Chemical	15
	Sani-Pure	150	—	3.08	C <sub>2</sub>	C <sub>2</sub>	30.0	1.65	-40°F	+230°F	Food and Beverage	42
	Shark	150	30.0	3.02	P	D	12.0	1.46	-40°F	+180°F	Water	124
	Stallion	150	30.0	3.07	T	P	12.0	1.49	-40°F	+300°F	Acid-Chemical	10
	Steelhead	150	—	2.99	D	D	25.0	1.14	-40°F	+150°F	Water	126
	Super-Vac	150	30.0	2.99	C	D	5.0	1.46	-40°F	+150°F	Petroleum Transfer	101
Cellar Master	250	30.0	3.25	S	P	12.0	1.81	-40°F	+230°F	Food and Beverage	39	
Food & Beverage Master	250	30.0	3.25	S	P	12.0	1.81	-40°F	+230°F	Food and Beverage	38	
Sea Horse (Fuel Transfer)	300	10.0	3.16	C	A	17.0	1.70	-40°F	+180°F	Petroleum Transfer	105	





**Industrial Hose  
Products**

# Hose Finder

## Data Pages

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Hose I.D. (In.)	Name	Rated W.P. (psi)	Suction (In. Hg.)	Hose O.D. (In.)	Tube Type	Cover Type	Min. Bend Radius (In.)	Hose Wt. (Lbs./Ft.)	Temp (°F)		Hose Categories	Catalog Page No.
									Min.	Max.		
2 1/2	Trident 400	400	10.0	3.20	A	A	20.0	1.82	-30°F	+158°F	Petroleum Transfer	107
	18MB Air Drill	500	10.0	3.46	A	D <sub>3</sub>	30.0	3.04	-30°F	+212°F	Mining	78
	500 MP Air Drill	500	10.0	3.14	C	D <sub>3</sub>	30.0	2.16	-22°F	+180°F	Mining	79
	500 MP Air Drill	500	10.0	3.14	C	C <sub>2</sub>	30.0	2.19	-22°F	+180°F	Mining	79
	Scorpion	600	—	3.12	J	J	18.0	1.89	-40°F	+275°F	Mining	76
	Scorpion X-Treme	600	—	3.12	B <sub>1</sub>	J	18.0	1.81	-40°F	+300°F	Mining	77
	Longwall Mine Emulsion	1000	10.0	3.34	A	C <sub>2</sub>	20.0	2.90	-40°F	+212°F	Mining	75
	Powerbraid Plus (Slim Hole Rotary)	2500	—	3.38	C	A	30.0	4.00	-40°F	+180°F	Oilfield	95
2 5/8	63SB (Air & Vapor Duct)	5	3.0	2.81	A	A	2.8	0.43	-30°F	+250°F	Air and Multi-Purpose	34
	163SB (Air & Vapor Duct - Heavy Duty)	10	15.0	2.88	A	A	3.0	0.78	-30°F	+250°F	Air and Multi-Purpose	35
	4684CF (Wet Exhaust - Corrugated)	40	15.0	3.06	C	A	9.0	1.12	-40°F	+212°F	Marine	59
	Engine Coolant (Wire Inserted - Hardwall)	40	15.0	3.08	P	P	7.0	6.05	-40°F	+257°F	Marine	54
	75W (Standard Wall Coolant)	60	—	3.02	P	P	—	0.96	-40°F	+257°F	Marine	51
	Engine Coolant (Oil Resistant - Softwall)	60	—	3.05	C	A	—	0.98	-40°F	+212°F	Marine	53
	76W (Heavy Wall Coolant)	69	—	3.13	P	P	—	1.32	-40°F	+257°F	Marine	52
	Wet Exhaust (Hardwall)	100	15.0	3.02	P	P	7.0	16.00	-40°F	+257°F	Marine	58
	Wet Exhaust (Softwall)	100	—	2.95	P	P	—	11.79	-40°F	+257°F	Marine	57
2 3/4	63SB (Air & Vapor Duct)	5	3.0	2.94	A	A	2.8	0.44	-30°F	+250°F	Air and Multi-Purpose	34
	163SB (Air & Vapor Duct - Heavy Duty)	10	15.0	3.00	A	A	7.0	0.81	-30°F	+250°F	Air and Multi-Purpose	35
	4684CF (Wet Exhaust - Corrugated)	40	15.0	3.19	C	A	10.0	1.17	-40°F	+212°F	Marine	59
	Engine Coolant (Wire Inserted - Hardwall)	40	15.0	3.21	P	P	7.5	6.30	-40°F	+257°F	Marine	54
	Engine Coolant (Silicone)	50	—	3.13	MQ	MQ	—	0.97	-65°F	+347°F	Marine	55
	75W (Standard Wall Coolant)	60	—	3.14	P	P	—	1.00	-40°F	+257°F	Marine	51
	Engine Coolant (Oil Resistant - Softwall)	60	—	3.17	C	A	—	1.03	-40°F	+212°F	Marine	53
	76W (Heavy Wall Coolant)	63	—	3.25	P	P	—	1.37	-40°F	+257°F	Marine	52
	Wet Exhaust (Hardwall)	100	15.0	3.22	P	P	7.5	16.69	-40°F	+257°F	Marine	58
Wet Exhaust (Softwall)	100	—	3.09	P	P	—	12.29	-40°F	+257°F	Marine	57	
2 7/8	4684CF (Wet Exhaust - Corrugated)	40	15.0	3.31	C	A	11.0	1.21	-40°F	+212°F	Marine	59
	Engine Coolant (Wire Inserted - Hardwall)	40	15.0	3.33	P	P	9.0	6.60	-40°F	+257°F	Marine	54
	Engine Coolant (Oil Resistant - Softwall)	55	—	3.30	C	A	—	1.07	-40°F	+212°F	Marine	53
	75W (Standard Wall Coolant)	60	—	3.26	P	P	—	1.04	-40°F	+257°F	Marine	51
	76W (Heavy Wall Coolant)	63	—	3.38	P	P	—	1.43	-40°F	+257°F	Marine	52
	Wet Exhaust (Hardwall)	100	15.0	3.42	P	P	8.0	17.35	-40°F	+257°F	Marine	58
	Wet Exhaust (Softwall)	100	—	3.23	P	P	—	12.80	-40°F	+257°F	Marine	57
3	63SB (Air & Vapor Duct)	5	3.0	3.19	A	A	3.0	0.49	-30°F	+250°F	Air and Multi-Purpose	34
	Master-Flex Vapor Recovery	5	—	3.54	U	G	3.0	0.69	-30°F	+140°F	Petroleum Transfer	109
	163SB (Air & Vapor Duct - Heavy Duty)	10	7.0	3.25	A	A	10.0	0.88	-30°F	+250°F	Air and Multi-Purpose	35
	4663K (Fuel Fill - Corrugated)	20	30.0	3.27	C	A	—	0.84	-40°F	+212°F	Marine	65
	Master-Flex 400	30	28.0	3.87	C	G	6.0	1.05	-30°F	+140°F	Material Handling	73
	Master-Flex 101CL	35	28.0	3.54	G	—	6.0	1.04	-10°F	+130°F	Water	131
	Master-Flex 201CR	35	28.0	3.54	G	G	6.0	1.04	-10°F	+130°F	Food and Beverage	48
	Master-Flex 202SW	35	28.0	3.05	G	G	6.0	1.06	-10°F	+130°F	Food and Beverage	49
	4684CF (Wet Exhaust - Corrugated)	40	15.0	3.44	C	A	12.0	1.26	-40°F	+212°F	Marine	59
	609W (Dry Cement Delivery)	40	—	3.47	D <sub>3</sub>	D	36.0	1.30	-40°F	+150°F	Material Handling	67
	Engine Coolant (Wire Inserted - Hardwall)	40	15.0	3.43	P	P	9.0	6.85	-40°F	+257°F	Marine	54
	75W (Standard Wall Coolant)	50	—	3.39	P	P	—	1.10	-40°F	+257°F	Marine	51
	770SB	50	20.0	3.39	D <sub>3</sub>	D	10.0	1.19	-40°F	+150°F	Material Handling	70
	Engine Coolant (Oil Resistant - Softwall)	50	—	3.42	C	A	—	1.10	-40°F	+212°F	Marine	53
	Engine Coolant (Silicone)	50	—	3.38	MQ	MQ	—	1.05	-65°F	+347°F	Marine	55
	Master-Flex 300 EPDM	50	28.0	3.60	P	G	12.0	1.03	-30°F	+140°F	Material Handling	72
	Master-Flex 101CL	55	28.0	3.44	G	—	9.0	1.20	-10°F	+130°F	Water	131
	688SB (Bulk Commodity)	60	30.0	3.81	D <sub>3</sub>	D	24.0	2.54	-40°F	+150°F	Material Handling	68
Master-Flex 100GR	60	28.0	3.44	G	G	9.0	1.20	-10°F	+130°F	Water	130	



**Industrial Hose  
Products**

# Hose Finder

## Data Pages

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Hose I.D. (In.)	Name	Rated W.P. (psi)	Suction (In. Hg.)	Hose O.D. (In.)	Tube Type	Cover Type	Min. Bend Radius (In.)	Hose Wt. (Lbs./Ft.)	Temp (°F)		Hose Categories	Catalog Page No.
									Min.	Max.		
	Master-Flex 200CL	60	28.0	3.46	G	G	9.0	1.27	-10°F	+130°F	Food and Beverage	47
	Master-Flex 500	60	—	3.17	G	G	—	0.39	+25°F	+120°F	Water	129
	76W (Heavy Wall Coolant)	63	—	3.50	P	P	—	1.49	-40°F	+257°F	Marine	52
	Master-Flex Fuel Delivery	65	28.0	3.76	C <sub>3</sub>	G	6.0	1.71	-30°F	+130°F	Petroleum Transfer	108
	690SB (Bulk Commodity)	100	30.0	3.75	D <sub>2</sub>	D <sub>3</sub>	18.0	2.73	-40°F	+150°F	Food and Beverage	44
	Hot Air Blower	100	30.0	3.64	P	P	18.0	1.89	-40°F	+350°F	Material Handling	69
	Maverick	100	30.0	3.50	C	C <sub>2</sub>	6.0	1.73	-40°F	+180°F	Petroleum Transfer	100
	Wet Exhaust (Hardwall)	100	15.0	3.54	P	P	9.0	19.41	-40°F	+257°F	Marine	58
	Wet Exhaust (Softwall)	100	—	3.36	P	P	—	14.45	-40°F	+257°F	Marine	57
	692SB (Bulk Commodity)	125	30.0	3.52	C	P	18.0	2.20	-40°F	+180°F	Food and Beverage	45
	Appaloosa	150	30.0	3.51	K	L	18.0	1.58	-40°F	+225°F	Acid-Chemical	14
	Barracuda	150	30.0	3.54	P	P	14.0	1.74	-40°F	+180°F	Water	125
	Cellar Master Light	150	30.0	3.75	S	P	20.0	2.13	-40°F	+212°F	Food and Beverage	40
	Colt	150	30.0	3.60	P	P	11.0	1.94	-40°F	+250°F	Acid-Chemical	16
	Dolphin	150	—	3.36	P	P	—	1.08	-40°F	+180°F	Water	128
	Food Master Lite	150	30.0	3.63	C <sub>2</sub>	C <sub>2</sub>	18.0	2.35	-40°F	+230°F	Food and Beverage	41
	Longhorn	150	30.0	3.58	C	A	8.0	1.78	-40°F	+180°F	Petroleum Transfer	97
	Longhorn	150	30.0	3.58	C	A	9.0	1.90	-40°F	+180°F	Petroleum Transfer	97
	Longhorn AF (Alternative Fuel-Corrugated)	150	30.0	3.53	C	C <sub>2</sub>	9.0	1.86	-30°F	+180°F	Petroleum Transfer	98
	Marlin	150	—	3.33	P	D	36.0	1.21	-40°F	+180°F	Water	127
	Marlin	150	—	3.41	P	D	36.0	1.21	-40°F	+180°F	Water	127
	Mustang	150	30.0	3.58	K	P	18.0	1.79	-40°F	+250°F	Acid-Chemical	12
	Mustang	150	30.0	3.58	K	P	18.0	1.81	-40°F	+250°F	Acid-Chemical	12
	Renegade	150	30.0	3.53	L	P	18.0	1.63	-40°F	+212°F	Acid-Chemical	15
	Sani-Pure	150	—	3.58	C <sub>2</sub>	C <sub>2</sub>	36.0	1.90	-40°F	+230°F	Food and Beverage	42
<b>3</b>	Shark	150	30.0	3.58	P	D	15.0	2.01	-40°F	+180°F	Water	124
	Stallion	150	30.0	3.59	T	P	18.0	1.83	-40°F	+300°F	Acid-Chemical	10
	Steelhead	150	—	3.49	D	D	36.0	1.35	-40°F	+150°F	Water	126
	Steelhead	150	—	3.49	D	D	36.0	1.64	-40°F	+150°F	Water	126
	Steer	150	—	3.45	C	A	—	1.39	-40°F	+180°F	Petroleum Transfer	99
	Super-Vac	150	30.0	3.52	C	D	6.0	1.76	-40°F	+150°F	Petroleum Transfer	101
	Aquarius Potable Water	200	10.0	3.70	D <sub>2</sub>	P	21.0	2.15	-40°F	+150°F	Food and Beverage	43
	Cellar Master	250	30.0	3.86	S	P	18.0	2.46	-40°F	+230°F	Food and Beverage	39
	Food & Beverage Master	250	30.0	3.86	S	P	18.0	2.46	-40°F	+230°F	Food and Beverage	38
	Food & Beverage Master	250	30.0	3.86	S	P	18.0	2.47	-40°F	+230°F	Food and Beverage	38
	Sea Horse (Fuel Transfer)	300	10.0	3.70	C	A	21.0	2.17	-40°F	+180°F	Petroleum Transfer	105
	Sea Horse HW (Fuel Transfer Suction/Discharge - Hardwall)	300	30.0	3.86	C	A	18.0	3.14	-40°F	+180°F	Petroleum Transfer	106
	LP350 (Butane-Propane)	350	10.0	3.88	A	A	24.0	2.77	-40°F	+180°F	Petroleum Transfer	111
	Sea Horse 400 (Fuel Transfer)	400	10.0	3.67	C	A	22.0	2.14	-40°F	+180°F	Petroleum Transfer	103
	Sea Horse 400 HW (Fuel Transfer Suction/Discharge - Hardwall)	400	30.0	4.00	C	A	20.0	3.66	-40°F	+180°F	Petroleum Transfer	104
	Trident 400	400	10.0	3.71	A	A	24.0	2.23	-30°F	+158°F	Petroleum Transfer	107
	18MB Air Drill	500	10.0	3.97	A	D <sub>3</sub>	36.0	3.69	-30°F	+212°F	Mining	78
	500 MP Air Drill	500	10.0	3.67	C	D <sub>3</sub>	36.0	2.73	-22°F	+180°F	Mining	79
	500 MP Air Drill	500	10.0	3.67	C	C <sub>2</sub>	36.0	2.78	-22°F	+180°F	Mining	79
	Scorpion	600	—	3.64	J	J	20.0	2.46	-40°F	+275°F	Mining	76
	Scorpion X-Treme	600	—	3.77	B <sub>1</sub>	J	20.0	2.83	-40°F	+300°F	Mining	77
	Longwall Mine Emulsion	1000	10.0	3.91	A	C <sub>4</sub>	20.0	4.05	-40°F	+212°F	Mining	75
	Longwall Mine Emulsion	1000	10.0	3.91	A	C <sub>2</sub>	20.0	4.05	-40°F	+212°F	Mining	75
	Longwall Mine Emulsion	1000	10.0	3.91	A	C <sub>4</sub>	20.0	4.05	-40°F	+212°F	Mining	75
	Longwall Mine Emulsion	1000	10.0	3.91	A	C <sub>2</sub>	20.0	4.05	-40°F	+212°F	Mining	75
	Powerbraid Plus (Slim Hole Rotary)	2000	—	3.90	C	A	36.0	4.33	-40°F	+180°F	Oilfield	95
<b>3 1/8</b>	163SB (Air & Vapor Duct - Heavy Duty)	10	7.0	3.35	A	A	10.0	0.84	-30°F	+250°F	Air and Multi-Purpose	35
<b>3 1/4</b>	Engine Coolant (Oil Resistant - Softwall)	35	—	3.67	C	A	—	1.19	-40°F	+212°F	Marine	53
<b>3 1/4</b>	Engine Coolant (Silicone)	40	—	3.63	MQ	MQ	—	1.14	-65°F	+347°F	Marine	55





**Industrial Hose  
Products**

# Hose Finder

## Data Pages

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Hose I.D. (In.)	Name	Rated W.P. (psi)	Suction (In. Hg.)	Hose O.D. (In.)	Tube Type	Cover Type	Min. Bend Radius (In.)	Hose Wt. (Lbs./Ft.)	Temp (°F)		Hose Categories	Catalog Page No.
									Min.	Max.		
<b>3 1/2</b>	63SB (Air & Vapor Duct)	5	3.0	3.69	A	A	3.5	0.57	-30°F	+250°F	Air and Multi-Purpose	34
	163SB (Air & Vapor Duct - Heavy Duty)	10	7.0	3.75	A	A	10.0	1.01	-30°F	+250°F	Air and Multi-Purpose	35
	Engine Coolant (Oil Resistant - Softwall)	10	—	3.92	C	A	—	1.28	-40°F	+212°F	Marine	53
	75W (Standard Wall Coolant)	20	—	3.89	P	P	—	1.26	-40°F	+257°F	Marine	51
	4684CF (Wet Exhaust - Corrugated)	35	15.0	4.06	C	A	17.0	1.45	-40°F	+212°F	Marine	59
	Engine Coolant (Silicone)	35	—	3.88	MQ	MQ	—	1.23	-65°F	+347°F	Marine	55
	Engine Coolant (Wire Inserted - Hardwall)	35	15.0	3.93	P	P	12.0	7.90	-40°F	+257°F	Marine	54
	76W (Heavy Wall Coolant)	50	—	4.00	P	P	—	1.71	-40°F	+257°F	Marine	52
	Hot Air Blower	85	30.0	4.14	P	P	21.0	2.17	-40°F	+350°F	Material Handling	69
	Wet Exhaust (Hardwall)	100	15.0	4.04	P	P	12.0	22.31	-40°F	+257°F	Marine	58
	Wet Exhaust (Softwall)	100	—	3.86	P	P	—	16.63	-40°F	+257°F	Marine	57
	Marlin	150	—	3.91	P	D	42.0	1.47	-40°F	+180°F	Water	127
Steelhead	150	—	3.99	D	D	42.0	1.35	-40°F	+150°F	Water	126	
<b>3 5/8</b>	63SB (Air & Vapor Duct)	5	3.0	3.81	A	A	4.0	0.59	-30°F	+250°F	Air and Multi-Purpose	34
<b>3 3/4</b>	Engine Coolant (Silicone)	35	—	4.13	MQ	MQ	—	1.32	-65°F	+347°F	Marine	55
<b>4</b>	63SB (Air & Vapor Duct)	5	3.0	4.19	A	A	4.0	0.80	-30°F	+250°F	Air and Multi-Purpose	34
	Master-Flex Vapor Recovery	5	—	4.56	U	G	4.0	0.92	-30°F	+140°F	Petroleum Transfer	109
	163SB (Air & Vapor Duct - Heavy Duty)	10	7.0	4.25	A	A	12.0	1.15	-30°F	+250°F	Air and Multi-Purpose	35
	Engine Coolant (Oil Resistant - Softwall)	10	—	4.42	C	A	—	1.46	-40°F	+212°F	Marine	53
	75W (Standard Wall Coolant)	12	—	4.39	P	P	—	1.43	-40°F	+257°F	Marine	51
	4684CF (Wet Exhaust - Corrugated)	30	10.0	4.44	C	A	24.0	1.64	-40°F	+212°F	Marine	59
	Engine Coolant (Wire Inserted - Hardwall)	30	10.0	4.43	P	P	20.0	8.95	-40°F	+257°F	Marine	54
	Master-Flex 400	30	28.0	4.65	C	G	8.0	1.68	-30°F	+140°F	Material Handling	73
	Engine Coolant (Silicone)	35	—	4.38	MQ	MQ	—	1.40	-65°F	+347°F	Marine	55
	Master-Flex 101CL	35	28.0	4.65	G	—	8.0	1.65	-10°F	+130°F	Water	131
	Master-Flex 201CR	35	28.0	4.65	G	G	8.0	1.65	-10°F	+130°F	Food and Beverage	48
	Master-Flex 202SW	35	28.0	4.54	G	G	8.0	1.68	-10°F	+130°F	Food and Beverage	49
	76W (Heavy Wall Coolant)	38	—	4.50	P	P	—	1.95	-40°F	+257°F	Marine	52
	609W (Dry Cement Delivery)	40	—	4.47	D <sub>3</sub>	D	48.0	1.69	-40°F	+150°F	Material Handling	67
	610W (Bulk Commodity)	40	—	4.56	D <sub>2</sub>	D <sub>3</sub>	48.0	2.22	-40°F	+150°F	Food and Beverage	46
	688SB (Bulk Commodity)	45	30.0	4.77	D <sub>3</sub>	D	32.0	3.21	-40°F	+150°F	Material Handling	68
	Master-Flex 300 EPDM	45	28.0	4.69	P	G	17.0	1.81	-30°F	+140°F	Material Handling	72
	770SB	50	20.0	4.39	D <sub>3</sub>	D	15.0	1.49	-40°F	+150°F	Material Handling	70
	Master-Flex 100GR	50	28.0	4.52	G	G	13.0	1.87	-10°F	+130°F	Water	130
	Master-Flex 101CL	50	28.0	4.52	G	—	13.0	1.87	-10°F	+130°F	Water	131
	Master-Flex 200CL	50	28.0	4.56	G	G	12.0	2.01	-10°F	+130°F	Food and Beverage	47
	609W (Dry Cement Delivery)	60	—	4.61	D <sub>3</sub>	D	48.0	2.21	-40°F	+150°F	Material Handling	67
	609W (Dry Cement Delivery)	60	—	4.73	D <sub>3</sub>	D	48.0	2.69	-40°F	+150°F	Material Handling	67
	Master-Flex 500	60	—	4.20	G	G	—	0.53	+25°F	+120°F	Water	129
	Master-Flex Fuel Delivery	65	28.0	4.79	C <sub>3</sub>	G	8.0	2.44	-30°F	+130°F	Petroleum Transfer	108
	690SB (Bulk Commodity)	75	30.0	4.71	D <sub>2</sub>	D <sub>3</sub>	24.0	3.51	-40°F	+150°F	Food and Beverage	44
	692SB (Bulk Commodity)	75	30.0	4.55	C	P	24.0	2.96	-40°F	+180°F	Food and Beverage	45
	Hot Air Blower	75	30.0	4.64	P	P	24.0	2.44	-40°F	+350°F	Material Handling	69
	Maverick	100	30.0	4.50	C	C <sub>2</sub>	11.0	2.25	-40°F	+180°F	Petroleum Transfer	100
	Super-Vac	100	30.0	4.52	C	D	8.0	2.29	-40°F	+150°F	Petroleum Transfer	101
	Wet Exhaust (Hardwall)	100	10.0	4.54	P	P	20.0	27.60	-40°F	+257°F	Marine	58
	Wet Exhaust (Softwall)	100	—	4.36	P	P	—	18.57	-40°F	+257°F	Marine	57
	Colt	125	30.0	4.60	P	P	16.0	2.52	-40°F	+250°F	Acid-Chemical	16
	Mustang	125	30.0	4.69	K	P	24.0	2.72	-40°F	+250°F	Acid-Chemical	12
	Renegade	125	30.0	4.53	L	P	24.0	2.11	-40°F	+212°F	Acid-Chemical	15
	Stallion	125	30.0	4.66	T	P	24.0	2.74	-40°F	+300°F	Acid-Chemical	10
Aquarius Potable Water	150	10.0	4.70	D <sub>2</sub>	P	28.0	2.70	-40°F	+150°F	Food and Beverage	43	



