



smiths

GLOBAL COVERAGE

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Titeflex's proven reputation and successful track record of innovation and quality can be traced to its aerospace roots, which reach back to the earliest days of the space age. Even then, Titeflex was a conscientious developer of products designed to protect our environment. Creating new products and adapting existing materials and quality programs from this market have contributed significantly to our record of success.

Among the markets which we serve are Chemical, Petro-chemical, Pulp and Paper, Heavy Equipment, Refrigeration, Petroleum Equipment, and the rapidly expanding Compressed Natural Gas (CNG) industry.

Applications centering on the most demanding fluid transfer requirements, whether the media be corrosive, caustic or food grade, under extreme pressure, temperature and flexing conditions, are routinely handled and serviced by Titeflex PTFE. Titeflex's history and experience in stringent and demanding hose requirements underscores the background and technical training of our applications engineers. Using our decades of experience and core technology we are able to assimilate some of the most difficult and demanding applications required by modern industry – and accomplish these challenges with a keen sense of protecting and preserving our environment.

Our constant dedication to quality and innovation is reflected in the exceptional level of customer satisfaction which we have attained. All employees are dedicated to achieving total customer satisfaction and our professional customer service teams provide an ideal blending of commercial and technical knowledge and experience. Titeflex is the only company to provide PTFE hose to industrial customers manufactured to the exacting AS-9100 aerospace standard.

In today's world we recognize the critical need to eliminate waste and practice the ultimate safety measures in the use of all materials. Wherever feasible we recycle all materials, from paper and cardboard to chemicals and solvents. Our objective is to minimize waste and eliminate the discharge of pollutants to our air and water. We strive continuously for increasingly efficient production methods and the conservation of materials. We are constantly pursuing additional ways through which we can contribute measurably to the development of sustainable products.

Titeflex's extensive network of stocking and fabrication distributors provides a strong value-added benefit to end users of Titeflex products. Fast turn around, high value, dependable service and superior quality are key elements of Titeflex's history of success.

TITEFLEX WARRANTY

Titeflex warrants its products to be free from any defects of workmanship in material. In case of hose assemblies fabricated by persons other than Titeflex, Titeflex warranty shall be void if the assembly contains components which were not designed, manufactured and/or qualified by Titeflex, Titeflex warranty shall only cover the components of such assemblies manufactured by Titeflex. Should any such defects be discovered within three (3) months from the date of purchase by the end user, the questionable part should be returned to the authorized Titeflex distributor. If, upon inspection, the part proves to be defective, the authorized Titeflex distributor will furnish replacement, or, at its option, repair the part.

This warranty shall not apply to any part or parts of Hose Products if it has been installed, altered, repaired or misused, through negligence or otherwise, in any way that in the opinion of Titeflex affects the reliability of, or detracts from, the performance of the product. Nor does this warranty cover replacements or repairs

necessitated by loss or damage resulting from any cause beyond the control of Titeflex, including but not limited to acts of God, acts of Government, floods and fires.

The obligation of Titeflex and/or its authorized distributor under this warranty is limited to making a replacement part available or the repair of the defective part, and does not include the furnishing of any labor involved or connected therewith, such as that required to diagnose trouble or to remove or install any such product, nor does it include responsibility for any transportation expenses or any damages or losses incurred in transportation in connection therewith.

The forgoing is in lieu of any other warranties, expressed, implied or stationary, and Titeflex neither assumes nor authorizes any distributor or any person to assume for Titeflex any other obligation of liability in connection with the sale of its products.

SMOOTH BORE PTFE MEDIUM PRESSURE HOSE & FITTINGS**4**

	SIZE RANGE (I.D.)	OPERATING PRESSURE
R115 & R122	3/16" thru 1-1/4"	800 to 3,000 psi
R105 & R144	1/4" thru 1"	800 to 3,000 psi

SMOOTH BORE PTFE HIGH PRESSURE HOSE & FITTINGS**8**

	SIZE RANGE (I.D.)	OPERATING PRESSURE
R165	1/4" thru 1-1/2"	4,000 to 5,000 psi

SMOOTH BORE PTFE HIGH PERFORMANCE HOSE & FITTINGS**10**

	SIZE RANGE (I.D.)	OPERATING PRESSURE
R154	1/4" thru 1/2"	6,000 psi
R157	3/16" thru 1"	4,000 psi

CONVOLUTED PTFE HOSE & FITTINGS**12**

	SIZE RANGE (I.D.)	OPERATING PRESSURE
R272 & R276	1/2" thru 2"	500 to 1,000 psi
R285 & R287	1-1/2" thru 2"	500 to 750 psi

SPECIALTY HOSE**16**

Chlorine / Bromide Transfer Hose Assemblies
Compressed Natural Gas (CNG) Flex Hose
Sleeves and Braids

PROTECTIVE HOSE PRODUCTS**20**

Titeflex® Industrial Grade Firesleeve (TIG)
Titeflex® Aerospace Grade Firesleeve (TAG)
Titeflex® Assembly Jacket (TAJ)
Titeflex® Tape (TTP)

THE VALUE OF PTFE HOSE**22****ASSEMBLY PART NUMBERS****23**

R115 / R105 HOSE AND R122 / R144 CONDUCTIVE HOSE



Any application centering on the transfer of fluids or gases under demanding conditions in harsh environments is an opportunity for the user to realize the value of Titeflex.

APPLICATIONS

- Compressed gas
- Fuel and lubricant handling
- Steam transfer
- Hydraulic systems

TEMPERATURE RANGE

- -65°F to 400°F (-54°C to 204°C) for continuous service
- -100°F to 500°F (-73°C to 260°C) for intermittent service

STANDARDS

- Meets or exceeds requirements of SAE 100R14
- PTFE meets FDA 21 CFR 177.1550

HOSE CONSTRUCTION

- Innercore vertically extruded to maintain highest quality of concentricity
- Manufactured from Dupont type 62 fine grade resin or equivalent
- 304 stainless steel wire braid reinforcement
- A precisely controlled amount of carbon black added to the PTFE innercore provides a continuous conductive path to the metal end fittings, to bleed off static electricity in steam or high flow-rate applications

VACUUM SERVICE

- Sizes -4 through -10 are rated for full vacuum
- Larger sizes -12 and above can be reinforced with an internal support spring for full vacuum service

As the innovator in PTFE hose technology, Titeflex has pioneered the production and utilization of smooth bore PTFE hose throughout a wide spectrum of demanding aerospace, automotive and industrial applications. Any application centering on the transfer of fluids or gases under demanding conditions in harsh environments is an opportunity for the user to realize the value of Titeflex.

Titeflex strives to continuously improve product quality. Today, the driving force behind our customers' insistence on Titeflex hose products is our uncompromising commitment to QUALITY, VALUE, RELIABILITY and SAFETY.

As the world's leading producer of PTFE hose, Titeflex utilizes the most modern production and quality processes available to ensure that our customers are totally satisfied the first time, every time.



WARNING: These products can be used to convey hazardous fluids, steam or other dangerous materials which can cause personal injury or property damage. It is important that the user analyze all aspects of each application prior to specifying any product from this catalog. Due to the variety of operating conditions and applications, the user, through personal analysis and testing, is solely responsible for final product selection and meeting performance, safety and warning requirements.

R115 / R105 HOSE AND R122 / R144 CONDUCTIVE HOSE

HOSE SPECIFICATIONS

R115 .030 WALL HOSE / R122 CONDUCTIVE HOSE

HOSE PART NUMBER	NOMINAL SIZE, IN.	AVERAGE I.D.		AVERAGE O.D., IN.	OPERATING PRESSURE PSI AT ROOM TEMP.	BURST PRESSURE PSI AT ROOM TEMP.	MAXIMUM CONTINUOUS LENGTH, FT.	MINIMUM BEND	HOSE WEIGHT LB. / FT.
		IN.	MM						
R115 / R122-3	3/16	.125	3.2	.234	3,000	12,000	200	2.00	.048
R115 / R122-4	1/4	.187	4.8	.312	3,000	12,000	200	2.00	.058
R115 / R122-5	5/16	.250	6.4	.375	3,000	12,000	250	3.00	.078
R115 / R122-6	3/8	.312	7.9	.445	2,500	10,000	150	4.00	.098
R115 / R122-6T*	3/8	.375	9.5	.503	2,250	9,000	150	4.50	.105
R115 / R122-8	1/2	.406	10.3	.549	2,000	8,000	100	5.20	.126
R115 / R122-10	5/8	.500	12.7	.648	1,500	6,000	100	6.50	.154
R115 / R122-12	3/4	.625	15.9	.778	1,200	4,800	75	7.70	.190
R115 / R122-12T*	3/4	.755	19.1	.886	1,100	4,400	75	8.20	.211
R115 / R122-16	1	.875	22.2	1.030	1,000	4,000	60	9.00	.280
R115 / R122-16T*	1	1.000	25.4	1.135	900	3,600	60	10.00	.322
R115 / R122-16Z+	1	.875	22.2	1.065	1,250	5,000	60	9.00	.459
R115 / R122-20	1-1/4	1.125	28.6	1.315	800	3,200	40	16.00	.369

Consult factory for temperature-adjusted ratings. * True bore. + Double braid.

R105 .040 WALL HOSE / R144 CONDUCTIVE HOSE

HOSE PART NUMBER	NOMINAL SIZE, IN.	AVERAGE I.D.		AVERAGE O.D., IN.	OPERATING PRESSURE PSI AT ROOM TEMP.	BURST PRESSURE PSI AT ROOM TEMP.	MAXIMUM CONTINUOUS LENGTH, FT.	MINIMUM BEND	HOSE WEIGHT LB. / FT.
		IN.	MM						
R105 / R144-4	1/4	.187	4.8	.323	3,000	12,000	200	2.00	.08
R105 / R144-5	5/16	.250	6.4	.386	3,000	12,000	150	2.50	.09
R105 / R144-6	3/8	.312	7.9	.451	2,500	10,000	150	4.00	.11
R105 / R144-8	1/2	.406	10.3	.566	2,000	8,000	100	4.60	.14
R105 / R144-10	5/8	.500	12.7	.665	1,500	6,000	100	5.50	.19
R105 / R144-12	3/4	.625	15.9	.795	1,200	4,800	75	6.50	.23
R105 / R144-16	1	.875	22.2	1.060	800	3,200	60	9.00	.30

MEDIUM PRESSURE

R115 / R122 HOSE AND R105 / R144 HOSE FITTINGS

FITTINGS STYLES

MATERIALS

- Brass
- 300 Series Stainless Steel

FEATURES

- Swage or Crimp attachment
- For use with:
 - R115/R122 (.030 wall hose)
 - R105/R144 (.040 wall hose)
- “Back-up” hex JIC (TK2)
- Attach with TK2 tooling

Titeflex medium pressure smooth bore hose ends may be swaged or crimped. Distributors have the option of using their existing QuikSwage tooling or deploying the TK2 tooling which will allow them the versatility to attach to both .030 wall (R115/R122) and .040 wall (R105/R144) hose types. They also have the option of crimping our hose ends using either the one piece or two piece TK2 fitting.



MALE PIPE

PART NUMBER 1 PIECE FITTING	PART NUMBER 2 PIECE FITTING	SIZE IN.	THREAD	NOMINAL I.D.
Y54104T-xxx	Y54304T-xxx	1/4	1/8 – 27	.156
Y54104-xxx	Y54304-xxx	1/4	1/4 – 18	.156
Y54105-xxx	Y54305-xxx	5/16	1/4 – 18	.207
Y54106T-xxx	Y54306T-xxx	3/8	1/4 – 18	.277
Y54106-xxx	Y54306-xxx	3/8	3/8 – 18	.277
Y54108T-xxx	Y54308T-xxx	1/2	3/8 – 18	.358
Y54108-xxx	Y54308-xxx	1/2	1/2 – 14	.358
Y54110-xxx	Y54310-xxx	5/8	1/2 – 14	.469
Y54112-xxx	Y54312-xxx	3/4	3/4 – 14	.594
Y54116-xxx	Y54316-xxx	1	1 – 11-1/2	.812

Note the appropriate suffix:

-93 = Brass

-95 = Stainless Steel

-931 = Brass with QuikSwage Collar

-951 = Stainless with QuikSwage Collar

JIC FEMALE SWIVEL WITH “BACK-UP” HEX

PART NUMBER 1 PIECE FITTING	PART NUMBER 2 PIECE FITTING	SIZE IN.	THREAD	NOMINAL I.D.
Y54004-xxx	Y54204-xxx	1/4	7/16 – 20	.156
Y54005-xxx	Y54205-xxx	5/16	1/2 – 20	.207
Y54006-xxx	Y54206-xxx	3/8	9/16 – 18	.277
Y54008-xxx	Y54208-xxx	1/2	3/4 – 16	.358
Y54010-xxx	Y54210-xxx	5/8	7/8 – 14	.469
Y54012-xxx	Y54212-xxx	3/4	1-1/16 – 12	.594
Y54016-xxx	Y54216-xxx	1	1-5/16 – 12	.812

Note the appropriate suffix:

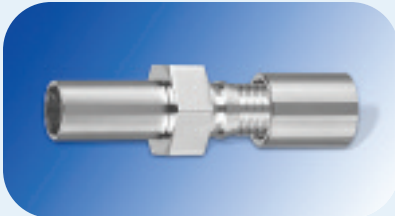
-93 = Brass

-95 = Stainless Steel

-931 = Brass with QuikSwage Collar

-951 = Stainless with QuikSwage Collar

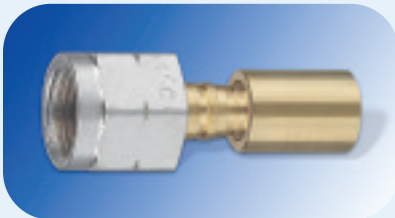
FITTINGS STYLES



NOTE: Compression tube end inserts are type 316SST

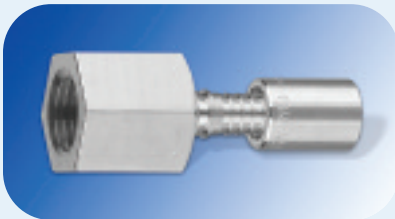
COMPRESSION TUBE END

STAINLESS STEEL PART NUMBER	SIZE IN.	THREAD	NOMINAL I.D., IN.
Y53604-1	1/4	1/4" O.D. Tube	.156
Y53606-1	3/8	3/8" O.D. Tube	.277
Y53608-1	1/2	1/2" O.D. Tube	.358
Y53612-1	3/4	3/4" O.D. Tube	.594
Y53616-1	1	1" O.D. Tube	.812



SAE - FEMALE SWIVEL - STRAIGHT (45° SEAT) (UNIVERSAL)

BRASS PART NUMBER	SIZE IN.	THREAD	NOMINAL I.D., IN.
Y50706-10-93	3/8	5/8 - 18	.277



FEMALE PIPE

STAINLESS STEEL PART NUMBER	BRASS PART NUMBER	SIZE IN.	THREAD	NOMINAL I.D., IN.
Y53205-95	Y53205-93	5/16	1/4 - 18	.207



SANITARY TRI CLAMP

STAINLESS STEEL PART NUMBER	HOSE SIZE, IN.	FACE DIAMETER	NOMINAL I.D., IN.
Y51116-4	1	1.984	.812

MEDIUM PRESSURE

UNI-BRAID® R165 HOSE



Titeflex R165 series...

The original UNI-BRAID® design that outperforms all the others.

APPLICATIONS

The ultimate transfer hose for a variety of high pressure applications.

- R.I.M. Reaction injection molding machines
- Industrial gasses
- Hydraulic service with phosphate ester fluids
- Compressed natural gas
- Transfer of automotive sealants

TEMPERATURE RANGE

- -65°F to 400°F (-54°C to 204°C) Consult factory for temperature-adjusted pressure ratings.

AVAILABILITY

- UNI-BRAID® can be fitted and tested to your exact specification by Titeflex or by an Authorized Titeflex Distributor. Our distributors are selectively certified to assemble high pressure hose assemblies. Insist that your Titeflex product is assembled and supplied by a Titeflex Authorized Distributor.

APPLICATION ADVANTAGES

- Design optimized for your specific application
- Manufactured in long lengths to reduce hose costs associated with coupling hose sections
- Economical and Cost Effective

UNI-BRAID® high-pressure hose is the most economical high pressure PTFE hose product ever offered to the market. It combines long life expectancy, high durability, and proven performance for superior service and cost effectiveness over the long term.

- Greater Flexibility

In industrial hose applications where high performance under harsh conditions is required, Titeflex UNI-BRAID® PTFE hose offers effective solutions and high value. The patented UNI-BRAID® construction features a single outer layer braid that reduces bulk while maximizing pressure capability and provides an exceptionally tight bend radius.

- Hose Construction

R165 hose is made of conductive PTFE using Titeflex "ZS" (Zero Static) construction, to bleed off static build-up in high flow applications and eliminate the risk of "static" burning of the core. The innercore is post-cured to enhance hose performance in extreme applications. Reinforcement of combined single plaits of small diameter, tiered, tension controlled type 304 stainless steel wire make up the braid jacket. This specially designed outer layer of braid eliminates conventional spiral wraps, reducing bulk without sacrifice of pressure capability. In larger sizes (-12 thru -24) there is an additional braid layer between the PTFE innercore and the pressure carrying outer braid.

CRIMP ATTACHMENT

R165 hose fittings can also be attached using numerous standard hose crimping machines. For information on this alternate method of attachment, please consult us.