**Industrial Hose  
Products**

# Hose Finder

## Data Pages

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Hose I.D. (In.)	Name	Rated W.P. (psi)	Suction (In. Hg.)	Hose O.D. (In.)	Tube Type	Cover Type	Min. Bend Radius (In.)	Hose Wt. (Lbs./Ft.)	Temp (°F)		Hose Categories	Catalog Page No.
									Min.	Max.		
4	Barracuda	150	30.0	4.54	P	P	18.0	2.25	-40°F	+180°F	Water	125
	Blender Transfer	150	—	4.73	C	A	—	3.07	-40°F	+180°F	Petroleum Transfer	102
	Cellar Master Light	150	30.0	4.76	S	P	28.0	2.82	-40°F	+212°F	Food and Beverage	40
	Dolphin	150	—	4.36	P	P	—	1.41	-40°F	+180°F	Water	128
	Food Master Lite	150	30.0	4.65	C <sub>2</sub>	C <sub>2</sub>	24.0	3.12	-40°F	+230°F	Food and Beverage	41
	Longhorn	150	30.0	4.64	C	A	11.0	2.65	-40°F	+180°F	Petroleum Transfer	97
	Longhorn	150	30.0	4.62	C	A	12.0	2.65	-40°F	+180°F	Petroleum Transfer	97
	Longhorn AF (Alternative Fuel-Corrugated)	150	30.0	4.57	C	C <sub>2</sub>	12.0	2.59	-30°F	+180°F	Petroleum Transfer	98
	Marlin	150	—	4.33	P	D	48.0	1.32	-40°F	+180°F	Water	127
	Marlin	150	—	4.41	P	D	48.0	1.67	-40°F	+180°F	Water	127
	Sani-Pure	150	—	4.61	C <sub>2</sub>	C <sub>2</sub>	48.0	2.77	-40°F	+230°F	Food and Beverage	42
	Shark	150	30.0	4.58	P	D	20.0	2.62	-40°F	+180°F	Water	124
	Steelhead	150	—	4.49	D	D	48.0	1.85	-40°F	+150°F	Water	126
	Steer	150	—	4.51	C	A	—	2.03	-40°F	+180°F	Petroleum Transfer	99
	Cellar Master	250	30.0	4.88	S	P	36.0	3.24	-40°F	+230°F	Food and Beverage	39
	Food & Beverage Master	250	30.0	4.88	S	P	36.0	3.24	-40°F	+230°F	Food and Beverage	38
	Sea Horse (Fuel Transfer)	300	10.0	4.70	C	A	28.0	2.80	-40°F	+180°F	Petroleum Transfer	105
	Sea Horse HW (Fuel Transfer Suction/Discharge - Hardwall)	300	30.0	4.87	C	A	24.0	4.03	-40°F	+180°F	Petroleum Transfer	106
	Sea Horse 400 (Fuel Transfer)	400	10.0	4.83	C	A	30.0	3.43	-40°F	+180°F	Petroleum Transfer	103
	Sea Horse 400 HW (Fuel Transfer Suction/Discharge - Hardwall)	400	30.0	4.99	C	A	25.0	4.64	-40°F	+180°F	Petroleum Transfer	104
	Trident 400	400	10.0	4.84	A	A	32.0	3.49	-30°F	+158°F	Petroleum Transfer	107
18MB Air Drill	500	10.0	5.06	A	D <sub>3</sub>	47.6	5.77	-30°F	+212°F	Mining	78	
Scorpion	600	—	4.79	J	J	25.0	4.10	-40°F	+275°F	Mining	76	
Scorpion X-Treme	600	—	4.79	B <sub>1</sub>	J	25.6	3.96	-40°F	+300°F	Mining	77	
4 1/2	63SB (Air & Vapor Duct)	5	3.0	4.69	A	A	5.0	0.89	-30°F	+250°F	Air and Multi-Purpose	34
	163SB (Air & Vapor Duct - Heavy Duty)	10	7.0	4.75	A	A	12.0	1.25	-30°F	+250°F	Air and Multi-Purpose	35
	Engine Coolant (Oil Resistant - Softwall)	10	—	4.92	C	A	—	1.62	-40°F	+212°F	Marine	53
	75W (Standard Wall Coolant)	12	—	4.89	P	P	—	1.60	-40°F	+257°F	Marine	51
	4684CF (Wet Exhaust - Corrugated)	25	5.0	4.94	C	A	27.0	1.84	-40°F	+212°F	Marine	59
	Engine Coolant (Silicone)	25	—	4.88	MQ	MQ	—	1.56	-65°F	+347°F	Marine	55
	609W (Dry Cement Delivery)	35	—	4.97	D <sub>3</sub>	D	54.0	1.89	-40°F	+150°F	Material Handling	67
	688SB (Bulk Commodity)	40	30.0	5.27	D <sub>3</sub>	D	36.0	3.57	-40°F	+150°F	Material Handling	68
	Wet Exhaust (Hardwall)	100	10.0	5.04	P	P	22.0	30.89	-40°F	+257°F	Marine	58
	Wet Exhaust (Softwall)	100	—	4.86	P	P	—	21.14	-40°F	+257°F	Marine	57
Steelhead	150	—	5.01	D	D	54.0	2.16	-40°F	+150°F	Water	126	
5	63SB (Air & Vapor Duct)	5	3.0	5.19	A	A	6.0	0.99	-30°F	+250°F	Air and Multi-Purpose	34
	Master-Flex Vapor Recovery	5	—	5.51	U	G	5.0	1.13	-30°F	+140°F	Petroleum Transfer	109
	163SB (Air & Vapor Duct - Heavy Duty)	10	6.0	5.25	A	A	12.0	1.38	-30°F	+250°F	Air and Multi-Purpose	35
	4684CF (Wet Exhaust - Corrugated)	15	5.0	5.44	C	A	30.0	2.03	-40°F	+212°F	Marine	59
	Engine Coolant (Wire Inserted - Hardwall)	15	5.0	5.43	P	P	24.0	13.45	-40°F	+257°F	Marine	54
	609W (Dry Cement Delivery)	30	—	5.47	D <sub>3</sub>	D	60.0	2.09	-40°F	+150°F	Material Handling	67
	610W (Bulk Commodity)	30	—	5.56	D <sub>2</sub>	D <sub>3</sub>	60.0	2.73	-40°F	+150°F	Food and Beverage	46
	Master-Flex 101CL	30	28.0	5.73	G	—	11.0	2.34	-10°F	+130°F	Water	131
	Master-Flex 400	30	28.0	5.77	C	G	9.0	2.40	-30°F	+140°F	Material Handling	73
	688SB (Bulk Commodity)	40	30.0	5.77	D <sub>3</sub>	D	40.0	3.93	-40°F	+150°F	Material Handling	68
	Master-Flex 100GR	45	28.0	5.65	G	G	21.0	3.08	-10°F	+130°F	Water	130
	Master-Flex 101CL	45	28.0	5.65	G	—	21.0	3.00	-10°F	+130°F	Water	131
	770SB	50	20.0	5.53	D <sub>3</sub>	D	20.0	2.73	-40°F	+150°F	Material Handling	70
	690SB (Bulk Commodity)	55	30.0	5.75	D <sub>2</sub>	D <sub>3</sub>	30.0	4.30	-40°F	+150°F	Food and Beverage	44
	Hot Air Blower	55	30.0	5.74	P	P	30.0	3.82	-40°F	+350°F	Material Handling	69
	Shark	100	30.0	5.60	P	D	25.0	3.89	-40°F	+180°F	Water	124
	Wet Exhaust (Hardwall)	100	5.0	5.54	P	P	24.0	34.04	-40°F	+257°F	Marine	58
Wet Exhaust (Softwall)	100	—	5.37	P	P	—	23.35	-40°F	+257°F	Marine	57	





**Industrial Hose  
Products**

# Hose Finder

## Data Pages

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Hose I.D. (In.)	Name	Rated W.P. (psi)	Suction (In. Hg.)	Hose O.D. (In.)	Tube Type	Cover Type	Min. Bend Radius (In.)	Hose Wt. (Lbs./Ft.)	Temp (°F)		Hose Categories	Catalog Page No.
									Min.	Max.		
<b>5</b>	Blender Transfer	150	—	5.73	C	A	—	3.77	-40°F	+180°F	Petroleum Transfer	102
	Marlin	150	—	5.44	P	D	60.0	2.17	-40°F	+180°F	Water	127
	Sea Horse (Fuel Transfer)	300	10.0	5.84	C	A	35.0	4.14	-40°F	+180°F	Petroleum Transfer	105
<b>5 1/2</b>	63SB (Air & Vapor Duct)	5	3.0	5.69	A	A	6.0	1.08	-30°F	+250°F	Air and Multi-Purpose	34
	163SB (Air & Vapor Duct - Heavy Duty)	10	6.0	5.75	A	A	12.0	1.51	-30°F	+250°F	Air and Multi-Purpose	35
	Wet Exhaust (Hardwall)	100	5.0	6.04	P	P	—	39.29	-40°F	+257°F	Marine	58
<b>6</b>	Master-Flex Vapor Recovery	5	—	6.52	U	G	6.0	1.24	-30°F	+140°F	Petroleum Transfer	109
	163SB (Air & Vapor Duct - Heavy Duty)	8	6.0	6.25	A	A	15.0	1.64	-30°F	+250°F	Air and Multi-Purpose	35
	4684CF (Wet Exhaust - Corrugated)	15	5.0	6.46	C	A	36.0	2.42	-40°F	+212°F	Marine	59
	Engine Coolant (Wire Inserted - Hardwall)	15	5.0	6.43	P	P	—	16.00	-40°F	+257°F	Marine	54
	609W (Dry Cement Delivery)	25	—	6.47	D <sub>3</sub>	D	72.0	2.48	-40°F	+150°F	Material Handling	67
	610W (Bulk Commodity)	25	—	6.56	D <sub>2</sub>	D <sub>3</sub>	72.0	3.25	-40°F	+150°F	Food and Beverage	46
	Master-Flex 400	25	28.0	6.86	C	G	12.0	3.18	-30°F	+140°F	Material Handling	73
	Master-Flex 101CL	35	28.0	6.98	G	—	15.0	4.08	-10°F	+130°F	Water	131
	Master-Flex 300 EPDM	35	28.0	6.86	P	G	27.0	3.84	-30°F	+140°F	Material Handling	72
	688SB (Bulk Commodity)	40	30.0	6.76	D <sub>3</sub>	D	48.0	4.65	-40°F	+150°F	Material Handling	68
	Hot Air Blower	40	30.0	6.74	P	P	36.0	4.52	-40°F	+350°F	Material Handling	69
	Master-Flex 100GR	45	28.0	6.80	G	G	24.0	4.56	-10°F	+130°F	Water	130
	Master-Flex 101CL	45	28.0	6.80	G	—	24.0	4.42	-10°F	+130°F	Water	131
	Master-Flex 500	45	—	6.20	G	G	—	0.88	+25°F	+120°F	Water	129
	690SB (Bulk Commodity)	50	30.0	6.91	D <sub>2</sub>	D <sub>3</sub>	36.0	7.08	-40°F	+150°F	Food and Beverage	44
	692SB (Bulk Commodity)	50	25.0	6.74	C	P	36.0	5.61	-40°F	+180°F	Food and Beverage	45
	770SB	50	20.0	6.53	D <sub>3</sub>	D	24.0	3.24	-40°F	+150°F	Material Handling	70
	Super-Vac	60	30.0	6.67	C	D	18.0	4.37	-40°F	+150°F	Petroleum Transfer	101
	Barracuda	100	30.0	6.68	P	P	28.0	3.94	-32°F	+200°F	Water	125
	Shark	100	30.0	6.65	P	D	30.0	4.84	-40°F	+180°F	Water	124
	Wet Exhaust (Hardwall)	100	5.0	6.68	P	P	—	40.37	-40°F	+257°F	Marine	58
	Wet Exhaust (Softwall)	100	—	6.38	P	P	—	27.14	-40°F	+257°F	Marine	57
	Colt	125	30.0	6.78	P	P	24.0	4.95	-40°F	+250°F	Acid-Chemical	16
	Dolphin	125	—	6.38	P	P	—	2.09	-40°F	+180°F	Water	128
	Food Master Lite	150	30.0	6.74	C <sub>2</sub>	C <sub>2</sub>	36.0	5.60	-40°F	+230°F	Food and Beverage	41
	Longhorn	150	30.0	6.87	C	A	17.0	5.91	-40°F	+180°F	Petroleum Transfer	97
	Marlin	150	—	6.40	P	D	72.0	2.32	-40°F	+180°F	Water	127
Marlin	150	—	6.49	P	D	72.0	2.96	-40°F	+180°F	Water	127	
Sani-Pure	150	—	6.64	C <sub>2</sub>	C <sub>2</sub>	72.0	4.10	-40°F	+230°F	Food and Beverage	42	
Steelhead	150	—	6.51	D	D	72.0	2.84	-40°F	+150°F	Water	126	
Sea Horse HW (Fuel Transfer Suction/Discharge - Hardwall)	200	30.0	7.07	C	A	36.0	7.95	-40°F	+180°F	Petroleum Transfer	106	
<b>6 5/8</b>	609W (Dry Cement Delivery)	20	—	7.10	D <sub>3</sub>	D	72.0	2.73	-40°F	+150°F	Material Handling	67
<b>8</b>	Master-Flex 400	25	28.0	9.10	C	G	16.0	5.73	-30°F	+140°F	Material Handling	73
	Master-Flex 500	45	—	8.16	G	G	—	1.27	+25°F	+120°F	Water	129
	Barracuda	100	30.0	9.00	P	P	40.0	8.81	-32°F	+200°F	Water	125
<b>10</b>	Barracuda	100	30.0	11.27	P	P	50.0	15.80	-32°F	+200°F	Water	125
<b>12</b>	Barracuda	100	30.0	13.27	P	P	60.0	18.63	-32°F	+200°F	Water	125





## Chemical Resistance Table

The Chemical Resistance Table was compiled for use as a guide in selecting the most satisfactory hose tube and cover stocks for specific chemical applications. The data included are the best available to us at this time and will be revised as additional test information is obtained. It is always advisable to test rubber stocks under actual application conditions whenever possible.

We recognize that much of the material contained in this resistance table must be, to a degree, general in nature. Factors such as method of compounding, temperature, chemical concentrations, conditions of exposure, etc., can appreciably affect polymer behavior.

For certain applications, hoses designed for these applications must be used; therefore, the choice of tube stocks is restricted. These applications are:

<b>Steam</b>	—	Hose from the Steam Hose line
<b>Edible Products</b>	—	FDA, 3A, USDA
<b>Concentrated Chemicals</b>	—	Hose from the Acid-Chemical Hose line
<b>L.P Gas</b>	—	LP Gas Hose only
<b>Gasoline and Petroleum Products</b>	—	Hoses from the Petroleum Transfer Hose line
<b>Hydraulic</b>	—	Hoses from Hydraulic Products Catalog

The nature of certain chemicals is such that Gates cannot offer a suitable hose to handle them.

Many of the common chemicals are included in the Chemical Resistance Table. If they are not listed, please contact Hose/Connectors Product Application, Denver.

**NOTE:** Before using a Gates hose to convey a chemical not listed in this Chemical Resistance Table, contact Denver Product Application for a recommendation. Phone (303) 744-5070.

## Hose Selection Procedure:

- |   |   |
|---|---|
| <p>1. Identify the...<br/><b>Size of Hose</b> required.<br/><b>Temperature</b> of material being conveyed and environmental temperature.<br/><b>Application</b> conditions/requirements such as vibration, flexing, abrasion.<br/><b>Material</b> Being Conveyed<br/><b>Pressure</b> of operation and maximum obtainable in the system including "spikes" and pump/valve ratings.</p> | <p>with a <b>1</b> or <b>2</b> rating. For continuous contact applications make note of tube materials with a 1 rating only.</p>                              |
| <p>2. Locate the material being conveyed in the chemical resistance chart and identify potential tube materials: For intermittent contact or transfer service, make note of all tube materials</p>  | <p>3. Use the Industrial Hose Catalog, Industrial Hose Finder, or Hydraulic Hose Catalog to select hoses that have satisfactory working pressure ratings.</p> |
|   | <p>4. Verify maximum and minimum operating temperatures.</p>  |
|   | <p>5. Select the hose that has the best chemical resistance rating (<b>i.e.</b> <b>1</b> is Preferred, <b>2</b> is Acceptable).</p>                           |
|   | <p>6. Select the proper coupling for the hose chosen from the Industrial Hose Catalog.</p>  |

**NOTE:** For Gates Acid/Chemical Hose, permanent style Couplings must be used for service temperatures above 125°F (52°C).

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





## LISTING OF GATES HOSE STOCK TYPES

Stock Type	Composition
A	Polychloroprene (Neoprene)
A <sub>2</sub>	Similar to Type A except it is white and is used primarily for edible products
B <sub>1</sub> B <sub>2</sub>	Proprietary for special applications. Contact Denver Hose Product Application
C	Acrylonitrile Butadiene (NBR)
C <sub>2</sub>	A blend of Type C and plastic. Used primarily as hose cover material
C <sub>3</sub>	Modification to Nitrile tube
C <sub>4</sub>	Modification of Nitrile with excellent abrasion, tearing and gouging resistance (cover)
D	Natural Rubber (NR) and Styrene Butadiene (SBR)
D <sub>2</sub>	Similar to Type D, except it is white and compounded to handle food products
D <sub>3</sub>	Natural Rubber
G	PolyVinyl Chloride (PVC)
G <sub>1</sub>	Modified PVC
H	Isobutylene and Isoprene (Butyl)
J	Chlorinated Polyethylene (CPE)
K	Specially compounded Cross-Linked Polyethylene (Gatron™)
L	Ultra High Molecular Weight Polyethylene Ethylene (UHMWPE)
M	Chlorosulfonated Polyethylene (Hypalon®)
MQ	Silicone Rubber
P	Ethylene, Propylene Diene (EPDM)
P <sub>2</sub>	Special for Steam Hose applications
S	Specially Compounded Thermoplastic Vulcanizate (Sanitron™)
T	Fluorinated Polyethylene (Teflon® or Neoflon®)
U	Urethane
V	Fluorocarbon (FKM)
Z	Polyamide Resins (Nylon)

**NOTE:** Tube and cover compounds with the same name or Gates Type can differ between hoses. Compounds are designed for specific hose application requirements. Refer to the hose product sheet for recommended applications and restrictions. Example: Petroleum Transfer Hose Longhorn (Type C Nitrile) has a different Nitrile tube compound than Fuel Line 4219G (Type C Nitrile). Please read and observe all warnings on the back of the front cover of this catalog.



# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

## CHARACTERISTICS AND RESISTANCE INFORMATION FOR HOSE TUBE AND COVER COMPOUNDS

These ratings are for normal or usual range of the specified compounds.  
Many are also modified to meet the needs of specific applications.  
See notes below.

GATES TYPE	A	C	D	G	H	J	K	L	M	P	T	U	V	Z
Elastomer	Poly Chloroprene	Acrylonitrile Butadiene	Natural Rubber or Styrene Butadiene	Polyvinyl Chloride (plasticized)	Isobutylene and Isoprene	Chlorinated Polyethylene	Cross Linked Polyethylene	Ultra High Molecular Weight Polyethylene	Chloro-sulfonated Polyethylene	Ethylene Propylene Diene	Fluorinated Polyethylene	Polyurethane	Fluoro-Carbon Fluoro-elastomer	Polyamide Resins
Common Name or Trade Name	Neoprene	Buna-N Nitrile	Gum Rubber, Buna-S	PVC	Butyl	CPE	Gaicon™	UHMWPE	Hypalon®	EPDM	Neoflon® or Teflon®	Urethane	FKM Viton® Fluorel®	Nylon PA
ASTM	CR	NBR	NR or SBR	—	IIR	GM	XLPE	UHPE	CSM	EPDM	FEP	EU	FKM	PA
Physical Strength	Good	Good	Excellent	Fair to Good	Fair to Good	Good	Good	Very Good	Good to Excellent	Good	Very Good	Excellent	Good	Good
RESISTANCE TO:														
Abrasion	Good to Excellent	Fair to Good	Excellent	Good to Excellent	Fair to Good	Good	Good	Excellent	Good to Excellent	Good	Excellent	Excellent	Good to Excellent	Good to Excellent
Weather/Ozone	Good to Excellent	Poor	Poor to Fair	Excellent	Excellent	Good	Excellent	Good	Excellent	Excellent	Excellent	Fair to Good	Excellent	Excellent
Gas Permeation	Good	Good to Excellent	Good	Good	Excellent	Good	Good	Excellent	Good to Excellent	Fair to Good	Excellent	Fair to Good	Good	Excellent
Petroleum Oils	Excellent	Excellent	Poor	Good to Excellent	Poor	Good	Excellent	Excellent	Good to Excellent	Poor	Excellent	Good	Excellent	Excellent
Gasolines	Fair to Good	Excellent	Poor	Fair	Poor	Good	Excellent	Excellent	Fair	Poor	Excellent	Fair	Excellent	Excellent
High Temperatures	Good	Good to Excellent	Fair	Poor	Excellent	Excellent	Good	Fair	Good to Excellent	Excellent	Excellent	Fair	Excellent	Good
Low Temperatures	Fair to Good	Fair to Good	Good	Poor	Good	Good	Fair to Good	Fair	Fair	Fair to Good	Good	Excellent	Good	Excellent

A<sub>2</sub> White food grade Neoprene, complies with FDA (tube)  
 B<sub>1</sub> Proprietary for special applications. Contact Denver Hose Product Application  
 B<sub>2</sub> Modification of Nitrile with increased ozone resistance (tube and cover)  
 C<sub>2</sub> Modification to Nitrile tube  
 C<sub>3</sub> Modification of Nitrile with excellent abrasion, tearing and gouging resistance (cover)  
 C<sub>4</sub> White food grade Natural Rubber, complies with FDA (tube)  
 D<sub>2</sub> Natural Rubber  
 D<sub>3</sub> Modified PVC  
 G<sub>1</sub> Silicone Rubber  
 G<sub>2</sub> Special for Steam Hose applications  
 MQ  
 P<sub>2</sub>

**NOTE:** Tube and cover compounds with the same name or Gates Type can differ between hoses. Compounds are designed for specific hose application requirements. Refer to the hose product sheet for recommended applications and restrictions.  
 Example: Petroleum Transfer Hose Longhorn (Type C Nitrile) has a different Nitrile tube compound than Fuel Line 4219G (Type C Nitrile). Please read and observe all warnings on the back of the front cover of this catalog.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



## Gates Chemical Rating System

**NOTE:** Ratings are for the effect on the **polymer only**.

**"1" Preferred: Constant Contact** — This chemical is expected to have minor or no effect on the Polymer. Hose approved for continuous contact. Environmental changes such as temperature, concentration, etc., may promote increased degradation.

**"2" Acceptable: Intermittent Contact** — This polymer should give reasonably satisfactory service. Due to the nature of this chemical, and under prolonged continuous exposure, the rubber may show minor to moderate deterioration and/or solution discoloration. Hose in-tended for transfer service only. Environmental changes such as temperature, concentration, etc., may promote increased degradation.

**"X" Not Recommended** — The polymer is unsatisfactory for this chemical and should not be used.

**"-" (Dash)** — Insufficient or no data available for this material. Testing is advised.

**NOTE 1.** The above ratings as applied to the Chemical Resistance Table are intended as guides only. They are compiled from the best data available to us. Ratings shown in the table are based on 100% concentrated or saturated solutions, unless otherwise noted, and up to 100 F (+38°C), unless otherwise stated.

**NOTE 2.** If unusual conditions exist, a polymer test in the fluid is suggested.

**NOTE 3.** Where a chemical listed in the Resistance Table is soluble in a solvent other than water, the solvent should also be checked for its suitability with the polymer.

**NOTE 4.** Discoloration of fluids conveyed in the hose. There are no generally accepted standard tests for measuring or rating discoloration of fluids passing through a hose. The amount of discoloration that can be tolerated is usually established by the user on the basis of application. Obviously, products such

as paint must be conveyed through a hose that has very good non-discoloring characteristics. If the product is not visually affected, then the hose is satisfactory. For some products, the discoloration may be objectionable from a visual standpoint. Also, the concentration of the particles causing the discoloration may be objectionable if they affect the final use of the product.

Some of the more common methods of checking discoloration are:

1. Allowing the fluid to remain in a sample piece of hose for a specific period and expected operating temperature, then inspecting visually for discoloration.
2. Testing fluid as in No. 1 above and then passing it through filter paper to check foreign content.
3. A more refined test can be made with a spectrophotometer. This instrument measures light transmission through the fluid before and after immersion tests with rubber stocks. This gives a relative rating expressed in percent, the original fluid being rated at 100%.

If discoloration of the product becomes a serious problem for a specific application, contact Denver Product Application for a recommendation. Phone (303) 744-5070.

**NOTE 5.** Fluid permeation through the tube wall needs to be considered. A tube material may show no sign of degradation, however hose failure can occur if material permeates through the tube to degrade adhesive layers or reinforcement.

**Hose Coupling Material** — Gates recommends hose couplings made of six materials: Iron or Carbon Steel, 304SS, 316SS, Aluminum, Brass and Polypropylene. The Chemical Resistance Table includes columns showing the suitability of a specific coupling material for the chemicals listed. In most instances, at least one coupling material is rated for each chemical. For certain chemicals, other metallic alloys or plastics than those shown in the table are required. These are generally available from other coupling manufacturers, but are not stocked by Gates.







# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Chemical	Form (at room temperature unless otherwise stated)	Gates Hose / Polymers														Couplings / Adapters						
		Stallion <sup>®</sup> Mustang <sup>®</sup>		Renegade <sup>™</sup>	Food & Bev. Mstr.										Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene		
		T	K	L	S	P	C	D	D	A	H	V	M	J							Z	G
<p>Contact Denver Product Application for recommendations for chemicals not listed. Phone (303) 744-5070</p> <p>1 = Preferred - Constant Contact 2 = Acceptable - Intermittent Contact X = Not Recommended - = No Data</p> <p><b>NOTE: Ratings are for the effect on the polymer only!</b></p>																						
Amyl Acetate (Banana or Pearl Oil)	Colorless Liquid	1	1	1	-	2	X	X	X	X	2	X	X	X	1	X	X	1	1	X	1	X
Amyl Alcohol	Colorless Liquid	1	2	2	2	2	2	2	2	2	2	1	2	1	1	2	1	1	1	1	1	-
Amyl Chloride (Chloropentane)	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
Amyl Chlorides (mixed)	Straw to Purple Liquid	1	2	2	X	X	X	X	X	X	X	1	X	2	1	X	-	1	1	-	-	X
Amyl Chloronaphthalene	-	1	1	2	X	X	X	X	X	X	X	1	X	X	1	-	-	1	1	-	-	-
Amyl Naphthalene	-	1	1	-	-	X	X	X	X	X	X	1	X	X	-	-	-	1	1	-	-	-
Amyl Phenol	Clear Straw Colored Liquid	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
Amylamine	Colorless Liquid	1	X	-	-	X	2	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-
Amylbenzene (sec amylbenzene)	Clear Liquid	1	2	2	X	X	2	X	X	2	X	1	-	-	-	-	-	-	-	-	-	-
Anethole (anise camphor)	White Crystals/Liquid > 73°F(23°C)	1	2	-	-	-	X	X	X	X	X	1	X	X	X	-	2	1	1	2	X	1
Anhydrous Ammonia (R 717)	Gas or Liquid	NO HOSE AVAILABLE														-	-	-	-	-	-	
Aniline	Colorless Oily Liquid	1	2	X	1	2	X	X	X	X	2	1	X	2	X	-	2	1	1	2	X	1
Aniline Dyes	-	1	1	-	1	2	X	X	X	X	2	2	X	2	-	-	X	1	1	-	-	2
Aniline Hydrochloride	White Crystals	1	1	-	-	2	2	2	2	X	2	-	-	-	-	-	-	X	X	-	X	2
Aniline Oil (Aniline)	Colorless Oily Liquid	1	2	X	1	2	X	X	X	X	2	1	X	2	X	-	2	1	1	2	X	1
Animal Fat (Lard)	White Solid/Liquid > 108°F(42°C)	1	1	1	X	X	1	X	X	2	X	1	X	1	1	-	1	1	1	1	X	-
Animal Gelatin	-	1	-	1	-	-	1	-	-	1	-	-	-	-	-	1	-	1	1	-	-	-
Animal Grease, Inedible, Liquid	Liquid	1	-	-	-	X	1	-	X	2	X	1	2	-	-	-	-	-	-	-	-	-
Animal Oils	Solid to Liquid	1	-	-	2	-	1	-	-	2	-	-	-	1	1	1	1	1	1	1	-	-
Ant Oil (Furfural)	Colorless to Reddish Brown Liquid	1	1	-	2	X	X	X	X	2	X	2	2	1	-	X	2	1	1	1	1	2
Antifreeze (Glycol Base)	Liquid	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Antimony Chloride (50%)	White Powder	1	1	1	-	-	-	-	-	-	2	1	-	-	1	1	X	X	X	-	-	1
Antimony Pentachloride	Reddish-yellow Liquid	1	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Antimony Salts	White Crystal	1	1	-	-	1	2	-	-	-	1	1	-	-	-	1	-	-	-	-	-	-
Aqua Ammonia (Ammonium Hydroxide) (30%)	Colorless Liquid	1	1	1	1	1	2	2	2	2	2	2	1	1	X	X	2	1	1	-	X	1
Aqua Regia (Nitrohydrochloric Acid)	Fuming Yellow Liquid	1	2	X	X	X	X	X	X	X	X	1	X	2	X	X	-	X	X	-	X	X
Argon, Compressed	Colorless Gas	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Aromatic Hydrocarbons	Typically Colorless Liquids	1	2	2	X	X	2	X	X	X	X	1	X	X	1	X	1	1	1	2	2	-
Arsenic Acid	In Water	1	1	1	2	2	-	X	X	-	2	1	-	1	-	-	2	-	1	2	-	2
Arsenic Trioxide	In Acid	1	1	1	2	X	2	X	X	2	X	1	X	-	-	1	-	-	-	-	-	-
Askarel (Transformer Oil)	Varies	1	2	2	X	X	X	X	X	X	X	1	X	1	1	X	1	1	1	-	1	2
Asphalt	Varies	1	2	X	X	X	2	X	X	-	X	1	-	-	X	X	1	1	1	-	1	-
Asphalt (Blown)	Black Solid	-	-	X	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Asphalt (Cut Back)	Black Liquid	1	X	X	X	X	2	X	X	2	X	1	X	X	2	X	1	1	1	-	1	-
Asphalt Emulsion	Black Liquid	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asphalt Paint	Black Liquid	1	2	X	X	X	2	X	X	-	X	1	X	-	2	X	-	-	-	-	-	-
Asphaltene	In Carbon Disulfide	1	2	X	X	X	2	X	X	2	X	1	X	X	1	-	-	-	-	-	-	-
ASTM Oil No. 1	Brown Liquid	1	1	1	2	X	1	X	X	1	X	1	2	1	1	2	1	1	1	1	1	2
ASTM Oil No. 2	Brown Liquid	1	1	1	X	X	1	X	X	2	X	1	2	1	1	X	1	1	1	1	1	X
ASTM Oil No. 3	Brown Liquid	1	1	1	X	X	1	X	X	X	X	1	X	1	1	X	1	1	1	1	1	X
ASTM Reference Fuel A	Liquid	1	1	1	2	X	1	X	X	1	X	1	1	1	1	2	1	1	1	1	1	X
ASTM Reference Fuel B	Liquid	1	2	1	X	X	1	X	X	2	X	1	X	2	1	X	1	1	1	1	1	X
ASTM Reference Fuel C	Liquid	1	2	2	X	X	2	X	X	X	X	1	X	2	1	X	1	1	1	-	1	X
ATF (Automatic Transmission Oil)	Liquid	1	1	1	X	X	1	-	-	-	X	1	-	1	-	-	-	-	-	-	-	-
<b>B</b>																						
Baltic Types 100, 150, 200, 300, 500	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	-	2	-	-	-	-	-	2
Banvel (Ag Spray, Concentrated)	Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-
Bardol B	Dark colored Liquid	1	1	-	-	X	X	X	X	X	X	2	X	-	-	-	1	1	1	-	-	-
Barite (Natural Barium Sulfate)	White to Yellowish Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	-	2	1

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.







# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Chemical	Form (at room temperature unless otherwise stated)	Gates Hose / Polymers														Couplings / Adapters										
		Stallion® Mustang® Renegade™			Food & Bev. Mstr.																					
		T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G										
		Teflon®/Neoflon® Gairon™ UHMWPE			Sanitron™ EPDM NBR			SBR NR Neoprene			Butyl Fluorocarbon Hypalon®			CPE Nylon PVC			Iron/Carbon Steel		Stainless Steel 304		Stainless Steel 316		Aluminum Brass		Polypropylene	
Butandiol (Butylene Glycol)	Colorless Oily Liquid	1	1	2	-	-	-	-	-	-	-	1	-	-	X	-	-	-	-	-						
Butane (Gas)	Colorless Gas	USE LPG HOSE ONLY														-	-	-	-	-	-	-	-			
Butane (Liquid)	Liquid	USE LPG HOSE ONLY														-	-	-	-	-	-	-	-			
Butanol (Butyl Alcohol)	Colorless Liquid	1	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1				
Butter	Yellow to white semi-Solid to Liquid	-	-	-	2	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-						
Butter Oil (Use FDA Hose)	Yellow to white Liquid	1	-	-	2	-	-	X	X	2	-	-	-	-	-	-	1	1	1	1	1	-				
Butyric Acid	Colorless Liquid	1	1	1	1	2	-	2	2	X	2	1	X	1	X	-	-	-	-	-						
Butyl Carbitol (Diethylene Glycol Butyl Ether)	Colorless Liquid	1	1	-	2	2	2	X	X	2	2	1	-	1	-	-	1	1	1	1	1	-				
Butyl Cellosolve (EG Monobutyl Ether)	Colorless Liquid	1	1	-	1	1	-	-	-	-	-	-	-	1	-	1	-	-	-	-						
Butyl "Oxitol"™ for EG Monobutyl Ether	Colorless Liquid	1	1	-	1	1	-	-	-	-	-	-	-	1	-	1	-	-	-	-						
Butyl Acetate	Colorless Liquid	1	2	2	1	X	X	X	X	X	2	X	X	2	1	1	2	1	1	1	1	X				
Butyl Acrylate	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-						
Butyl Alcohol (Butanol)	Colorless Liquid	1	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1				
Butyl Aldehyde	Water White Liquid	1	-	-	2	X	-	-	X	-	-	X	X	-	-	-	-	-	-	-						
Butyl Benzyl Phthalate (BBP)	Clear Oily Liquid	1	-	-	-	X	-	X	-	-	1	X	X	-	-	-	-	-	-	-						
Butyl Chloride	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-						
Butyl Ether	Colorless Liquid	1	1	-	-	-	2	X	X	2	2	X	-	1	-	-	1	1	1	1	1	-				
Butyl Ethyl Ether (Ethyl-n-Butyl Ether)	Liquid	1	-	-	-	-	2	-	X	-	X	-	2	-	-	-	-	-	-	-						
Butyl Formate	Colorless Liquid	1	-	-	-	-	X	X	X	-	-	-	-	-	-	-	-	-	-	-						
Butyl Mercaptan (2-Methyl-2-Butanathiol)	Liquid	1	1	-	X	X	-	X	X	-	X	1	-	-	-	X	-	1	1	-	-	-				
Butyl Methacrylate	Colorless Liquid	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Butyl Stearate	Colorless Liquid	1	1	-	-	X	2	X	X	X	X	1	-	2	-	1	1	1	1	1	1	-				
Butylamine	Colorless Liquid	1	1	-	-	-	X	X	X	X	X	X	X	2	-	-	1	1	1	1	1	X				
Butylene Glycol (Butandiol)	Colorless Oily Liquid	1	1	2	-	-	-	-	-	-	-	1	-	-	X	-	-	-	-	-						
Butyraldehyde (Butanal)	Water White Liquid	1	2	-	-	X	X	X	X	X	X	X	X	2	-	-	-	-	-	1	-					
Butyric Acid	Colorless Liquid	1	1	1	1	1	-	-	-	-	1	1	X	1	1	1	X	1	1	1	2	-				
Butyric Anhydride	Water White Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
<b>C</b>																										
Cadmium Acetate (Soluble in H <sub>2</sub> O & Alcohols)	In Water or Alcohol	1	-	-	-	-	X	-	X	-	1	X	-	-	-	-	-	-	-	-						
Cake Alum (Aluminum Sulfate)	White Crystals	1	1	-	1	1	1	-	1	1	-	-	-	-	-	-	X	X	2	X	X	1				
Cake Alum Solution (Al Sulphate up to 50%)	In Water	1	1	1	1	1	1	-	-	-	1	1	1	1	1	1	-	-	-	-						
Calcine Liquor (Radioactive Waste)	In Water Solution	1	1	-	-	1	1	-	-	-	1	1	-	-	-	-	1	1	1	2	-	-				
Calcium Acetate	Powder	1	1	-	-	1	X	2	2	X	1	X	X	1	-	-	1	1	1	1	1	-				
Calcium Aluminate (Soluble in Acids)	In Acid	1	-	-	-	-	1	-	1	1	1	1	1	-	-	-	-	-	-	-						
Calcium Aluminate (Tricalcium Aluminate)	Crystals or Powder	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-						
Calcium Arsenate	In Dilute Acid	1	1	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-						
Calcium Bisulfide (Calcium Hydrosulfide)	In Alcohol or Water	1	1	-	-	-	1	2	2	1	1	1	1	1	-	2	-	2	1	-	X	1				
Calcium Bisulfite (Calcium Hydrogen Sulfite)	Yellow Liquid	1	1	-	-	-	1	2	2	1	1	1	1	1	-	1	-	1	1	-	1	1				
Calcium Bromide Solution	In Water or Alcohol	1	1	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-						
Calcium Carbonate	Solid White Powder	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
Calcium Carbonate Slurry	Solid in H <sub>2</sub> O	1	-	-	-	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-						
Calcium Chlorate	In Water or Alcohol	1	1	-	-	2	1	2	2	1	2	-	1	-	-	1	-	2	1	-	-	1				
Calcium Chloride, Dry	White solid	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	X	2	1	-	2	1				
Calcium Chloride, Liquid (Not For Food)	In Water or Alcohol	1	1	-	1	1	1	1	1	1	1	1	1	1	X	1	-	-	-	-						
Calcium Chloride, Liquid, Food Grade 33%	In Water	1	-	-	-	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-						
Calcium Hydrogen Sulfite (Calcium Bisulfite)	Yellow Liquid	1	1	-	-	-	1	2	2	1	1	1	1	1	-	1	-	1	1	-	-	1				
Calcium Hydrosulfide (Calcium Bisulfide)	In Alcohol or Water	1	1	-	-	-	1	2	2	1	1	1	1	1	-	2	-	2	1	-	X	1				
Calcium Hydroxide (Hydrated or Slaked Lime)	Solid White Powder	1	1	-	1	-	2	1	1	1	1	X	1	1	-	X	X	X	1	-	2	1				
Calcium Hydroxide Solutions	In Glycerol or Acids	1	1	X	-	-	2	-	-	-	-	-	-	-	X	-	2	1	1	X	X	-				
Calcium Hypochlorite	Solid White Crystals	1	2	X	-	-	-	X	X	X	2	-	2	1	X	2	-	-	-	-						

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.









# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Chemical	Form (at room temperature unless otherwise stated)	Gates Hose / Polymers														Couplings / Adapters						
		Stallion® Mustang® Renegade™			Food & Bev. Mstr.												Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
		T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G						
		Teflon® Neoflon® Gatron™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Neoprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC							
Dichloroethane (Ethylene Dichloride)	Colorless Oily Liquid	1	2	2	X	X	X	X	X	X	X	2	X	X	X	X	-	-	-	-	-	-
Dichloroethyl Ether	Colorless Liquid	1	-	-	-	X	X	-	X	X	-	X	X	-	-	-	-	-	-	-	-	-
Dichloroethylene	Colorless Liquid	1	2	X	-	X	X	X	X	X	X	1	X	-	-	-	-	-	-	-	-	X
Dichloroethylene (Acetylene Dichloride)	Colorless Liquid	1	X	X	X	X	-	X	X	-	X	1	-	X	1	X	-	-	-	-	-	X
Dichloromethane (Methylene Chloride)	Colorless Liquid	1	1	2	X	X	X	X	X	X	X	2	X	X	X	X	1	1	1	-	1	-
Dichloropentane	Light Yellow Liquid	1	-	-	-	X	X	X	X	X	X	1	X	-	-	-	-	-	-	-	-	-
Dichloropropane (Propylene Dichloride)	Colorless Liquid	1	-	-	-	X	X	X	X	X	X	2	X	-	-	-	-	-	-	-	-	-
Dicyclohexylamine	Colorless Liquid	1	-	-	-	X	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-
DIDA (Diisodecyl Adipate)	Light Colored Oily Liquid	1	-	-	-	X	-	X	-	X	-	1	X	X	-	-	-	-	-	-	-	-
Diesel Fuel	Liquid	1	1	1	X	X	1	X	X	2	X	-	X	-	1	-	1	1	1	1	1	2
Diethanolamine (20%)	In Water or Alcohol	1	-	-	1	2	2	2	2	X	1	-	2	1	-	2	1	1	1	1	X	-
Diethanolamine	Liquid above 83°F (29°C)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	X	-
Diethyl Ether (Ethyl Ether)	Colorless Liquid	1	2	-	1	X	X	X	X	X	2	X	X	1	-	2	2	1	1	1	1	1
Diethyl Ketone	Colorless Liquid	1	-	-	-	2	X	-	X	X	2	X	X	-	-	X	-	-	-	-	-	-
Diethyl Oxalate	Colorless Oily Liquid	1	-	-	-	X	X	-	X	X	X	-	X	-	-	X	-	-	-	-	-	-
Diethyl Phthalate (Ethyl Phthalate)	Water White Liquid	1	1	-	-	-	X	X	X	-	2	-	-	2	-	-	-	1	1	-	1	-
Diethyl Sebacate	-	1	1	-	-	-	X	X	X	X	2	2	X	2	-	-	-	1	1	-	1	-
Diethyl Sulfate	Colorless Liquid	1	-	-	-	1	X	1	X	1	2	X	X	-	-	-	-	-	-	-	-	-
Diethyl Sulfide (Ethyl Sulfide)	Colorless Oily Liquid	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Diethylacetaldehyde (Ethylbutylaldehyde)	Colorless Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethylamine	Colorless Liquid	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	1
Diethylbenzene	Colorless Liquid	1	1	-	-	X	-	X	X	-	X	1	-	2	-	-	-	-	-	-	-	-
Diethylene Dioxide (1,4 Dioxane)	Colorless Liquid	1	1	-	1	2	X	X	X	X	2	X	X	2	1	X	1	1	1	1	1	1
Diethylene Ether (Dioxane)	Colorless Liquid	1	1	-	1	2	X	X	X	X	2	X	X	2	1	X	1	1	1	1	1	1
Diethylene Glycol (Dihydroxydiethyl Ether)	Colorless Syrupy Liquid	1	1	-	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1
Diethylene Glycol Methyl Ether (Methyl Cellosolve)	Colorless Liquid	1	1	-	1	1	-	X	X	-	X	1	X	1	-	-	-	-	-	-	-	-
Diethylene Glycol Monobutyl Ether	Colorless Liquid	1	1	-	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Diethylene Glycol Monobutyl Ether Acetate	Colorless Liquid	1	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethylene Glycol Monoethyl Ether	Colorless Liquid	1	1	-	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Diethylene Glycol Monomethyl Ether	Colorless Liquid	1	1	-	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Diethylene Glycol Monomethyl Ether Acetate	Colorless Liquid	1	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethylenetriamine	Yellow Liquid	1	1	1	-	1	-	X	-	X	1	X	X	-	-	-	-	-	-	-	-	-
Dihydroxyacetone	In Water	1	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dihydroxydiethyl ether (Diethylene glycol)	Colorless Syrupy Liquid	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1
Diisobutyl Ketone	Colorless Liquid	1	1	-	1	1	X	X	X	X	2	X	X	2	1	-	-	1	1	-	1	1
Diisobutyl Phenol (Octyl Phenol)	White Flakes	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Diisobutyl Phthalate	Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diisobutylene	Colorless Liquids	1	1	-	X	X	2	X	X	X	X	1	X	1	-	-	-	1	1	-	1	-
Diisodecyl Adipate (DIDA)	Light Colored Oily Liquid	1	-	-	-	-	X	-	X	-	1	X	X	-	-	-	-	-	-	-	-	-
Diisooctyl Phthalate (DIOP)	Nearly Colorless Liquid	1	-	-	-	1	X	-	X	-	1	X	X	-	-	-	-	-	-	-	-	-
Diisopropanolamine	Liquid above 108°F (42°C)	1	-	-	-	-	2	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-
Diisopropyl Ketone	Colorless Liquid	1	1	-	1	1	X	X	X	X	2	X	X	-	1	-	-	1	1	-	1	-
Diisopropylamine	Colorless Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diisopropylbenzene (meta)	Colorless Liquid	1	2	2	X	X	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Diisopropylidene Acetone (Phorone)	Yellow Liquid	1	1	-	-	2	X	X	X	X	2	X	X	-	-	-	1	1	1	-	1	-
Dilauryl Ether	Liquid above 92°F (33°C)	1	1	-	1	1	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-
Dimethyl Acetamide (DMAC)	Colorless Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl Aniline	Yellow/brown Oily Liquid	1	1	-	-	X	X	X	X	X	2	1	X	2	-	-	-	-	-	-	-	1
Dimethyl Ether	Liquid under Pressure	1	1	1	1	1	X	X	X	X	2	X	X	-	-	-	1	1	1	1	1	-
Dimethyl Formamide	Water White Liquid	1	1	-	1	2	-	-	-	-	-	X	-	-	-	-	1	1	1	-	-	1

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.





# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Chemical	Form (at room temperature unless otherwise stated)	Gates Hose / Polymers																Couplings / Adapters				
		Stallion <sup>®</sup> Mustang <sup>®</sup> Renegade <sup>™</sup>			Food & Bev. Mstr.												Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
		T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G						
		Tefton <sup>®</sup> / Neoflon <sup>®</sup>	Gairon <sup>™</sup>	UHMWPE	Sanitron <sup>™</sup>	EPDM	NBR	SBR	NR	Neoprene	Butyl	Fluorocarbon	Hypalon <sup>®</sup>	CPE	Nylon	PVC						
EDTA (Ethylenediaminetetraacetic Acid)	Colorless Crystals	1	1	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Emulsion (Oil in Water)	Water is Continuous Phase	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	1
Enamels	Liquid	1	1	-	X	X	-	-	-	-	-	1	-	-	1	2	-	-	-	-	1	-
Epichlorohydrin (Chloropropylene Oxide)	Volatile Liquid	1	2	-	X	X	-	-	-	-	-	X	-	-	-	-	1	-	-	-	-	1
Epoxy Resin	Solid Pellet	-	-	-	-	1	-	-	-	1	2	X	-	-	-	-	-	-	-	-	-	-
Essential Oils	Liquid	1	2	-	X	X	1	X	X	2	-	1	-	-	-	2	1	1	1	1	1	-
Ethanol (Ethyl Alcohol)	Colorless Liquid	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	1
Ethanolamine (Aminoethanol)	Colorless Viscous Liquid	1	2	1	1	2	2	2	2	2	2	X	X	1	1	2	1	1	1	-	1	-
Ethers	Liquids	1	1	X	1	1	2	X	X	X	2	X	2	1	-	2	1	1	1	1	1	2
Ethyl Acetate (Acetic Ether)	Colorless Liquid	1	1	X	2	2	X	X	X	X	2	X	X	2	1	X	1	1	1	1	1	2
Ethyl Acetoacetate	Colorless Liquid	1	1	-	-	2	X	X	X	X	2	X	X	1	-	-	1	1	1	1	1	X
Ethyl Acrylate	Colorless Liquid	1	2	-	2	2	X	X	X	X	X	X	X	2	-	X	1	1	1	-	-	X
Ethyl Acrylate, Inhibited	Colorless Liquid	1	2	-	2	2	X	X	X	X	X	X	X	2	-	X	1	1	1	-	-	X
Ethyl Alcohol (Ethanol)	Colorless Liquid	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	1
Ethyl Aluminum Dichloride (Above 90°F/32°C)	Clear Yellow Liquid	1	-	-	-	X	-	X	-	X	X	2	X	-	-	-	-	-	-	-	-	-
Ethyl Bromide	Colorless Liquid	1	2	-	-	X	X	X	X	X	X	1	X	2	1	X	-	1	1	-	1	-
Ethyl Butyl Ether (Butyl Ethyl Ether)	Liquid	1	-	-	-	2	-	X	-	-	X	-	2	-	-	-	-	-	-	-	-	-
Ethyl Butyrate	Colorless Liquid	1	1	-	-	X	X	X	X	X	2	-	-	-	-	-	-	1	1	1	-	-
Ethyl Chloride	Compressed Liquid	1	2	2	-	X	X	X	X	X	X	1	X	-	-	X	2	1	1	1	2	X
Ethyl Chloroformate (Ethyl Chlorocarbonate)	Water White Liquid	1	-	-	-	X	X	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Ethyl Ether (Diethyl Ether)	Colorless Liquid	1	2	X	1	X	X	X	X	X	2	X	X	1	2	X	2	1	1	1	1	1
Ethyl Ether Acetate (Cellosolve Acetate)	Colorless Liquid	1	1	-	-	2	X	-	-	-	-	X	-	1	-	1	1	1	1	-	-	1
Ethyl Formate	Water White Liquid	1	-	-	-	2	X	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Ethyl Iodide	Colorless Liquid	1	-	-	-	X	X	-	X	X	X	2	X	-	-	-	-	-	-	-	-	-
Ethyl Isobutyrate	Colorless Liquid	1	-	-	-	X	X	-	X	X	X	-	-	-	-	-	-	-	-	-	-	-
Ethyl Mercaptan (Ethanethiol)	Colorless Pungent Liquid	1	1	-	-	X	X	X	X	X	X	1	X	-	-	X	2	-	-	-	-	-
Ethyl Methyl Ketone (MEK)	Colorless Liquid	1	1	1	1	2	X	-	-	X	-	X	X	2	1	X	-	-	-	-	-	-
Ethyl Oleate	Light Yellowish Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl Oxalate	Colorless Liquid	1	1	-	-	2	X	2	2	X	2	1	-	1	-	-	-	-	-	-	-	-
Ethyl Pentachlorobenzene	-	1	1	-	-	X	X	X	X	X	X	1	X	-	-	-	2	1	1	-	1	-
Ethyl Phthalate (Diethyl phthalate)	Water White Liquid	1	1	-	-	-	X	X	X	-	2	-	-	2	-	-	-	1	1	-	1	-
Ethyl Propionate	Water White Liquid	1	-	-	-	X	X	-	X	X	X	-	-	-	-	-	-	-	-	-	-	-
Ethyl Propyl Ketone (3-Hexanone)	Colorless Liquid	1	-	-	-	X	-	X	-	X	2	X	X	-	-	-	-	-	-	-	-	-
Ethyl Silicate	Colorless Liquid	1	1	-	-	2	1	2	2	1	-	1	-	1	-	-	1	1	1	1	1	-
Ethyl Sulfide (Diethyl Sulfide)	Colorless Oily Liquid	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Ethylamine	Colorless Liquid or Gas	1	2	-	1	1	X	X	X	X	2	X	X	1	-	-	-	1	1	-	1	-
Ethylbenzene	Colorless Liquid	1	2	-	-	X	X	X	X	X	X	1	X	2	-	-	1	1	1	-	1	-
Ethylbutanol (2-Ethylbutyl Alcohol)	Colorless Liquid	1	1	1	1	1	1	-	-	1	1	1	2	1	1	1	-	-	-	-	-	-
Ethylbutyl Alcohol (Ethylbutanol)	Colorless Liquid	1	1	1	1	1	1	-	-	1	1	1	2	1	1	1	-	-	-	-	-	-
Ethylbutyl Amine	Water White Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbutyl Ketone	Clear Liquid	1	1	-	-	1	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-
Ethylbutyraldehyde (Diethylacetaldehyde)	Colorless Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylcellulose	Granular Solid	1	1	-	-	-	-	-	1	-	-	-	-	1	-	-	1	1	1	-	1	-
Ethylene Chlorohydrin	Colorless Liquid	1	1	-	2	X	X	-	-	X	2	1	-	-	X	X	-	-	-	-	-	-
Ethylene Cyanohydrin	Straw Colored Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (EDB)	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
Ethylene Dichloride (Chloroethane)	Colorless Liquid	1	2	2	X	X	X	X	X	X	X	2	X	X	X	X	-	-	-	-	-	-
Ethylene Glycol	Colorless Liquid	1	1	1	1	1	1	-	-	1	1	1	2	1	-	1	2	1	1	1	1	1
Ethylene Glycol Formal (Dioxolane)	Water White Liquid	1	-	-	-	-	-	-	-	-	-	X	-	-	-	-	1	1	1	1	1	-
Ethylene Glycol Monoethylether	Colorless Liquid	1	1	-	1	1	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Glycol Monoethylether Acetate	Colorless Liquid	1	1	-	1	1	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.







# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Chemical	Form (at room temperature unless otherwise stated)	Gates Hose / Polymers														Couplings / Adapters					
		Stallion® Mustang® Renegade™ Food & Bev. Mstr.																			
T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene	
Freon 134a (HFC 134a)	Gas or Liquid	SPECIAL HOSE REQUIRED																			
Freon 22 (Chlorodifluoromethane)	Gas or Liquid	SPECIAL HOSE REQUIRED																			
Freon 23	Clear Liquid	SPECIAL HOSE REQUIRED																			
Fruit Juices	Liquid	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
Fuel Oil (ASTM 1-6)	Water White to Brown Liquids	1	2	1	X	X	1	X	X	2	X	1	X	1	1	X	2	2	2	1	1
Fumaric Acid	Colorless Crystals	1	1	1	1	2	-	2	2	-	-	1	-	-	-	X	-	1	1	-	
Fumaric Acid Solution (Allomalaic Acid)	Liquid	1	1	-	-	2	1	2	2	-	-	1	-	-	X	-	1	1	-	-	
Furan (Furfuran)	Colorless to Brown Liquid	1	1	1	-	X	X	X	X	X	X	-	-	1	-	X	1	1	1	1	1
Furfural (Ant Oil)	Colorless to Reddish Brown Liquid	1	1	-	2	X	X	X	X	2	X	2	2	1	-	X	2	1	1	1	2
Furfural Alcohol	Colorless to Brown Liquid	1	1	2	-	X	X	X	X	2	X	1	2	1	1	X	2	1	1	1	2
Furfuran (Furan)	Colorless to Brown Liquid	1	1	1	-	X	X	X	X	X	X	-	-	1	-	X	1	1	1	1	-
Furfuryl Alcohol	Colorless to Reddish Brown Liquid	1	1	-	2	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	
Fusel Oil (Amyl Alcohol, Grain Oil)	Colorless Liquid	1	1	1	1	2	2	2	2	2	2	1	2	1	1	1	1	1	1	1	
Fyrguard 150, 200	-	1	1	-	-	1	1	-	-	-	-	1	-	-	-	1	1	1	1	1	
Fyrquel 15R&O, 220R&O, 550R&O	-	1	1	-	-	1	X	-	-	-	1	-	-	-	-	1	-	-	1	-	
Fyrquel 90, 150, 220, 300, 550, 1000	-	1	1	-	-	1	X	-	-	-	1	-	-	-	-	1	-	-	1	-	
<b>G</b>																					
Gallic Acid (3,4,5 Trihydroxybenzoic Acid)	In Alcohol or Glycerol	1	1	1	1	1	X	2	2	X	2	1	-	1	X	X	X	1	1	-	1
Gallic Acid Solution	In Alcohol Solution	1	1	-	1	-	X	2	2	X	2	1	-	1	X	X	X	1	1	-	X
Gasohol (Gasoline blended with Ethanol) <sup>1</sup>	Colorless Liquid	1	2	1	X	X	2	X	X	2	X	1	X	-	1	X	2	1	1	1	1
Gasoline (Oxygenated - Blended With MTBE) <sup>1</sup>	Colorless Liquid	1	2	1	X	X	2	X	X	2	X	1	X	-	1	X	2	1	1	1	X
Gasoline (Unleaded Up to 50% Aromatics) <sup>1</sup>	Colorless Liquid	1	2	1	X	X	2	X	X	2	X	1	X	1	1	X	2	1	1	1	-
Gasoline (White) <sup>1</sup>	Colorless Liquid	1	2	-	X	X	2	X	X	2	X	1	X	-	1	X	2	1	1	1	-
Gelatin	Flakes or Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	1	1	-	-	-	-	
Glacial Acetic Acid	Clear Colorless Liquid	1	1	1	X	2	-	-	X	X	X	-	X	X	X	-	-	-	-	-	
Glacial Methacrylic Acid (GMAA)	White Crystals	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Glauber's Salt (Sodium Sulfate Decahydrate)	Crystals or Powder	1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gluconic Acid (Commercial 50% Aqueous)	Aqueous Solution	1	-	-	-	X	-	X	-	2	-	-	-	-	-	-	-	-	-	-	
Glucose	Crystals to White Powder	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	1	1	
Glucose Solution	Liquid	1	1	-	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	
Glue	Varies	1	1	-	-	X	2	X	X	2	X	1	1	-	2	1	2	1	1	X	
Glycerine (Glycerol)	Clear Viscous Liquid	1	1	-	1	1	1	1	1	1	1	1	1	1	-	1	2	1	1	1	
Glycerol (Glycerine)	Clear Viscous Liquid	1	1	-	1	1	1	1	1	1	1	1	1	1	-	1	2	1	1	1	
Glycerol Monolaurate	Liquid above 80°F (27°C)	1	1	1	1	1	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
Glycol FR Fluids	Liquid	1	-	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	
Glycol Slurry	Watery suspension	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Glycols (ie Ethylene Glycol)	Clear Colorless Liquid	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
GMAA (Glacial Methacrylic Acid)	White Crystals	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Graphite	Powdered, Flake, Crystals	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
Grease	Semi-Solid	1	1	2	2	X	1	X	X	2	X	1	2	-	-	1	1	1	1	1	
Grease, Silicone Base	-	1	-	1	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1	1	
Green Liquor (Effluent Alkaline Pulping)	Liquid	1	1	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
Green Sulfate Liquor	Liquid	1	1	1	-	1	2	1	1	1	1	-	1	2	-	-	1	1	1	-	
<b>H</b>																					
Halowax (Chlorinated Hydrocarbons)	Oils to Waxy Solid	1	1	1	-	X	X	X	X	X	X	1	X	-	-	-	-	-	-	-	
HEA (2-Hydroxyethyl Acrylate)	Liquid	1	1	1	1	X	-	-	-	-	-	1	-	1	-	-	-	-	-	-	
HEA Acid (2-Hydroxyethyl Acrylate)	Liquid	1	1	1	1	X	-	-	-	-	-	1	-	1	-	-	-	-	-	-	
Hematite (Iron Ore)	Black to Brick Red	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	