UNI-BRAID® R165 HOSE DIMENSIONS AND PRESSURE RATINGS

HOSE PART NUMBER	NOMINAL SIZE,		NOMINAL I.D., IN.	NOMINAL O.D., IN. PSI AT ROOM TEMP.	MAXIMUM OPERATING PRESSURE† PSI	ROOM TEMP. BURST PSI	HIGH TEMP BURST	MAXIMUM CONTINUOUS LENGTH, FT.	MINIMUM BEND RADIUS, IN.	HOSE WEIGHT LB. / FT.
	IN.	MM								
R165-4	1/4	6	.222	.390	5,000	15,000	12,000	50	1.50	.100
R165-6	3/8	10	.308	.490	5,000	15,000	12,000	50	2.50	.163
R165-6	1/2	13	.401	.615	5,000	15,000	12,000	50	2.87	.232
R165-10	5/8	16	.495	.730	5,000	15,000	12,000	50	3.25	.325
R165-12	3/4	19	.617	.990	5,000	15,000	12,000	50	3.87	.660
R165-16	1	25	.867	1.270	5,000	15,000	9,000	35	5.00	1.020
R165-20	1-1/4	32	1.118	1.660	5,000	15,000	9,000	35	12.00	1.850
R165-24	1-1/2	38	1.375	1.900	4,000	12,000	9,000	35	14.00	1.910

† Operating pressures shown are for non-impulse service. Consult factory for temperature-adjusted ratings and impulse cycle applications.

FITTINGS STYLES



JIC-FEMALE SWIVEL (37° SEAT)

STAINLESS STEEL PART NUMBER	SIZE IN.	THREAD	NOMINAL I.D., IN.
Y40004-172	1/4	7/16 – 20	.146
Y40006-172	3/8	9/16 – 18	.271
Y40008-172	1/2	3/4 – 16	.365
Y40010-172	5/8	7/8 – 14	.455
Y40012-172	3/4	1 1/16 – 12	.568
Y40016-172	1	1 5/16 – 12	.778
Y40020-172	1 1/4	1 5/8 – 12	.964
Y40024-172	1 1/2	1 7/8 – 12	1.187



ADAPTER – MALE JIC TO MALE PIPE

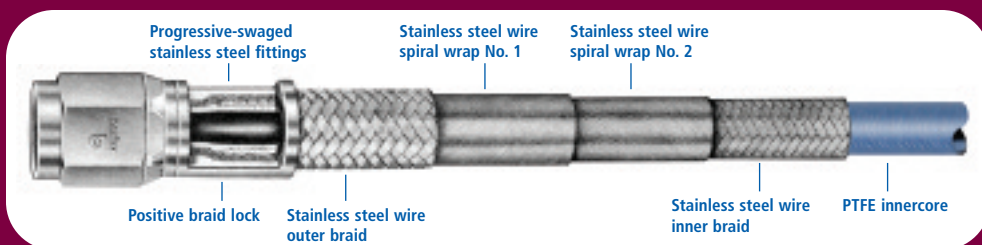
STAINLESS STEEL PART NUMBER	SIZE IN.	THREAD	NOMINAL I.D., IN.
94364SS-4	1/8 – 27	7/16 – 20	.172
94364SS-4-4	1/4 – 18	7/16 – 20	.172
94364SS-6	1/4 – 18	9/16 – 18	.297
94364SS-6-6	3/8 – 18	9/16 – 18	.297
94364SS-8	3/8 – 18	3/4 – 16	.390
94364SS-8-8	1/2 – 14	3/4 – 16	.390
94364SS-10	1/2 – 14	7/8 – 14	.484
94364SS-10-6	3/8 – 18	7/8 – 14	.484
94364SS-12	3/4 – 14	1 1/16 – 12	.609
94364SS-16	1 – 11-1/2	1 5/16 – 12	.844
94364SS-20	1 1/4 – 11-1/2	1 5/8 – 12	1.078
94364SS-24	1 1/2 – 11-1/2	1 7/8 – 12	1.313



WARNING: Careful selection, proper assembly and use of hose fittings is essential for safe and warranted operation of the hose assembly.

HIGH PRESSURE

R157 / R154 HOSE



The ideal choice
for high performance
impulse service.

APPLICATIONS

- The preferred choice for high impulse hydraulic systems
- Ground support
- Capable of long service life at temperature/pressure extremes
 - Molten plastics
 - Steel mill concast lines

TEMPERATURE RANGE

- -65°F to 400°F (-54°C to 204°C)
- Consult factory for temperature-adjusted pressure ratings.

R157 HOSE CONSTRUCTION

R157 offers a smooth innercore of extruded PTFE with a precisely controlled amount of carbon black added to the inner 15% of the core wall. This feature provides a continuous conductive path to the metal end fittings. Wire reinforcement is type 304 stainless steel. The 3/16" and 1/4" hose sizes have two layers of braid; 3/8" and 1/2" sizes have two layers of spiral wrap between two layers of braid; 5/8" through 1" sizes have four layers of spiral wrap between two layers of braid.

R154 HOSE CONSTRUCTION

R154 employs the same conductive innercore as the R157. This product can offer 50% more pressure capability than the R157. Wire reinforcement is type 304 stainless steel. The 1/4" and 3/8" hose sizes have two layers of spiral wrap between two layers of braid; the 1/2" size has four layers of spiral wrap between two layers of braid; 5/8" through 1" sizes have four layers of spiral wrap between two layers of braid.

R157 HIGH PERFORMANCE PTFE HOSE

HOSE PART NUMBER	NOMINAL SIZE, IN. MM		NOMINAL I.D., IN.	NOMINAL O.D., IN.	MAXIMUM OPERATING PRESSURE† PSI AT ROOM TEMP.	ROOM TEMP. BURST PSI	MAXIMUM CONTINUOUS LENGTH, FT.	MINIMUM BEND RADIUS, IN.	HOSE WEIGHT LB. / FT.
R157-3	3/16	5	.110	.313	4,000	17,000	50	2.00	.115
R157-4	1/4	6	.229	.420	4,000	16,000	50	3.00	.134
R157-6	3/8	10	.300	.590	4,000	14,000	30	5.00	.304
R157-8	1/2	13	.395	.715	4,000	14,000	30	5.80	.430
R157-10	5/8	16	.525	.905	4,000	12,000	30	6.50	.680
R157-12	3/4	19	.650	1.070	4,000	12,000	30	7.80	.940
R157-16	1	25	.875	1.390	4,000	12,000	30	9.70	1.500

† Consult factory for temperature-adjusted ratings.

R154 HIGH PERFORMANCE PTFE HOSE

HOSE PART NUMBER	NOMINAL SIZE, IN. MM		NOMINAL I.D., IN.	NOMINAL O.D., IN.	MAXIMUM OPERATING PRESSURE† PSI AT ROOM TEMP.	ROOM TEMP. BURST PSI	MAXIMUM CONTINUOUS LENGTH, FT.	MINIMUM BEND RADIUS, IN.	HOSE WEIGHT LB. / FT.
R154-4	1/4	6	.229	.495	6,000	24,000	50	3.00	.24
R154-6	3/8	10	.300	.617	6,000	24,000	30	5.00	.40
R154-8	1/2	13	.395	.738	6,000	24,000	30	5.75	.49

† Consult factory for temperature-adjusted ratings.



WARNING: These products can be used to convey hazardous fluids, steam or other dangerous materials which can cause personal injury or property damage. It is important that the user analyze all aspects of each application prior to specifying any product from this catalog. Due to the variety of operating conditions and applications, the user, through personal analysis and testing, is solely responsible for final product selection and meeting performance, safety and warning requirements.

FITTINGS STYLES

R157 HOSE FITTINGS

R157 hose fittings utilize the exclusive Titeflex progressive swaging method of attachment; with positive braid lock to assure a permanent, leak-proof assembly.



MATERIALS

All JIC wetted surfaces are type 321 stainless steel; other parts are type 304.

R157 JIC - FEMALE SWIVEL (37° SEAT)

STAINLESS STEEL PART NUMBER	SIZE IN.	THREAD	NOMINAL I.D., IN.
Y40004-22	1/4	7/16 – 20	.146
Y40006-22	3/8	9/16 – 18	.271
Y40008-22	1/2	3/4 – 16	.365
Y40010-22	5/8	7/8 – 14	.455
Y40012-22	3/4	1-1/16 – 12	.568
Y40016-22	1	1-5/16 – 12	.778

R154 HOSE FITTINGS

R154 hose fittings also utilize the exclusive Titeflex progressive swaging method of attachment; with positive braid lock.



MATERIALS

All JIC wetted surfaces are type 321 stainless steel; other parts are type 304.

R154 JIC - FEMALE SWIVEL (37° SEAT)

STAINLESS STEEL PART NUMBER	SIZE IN.	THREAD	NOMINAL I.D., IN.
Y40004-42	1/4	7/16 – 20	.146
Y40006-42	3/8	9/16 – 18	.271
Y40008-42	1/2	3/4 – 16	.365



WARNING: Careful selection, proper assembly and use of hose fittings is essential for safe and warranted operation of the hose assembly.

HIGH PERFORMANCE

R272 / R276 HOSE



Unmatched engineering and technical experience in the application of convoluted PTFE hose products has allowed users to consistently rely on Titeflex for dependable performance and value every time.

APPLICATIONS

- Chemical processing
- Pulp and paper
- Foam packaging
- Turbine engine componentry
- Air compressor discharge
- Tire press

TEMPERATURE RANGE

- -65°F to 400°F (-54°C to 204°C)
Consult factory for dynamic flexing applications at temperature limits.

STANDARDS

- PTFE meets FDA 21 CFR 177.1550

Titeflex R272/R276 hose is extremely flexible and lightweight offering an improved alternative to maximize operator handling and safety in comparison to other types of industrial hose. Combined with PTFE's unmatched chemical compatibility, corrosion resistance, temperature range and "non-stick" attributes, it offers a superior value.

In addition, R276 offers a black conductive innercore for high flow rate transfer applications where elimination of static charges is required to ensure performance.

CRIMP ATTACHMENT

Convoluted fittings can also be attached using numerous standard hose crimping machines. For information on this alternate method of attachment, please consult us.

R272 HOSE CONSTRUCTION

A white non-conductive PTFE liner, externally reinforced with PTFE impregnated fiberglass and a single steel wire braid.

R276 HOSE CONSTRUCTION

The PTFE innercore has a precisely controlled amount of carbon black added to the PTFE innercore. This conductive PTFE core material provides a continuous conductive path to the metal end fittings to bleed off static electricity.

R272 / R276 HOSE SPECIFICATIONS

HOSE PART NUMBER	NOMINAL SIZE,		NOMINAL I.D., IN.	NOMINAL O.D., IN.	OPERATING PRESSURE PSI	BURST PRESSURE PSI AT ROOM TEMP.	MAXIMUM CONTINUOUS LENGTH, FT.	MINIMUM BEND RADIUS, IN. AT ROOM TEMP.	HOSE WEIGHT LB. / FT.
	IN.	MM							
R272 / R276-8	1/2	13	.512	.785	1,000	4,000	75	1.00	.22
R272 / R276-12	3/4	19	.750	1.090	1,000	4,000	50	2.00	.29
R272 / R276-16	1	25	.998	1.300	1,000	4,000	50	3.00	.41
R272 / R276-20	1-1/4	32	1.239	1.560	1,000	3,600	50	6.25	.50
R272 / R276-24	1-1/2	38	1.500	1.792	750	3,000	50	7.50	.62
R272 / R276-32	2	51	1.982	2.333	500	2,000	50	10.00	.97

R285 / R287 FULL VACUUM RATED HOSE

Extra heavy duty construction with additional wire support provides the ultimate in flexibility for use in full vacuum conditions.



TEMPERATURE RANGE

- -65°F to 400°F (-54°C to 204°C)
Consult factory for flexing and vacuum applications at temperature limits.

STANDARDS

- PTFE meets FDA 21 CFR 177.1550



The R285/287 series hose incorporates a heavy wall PTFE (non conductive/conductive) innercore reinforced with an external stainless steel wire wrapped in the root of the convolution under the stainless steel braid. This additional wire reinforcement provides unmatched flexibility with the hoop strength necessary for use in full vacuum applications up to 28" Hg.

R285 HOSE CONSTRUCTION

Heavy-wall innercore of convoluted PTFE, externally reinforced with PTFE-impregnated fiberglass, a patented spring wire spiral to prevent collapse, and type 304 stainless steel wire braid.

R287 HOSE CONSTRUCTION

Conductive hose has a precisely controlled amount of carbon black added to the PTFE innercore. This provides a continuous path to the metal end fittings, to bleed off static electricity, ensuring performance.