<sup>1</sup> Petroleum hose only.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Chemical	Form (at room temperature unless otherwise stated)	Gates Hose / Polymers																	Couplings / Adapters			
		Stallion <sup>®</sup> Mustang <sup>®</sup> Renegade <sup>™</sup>		Food & Bev. Mstr.																		
		T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
Contact Denver Product Application for recommendations for chemicals not listed. Phone (303) 744-5070  1 = Preferred - Constant Contact 2 = Acceptable - Intermittent Contact X = Not Recommended - = No Data  <b>NOTE: Ratings are for the effect on the polymer only!</b>																						
HEP (2-Hydroxypropyl Acrylate)	Liquid	1	1	1	1	X	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-
Heptachlor (In Xylene)	Liquid	1	2	-	X	X	2	X	X	X	X	1	-	-	1	X	-	-	-	-	-	-
Heptanal (Heptaldehyde)	Colorless Oily Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptane	Colorless Liquid	1	2	1	X	X	1	X	X	2	X	1	X	1	1	2	1	1	1	1	1	-
Heptanedicarboxylic Acid (Azelaic Acid)	Yellowish to White Powder	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptanoic Acid	Clear Oily Liquid	1	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Heptanol	Colorless Liquid	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-
Hexachlorocyclohexane	White to Yellowish Flakes	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	Yellow Liquid	1	-	-	X	X	-	X	X	-	X	1	-	-	-	-	-	-	-	-	-	-
Hexadecanoic Acid (Palmitic Acid)	White Crystals	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexahydrophthalic Anhydride	Clear Colorless Viscous Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexaldehyde	Colorless Liquid	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	1	1	1	1	1	-
Hexamethylenediamine, Solution	Colorless Flat Solid Leaflets	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexamethyleneimine	Clear Colorless Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane	Colorless Liquid	1	X	1	X	X	1	X	X	-	X	1	-	1	1	X	1	1	1	-	1	-
Hexanol (Hexyl Alcohol)	Colorless Liquid	1	1	-	-	X	1	-	-	2	-	1	X	1	-	-	1	1	1	1	2	-
Hexanone (Ethyl Propyl Ketone)	Colorless Liquid	1	-	-	-	X	-	X	-	2	X	X	-	-	-	-	-	-	-	-	-	-
Hexene	Colorless Liquid	1	-	-	X	X	2	X	X	-	X	1	-	1	-	-	1	1	1	-	1	-
Hexyl "Cellosolve" (EG monoethyl ether)	Water White Liquid	1	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Hexyl Alcohol (Hexanol)	Colorless Liquid	1	1	-	-	X	1	-	-	2	-	1	X	1	-	-	1	1	1	1	2	-
Hexyl Methacrylate	Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexylamine	Water White Liquid	1	-	-	-	X	-	X	-	2	X	X	-	-	-	-	-	-	-	-	-	-
Hexylene (1-Hexene)	Colorless Liquid	1	-	-	X	X	2	X	X	-	X	1	-	1	-	-	1	1	1	-	1	-
Hexylene Glycol	Colorless Liquid	1	1	1	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Honey	Yellow Liquid	1	-	-	-	1	1	-	1	1	-	1	-	-	-	1	-	-	-	-	-	-
Houghto-Safe 1055, 1110, 1115, 1120, 1130	Liquid	1	1	-	-	1	X	-	-	-	1	-	-	-	-	-	1	1	1	1	1	-
Houghto-Safe 271, 416, 520 & 616, 620	Liquid	1	1	-	-	1	1	-	-	-	1	-	-	-	-	-	1	1	1	1	1	-
Houghto-Safe 5046	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	-	-	1	1	1	1	1	-
Houghto-Safe 625, 640 & 525 (Under 100°F/38°C)	Liquid	1	1	-	-	1	1	-	-	-	1	-	-	-	-	-	1	1	1	1	1	-
HPA Acid (2-Hydroxypropyl Acrylate)	Liquid	1	1	1	1	X	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-
HPO (Sodium Thiosulfate)	White Powder	1	1	-	-	-	1	1	1	1	1	-	1	1	1	1	X	1	1	2	X	-
Hy-Chock Oil	Liquid	1	1	-	-	-	1	-	-	-	-	1	-	-	1	-	1	1	1	-	-	-
Hydrocyanic Acid (up to 98%)	Water White Liquid	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	X	1	1	1	X	-
Hydrafluid 760 (Texaco and Houghton)	Liquid	1	1	-	-	X	1	-	-	-	X	1	-	-	1	-	1	1	1	1	1	-
Hydrafluid AZR&O, A, B, AA, C	Liquid	1	1	-	-	X	1	-	-	-	X	1	-	-	1	-	1	1	1	1	-	-
Hydrasol A (Textile Dyeing)	-	1	1	-	-	X	1	-	-	-	X	1	-	-	1	-	1	1	1	1	-	-
Hydraulic Fluid (Phosphate Ester Base)	Liquid	1	1	-	-	1	X	-	-	X	1	1	-	-	1	1	1	1	1	1	1	-
Hydraulic Fluid (Polyalphaolfin)	Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	1	1	1	-
Hydraulic Fluid (Std. Petroleum Oils)	Liquid	1	1	-	-	X	1	X	X	2	X	1	2	1	1	1	1	1	1	1	1	-
Hydraulic Fluid (Water Glycol Base)	Liquid	1	1	-	-	-	1	2	2	1	1	1	-	-	1	1	1	1	1	1	1	-
Hydraulic Fluid HF-18, HF-20	Liquid	1	1	-	-	1	1	-	-	-	1	1	-	-	1	2	1	1	1	1	1	-
Hydraulic Fluid HF-31	Liquid	1	1	-	-	X	-	-	-	-	X	-	-	-	1	-	1	1	1	1	1	-
Hydrazine	Colorless Fuming Liquid	1	1	-	-	2	X	X	X	X	2	X	X	-	-	X	-	-	-	-	-	-
Hydrazine Hydrate	Colorless Fuming Liquid	1	1	-	-	2	X	X	X	X	2	X	X	-	-	X	-	-	-	-	-	-
Hydrazine Solution	Liquid	1	1	-	-	2	X	X	X	X	2	X	X	-	-	X	-	-	-	-	-	-
Hydro-Drive Oil (Houghton)	Liquid	1	-	-	-	X	1	-	-	-	X	-	-	-	-	2	-	-	-	-	-	-
Hydrobromic Acid (62% and less)	Colorless to Yellow Liquid	1	1	1	1	X	X	2	2	X	2	1	2	1	X	X	-	-	-	X	-	-
Hydrobromic Acid (to 48%)	Colorless to Yellow Liquid	1	1	1	1	1	X	2	2	X	2	1	2	1	X	X	-	-	-	X	-	-
Hydrochloric Acid (15%)	Colorless to Yellow Liquid	1	1	1	1	2	X	2	2	X	2	1	2	1	X	X	X	X	X	X	X	-
Hydrochloric Acid (37%)	Colorless to Yellow Liquid	1	1	1	1	X	X	2	2	X	2	1	2	1	X	X	X	X	X	X	X	-
Hydrochloric Acid, anhydrous	Colorless Fuming Gas	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	X	X	X	X	X	-

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Contact Denver Product Application for recommendations for chemicals not listed. Phone (303) 744-5070  1 = Preferred - Constant Contact 2 = Acceptable - Intermittent Contact X = Not Recommended - = No Data  <b>NOTE: Ratings are for the effect on the polymer only!</b>	Form (at room temperature unless otherwise stated)	Gates Hose / Polymers																Couplings / Adapters				
		Stallion® Mustang® Renegade™	Food & Bev. Mstr.																Iron/Carbon Steel Stainless Steel 304 Stainless Steel 316	Aluminum Brass	Polypropylene	
		T K L	S P C	D D A	H V M	J Z G	Teflon® Neoflon® Gatron™ UHMWPE	Sanitron™ EPDM NBR	SBR NR Neoprene	Butyl Fluorocarbon Hypalon®	CPE Nylon PVC	Iron/Carbon Steel Stainless Steel 304 Stainless Steel 316	Aluminum Brass	Polypropylene								
Hydrocyanic Acid (10% Solution with water)	Water White Liquid	1	1	1	-	-	X	2	2	X	-	1	2	-	-	X	X	1	1	1	X	-
Hydrocyanic Acid (98% or less)	Water White Liquid below 77°F(25°C)	1	-	-	-	-	-	-	-	-	-	1	-	-	-	X	-	-	-	-	-	-
Hydrocyanic Acid (up to 20%)	Water White Liquid	1	1	-	-	1	2	2	2	2	-	1	1	-	-	2	-	-	-	-	-	-
Hydrofluoric Acid (38% or less)	Colorless Liquid	1	1	1	1	2	X	X	X	2	2	1	1	1	X	X	X	X	X	X	X	X
Hydrofluoric Acid (47% or less)	Colorless Liquid	1	1	1	1	2	X	X	X	2	2	1	2	1	X	X	X	X	X	X	X	-
Hydrofluoric Acid (53% or less)	Colorless Liquid	1	1	X	1	-	X	X	X	2	X	1	2	1	X	X	X	X	X	X	X	-
Hydrofluoric Acid (70%)	iquid	1	1	X	1	X	X	X	X	X	-	1	2	-	X	X	X	X	X	X	X	-
Hydrofluoric Acid (Concentrated)	Colorless Liquid	1	1	X	2	X	X	X	X	X	X	2	2	1	X	X	X	X	X	X	X	-
Hydrofluosilicic Acid	In Water	1	1	1	2	2	X	X	X	X	X	1	1	1	X	X	X	X	X	X	X	-
Hydrogen (Gas)	Gas	<b>CONTACT DENVER PRODUCT APPLICATION</b>																				
Hydrogen Bromide Liquified (Anhydrous)	Liquid	1	-	-	-	1	X	X	X	-	X	1	-	-	-	-	-	-	-	-	-	-
Hydrogen Bromide Solution (HydroBromic Acid)	Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hydrogen Bromide, Anhydride	Colorless Gas	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hydrogen Chloride	Colorless Fuming Gas	1	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	
Hydrogen Dioxide (Hydrogen Peroxide)	Liquid	1	-	-	-	2	X	-	-	2	-	1	1	-	-	-	-	-	-	-	-	
Hydrogen Fluoride	Colorless Gas or Liquid	1	-	-	-	1	X	X	X	-	2	X	-	-	-	-	1	1	1	-	-	
Hydrogen Peroxide (35% or less)	Liquid	1	1	1	X	1	2	X	X	1	X	1	1	1	1	1	1	1	1	1	1	X
Hydrogen Peroxide (50% or less)	Liquid	1	2	1	X	1	2	X	X	1	X	1	1	1	2	2	X	2	1	1	1	X
Hydrogen Peroxide (70% or less)	Liquid	1	2	1	X	2	X	X	X	2	-	1	1	1	X	2	X	2	1	1	1	X
Hydrogen Peroxide (90% or less)	Liquid	1	-	1	-	2	X	X	X	2	-	1	1	1	-	X	X	X	2	1	1	X
Hydrogen Sulfide	Colorless Gas	<b>NO HOSE AVAILABLE</b>																				
Hydrogen Sulfide, Liquified	Liquid @ 410 PSI, 120°F (49°C)	1	-	-	-	1	X	X	-	2	X	X	-	-	-	-	-	-	-	-	-	
Hydrolube (Water Glycol)	Liquid	1	-	1	-	1	1	-	-	2	2	1	-	-	-	1	-	-	-	-	-	
Hydrolubric Oil (Houghton)	Liquid	1	1	-	-	X	2	-	-	-	X	-	-	-	1	2	-	-	-	-	-	
Hydroquinone	White Crystals	1	1	-	-	X	-	X	X	X	X	2	X	-	-	-	-	1	1	-	-	
Hydroquinone Solution	Liquid	1	-	-	-	X	X	-	X	X	1	-	-	-	2	-	1	1	-	-	-	
Hydroxyacetic Acid	Colorless Crystals	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
Hydroxyacetic Acid Solution	Liquid	1	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hydroxyethyl Acrylate (HEA)	Liquid	1	1	1	1	X	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	
Hydroxyethyl Acrylate Acid (HEA Acid)	Liquid	1	1	1	1	X	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	
Hydroxyethyl Methacrylate	Clear Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
Hydroxyethyl Methacrylate Solution in Xylene	Clear Liquid	1	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Hydroxypropyl Acrylate Acid (HPA Acid)	Liquid	1	1	1	1	X	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	
Hylene (Toluene Diisocyanate)	Yellow Liquid	1	-	-	-	2	X	X	X	X	2	X	X	-	-	-	-	-	-	-	-	
Hypochlorous Acid (only in dilute solutions)	Greenish-Yellow Aqueous Sol.	1	1	1	1	2	X	X	X	X	X	1	2	-	-	-	-	-	-	-	-	
<b>I</b>																						
Ink (Printers)	Liquid	1	1	-	-	X	2	X	X	-	X	X	-	-	1	-	2	2	1	-	2	-
Ink Oil	Liquid	1	2	-	-	-	2	-	-	-	-	-	-	-	-	-	1	1	1	-	1	-
Insulating Oil (Transformer) <sup>1</sup>	Liquid	1	1	-	-	X	1	X	X	2	X	1	X	-	-	-	1	1	1	-	1	-
Iodine	Grayish Black Granules	1	-	-	-	-	-	-	1	X	-	-	-	-	-	X	X	X	X	-	-	-
Iodine Solution	Liquid	1	1	1	1	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Iodine, In Alcohol	Liquid	1	1	1	1	1	1	-	X	X	2	-	1	-	1	-	1	-	-	-	-	-
Iron Acetate Liquor (Black Liquor)	Black Liquid	1	1	1	1	2	2	X	X	2	2	1	2	2	-	1	1	1	1	-	-	1
Iron Hydroxide	Brown precipitate	1	-	-	-	1	1	-	X	1	1	1	1	-	-	-	-	-	-	-	-	-
Iron Ore (Hematite)	Black to Brick Red	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
Iron Oxide (Black, Brown, Red or Yellow)	Solid	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
Iron Oxide Slurry	Slurry	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
Iron Salts	-	1	-	-	-	1	1	-	1	1	1	1	1	-	1	1	1	1	-	-	-	-
Iron Sulfate Solution (Ferric Sulfate)	Liquid	1	1	1	-	2	2	2	-	2	2	1	2	1	-	1	X	1	1	X	X	1

<sup>1</sup> Petroleum hose only.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.





# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Chemical	Form (at room temperature unless otherwise stated)	Gates Hose / Polymers															Couplings / Adapters					
		Stallion® Mustang® Renegade™			Food & Bev. Mstr.												Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
		T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G						
<p>Contact Denver Product Application for recommendations for chemicals not listed. Phone (303) 744-5070 1 = Preferred - Constant Contact 2 = Acceptable - Intermittent Contact X = Not Recommended - = No Data  NOTE: Ratings are for the effect on the <b>polymer only!</b></p>																						
Kerosene	Water White Oily Liquid	1	1	-	X	X	1	X	X	X	X	1	X	1	1	2	1	1	1	1	1	-
Ketchup	Red Liquid	-	-	-	1	-	1	-	-	1	-	-	-	-	1	-	-	1	1	1	-	-
Ketoglutaric Acid	In Water or Alcohol	1	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ketones (ie Acetone, MEK, Cyclohexanone)	Generally Liquids	1	1	1	1	2	X	X	X	X	2	X	X	-	1	X	1	1	1	1	1	-
Koch Acid	White Solid	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>L</b>																						
Lacquer - Alcohol or Acetate as Solvent	Solution	1	1	1	1	2	-	-	-	-	X	-	-	-	-	-	X	X	1	1	1	-
Lacquer - Toluene or Xylene as Solvent	Solution	1	-	-	-	-	X	X	X	X	1	X	-	1	X	X	X	1	1	1	1	-
Lactic Acid (90% or less)	Colorless-Yellow Liquid	1	1	1	1	2	X	2	2	1	-	1	1	-	-	X	X	2	1	X	2	-
Lactic Acid, Food Grade - 50-80%	Colorless to Yellow Liquid	1	1	1	1	2	-	X	X	-	X	1	1	-	-	-	X	2	1	X	2	-
Lactic Acid, Plastic Grade - 50-80% or less	Colorless to Yellow Liquid	1	1	1	1	2	1	-	-	1	-	1	1	-	X	1	X	2	1	X	2	-
Lactic Acid, USP 85-90% or less	Colorless to Yellow Syrupy Liquid	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	X	2	1	X	2	-
Lactol	-	1	1	-	-	-	2	-	-	2	-	-	-	-	-	-	-	1	1	1	-	1
Lard (Fat of the Hog)	Liquid above 108°F (42°C)	1	1	1	X	X	1	X	X	2	X	1	X	1	1	-	1	1	1	1	X	-
Lard Oil	Colorless to Yellow Liquid	1	1	-	-	-	-	-	2	-	X	-	-	-	-	-	1	1	1	1	X	-
Lasso (Alachlor)	Colorless Crystals	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	1	1	-	-
Latex Paint	Liquid	1	1	1	1	1	1	2	2	-	2	1	-	-	1	1	1	1	1	1	1	-
Lauryl Peroxide	White Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Lauryl Alcohol	Liquid above 75°F (24°C)	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Lead Acetate	White Crystals	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	1	1	-	1	-
Lead Acetate Solution	Solution	1	1	1	1	1	2	2	2	-	2	1	-	1	-	1	2	1	1	-	1	-
Lead Arsenate	White Crystals	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	-	-	-
Lead Arsenate Solution (In Nitric Acid)	Solution	1	1	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-
Lead Nitrate Solution (In Water or Alcohol)	Solution	1	1	1	1	1	1	2	2	2	2	1	-	1	-	1	1	1	1	-	-	-
Lead Silicate (basic)	White Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead Sulphate (Basic, Blue Basic, Tribasic)	White to Blue Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	-	-	-
Lead, Tetraethyl (Tetraethyl Lead)	Colorless Oily Liquid	1	2	-	-	X	2	X	X	X	X	1	X	-	2	1	-	-	-	-	-	-
Lead, Tetramethyl (Tetramethyl Lead)	Colorless Liquid	1	-	-	-	X	2	X	X	X	X	1	X	-	-	-	-	-	-	-	-	-
Lecithin	Light Brown Viscous Liquid-Solid	1	1	-	-	-	X	-	-	2	-	-	-	-	-	-	-	1	1	-	-	-
Ligroin	Clear Liquid	1	2	-	-	X	1	X	X	X	X	1	X	-	1	X	2	1	1	-	-	-
Lime (Calcium Oxide)	White to Gray Lumpy Solid	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-
Lime Sulfur Solution	Solution	1	1	1	1	2	X	X	X	1	X	1	2	-	-	2	2	1	1	X	X	-
Lime, Chlorinated (Bleaching Solution)	Solution	1	1	1	1	2	2	2	2	X	2	1	X	-	-	2	X	2	1	-	-	-
Lime, Chlorinated (normal 35-37% Chlorine)	White Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	2	-	-	-
Lime, Hydraulic (Calcined Limestone)	Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Lime, Slaked (Calcium Hydroxide)	White Crystalline Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone	Powder or Lumps	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Limonene	Colorless Liquid	1	2	1	X	X	X	X	X	-	-	1	-	-	1	-	-	1	1	1	1	1
Lindane (Ag Spray)	-	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-
Linoleic Acid	Colorless to Straw Colored Liquid	1	1	1	-	X	2	-	X	-	X	1	-	-	-	1	-	-	-	-	-	-
Linseed Oil	Yellow Amber to Brown Liquid	1	1	X	2	2	2	X	X	2	-	1	1	1	1	1	1	1	1	1	2	-
Liquid Soap	Liquid	1	1	1	-	2	-	2	2	-	2	-	-	-	-	2	1	1	1	1	1	-
Lithium Chloride	White Crystals	-	-	X	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithium Chloride (35-40% Brine)	Solution	X	1	X	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Lubricating Oil Diester (Under 135°F/57°C)	Liquid	1	1	-	-	X	2	X	X	-	X	1	-	-	-	X	1	1	1	1	1	-
Lubricating Oil (SAE 10, 20, 30, 40, & 50)	Liquid	1	-	-	-	-	2	-	-	2	-	-	-	-	1	-	1	1	1	1	1	-
Lubricating Oil (Under 120°F/49°C)	Liquid	1	1	-	-	X	1	X	X	2	X	1	2	1	1	2	1	1	1	1	1	-
<b>M</b>																						
Machine Oil (Under 135°F/57°C)	Liquid	1	1	-	-	X	1	X	X	1	X	1	2	-	1	2	1	1	1	1	1	-

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.







# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Chemical	Form (at room temperature unless otherwise stated)	Gates Hose / Polymers														Couplings / Adapters					
		Stallion <sup>®</sup>		Mustang <sup>®</sup>		Renegade <sup>™</sup>		Food & Bev. Mstr.													
		T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
<p>Contact Denver Product Application for recommendations for chemicals not listed. Phone (303) 744-5070</p> <p>1 = Preferred - Constant Contact 2 = Acceptable - Intermittent Contact X = Not Recommended - = No Data</p> <p><b>NOTE: Ratings are for the effect on the <i>polymer only!</i></b></p>																					
Methylaniline	Colorless to Brown Liquid	1	1	1	1	2	X	-	-	X	-	1	2	-	X	X	-	-	-	-	-
Methyldiethanolamine	Colorless Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Bromide	Clear Liquid	1	-	-	-	-	2	-	-	-	-	1	-	-	-	-	X	-	-	-	-
Methylene Chloride (Dichloromethane)	Colorless Liquid	1	1	2	X	X	X	X	X	X	X	2	X	X	X	X	X	1	1	1	1
Methylene Dichloride	Colorless Liquid	1	1	2	X	X	X	X	X	X	X	1	X	X	X	X	1	1	1	X	1
Methylene Dichloride (Methylene Chloride)	Colorless Liquid	1	1	2	X	X	X	X	X	X	X	1	X	X	X	X	1	1	1	X	1
Methylene Diphenyl Diisocyanate, MDI	Liquid above 99°F (37°C)	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylstyrene	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
MIBK (Methyl Isobutyl Ketone)	Colorless Liquid	1	2	-	-	-	X	X	X	X	2	X	X	2	1	X	-	-	-	-	-
Milk	White Liquid	USE FDA HOSE ONLY														-	-	-	-	-	-
Mineral Oil	Colorless Liquid	1	1	1	X	X	1	X	X	1	X	1	1	1	1	1	1	1	1	2	1
Mineral Spirits (VM&P Naphtha)	Colorless Liquid	1	1	-	X	X	1	X	X	-	X	1	X	-	1	-	1	1	1	2	1
MIPA (Isopropanolamine)	Liquid	1	-	-	-	2	-	2	-	1	X	X	-	-	-	-	-	-	-	-	-
Mobile Therm 603	Liquid	1	1	-	-	-	1	-	-	-	-	1	-	-	-	-	1	1	1	1	1
Molasses	Brown Liquid	1	1	-	1	1	2	2	2	2	1	1	1	-	-	2	2	1	1	2	X
Monochloroacetic Acid	Colorless to Light Brown Crystals	1	1	X	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
Monochloroacetic Acid Solution (in H <sub>2</sub> O or Alcohol)	Liquid Solution	1	1	X	1	2	-	-	-	-	-	-	-	-	X	-	X	X	X	-	2
Monochlorobenzene	Clear Liquid	1	2	-	X	X	X	X	X	X	X	1	X	X	X	X	1	1	1	-	1
Monoethanolamine	Colorless Liquid	1	2	1	1	2	2	2	2	2	2	X	X	1	1	2	1	1	1	-	1
Monoethylamine	Liquid @ 15 PSIG @ 120°F (49°C)	1	2	-	1	2	1	X	X	X	X	2	X	X	1	-	-	1	1	-	1
Monoethylamine Solution (70% or less)	Liquid Solution	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monoglycerides	Liquid to Solid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monomethylamine (Methylamine)	Liquid @ 120 PSIG @ 120°F (49°C)	1	-	-	-	-	-	-	-	-	-	-	-	-	X	-	1	1	1	-	-
Monopentaerythritol (Pentaerythritol)	White Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Monopentaerythritol Solution	Liquid Solution	1	1	1	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Monosodium Phosphate (Monobasic)	White Powder	1	1	-	-	2	-	2	2	X	2	-	-	1	1	1	-	1	1	X	X
Morpholine	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mortar, Inorganic	Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Motor Oil	Liquid	1	1	-	X	X	1	X	X	2	X	1	2	1	1	2	1	1	1	1	1
Mould Oil	Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-
Mouth Wash	Liquid	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1
MTBE (Methyl Tertiary Butyl Ether)	Colorless Liquid	-	2	-	2	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
Muriatic Acid (Hydrochloric)	Colorless to Yellow Liquid	1	1	1	1	X	X	2	2	X	2	1	2	1	X	X	X	X	X	X	-
Mustard	Liquid	1	-	-	2	-	-	1	1	1	1	-	1	-	-	-	X	1	1	-	-
<b>N</b>																					
n-Hexaldehyde	Colorless Liquid	1	1	-	-	2	X	X	X	2	1	-	-	-	-	-	-	-	-	-	-
n-Methyl-2-Pyrrolidone	Colorless Liquid	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Octane	Colorless Liquid	1	2	1	X	X	1	X	X	-	X	1	X	1	1	X	-	-	-	-	-
Naphtha (Low Aromatic Content)	Liquid	1	1	-	X	X	2	X	X	X	X	1	X	1	-	X	2	1	1	-	1
Naphthalene	White Crystalline Flakes	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	1	1
Naphthenic Acid	Commercial Grade is Dark Fluid	1	1	-	2	-	2	-	-	-	-	1	-	-	-	1	-	-	-	-	-
Neohexane	Colorless Liquid	1	-	-	X	1	-	-	2	-	-	1	-	-	1	-	-	-	-	-	-
Neutral Oil	Liquid	1	1	1	-	X	2	X	X	2	X	1	-	-	1	-	1	1	1	-	1
Nickel Acetate	Green Crystals	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	1	1
Nickel Acetate Solution (In Water or Alcohol)	Solution	1	1	1	1	2	-	2	2	-	1	-	-	-	-	-	1	1	1	1	1
Nickel Carbonate	Green to Brown Crystals/Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Nickel Chloride	Brown Deliquescent Scales	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	X	2	2	X	X
Nickel Chloride Solution (In Water or Alcohol)	Solution	1	1	-	-	2	2	2	2	2	2	1	2	1	-	1	X	2	2	X	X
Nickel Nitrate	Green Deliquescent Crystals	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	2	X	-
Nickel Nitrate Solution (In Water or Alcohol)	Solution	1	1	-	-	2	2	2	2	2	2	1	2	1	-	2	-	-	2	X	-

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Chemical	Form (at room temperature unless otherwise stated)	Gates Hose / Polymers														Couplings / Adapters							
		Stallion <sup>®</sup> Mustang <sup>®</sup> Renegade <sup>™</sup>			Food & Bev. Mstr.																		
		T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene	
<p>Contact Denver Product Application for recommendations for chemicals not listed. Phone (303) 744-5070</p> <p>1 = Preferred - Constant Contact 2 = Acceptable - Intermittent Contact X = Not Recommended - = No Data</p> <p><b>NOTE: Ratings are for the effect on the polymer only!</b></p>																							
Nickel Plating Solution	Liquid	1	1	-	-	-	2	2	2	-	-	-	2	-	-	X	-	1	1	-	-	-	
Nickel Salts	-	1	1	-	-	-	1	1	1	1	1	1	1	1	1	2	-	-	-	-	-	-	
Nickel Sulfate	Yellow Green to Blue Crystals	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	1	X	X	-	
Nickel Sulfate Solution	Solution	1	1	-	-	2	2	2	2	2	2	2	2	1	2	1	-	1	-	X	X	-	
Nicotine Salts (ie Nicotine Hydrochloride)	Colorless Oil	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	X	2	-	-	-		
Niter Cake (Sodium Bisulfate)	Colorless Crystals to White Lumps	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	X	X	-		
Niter Cake Solution	Solution	1	1	1	1	2	-	X	X	-	2	1	1	1	-	-	-	-	-	-	-		
Nitric Acid (25% or less)	Colorless Liquid	1	1	1	2	2	X	X	X	X	2	1	2	1	X	X	X	2	2	-	X	-	
Nitric Acid (10%)	Transparent or Yellowish Liquid	1	1	1	1	1	X	X	X	X	2	1	2	1	X	X	X	2	2	-	X	-	
Nitric Acid (25%)	Transparent or Yellowish Liquid	1	1	1	2	2	X	X	X	X	2	1	2	1	X	X	X	X	2	2	-	X	-
Nitric Acid (35% or less, 26 Degrees Baume)	Colorless Liquid	1	1	1	2	2	X	X	X	X	2	1	1	X	X	X	X	2	2	-	X	-	
Nitric Acid (52% or less, 36 Degrees Baume)	Colorless to Yellow Liquid	1	2	X	2	X	X	X	X	X	X	1	2	X	X	X	X	2	2	-	X	-	
Nitric Acid (61% or less, 40 Degrees Baume)	Colorless to Yellow Liquid	1	2	X	2	X	X	X	X	X	X	1	2	X	X	X	X	2	2	-	X	-	
Nitric Acid (63.5% or less)	Transparent or Yellowish Liquid	1	X	X	X	X	X	X	X	X	X	1	X	X	X	X	X	2	2	-	X	-	
Nitric Acid (67% or less, 42 Degrees Baume)	Colorless to Yellow Liquid	1	X	X	X	X	X	X	X	X	X	1	X	X	X	X	X	2	2	-	X	-	
Nitric Acid (95% or less, 48.5 Degrees Baume)	Yellow Liquid	1	X	X	X	X	X	X	X	X	X	1	X	X	X	X	X	2	2	-	X	-	
Nitric Acid (Red Fuming)	Red Liquid	1	X	X	X	X	X	X	X	X	X	1	X	X	X	X	-	-	-	-	-	-	
Nitrobenzene	Yellow Liquid @ 43°F (6°C)	1	2	-	1	2	X	X	X	X	X	2	X	X	2	X	1	1	1	1	1	-	
Nitroethane	Colorless Liquid	1	1	-	-	2	X	2	2	X	2	-	2	1	-	-	-	1	1	-	1	-	
Nitrogen (Cryogenic Liquid)	Liquid	NO HOSE AVAILABLE														1	1	1	1	1	-		
Nitrogen (Gas)	Colorless Gas	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	
Nitrogen Dioxide (Nitrogen Tetroxide)	Liquid @ 50 PSIG @ 120°F (49°C)	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-		
Nitrogen Fertilizer (Ammonia, Urea)	Solutions in Water	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nitrogen Oxide (Nitrous Oxide)	Gas	1	1	-	1	2	X	X	X	X	1	1	1	1	X	X	1	1	1	-	X	-	
Nitrogen Tetroxide (Nitrogen Dioxide)	Liquid @ 50 PSIG @ 120°F (49°C)	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-		
Nitromethane	Colorless Liquid	1	-	-	-	2	X	-	2	X	2	X	X	-	1	X	-	1	1	-	1	-	
Nitropropane	Colorless Liquid	1	1	-	-	2	X	X	X	X	2	X	-	-	1	-	-	-	1	1	-	-	
Nitrosyl Chloride	Yellow-Red Liquid or Gas	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	
Nitrous Acid (Up to 10%)	Light Blue Liquid	1	1	1	-	-	-	-	-	1	-	-	1	-	1	1	X	1	1	X	X	-	
Nitrous Oxide (Nitrogen Oxide)	Gas	1	1	-	1	2	X	X	X	X	1	1	1	1	X	X	1	1	1	X	-	-	
Nitrous Oxide, Compressed Liquid	Liquid @ 800 PSIG @ 68°F (20°C)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonene (1-nonylene)	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Nonyl Alcohol (Octyl Carbinol)	Colorless Liquid	1	1	1	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Nonylene (Nonene)	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
<b>O</b>																							
Octadecanoic Acid (Stearic Acid)	Colorless Waxy Solid	1	1	1	1	2	2	2	2	2	2	1	2	1	1	1	X	2	1	X	X	-	
Octanoic Acid (Caprylic Acid)	Colorless Oily Liquid	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
Octanol (Octyl Alcohol)	Colorless Liquid	1	1	-	-	-	2	2	2	2	-	1	-	1	1	2	1	1	1	1	2	-	
Octene	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Octyl Acetate	Colorless Liquid	1	-	-	-	-	X	-	X	-	X	X	1	-	-	-	-	-	-	-	-	-	
Octyl Alcohol (Octanol)	Colorless Liquid	1	1	-	-	-	2	2	2	-	1	-	2	1	1	2	1	1	1	1	2	-	
Octyl Aldehyde	Colorless Liquid	1	-	-	-	-	X	-	X	-	X	X	X	-	-	-	-	-	-	-	-	-	
Octyl Carbinol (Nonyl Alcohol)	Colorless Liquid	1	1	1	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Octyl Phenol (Diisobutyl Phenol)	White Flakes	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Octylamine	Water White Liquid	1	-	-	-	-	X	-	X	-	2	X	X	-	-	-	-	-	-	-	-	-	
Oil (SAE Motor Oils)	Liquid	1	1	-	X	X	1	X	X	2	X	1	2	1	1	2	-	-	-	-	-	-	
Oil of Turpentine	Liquid	1	2	2	-	X	1	X	X	2	X	1	X	-	1	1	-	-	-	-	-	-	
Oils, Animal (High Fatty Acid Content)	Solid to Liquids	1	2	-	2	X	1	X	X	2	2	1	X	1	-	2	1	1	1	1	1	-	
Oils, Mineral (Aliphatic or Aromatic)	Liquids	1	2	-	X	X	2	X	X	X	X	1	2	2	1	X	-	-	-	-	-	2	
Oils, Vegetable (Soybean, Coconut, Corn)	Liquids	1	1	-	X	X	1	X	X	-	X	1	X	-	1	-	-	-	-	-	-	1	

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Chemical	Form (at room temperature unless otherwise stated)	Gates Hose / Polymers														Couplings / Adapters						
		Stallion® Mustang® Renegade™ Food & Bev. Mstr.																				
		T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum Brass	Polypropylene	
Teflon®/Neoflon® Gatron™ UHMWPE		Sanitron™ EPDM NBR		SBR NR		Neoprene		Butyl		Fluorocarbon Hypalon®		CPE Nylon		PVC								
Contact Denver Product Application for recommendations for chemicals not listed. Phone (303) 744-5070 1 = Preferred - Constant Contact 2 = Acceptable - Intermittent Contact X = Not Recommended - = No Data  <b>NOTE: Ratings are for the effect on the polymer only!</b>																						
Oleic Acid (fatty acid)	Yellow to Red Oily Liquid	1	2	2	2	2	2	X	X	2	2	2	X	2	-	2	2	1	1	2	1	
Oleum (Fuming Sulfuric, 30% SO <sub>3</sub> or less)	Clear to Off White Fuming Liquid	1	X	X	X	X	X	X	X	X	X	1	X	X	X	X	-	-	-	-	X	
Olive Oil	Yellow to Green Liquid	1	1	1	2	2	2	X	X	X	2	1	X	2	1	2	2	1	1	1	2	1
Ortho-Dichlorobenzene (also meta and para)	Colorless Liquid	1	2	-	X	X	X	X	X	X	X	1	X	X	1	X	-	1	1	-	1	-
Ortho-xylene (1,2 Dimethylbenzene)	Clear Colorless Liquid	1	X	X	X	X	X	X	X	X	X	1	X	X	X	X	-	-	-	-	-	-
OS 45 Hydraulic Fluid (Silicate Ester Base)	Liquid	1	-	X	X	X	X	X	X	1	X	1	2	-	-	-	-	-	-	-	-	
Oxalic Acid	Transparent Crystals	1	-	2	-	-	-	-	1	-	-	-	-	-	-	-	X	2	1	2	X	1
Oxalic Acid (50%)	Crystals in H <sub>2</sub> O	1	2	1	2	2	X	X	X	X	2	1	2	1	X	X	-	-	-	-	-	-
Oxygen	Colorless Gas	1	1	-	1	1	2	2	2	-	1	1	1	1	1	-	-	-	-	-	-	-
Oxygen, Refrigerated Liquid	Liquid @ 200 PSIG @ -231°F (-146°C)	<b>NO HOSE AVAILABLE</b>														-	-	-	-	-	-	
Ozone	Gas	1	2	2	1	1	X	X	X	2	2	2	2	1	2	1	1	1	1	1	1	1
<b>P</b>																						
Paint (Emulsion or Latex)	Liquid	1	1	1	1	2	2	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-
Paint (Inorganic)	Liquid	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-
Paint (Oil or Solvent Based)	Liquid or Paste	1	1	-	X	X	2	X	X	-	X	1	X	-	1	-	-	-	-	-	-	-
Paint Remover	Liquid or Paste	1	2	-	X	X	X	X	X	X	X	1	X	-	X	-	-	-	-	-	-	-
Paint Resin	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Palm Oil	Yellow to Brown Solid	1	1	-	-	-	1	X	X	2	2	-	2	-	-	-	1	1	1	1	1	-
Palmitic Acid (Hexadecanoic Acid)	Crystals in Hot Alcohols	1	1	1	2	2	2	X	X	2	2	1	X	1	-	-	1	2	1	1	X	1
Papemakers Alum (Aluminum Ammonium Sulfate)	In Water	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Paraffin (Aliphatic Hydrocarbon)	Varies from Gas to Waxy Solid	1	1	1	X	X	1	X	X	2	X	1	X	1	-	-	2	1	1	-	1	-
Paraformaldehyde	White Solid - Flakes or Powder	1	-	-	-	-	2	-	1	2	-	-	-	-	-	-	1	-	1	1	-	-
Paraldehyde	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Paranox (Detergent, Disperser; Exxon)	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parapol (Liquid Polyisobutylene; Exxon)	Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Peanut Oil	Yellow to Green Liquid	1	1	-	2	-	1	-	-	2	X	-	-	-	-	2	1	1	1	1	1	1
Pelargonic Acid	Colorless to Yellow Oil	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachloroethane	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol In Oil	In Oil (Wood Preservative)	1	1	1	X	X	X	X	X	X	1	1	-	-	-	X	-	-	-	-	-	-
Pentaerythritol (Monopentaerythritol)	White Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentane	Colorless Liquid	1	X	X	X	X	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
Pentanol (Methyl Propyl Carbinol)	Colorless Liquid	1	1	1	1	1	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-
Pentanone (Methyl Propyl Ketone)	Water White Liquid	1	-	-	-	2	X	-	X	X	2	X	X	-	-	X	-	-	-	-	-	-
Pentasol (Amyl alcohols, primary and secondary)	Liquid	1	2	2	2	2	2	2	2	2	2	1	2	1	1	2	1	1	1	1	1	-
Perchloric Acid (70%)	70% or Less with H <sub>2</sub> O	1	2	1	2	-	-	2	2	2	2	1	2	-	X	X	-	2	1	-	-	1
Perchloroethylene	Colorless Liquid	1	2	-	X	X	X	X	X	X	X	1	X	2	2	X	1	1	1	-	X	-
Petroleum Coke	Solid Pellets	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Distillate	Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Petroleum Ether (Naptha)	Liquid	1	1	-	X	X	2	X	X	X	X	1	X	1	-	X	2	1	1	-	1	-
Petroleum Naphtha (Toluene/Cyclohexane/Xylene)	Liquid	1	X	X	X	X	X	X	X	X	X	1	X	X	X	X	-	-	-	-	-	-
Petroleum Naphtha Flash Point Over 200 Degrees	Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Petroleum Oils (Refined)	Liquid	1	1	1	X	X	1	X	X	2	X	1	2	-	1	1	-	-	-	-	-	-
Petroleum Oils (Sour)	Liquid	1	1	1	X	X	1	X	X	2	X	1	X	-	-	2	-	-	-	-	-	-
Petroleum Paraffin Wax	Solid with low Melt Points	1	2	2	X	X	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Phenol (Carbolic Acid)	White or Pink Crystals	1	2	-	2	2	X	X	X	X	2	1	X	1	X	X	X	1	1	2	X	-
Phenol Acid	95% or less with H <sub>2</sub> O	1	2	2	2	2	X	X	X	X	2	1	X	1	X	X	X	1	1	-	X	-
Phenolates	-	1	-	-	-	-	X	-	-	X	-	2	X	-	2	-	-	-	-	-	-	-
Phenolsulfonic Acid	Yellow to Brown Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Phenothiazine	Greenish Powder or Flakes	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenyl Acetate	Water White Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Contact Denver Product Application for recommendations for chemicals not listed. Phone (303) 744-5070  1 = Preferred - Constant Contact 2 = Acceptable - Intermittent Contact X = Not Recommended - = No Data  <b>NOTE: Ratings are for the effect on the polymer only!</b>		<b>Gates Hose / Polymers</b>														<b>Couplings / Adapters</b>								
		Stallion <sup>®</sup> Mustang <sup>®</sup> Renegade <sup>™</sup>	Food & Bev. Mstr.																					
		T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G								
<b>Chemical</b>		<b>Form</b> (at room temperature unless otherwise stated)		Teflon <sup>®</sup> / Neoflon <sup>®</sup>	Gairon <sup>™</sup>	UHMWPE	Sanitron <sup>™</sup>	EPDM	NBR	SBR	NR	Neoprene	Butyl	Fluorocarbon	Hypalon <sup>®</sup>	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
Phenyl Chloride (Chlorobenzene)	Clear Volatile Liquid	1	2	-	X	X	X	X	X	X	X	X	X	1	X	X	X	X	1	1	1	1	1	X
Phenylenediamine (ortho)	Colorless to Red Solid Needles	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phorone (Diisopropylidene Acetone)	Yellow Liquid	1	1	-	-	2	X	X	X	X	2	X	X	-	-	-	-	1	1	1	-	-	1	-
Phosgene (Carbonyl Chloride)	Gas, Liquid 60 PSI @ 120°F (49°C)	1	X	X	X	X	X	X	X	X	2	1	X	-	2	-	-	-	-	-	-	-	-	-
Phosphate Ester Hydraulic Fluid	Liquid	1	1	1	-	1	X	X	X	X	-	-	X	-	2	-	-	-	-	-	-	-	-	-
Phosphate Rock	Solid	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphate, Trisodium	In Water	1	1	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Phosphoric Acid (100%)	Crystals	1	2	X	2	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Phosphoric Acid (35% or less)	Colorless Liquid	1	1	1	1	1	2	2	2	2	2	1	1	1	1	-	-	X	1	1	X	2	1	-
Phosphoric Acid (50%)	Colorless Liquid	1	1	1	1	1	2	2	2	2	2	1	1	1	1	X	X	X	1	1	X	2	1	-
Phosphoric Acid (75%)	Colorless Liquid	1	2	1	2	2	-	-	-	-	-	1	1	1	1	X	X	X	2	2	X	X	1	-
Phosphoric Acid (85%)	Syrupy Liquid	1	2	1	2	2	X	X	X	X	X	1	1	1	1	X	X	X	2	2	X	X	1	-
Phosphoric Acid (90%)	Syrupy Liquid	1	2	1	2	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Phosphoric Acid, Spent	Liquid	1	1	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Photographic, Developers	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Photographic, Emulsions	Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Photographic, Fixing Solutions	Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Phthalic Acid	Colorless Crystals	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phthalic Acid (50%)	Colorless Liquid	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phthalic Anhydride, Molten	White Crystalline Solid	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Picric Acid (Solution)	In Water	1	2	2	2	2	-	-	-	-	-	1	-	-	-	-	-	X	1	1	X	X	1	-
Picric Acid (Trinitrophenol)	Yellow Crystals	1	2	2	2	2	2	2	2	2	2	2	2	2	2	X	1	X	1	1	X	X	1	-
Pine Oil	Colorless to Amber Liquid	1	1	-	-	X	2	X	X	-	-	X	2	X	2	-	-	-	-	-	-	-	-	-
Pine Tar	Viscous Brown to Black Liquid	1	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Pinene	Colorless Transparent Liquid	1	1	-	X	X	2	X	X	X	X	1	-	2	1	X	-	1	1	1	-	-	-	-
Piperazine Hydrochloride Solution (34%)	In Water	1	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pitch	In Aromatic Hydrocarbons	1	2	X	X	X	2	X	X	X	X	1	X	-	1	X	-	-	-	-	-	-	-	-
Plating Solution Chrome (Under 120°F/49°C)	Liquid	1	1	-	-	2	-	-	-	-	2	2	-	-	X	X	-	X	X	-	X	X	-	1
Pluronic (Block Polymer with Hydroxyl by BASF)	Liquid	1	1	1	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Polyester Plastic	-	1	1	-	-	-	-	-	-	-	-	-	2	-	2	-	-	-	-	-	-	-	-	-
Polyethylene Glycol	Colorless Liquid to glassy Solid	1	-	-	-	1	2	-	1	1	1	1	1	1	-	2	2	-	-	-	-	-	-	-
Polyethylene Plastic	Solid Beads	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polypropylene Glycol	Liquid	1	1	-	1	1	1	-	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-
Polypropylene Plastic	Solid Beads	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polystyrene Plastic	Solid Beads	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polyurethane Foam (Under 125°F/52°C)	-	1	1	-	-	2	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-
Polyvinyl Acetate - Emulsions	Emulsion	1	-	-	1	1	1	-	1	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-
Potash (Potassium Carbonate) Aqueous Solution	Liquid	1	1	-	1	1	-	1	1	1	1	1	1	1	-	1	1	2	1	1	-	X	1	-
Potassium Acetate	White Powder	1	1	-	-	2	2	2	2	2	2	X	2	1	-	1	-	1	1	-	-	-	-	1
Potassium Bicarbonate	Colorless crystal or white Powder	1	1	-	-	1	1	1	1	1	1	1	1	1	-	1	1	-	-	-	-	-	-	-
Potassium Bisulfate	Colorless crystal	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	-	1	-	-	-	-	-	-
Potassium Bromate	White Crystal or Powder	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Potassium Bromide	White Crystals or Powder	1	1	-	-	1	1	1	1	1	1	1	1	1	-	1	1	-	-	-	-	-	-	-
Potassium Carbonate	White granular Powder	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	-	X	1	-
Potassium Carbonate, Liquid	Colorless to Cloudy Liquid	1	1	-	1	1	1	1	1	1	1	1	1	1	-	1	1	2	1	1	-	X	1	-
Potassium Chlorate	Colorless to white Powder	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-
Potassium Chloride	Colorless to white Solid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-
Potassium Chloride, Dry	White Solid	1	1	-	1	1	1	1	1	1	1	1	1	1	-	1	1	-	-	-	-	-	-	-
Potassium Chromate	Yellow Crystal	1	2	-	-	2	X	X	X	2	2	1	2	1	2	1	-	-	-	-	-	-	-	1
Potassium Cuprocyanide	White Crystalline Solid	1	-	-	-	1	1	1	1	1	1	1	1	1	-	2	1	-	-	-	-	-	-	1
Potassium Cyanide	White Crystal	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Chemical	Form (at room temperature unless otherwise stated)	Gates Hose / Polymers														Couplings / Adapters				
		Stallion <sup>®</sup> Mustang <sup>®</sup> Renegade <sup>™</sup>	Food & Bev. Mstr.												Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum Brass	Polypropylene	
		T	K	L	S	P	C	D	D	A	H	V	M	J						Z
CONTACT DENVER PRODUCT APPLICATION																				
Potassium Dichromate	White Crystalline Powder	1	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	-	-	-
Potassium Ferrocyanide	Yellow Crystal or Powder	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Potassium Fluoride	White Crystalline Powder	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Potassium Hydrate	White Solid	1	-	-	-	2	2	2	2	2	2	1	X	1	-	2	2	-	-	-
Potassium Hydroxide (45% Caustic Potash)	Colorless to Cloudy Liquid	1	1	1	1	2	2	2	2	2	1	2	-	1	1	1	-	-	-	
Potassium Hydroxide, Liquid	Colorless to Cloudy Liquid	1	1	-	-	1	2	2	2	2	1	X	2	-	X	X	-	-	-	
Potassium Iodide	White Solid	1	-	-	-	1	1	-	-	1	-	1	1	-	-	1	-	-	-	
Potassium Nitrate	Colorless to white Solid	1	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	
Potassium Permanganate	Dark purple Crystal	1	1	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	
Potassium Persulfate	White Crystal	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	
Potassium Phosphate	Colorless to white Crystal	1	-	-	-	1	-	-	-	1	-	1	1	-	-	-	-	-	-	
Potassium Silicate, Other Than Dry	-	1	1	-	-	1	1	2	-	1	-	1	-	-	-	-	-	-	-	
Potassium Sulfate	White Crystal or Powder	1	-	-	1	-	-	-	-	-	-	-	-	1	1	1	-	-	-	
Potassium Sulfide	Red or yellow Crystal or Solid	1	1	-	-	1	1	-	-	1	1	1	2	-	-	-	-	-	-	
Potassium Sulfite	White Crystal or Powder	1	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	
Potassium Thiosulfate	Colorless crystal	1	-	-	-	1	-	-	-	1	-	1	1	-	-	1	-	-	-	
Primatol A, S, P (Ag Spray)	Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Propane Gas	Colorless Gas															-	-	-	-	-
Propanediol	Colorless Liquid	1	1	1	-	1	1	-	-	X	1	1	2	-	-	-	-	-	-	
Propanol (Propyl Alcohol)	Colorless Liquid	1	1	1	1	1	-	-	-	-	1	1	1	-	1	1	2	-	-	
Propionic Acid	Colorless Oily Liquid	1	1	1	1	2	X	2	2	X	2	1	2	-	-	-	1	1	-	
Propyl Acetate	Colorless Liquid	1	1	1	1	-	-	-	-	-	-	X	-	2	-	-	-	-	-	
Propyl Alcohol (Propanol)	Colorless Liquid	1	1	1	1	1	1	-	-	-	1	1	1	-	1	1	2	-	-	
Propyl Aldehyde	White-water Liquid	1	-	-	-	X	-	X	-	X	-	2	X	X	-	-	-	-	-	
Propyl Chloride	Colorless Liquid	1	-	-	-	X	-	X	-	X	2	X	-	-	-	-	-	-	-	
Propylene	Colorless Gas	1	-	-	-	X	X	X	X	X	X	1	X	-	-	-	-	-	-	
Propylene Diamine	Colorless Liquid	1	-	-	-	2	-	2	-	2	-	X	-	-	-	-	-	-	-	
Propylene Dichloride (Dichloropropane)	Colorless Liquid	1	-	-	-	X	X	X	X	X	X	2	X	-	-	-	-	-	-	
Propylene Glycol	Liquid	1	1	-	1	1	1	1	1	1	1	1	1	1	2	1	-	-	-	
Propylene Oxide	Colorless Liquid	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
Purina Insecticide	-	1	1	-	-	2	X	-	-	X	2	2	-	-	2	-	1	1	1	
Puropale RX Oils	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	1	2	1	1	1	
Pydraul 10E, 29E-LT, 30E, 60, 65E, 115SE	Liquid	1	1	-	-	2	X	-	-	-	2	-	-	2	-	X	1	1	1	
Pydraul 135	Liquid	1	1	-	-	X	-	-	-	2	1	-	-	2	2	-	1	1	1	
Pydraul 150	Liquid	1	1	-	-	2	X	X	X	X	2	1	X	2	2	X	1	1	1	
Pydraul 280	Liquid	1	1	-	-	2	X	X	X	X	2	2	X	2	2	X	1	1	1	
Pydraul 312	Liquid	1	1	-	2	X	X	X	X	X	X	1	-	2	1	X	1	1	1	
Pydraul 50E	Liquid	1	1	-	-	2	-	-	-	-	2	2	-	2	1	X	-	-	-	
Pydraul 540	Liquid	1	1	-	-	X	X	X	X	X	X	1	X	2	X	X	1	1	1	
Pydraul 625	Liquid	1	1	-	-	2	X	X	X	X	2	1	X	2	2	X	1	1	1	
Pydraul A-200	Liquid	1	1	-	-	X	X	X	X	X	X	1	X	2	2	X	1	1	1	
Pydraul F-9	Liquid	1	2	-	-	2	X	X	X	X	2	1	X	2	2	-	1	1	1	
Pyrene (Carbon Tetrachloride)	Colorless Liquid	1	2	X	X	X	X	X	X	X	1	X	2	1	X	X	2	2	X	
Pyrethrum	Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	
Pyridine (50%)	-	1	2	-	2	-	-	-	-	X	-	X	X	-	-	X	-	1	1	
Pyrogard 160, 230, 630	Liquid	1	1	-	-	-	-	-	-	-	-	2	-	-	-	-	1	1	1	
Pyrogard 51, 53, 55	Liquid	1	1	-	-	2	X	-	-	-	2	-	-	-	-	-	1	1	1	
Pyrogard C, D	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	1	2	1	1	1	
Pyronal (Transformer Oil)	Liquid	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Chemical	Form (at room temperature unless otherwise stated)	Gates Hose / Polymers														Couplings / Adapters											
		Stallion <sup>®</sup> Mustang <sup>®</sup> Renegade <sup>™</sup>				Food & Bev. Mstr.												Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene				
		T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G											
Quenching Oil Quintolubric 822	Liquid Liquid	1	-	-	-	-	2	-	-	2	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	-	-
Ramrod (Ag Spray)	-	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	1	1	1	1	1	-
Rando Oils	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	1	-	-	-	-	-	1	1	1	1	1	1	-
Rape Seed Oil	Brownish to yellow Liquid	1	1	-	2	2	-	-	-	-	2	-	X	-	2	-	2	-	-	-	1	1	1	1	1	1	-
Red Oil (Commercial Oleic Acid) (MIL-5606)	Liquid	1	2	2	2	2	1	X	X	2	2	2	X	2	1	2	2	2	1	2	2	2	1	1	2	1	
Refined Wax (Petroleum)	-	1	1	-	-	-	1	X	X	2	-	1	-	-	1	-	-	-	-	-	1	1	1	-	-	1	-
Regal Oils R&O	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	1	2	1	1	1	1	1	1	1	1	1	1	-
Richfield "A" Weed Killer	-	1	1	-	-	X	2	X	X	X	X	2	X	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Road Paving Compound	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Road Tar	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rubilene Oils	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-
S																											
Salicylic Acid	White Powder	1	1	1	1	2	X	2	2	-	2	2	-	-	1	1	-	1	1	-	1	1	1	2	-	-	-
Salt Water (Sea Water)	Liquid	1	1	-	1	1	2	2	X	2	1	1	2	-	1	1	2	2	1	1	2	1	1	1	-	2	-
Sauerkraut	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Sea Water	Colorless Liquid	1	1	-	1	1	2	2	X	2	1	1	2	-	1	1	2	2	1	1	2	1	1	1	-	2	-
Sevin	-	1	2	-	-	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Sewage	Sludge	1	1	1	1	1	2	2	X	2	-	-	2	1	1	2	X	1	1	2	1	1	1	2	1	-	-
Shampoo	Liquid	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shellac	Orange to colorless flake	1	-	X	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Shortening	-	1	-	-	-	X	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silicate of Soda	Brownish or yellow Liquid	1	1	-	-	1	1	-	1	1	1	-	1	1	1	-	1	1	1	-	-	-	-	-	-	-	-
Silicone Greases	Liquid	1	2	-	-	-	2	-	-	2	-	2	2	-	1	2	1	1	1	-	1	1	1	-	1	-	-
Silicone Oils	Liquid	1	2	-	-	-	2	-	-	2	-	2	2	-	1	2	1	1	1	-	1	1	1	-	1	-	-
Silver Cyanide	White Powder	1	1	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Silver Nitrate	Colorless crystal	1	1	-	-	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	2	2	1	1	1	2	-
Skydrol 500A & 7000	Liquid	1	1	-	1	1	X	X	X	X	2	X	X	2	1	X	1	1	1	1	1	1	1	1	1	-	-
Soap Oil	Liquid	1	1	2	-	-	X	-	-	X	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Soap Solutions	Liquid	1	1	1	-	1	1	X	X	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-
Soap, Liquid	Liquid	1	1	-	-	1	1	2	2	1	2	1	1	-	2	2	1	1	1	1	1	1	1	1	-	-	-
Soda Ash (Sodium Carbonate)	Grayish Powder	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	X	2	1
Soda Water	Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-
Sodium Acetate	Colorless crystal	1	1	-	-	2	X	2	2	X	2	X	X	1	1	1	1	1	1	1	1	1	1	1	1	1	-
Sodium Aluminate Solution	Colorless to cloudy Liquid	1	1	-	-	1	1	2	2	1	1	1	1	-	2	2	-	-	-	-	-	-	-	-	-	-	-
Sodium Benzoate	White Crystals or Powder	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Sodium Bicarbonate	White Crystal or Powder	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	-
Sodium Bichromate Solution	Red to clear Liquid	1	1	-	-	1	2	2	2	2	1	1	2	-	2	2	-	-	-	-	-	-	-	-	-	-	-
Sodium Bisulfate (Niter Cake)	Colorless Crystals to White Lumps	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	X	1	1	X
Sodium Bisulfite	White Crystals or Powder	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-
Sodium Borate (Borax)	White Crystals	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	-
Sodium Carbonate (Soda Ash)	Grayish Powder	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-
Sodium Chlorate	Colorless Crystals	1	-	-	-	1	1	1	1	2	2	1	1	-	1	1	-	-	-	-	-	-	-	-	-	-	1
Sodium Chloride	Colorless to white Crystals	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	X

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Contact Denver Product Application for recommendations for chemicals not listed. Phone (303) 744-5070  <b>1 = Preferred - Constant Contact</b> <b>2 = Acceptable - Intermittent</b> <b>Contact</b> <b>X = Not Recommended</b> <b>- = No Data</b>  <b>NOTE: Ratings are for the effect</b> <b>on the <i>polymer</i> only!</b>		Gates Hose / Polymers															Couplings / Adapters						
		Stallion®	Mustang®	Renegade™	Food & Bev. Mstr.												Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene	
		T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G							
		Form (at room temperature unless otherwise stated)		Teflon®/Neoflon®	Gaion™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Neoprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC					
Sodium Chlorite Solution	Colorless to cloudy Liquid	2	-	-	-	X	X	2	2	X	2	X	2	-	X	2	-	-	-	-	-	-	-
Sodium Chromate	Yellow, translucent Crystals	1	-	-	-	-	1	2	2	1	2	1	X	-	2	2	-	-	-	-	-	-	-
Sodium Cyanide	In Water	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	2	1	1	X	X	-	-
Sodium Cyanide	White Crystalline Powder	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	2	1	1	X	X	-	-
Sodium Dichromate	Red to red-orange Crystals	1	-	-	-	1	1	2	2	2	1	1	2	1	-	1	-	-	-	-	-	-	1
Sodium Ferricyanide	Ruby-red Crystals	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
Sodium Ferrocyanide	Yellow, transparent Crystals	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
Sodium Fluoride (70%)	White Liquid	1	1	1	-	2	-	2	2	-	2	-	-	-	-	1	-	2	-	-	-	-	-
Sodium Hydrate	White Solid	1	2	-	-	1	2	2	2	2	2	2	2	-	2	2	-	-	-	-	-	-	-
Sodium Hydrochlorite	Pale greenish Liquid	1	2	-	-	2	X	2	X	X	2	1	1	-	2	2	-	-	-	-	-	-	-
Sodium Hydrosulfide	Colorless needles	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Sodium Hydrosulfite	Lemon colored Powder or flake	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
Sodium Hydroxide (10%)	Colorless Liquid	1	1	1	1	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-
Sodium Hydroxide (40%)	Colorless Liquid	1	1	1	1	2	2	1	1	1	2	1	1	1	X	-	2	1	1	X	X	-	-
Sodium Hydroxide (50%) (Under 212°F/100°C)	Colorless Liquid	1	1	2	1	2	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
Sodium Hydroxide (50%) (Under 115°F/46°C)	Colorless Liquid	1	1	2	1	2	X	1	1	2	1	X	1	1	X	-	2	2	2	X	X	-	-
Sodium Hydroxide (50%) (Under 180°F/82°C)	Colorless Liquid	1	1	2	1	2	X	X	X	2	2	X	2	1	X	-	X	2	2	X	X	-	-
Sodium Hydroxide (60%)	White Liquid	1	2	1	-	2	X	2	2	2	2	X	2	1	X	-	X	2	2	X	X	-	-
Sodium Hydroxide (25%)	Colorless Liquid	1	1	1	1	2	2	1	1	1	2	1	1	X	-	-	X	X	2	X	X	-	-
Sodium Hypochlorite (20%)	White Liquid	1	2	1	-	1	X	X	X	X	-	X	1	1	2	1	X	X	2	X	X	-	-
Sodium Hypochlorite (5%)	White Liquid	1	2	1	-	1	X	X	X	-	-	1	1	1	1	1	X	X	2	X	X	-	-
Sodium Hyposulfate	Large, transparent Crystals	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Sodium Metallic	Silver Solid	2	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Metaphosphate	Colorless Crystals to white Powder	1	1	-	-	2	2	2	2	2	2	2	2	1	1	1	X	1	1	1	X	-	-
Sodium Nitrate	Colorless crystal	1	1	-	-	2	X	X	X	X	2	-	2	1	1	1	1	2	2	2	2	-	-
Sodium Perborate	White, amorphous Powder	1	1	-	-	2	X	X	X	X	2	-	X	-	2	-	X	1	1	1	X	-	-
Sodium Peroxide	Yellowish white Powder	1	1	2	-	-	-	-	-	1	1	1	1	2	X	1	X	1	1	1	X	-	-
Sodium Phosphate	Colorless Crystals to white Powder	1	1	-	-	2	-	2	2	X	2	-	-	1	1	1	-	1	1	X	X	-	-
Sodium Silicate	Lumps of greenish glass	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	1
Sodium Sulfate	White Crystals or Powder	1	1	-	-	1	1	2	2	1	1	1	1	1	1	1	-	-	-	-	-	-	1
Sodium Sulfate Decahydrate (Glauber's Salt)	Crystals or Powder	1	-	-	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Sulphydrate	Colorless to cloudy Liquid	1	2	-	-	1	2	X	2	2	2	2	2	-	2	2	-	-	-	-	-	-	-
Sodium Sulfide	Yellow/Brick red flakes or Crystals	1	1	-	-	1	1	2	2	1	1	1	1	1	1	1	-	-	-	-	-	-	1
Sodium Sulfide Solution	Colorless to cloudy Liquid	1	2	-	-	1	2	-	2	2	1	2	2	-	X	-	-	-	-	-	-	-	1
Sodium Sulfite	White Crystals or Powder	1	1	-	-	2	2	2	2	2	2	-	2	1	1	1	1	1	1	1	-	-	-
Sodium Sulfite Solution	Colorless to cloudy Liquid	1	2	-	-	1	2	-	2	2	1	2	2	-	X	-	1	1	1	-	-	-	-
Sodium Sulphydrate	Colorless needles	1	2	-	-	1	2	-	-	2	1	2	2	-	2	2	-	-	-	-	-	-	-
Sodium Thiocyanate Solution	Colorless to cloudy Liquid	1	1	-	-	1	1	2	-	1	2	1	2	-	-	-	-	-	-	-	-	-	-
Sodium Thiosulfate (HPO)	White Powder	1	1	-	-	1	1	1	1	1	1	-	1	1	1	1	X	1	1	2	X	-	-
Sodium Tripolyphosphate (STPP)	White Powder	1	2	-	-	-	-	-	-	2	X	-	-	-	-	-	-	-	-	-	-	-	-
Solnus Oils	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	1	1	1	1	1	1	1	-	-
Sour Crude Oil	Liquid	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-
Soybean Oil	Pale yellow oil	1	1	1	2	X	2	X	X	2	2	1	2	-	1	2	1	1	1	-	-	-	-
Spent Acid	Liquid	1	2	2	X	X	X	X	X	X	X	1	2	X	X	X	-	1	1	-	-	-	-
Stannic Chloride	Colorless, fuming Liquid	1	1	-	-	-	2	2	2	X	X	1	X	1	X	2	X	-	-	-	-	-	X
Stannic Sulfide	Yellow to brown Powder	1	2	-	-	-	2	-	2	-	2	-	2	-	-	-	-	-	-	-	-	-	-
Stannous Chloride (Under 150°F)	White Mass	1	1	-	-	2	1	1	1	1	1	1	1	1	X	1	-	-	-	-	-	-	1
Starch	White amorphous Powder	1	1	-	-	1	2	1	1	2	-	-	1	1	1	1	-	-	-	-	-	-	-
Starch gum (Dextrin)	Yellow or White Powder	1	1	-	-	1	1	-	-	1	X	1	-	-	1	1	-	1	1	-	-	-	1
Stauffer Jet 1	Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	-	-
Stauffer Jet 2	Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	-	-