R285 / R287 HOSE SPECIFICATIONS

HOSE PART NUMBER	NOMINAL SIZE,		NOMINAL I.D., IN.	NOMINAL O.D., IN.	OPERATING PRESSURE PSI	BURST PRESSURE PSI AT ROOM TEMP.	MAXIMUM CONTINUOUS LENGTH, FT.	MINIMUM BEND RADIUS, IN. AT ROOM TEMP.	HOSE WEIGHT LB. / FT.
	IN.	MM							
R285 / R287-24	1-1/2	38	1.52	1.90	750	3,000	40	7.50	.882
R285 / R287-32	2	51	2.02	2.42	500	1,900	40	10.00	1.194



WARNING: These products can be used to convey hazardous fluids, steam or other dangerous materials which can cause personal injury or property damage. It is important that the user analyze all aspects of each application prior to specifying any product from this catalog. Due to the variety of operating conditions and applications, the user, through personal analysis and testing, is solely responsible for final product selection and meeting performance, safety and warning requirements.

R272 / R276 AND R285 / R287 HOSE FITTINGS

Our selection of fittings enhances the value, the areas of application and convenience of Titeflex convoluted hose. With these fittings, most installation needs are easily met. Please consult us for any designs not pictured here.

Convoluted hose fittings feature the exclusive Titeflex progressive swaging method of attachment. The inner-core and insert form a permanent, leak proof assembly. The positive braid lock assures that strain is absorbed by the braid, not the hose innercore, ensuring hose integrity.

CRIMP ATTACHMENT

Hose may be crimped using numerous standard hose crimping machines. For information on this alternate method of attachment, please consult us.

MATERIALS

Male pipe and female inserts are available in carbon steel and type 316 stainless steel. Collars for the preceding fittings are either carbon steel or type 304 stainless steel. Note: Carbon steel collars may be specified with stainless steel inserts, where only wetted surfaces require corrosion resistance.

Butt weld end fittings are type 316 stainless steel.

AVAILABILITY

Convoluted hose assemblies can be fabricated by Titeflex or Authorized Titeflex Distributors. To assure factory-made reliability for distributor assemblies, our distributors are equipped with Titeflex-designed and approved field swaging tools.

**MALE PIPE**

STAINLESS STEEL PART NUMBER	CARBON STEEL PART NUMBER	SIZE IN.	THREAD	NOMINAL I.D., IN.
Y53308-100	Y53308-101	1/2	1/2 – 14	.378
Y53312-100	Y53312-101	3/4	3/4 – 14	.630
Y53316-100	Y53316-101	1	1 – 11-1/2	.849
Y53320-100	Y53320-101	1-1/4	1-1/4 – 11-1/2	1.069
Y53324-100	Y53324-101	1-1/2	1-1/2 – 11-1/2	1.306
Y53332-100	Y53332-101	2	2 – 11-1/2	1.756

JIC - FEMALE SWIVEL (37° SEAT)

STAINLESS STEEL PART NUMBER	CARBON STEEL PART NUMBER	SIZE IN.	THREAD	NOMINAL I.D., IN.
Y53508-100	Y53508-101	1/2	3/4 – 16	.378
Y53512-100	Y53512-101	3/4	1-1/16 – 12	.630
Y53516-100	Y53516-101	1	1-5/16 – 12	.849
Y53520-100	Y53520-101	1-1/4	1-5/8 – 12	1.070
Y53524-100	Y53524-101	1-1/2	1-7/8 – 12	1.305
Y53532-100	Y53532-101	2	2-1/2 – 12	1.755

SANITARY FITTING

STAINLESS STEEL PART NUMBER	SIZE, IN.	FACE DIAMETER	NOMINAL I.D., IN.
Y51116-3	1	1.984	.847
Y51124-3	1-1/2	1.984	1.310
Y51132-3	2	2.516	1.756

BUTT WELD END (CONTAINS VICTAULIC* GROOVE)

STAINLESS STEEL PART NUMBER	SIZE, IN.	NOMINAL I.D., IN.
Y55516-90	1	.814
Y55524-90	1-1/2	1.274
Y55532-90	2	1.784

For carbon steel collar use -96.

* Victaulic Company of America registered trademark

R272 / R276 AND R285 / R287 HOSE FITTINGS

Titeflex's Tefzel® encapsulated flange retaining inserts are now available in 1", 1-1/2" and 2" sizes. These fittings are manufactured using a base insert of nickel plated carbon steel. The Tefzel® compound is injection molded around this base insert at high pressure. This high pressure injection molding results in a tough zero porosity plastic encapsulation which is highly corrosion resistant. The wall thickness on all wetted surfaces of the flange retaining insert is a minimum of .060".

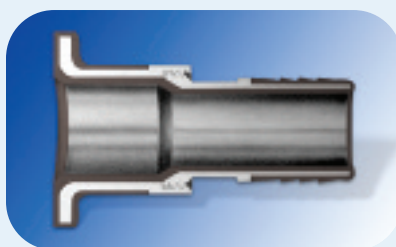
Dependent on media, temperature capability of the encapsulated stub end is 250°F. Consult factory for detailed information on fluid capability and temperature rating.

MATERIALS

Flange retaining inserts are available in type 316 stainless steel, or with Halar coating.

Tefzel® encapsulated flange retaining inserts are available with a base material of nickel plated carbon steel.

Collars for all styles are available in either type 304 stainless steel or carbon steel.



FLANGE RETAINING INSERT TEFZEL® ENCAPSULATED

TEFZEL® ENCAPSULATED STAINLESS STEEL COLLAR	TEFZEL® ENCAPSULATED CARBON STEEL COLLAR	SIZE, IN.	NOMINAL I.D., IN.
Y53416-97H	Y53416-91H	1	.740
Y53424-97H	Y53424-91H	1-1/2	1.230
Y53432-97H	Y53432-91H	2	1.706



FLANGE RETAINING INSERTS: STAINLESS STEEL & HALAR® COATED

INSERT & STAINLESS STEEL COLLAR	HALAR® COATED INSERT & STAINLESS STEEL COLLAR	SIZE, IN.	NOMINAL I.D., IN.
Y53412-90	Y53412-90T	3/4	.630
Y53416-100	SEE ABOVE	1	.814
Y53424-100	SEE ABOVE	1-1/2	1.274
Y53432-100	SEE ABOVE	2	1.784

CONVOLUTED

CHLORINE / BROMINE HOSE



APPLICATIONS

- Size 1" chlorine hose for rail car loading and unloading
- Titeflex 1/2" chlorine hose for replacing copper whips at chlorine repackaging plants filling 1 ton containers and 100/150 lb. cylinders

TEMPERATURE RANGE

- -40°F to 120°F (-40°C to 49°C)

WARRANTY INFORMATION

- Please refer to Titeflex's APPLICATIONS & TECHNICAL DATA brochure

PROVEN PERFORMANCE

- Engineered specifically to meet the critical application conditions of chlorine transfer
- Used worldwide by major chemical producers
- Meets or exceeds the Chlorine Institute guidelines, Drawing No. 135

Chlorine transfer is recognized as one of the most challenging and potentially hazardous hose applications. Aware of the clear need for safety, reliability and performance, Titeflex has engineered a unique product to meet the demands of this critical application. Titeflex S818XX chlorine hoses are internationally accepted and recognized for providing many years of unparalleled safety and performance.

S818XX assemblies are more flexible and resilient than metal hose. The PTFE innercore is virtually stress-free in continuous flexing installations. The convolutions of

Titeflex chlorine hose are shallow and helical, rather than annular as in metal hose, to facilitate draining and cleaning and reduce transfer time cycles.

Damage resistance is another advantage; Titeflex chlorine hose recovers its form and capacity after crushing, while metal hose may remain permanently flattened.

Titeflex chlorine transfer hose is currently available in 1/2" and 1" I.D.'s. It offers full flow characteristics for faster loading and unloading and are supplied directly from the Titeflex plant in lengths from one to 50 feet.

For quality assurance and traceability, each factory-made and tested assembly is serialized and recorded at Titeflex, along with the installation location and date. The assembly is also clearly tagged with its pressure and temperature ratings.

CONSTRUCTION

- Convoluted PTFE cone with a double layer of Kynar® braid
- 1" hoses are covered with a CPE jacket for abrasion protection
- New optional heavy duty high density polyethylene spiral wrap available
- Schedule 80 monel male pipe fittings
- Monel schedule MSS type A stub ends available for 1" size
- 1/2" size males have a press-fit Kynar® liner/insert to prevent erosion

NOTE: Outer Kynar® braid on 1/2" chlorine hose is for abrasion protection only.



WARNING: These products can be used to convey hazardous fluids, steam or other dangerous materials which can cause personal injury or property damage. It is important that the user analyze all aspects of each application prior to specifying any product from this catalog. Due to the variety of operating conditions and applications, the user, through personal analysis and testing, is solely responsible for final product selection and meeting performance, safety and warning requirements.

WARNING: Careful selection, proper assembly and use of hose fittings is essential for safe and warranted operation of the hose assembly.

S818XX PTFE CHLORINE / BROMINE HOSE



MONEL MALE NPT EACH END SPECIFICATIONS

ASSEMBLY PART NUMBER	NOMINAL SIZE,		NOMINAL I.D., IN.	NOMINAL O.D., IN.	MAXIMUM OPERATING PRESSURE PSI	BURST PRESSURE PSI	TYP. MAX. CONTINUOUS LENGTH, IN.	MINIMUM BEND RADIUS, IN.	HOSE WEIGHT LB. / FT.	FITTING THREAD NPT
S81808-L	1/2	13	.500	.915	500	2,000	50	1.50	.16	1/2 – 14
S81816-L	1	25	1.000	1.875	375	1,875	50	6.00	1.00	1 – 11-1/2

ALTERNATE END FITTING STYLE

ASSEMBLY PART NUMBER	HOSE SIZE, IN.	END FITTING
111451-L	1	MALE NPT & FLANGE*
111437-L	1	FLANGE X FLANGE

* Flange retainer is Monel Schedule 80, MSS type A above piece construction with no welds.
Flange is 300 lb. ASME forged steel.



CNG FLEX HOSE



The ultimate CNG Hose used by automotive manufacturers, converters and filling station operations.

APPLICATIONS

- Automotive and van fleets
- Truck and bus conversions
- Portable and stationary engines
- Dispensers

APPLICATION ADVANTAGES

- Certified by CSA certificate no. 1133929 (-4, -6 and -8 sizes CSA certified)
- PTFE innercore withstands temperature extremes*
- High pressure stainless reinforcement for reliable performance
- Special abrasion resistant cover protects hose from wear
- Available for 3600 psi and 5000 psi operating systems
- Different end fittings adapted to your conversion available
- Protects against vandalism



First choice for conversions to compressed natural gas.



HOSE DIMENSIONS AND PRESSURE RATINGS

HOSE PART NUMBER	NOMINAL SIZE, IN. MM		NOMINAL I.D., IN.	NOMINAL O.D., IN.	MAXIMUM OPERATING PRESSURE† PSI	ROOM TEMP. BURST PSI	MAXIMUM CONTINUOUS LENGTH, FT.	MINIMUM BEND RADIUS, IN.	HOSE WEIGHT LB. / FT.
117198-4	1/4	6	.222	.390	3,600	16,000	50	1.50	.118
117198-6	3/8	10	.308	.490	3,600	16,000	50	2.50	.184
117198-8	1/2	13	.401	.615	3,600	16,000	38	2.87	.261
RH147-4	1/4	6	.222	.525	5,000	20,000	25	1.50	.179
RH147-6	3/8	10	.308	.603	5,000	20,000	25	2.50	.244
RH147-8	1/2	13	.415	.685	5,000	20,000	25	4.00	.410

† Operating pressure shown are for non-impulsive service.

* Consult factory for temperature-adjusted ratings and impulse cycle applications.

HOSE OPTIONS



RTPE COVERED SMOOTH BORE AND CONVOLUTED HOSE

- Chafe resistance



SILICONE COVERED CONVOLUTED AND SMOOTH BORE HOSE

- Heat and fire resistance



NOMEX BRAIDED CONVOLUTED HOSE

- Light weight
- Heat resistant



KEVLAR BRAIDED HIGH PRESSURE SMOOTH BORE HOSE

- Light weight

SLEEVES, JACKETS & TAPES

Titeflex Protective Hose Products have been designed to minimize problems in handling hoses conducting liquids at high temperatures. These sleeve or jacketing products have been engineered, fabricated and field-tested to provide superior protection when installed and used properly.