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Chemical	Form (at room temperature unless otherwise stated)	Gates Hose / Polymers														Couplings / Adapters					
																Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
		Stallion® Mustang® Renegade™	Food & Bev. Mstr.																		
T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G							
<b>USE STEAM HOSE ONLY</b>																					
Steam	Gas	1	1	1	1	2	2	2	2	2	2	1	2	1	1	1					
Stearic Acid (Octadecanoic Acid)	Colorless Waxy Solid	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-		
Stearin	Colorless crystal or Powder	1	2	-	2	X	2	X	X	-	X	1	-	1	1	2	2	1	1		
Stoddard Solvent	Clear petroleum distillate	1	2	-	2	X	2	X	X	-	X	1	-	1	1	2	2	1	1		
STPP (Sodium Tripolyphosphate)	White Powder	1	2	-	-	2	-	2	2	-	2	X	-	-	-	-	-	2	1		
Straight Synthetic Oils	Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-		
Styrene (Monomer)	Colorless Oily Liquid	1	2	-	X	X	X	X	X	-	X	2	-	2	2	-	2	X	2		
Sucrose Solutions	Liquid	1	1	-	1	-	1	1	1	1	1	-	1	-	-	-	1	1	1		
Sugar, Liquid, Blended	Liquid	1	1	-	1	1	1	1	1	1	1	1	2	-	-	-	-	-	-		
Sugar, Syrup	Liquid	1	1	-	1	1	1	1	1	1	1	1	2	-	-	-	-	-	-		
Sulfamic Acid	In Water	1	1	1	1	2	X	X	X	-	2	1	2	1	X	X	-	-	-		
Sulfamic Acid (10%) (Under 170°F/77°C)	Colorless Liquid	1	X	-	-	-	-	X	X	-	2	2	1	-	-	-	-	-	-		
Sulfate Liquors (Under 150°F/66°C)	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1		
Sulfur (Under 200°F/93°C)	Yellow Crystals	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Sulfur Chloride	Yellow Oily Liquid	1	2	-	-	X	X	X	X	X	X	1	2	-	2	2	X	X	2		
Sulfur Dioxide	Colorless Gas or Liquid	-	-	-	1	2	X	X	-	-	2	X	-	-	-	-	-	-	-		
Sulfur Dioxide (Dry)	-	1	2	-	-	2	X	X	X	X	X	1	2	-	X	1	2	1	1		
Sulfur Dioxide (Liquid)	Colorless Liquid	1	-	1	-	1	X	X	X	2	2	X	2	-	-	X	-	-	-		
Sulfur Dioxide (Moist)	-	1	-	1	-	1	X	X	X	2	1	2	2	-	-	X	-	-	-		
Sulfur Hexafluoride (Gas)	Colorless Gas	1	1	-	-	1	2	2	2	1	1	2	2	-	1	2	-	-	-		
Sulfur Trioxide (Dry)	Solid	1	2	-	-	2	X	X	X	X	X	1	X	X	-	1	2	2	2		
Sulfuric Acid (10%)	Colorless Water Solution	1	1	1	1	1	2	1	1	1	1	1	1	1	X	-	-	X	X		
Sulfuric Acid (100%)	Colorless Liquid	1	X	X	X	X	X	X	X	X	X	2	X	X	X	-	2	X	2		
Sulfuric Acid (30%)	Colorless Water Solution	1	1	1	1	1	2	2	2	1	1	1	1	1	X	-	X	X			
Sulfuric Acid (50%)	Colorless Water Solution	1	1	1	1	1	X	X	X	2	1	1	1	1	X	-	X	X			
Sulfuric Acid (60%) (48.5 deg Baume)	Colorless Liquid	1	1	1	1	1	X	X	X	X	1	1	1	1	X	-	X	X			
Sulfuric Acid (75%)	Colorless to Brown Solution	1	1	1	1	2	X	X	X	X	2	1	2	2	X	-	X	X			
Sulfuric Acid (88%) (64.7 deg Baume)	Colorless Liquid	1	2	1	2	X	X	X	X	X	X	1	X	X	X	-	X	X			
Sulfuric Acid (93%)	Colorless to Brown Oily Liquid	1	X	1	2	X	X	X	X	X	X	1	X	X	X	-	X	X			
Sulfuric Acid (96%)	Colorless Liquid	1	X	1	2	X	X	X	X	X	X	1	X	X	X	-	X	X			
Sulfuric Acid (98%)	Colorless to Brown Oily Liquid	1	X	1	2	X	X	X	X	X	X	1	X	X	X	-	X	X			
Sulfuric Acid, Fuming (Oleum)	Colorless to Dark Brown Oily Liquid	1	X	X	X	X	X	X	X	X	X	1	X	X	X	X	-	-	1		
Sulfurous Acid (10%)	Colorless Liquid	1	1	1	1	1	X	X	X	-	2	1	1	1	-	1	-	X	2		
Sulfurous Acid (75%)	Colorless Liquid	1	1	1	1	1	X	X	X	X	X	1	1	1	1	X	-	X	2		
Sun R&O Oils	Liquid	1	1	-	-	X	1	-	-	-	X	1	-	-	1	2	1	1			
Suntac HP Oils	Liquid	1	1	-	-	X	1	-	-	-	X	1	-	-	1	2	1	1			
Suntac WR Oils	Liquid	1	1	-	-	X	1	-	-	-	X	1	-	-	1	2	1	1			
Sunvis Oils 700, 800, 900	Liquid	1	1	-	X	X	1	-	-	-	X	1	-	-	1	2	1	1			
Synthetic Oil (Citgo)	Liquid	1	1	-	-	X	-	-	-	-	X	-	-	-	1	2	1	1			
Syrup	Viscous Liquid	1	1	-	1	-	-	1	1	2	-	1	-	-	-	-	-	1	1		
<b>T</b>																					
Tall Oil	Black liquid	1	2	-	X	X	1	X	X	X	X	2	X	-	-	X	-	X	2		
Tall Oil (Under 150°F/66°C)	Liquid	1	1	-	2	X	2	X	X	2	X	1	X	-	-	-	-	X	2		
Tallow	White to clear Solid or Liquid	1	1	-	2	2	2	-	2	2	2	-	-	-	1	2	2	2			
Tannic Acid	Faint Yellow Powder	1	1	1	1	1	X	2	2	2	1	1	2	1	1	1	2	1	1		
Tannic Acid (10%)	Yellow Liquid	1	1	-	-	-	X	2	2	2	X	1	2	1	1	1	2	1	1		
Tar (Bituminous) (Under 100°F/38°C)	-	1	1	2	X	X	2	X	X	2	X	1	-	X	-	-	1	1			
Tar Oil	Yellow to dark brown Liquid	1	-	-	X	-	-	-	-	-	-	-	-	-	1	2	-	-	-		
Tartaric Acid	White Crystalline Powder	1	1	1	1	1	2	2	2	2	1	1	1	1	-	-	-	2	2		
TEA (Triethanolamine)	Colorless Viscous Liquid	1	1	-	-	1	2	2	2	2	2	X	2	1	-	2	-	1	1		

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Contact Denver Product Application for recommendations for chemicals not listed. Phone (303) 744-5070  1 = Preferred - Constant Contact 2 = Acceptable - Intermittent Contact X = Not Recommended - = No Data  <b>NOTE: Ratings are for the effect on the <i>polymer only!</i></b>  <b>Chemical</b>	<b>Form</b> (at room temperature unless otherwise stated)	Gates Hose / Polymers																	Couplings / Adapters				
		Stallion®	Mustang®	Renegade™	Food & Bev. Mstr.													Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
		T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G							
		Teflon®/Neoflon®	Gaion™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Neoprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC							
TEL (Tetraethyl Lead)	Colorless Oily Liquid	1	2	-	-	X	2	X	X	X	X	1	X	-	2	1	-	-	-	-	-	-	-
Tellus Oils	Liquid	1	1	-	-	X	1	-	-	-	X	1	-	-	1	2	1	1	1	1	1	1	-
Tenol Oils	Liquid	1	1	-	-	X	1	-	-	-	X	1	-	-	1	2	1	1	1	1	-	-	-
Tergitol (Ethoxylates and Ethoxysulfates of Alcohol)	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	-	2	-	-
Terpineol	Colorless Liquid or Crystal	1	1	-	-	-	-	X	X	-	X	-	2	1	2	2	-	-	-	-	-	-	-
Tertiary Butyl Alcohol	Colorless Liquid or Crystal	1	2	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobenzene	White Crystal	1	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane (Acetylene Tetrachloride)	Colorless Liquid	1	X	X	X	X	-	X	X	-	X	1	X	X	1	X	-	-	-	-	-	-	-
Tetrachloroethylene	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Tetrachloromethane	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Tetrachloronaphthalene	Oily Liquid to Crystalline Solid	1	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Tetradecanol	White Solid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetraethyl Lead (TEL)	Colorless Oily Liquid	1	2	-	-	X	2	X	X	X	X	1	X	-	2	1	-	-	-	-	-	-	-
Tetraethylene Glycol	Colorless Liquid	1	2	-	-	-	2	-	2	-	1	2	2	-	-	-	-	-	-	-	-	-	-
Tetrahydrofuran (THF)	Colorless Liquid	1	X	-	-	2	X	X	X	X	2	1	X	-	1	X	2	-	-	-	-	-	X
Tetrahydroxydicyclopentadiene (JP 10) <sup>2</sup>	-	-	-	-	X	X	X	X	X	X	X	1	X	-	1	X	-	-	-	-	-	-	-
Tetralin	Colorless Liquid	1	-	-	X	X	X	X	X	X	X	1	X	-	2	-	-	-	-	-	-	-	X
Theobromo Oil (Cocoa Butter)	Liquid above 95°F (35°C)	1	1	2	2	-	2	X	X	2	-	-	-	-	-	-	1	1	1	-	-	-	-
THF (Tetrahydrofuran)	Colorless Liquid	1	X	-	-	2	X	X	X	X	2	1	X	-	1	X	2	-	-	-	-	-	X
Thiopen	-	1	-	-	-	X	X	X	X	X	2	2	-	-	-	-	-	-	-	-	-	-	-
Tin Tetrachloride	Colorless Liquid	1	-	-	-	X	2	-	2	X	-	-	2	-	-	-	-	-	-	-	-	-	-
Titanium Tetrachloride	Colorless Liquid	1	-	-	-	X	X	-	X	X	2	-	-	-	-	-	1	2	2	X	X	-	-
Toluene (Toluol) (Methyl Benzene)	Colorless Liquid	1	2	2	X	X	X	X	X	X	X	1	X	X	1	X	1	1	1	1	1	1	-
Toluene Diisocyanate (Hylene)	Yellow Liquid	1	-	-	-	2	X	X	X	X	2	X	X	-	-	-	-	-	-	-	-	-	-
Toluene Diisocyanate (Isocyanate)	Water White to Yellow Liquid	1	2	-	X	X	X	X	X	X	X	1	-	-	-	-	1	1	1	-	-	-	-
Toluidine	Yellow Liquid or White Crystal	1	-	-	-	X	-	X	-	X	2	X	-	-	-	-	-	-	-	-	-	-	-
Toluol (Toluene)	Colorless Liquid	1	2	2	X	X	X	X	X	X	X	1	X	X	1	X	1	1	1	1	1	1	-
Transformer Oil (Askarel Types) <sup>1</sup>	Liquid	1	2	2	X	X	X	X	X	X	X	1	X	1	1	X	1	1	1	-	1	2	-
Transformer Oil (Petroleum Type) <sup>1</sup>	Liquid	1	1	-	-	X	1	X	X	2	X	1	X	1	1	2	1	1	1	1	1	1	-
Transmission Fluid (Type A)	Liquid	1	1	-	-	X	1	X	X	2	X	1	-	1	2	-	1	1	1	-	1	1	-
Tributoxyethyl Phosphate	Yellow Liquid	1	1	X	-	2	X	X	X	-	2	-	X	X	2	-	1	-	-	X	-	-	-
Tributyl Phosphate	Colorless Liquid	1	1	X	-	X	X	X	X	X	X	1	X	2	-	-	1	-	-	X	-	-	-
Tricalcium Aluminate (Calcium Aluminate)	Crystals or Powder	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobenzene	White Crystal or colorless Liquid	1	2	-	-	-	X	X	X	X	X	2	X	-	-	-	-	-	-	-	-	-	-
Trichloroethane 1,1,1 (Methyl Chloroform)	Colorless Liquid	1	X	-	X	X	X	X	X	X	X	1	X	X	X	X	-	-	-	-	-	-	-
Trichloroethylene	Colorless Liquid	1	1	X	X	X	X	X	X	X	X	1	X	2	2	-	X	-	1	X	1	-	-
Trichloropropane	Colorless Liquid	1	-	-	-	-	2	-	X	2	X	1	X	-	-	-	-	-	-	-	-	-	-
Tricresyl Phosphate	Colorless Liquid	1	-	X	-	1	X	X	X	X	2	1	X	1	1	-	1	-	2	X	-	-	-
Triethanolamine (TEA)	Colorless Viscous Liquid	1	1	-	-	1	2	2	2	2	2	X	2	1	-	2	-	1	1	-	1	-	-
Triethylamine	Colorless Liquid	1	-	-	-	2	2	X	X	-	X	2	-	-	-	-	-	-	-	-	-	-	-
Triethylene Glycol	Colorless Liquid	1	-	-	-	2	-	2	-	2	2	2	-	-	-	-	-	-	-	-	-	-	-
Trihydroxybenzoic Acid (Gallic Acid)	In Alcohol or Glycerol	1	1	1	1	1	X	2	2	X	2	1	-	1	X	X	X	1	1	-	-	-	1
Trimethyl Phosphite	Colorless Liquid	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene (Mesitylene)	Liquid	1	-	-	X	X	X	X	X	X	X	1	-	-	1	X	-	-	-	-	-	-	-
Trinitrophenol (Picric Acid)	Yellow Crystals	1	2	2	2	2	2	2	2	2	2	1	2	-	X	1	X	1	1	X	X	1	1
Trioctyl Phosphate	Liquid	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triphenyl Phosphate	Colorless Powder	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tripolyphosphate (STPP), (Sodium)	White Powder	1	2	-	-	2	-	2	2	-	2	X	-	-	-	-	-	2	1	X	X	-	-
Trisodium Phosphate (TSP)	Colorless crystal	1	-	-	-	1	2	2	X	2	2	1	X	-	-	-	-	-	-	-	-	-	-
Tung Oil	Yellow drying oil	1	2	-	X	X	2	X	X	X	X	1	2	-	-	2	1	1	1	1	1	1	-

<sup>1</sup> Petroleum hose only.

<sup>2</sup>Aircraft fueling hose only for fueling operations.

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.





# Industrial Hose Products

39496-000  
July 30, 2009  
Supersedes 39496-000  
July 30, 2007

Chemical	Form (at room temperature unless otherwise stated)	Gates Hose / Polymers														Couplings / Adapters						
		Stallion® Mustang® Renegade™			Food & Bev. Mstr.											Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene	
		T	K	L	S	P	C	D	D	A	H	V	M	J	Z							G
Turpentine	Liquid oil	1	X	1	X	X	2	X	X	X	X	1	X	2	1	1	-	1	1	1	2	-
<b>U</b>																						
Ucon Hydrolube Types 150CP, 200CP	Liquid	1	1	-	-	1	1	-	-	-	1	-	-	-	1	2	1	1	1	1	1	-
Ucon Hydrolube Types 275CP, 300CP, 550CP	Liquid	1	-	-	-	-	1	X	X	-	X	1	-	-	2	2	-	-	-	-	-	-
Ucon M1	Liquid	1	1	-	-	1	1	-	-	-	1	-	-	-	1	2	1	1	1	1	1	-
Undecanol (Undecyl Alcohol)	Colorless Liquid	1	-	-	-	-	1	-	2	-	-	2	2	-	-	-	-	-	-	-	-	-
Undecyl Alcohol (Undecanol)	Colorless Liquid	1	-	-	-	-	1	-	2	-	-	2	2	-	-	-	-	-	-	-	-	-
Union Hydraulic Tractor Fluid	Brown Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	1	2	1	1	1	1	1	-
Urea Solution (100%)	Liquid	1	1	-	1	-	2	1	1	1	2	-	1	1	1	2	1	1	1	-	-	-
<b>V</b>																						
Varnish	-	1	2	-	X	X	X	X	X	X	X	2	X	-	1	-	2	1	1	-	2	-
Vegetable Oils	Liquids	1	-	1	2	2	-	X	X	2	X	-	1	1	1	2	1	1	1	1	-	-
Versilube F-50, F-44	Liquid	1	-	-	-	2	2	2	2	2	2	1	2	-	1	2	1	1	1	1	1	-
Vinegar	Brownish to colorless Liquid	1	1	-	1	-	2	2	2	2	2	1	X	2	-	1	X	2	1	X	X	-
Vinyl Acetate	Colorless Liquid	1	1	X	2	X	X	X	X	X	2	X	X	1	-	-	-	1	2	1	2	-
Vinyl Chloride (Monomer)	-	1	2	-	-	X	X	X	X	X	X	2	X	X	-	X	2	1	1	1	X	-
Vinyl Fluoride	Colorless Gas	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Vinyl Trichloride (Trichloroethane)	Colorless Liquid	1	-	-	X	X	X	X	X	X	X	1	X	X	X	X	-	-	-	-	-	-
Vitrea Oils	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	1	2	1	1	1	-	-	-
VM&P Naptha (Mineral Spirits)	Colorless Liquid	1	1	-	X	X	1	X	X	-	X	1	X	-	1	-	1	1	1	2	1	-
<b>W</b>																						
Waste Paint	Liquid to semi-Solid paste	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water	Liquid	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	2	1	1	1	1	-
Water (Brine)	Liquid	1	1	-	1	1	2	1	1	2	1	1	1	-	1	1	-	-	-	-	-	1
Water (Deionized)	Liquid	1	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Water (Distilled)	Liquid	1	1	1	1	1	1	1	1	2	1	-	1	-	1	1	-	-	-	-	-	1
Water (Potable)	Liquid	<b>USE FDA HOSE ONLY</b>														-	-	-	-	-	1	
Water Glycols	Liquid	1	1	1	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
Water in Oil Emulsions	Liquid	1	1	1	2	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
White & Bagley No. 2190 Cutting Oil	Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wines	Liquid	1	2	-	1	X	X	X	X	X	X	1	X	1	1	-	2	2	2	1	-	-
Wood Oil	Liquid	1	1	-	-	X	1	X	X	2	X	1	2	1	1	1	-	-	-	-	-	-
<b>X</b>																						
Xylene (Dimethylbenzene)	Colorless Liquid	1	2	X	X	X	X	X	X	X	X	1	X	X	X	X	-	-	-	-	-	-
Xylenol (Dimethylphenol)	White solid, liquid @ 68°F (20°C)	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
<b>Z</b>																						
Zeric	-	1	1	-	-	X	1	-	-	-	X	-	-	-	2	2	-	-	-	-	-	-
Zinc Acetate	White Crystal	1	1	-	-	2	X	2	2	X	2	X	X	-	X	1	1	1	1	1	1	-
Zinc Chloride Solutions	Colorless to cloudy Liquid	1	1	-	1	-	1	2	2	1	2	1	1	1	1	2	X	2	1	X	X	-
Zinc Chromate	Yellow Solid	1	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-	1	1	-	-	-
Zinc Hydrate	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Zinc Oxide	White or gray Powder	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Zinc Sulfate Solutions	Colorless to cloudy Liquid	1	1	-	-	2	2	X	X	2	2	-	2	1	2	2	X	2	1	X	X	-

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



The world's most trusted name in belts, hose and hydraulics.



A Tomkins Company

*The World's Most Trusted Name in Belts, Hose and Hydraulics.*

# GATES INDUSTRIAL

Your Local Distributor:

39496-000  
October 2009

**Gates Corporation**

1551 Wewatta Street | P.O. Box 5887 | Denver, CO 80217-5887

(800) 366-3128 | Fax (303) 744-4499

[www.gates.com/industrialhose](http://www.gates.com/industrialhose)