TITEFLEX® INDUSTRIAL GRADE FIRE SLEEVE (TIG)

Industrial Grade Fire Sleeve is available in sizes from 3/8" to 3". At continuous operating temperatures of 500°F (260°C) it delivers excellent performance and can provide limited protection for 15 to 20 minutes at temperatures up to 2000°F (1090°C). Short-term exposure at up to 3000°F (1650°C) is 15 to 30 seconds. It is resistant to splashes of molten metals and is also flame and abrasion resistant. It offers high flexibility and is resistant to damage from either oil or water.

Utilizing knitted E-Glass fiber, Industrial Grade Fire Sleeve helps to protect personnel from burns from hoses conducting liquids at high temperatures and steam lines. It also reduces heat loss during transmission.



TITEFLEX® AEROSPACE GRADE FIRE SLEEVE (TAG)

Aerospace Fire Sleeve Jacketing is available in sizes from 3/8" to 3". At continuous operating temperatures of 500°F (260°C) it delivers excellent performance and can provide limited protection for 15 to 20 minutes at temperatures up to 2000°F (1090°C). Short-term exposure at up to 3000°F (1650°C) is 15 to 30 seconds. It is resistant to splashes of molten metals and is also flame and abrasion resistant. It offers high flexibility and is resistant to damage from either oil or water.

Aerospace Grade Fire Sleeve, utilizing braided E-Glass fiber for maximum protection provides our highest insulation value along with increased strength and enhanced resistance to abrasion. Custom colors optional.



TITEFLEX® ASSEMBLY JACKET (TAJ)

Assembly Jacket is available in sizes from 3/4" to 3". It is constructed from braided or high bulk glass fiber steel with hook and loop closure capability. Works well with retrofits and can be installed easily. It can withstand temperatures up to 500°F (260°C) on a continuous basis, and performs effectively for 15 to 20 minutes with temperatures up to 2000°F (1090°C). Short-term exposure at up to 3000°F (1650°C) is 15 to 30 seconds. Assembly Jacket's elasticity makes it an ideal choice for bundling or wrapping individual hoses in a variety of situations. Its insulation properties assure effective burn protection from hoses conducting liquids at high temperatures and steam lines. It also reduces heat loss during transmission.

SLEEVES, JACKETS & TAPES



TITEFLEX® TAPE (TTP)

Titeflex Tape is available in 1" and 1-1/2" widths in 36 foot rolls. It is a high temperature insulation tape constructed of silicone rubber that is self-bonding and self-curing. When applied it creates a liquid-tight insulation barrier. Titeflex Tape is a non-adhesive, iron oxide red silicone rubber tape that has been fabricated to withstand continuous exposure to temperatures up to 475°F (246°C). Its dielectric strength makes it an excellent choice as an alternative to heat shrinkable tubing or vinyl tapes and wraps. It is commonly used for wrapping wiring harnesses. It is also used in protecting splices and terminations of power cables, insulating coils on motors and generators.

Titeflex Tape is an excellent end sealant when used with Fire Sleeve Assembly Jacket to prevent hydraulic oils and contaminants from wicking into the inner construction of the transfer hose.

TITEFLEX® FIRE SLEEVE SELECTOR TABLE

TITEFLEX INDUSTRIAL GRADE (TIG)	MEDIUM PRESSURE SMOOTH BORE		HIGH PRESSURE SMOOTH BORE	HIGH PERFORMANCE SMOOTH BORE		MEDIUM PRESSURE CONVOLUTED	
TITEFLEX AEROSPACE GRADE (TAG)	R115	R105				R272	R285
	R122	R144	R165	R154	R157	R276	R287
-5	-3						
-6	-4	-4			-3		
-7	-5	-5	-4				
-8	-6	-6	-6	-4	-4		
-10	-6T/-8	-8	-8	-6	-6		
-12	-10	-10	-10	-8	-8		
-14	-12	-12				-8	
-16	-12T		-12		-10		
-18	-16/-16Z	-16	-16		-12	-12	
-20	-16T						
-22	-20						
-24					-16	-16	
-26						-20	
-28			-20				
-32			-24			-24	-24
-36							
-40						-32	-32
-44							
-48							
STANDARD SIZES	Hose assemblies in excess of 8 feet may require an increase in Fire Sleeve size to facilitate assembly. For optimal thermal performance a loose fit is recommended.						
CONDUCTIVE							

THE VALUE OF PTFE HOSE

ADVANTAGES OF PTFE

- **Chemical Resistant** – PTFE creates a virtually universal hose which handles the broadest range of media.
- **Temperature Resistant** – From cryogenics to steam all in one hose.
- **Low Friction** – Low pressure drop because deposits do not accumulate on the innercore. Easy to clean permitting use of one hose for several services.
- **Flexible** – Withstands continuous flexing and vibration without failure from flex fatigue.
- **Moisture Resistant** – Ideal for pneumatic systems requiring low dew point functionality.
- **Chemically Inert** – Will not break down or deteriorate in service.
- **Non-Aging** – Unlimited shelf life because properties do not change with age or exposure to weather.

Titeflex hoses feature PTFE or equivalent resin which provides the following physical characteristics:

- Tensile strength 3,500 psi
- Elongation 250% min
- Dielectric strength 1,000 volts per mil
- Softening point 500°F (260°C)

PTFE FLUOROCARBON AS A HOSE MATERIAL

Polytetrafluoroethylene (PTFE) is an engineered fluoropolymer. Outstanding resistance to chemicals is one of its primary attributes.

A broad temperature range of -100°F to 500°F (-73°C to 260°C) make this hose material suitable for the majority of fluid and ambient temperature conditions found in industry. An extremely low coefficient of friction, (0.05 to 0.20), provides a non-stick surface. Water absorption of PTFE is negligible, less than 0.01% by ASTM test. And, it is FDA-approved for food and pharmaceutical use.

TYPICAL TITEFLEX HOSE APPLICATIONS

Titeflex hoses are used throughout industry for process, transfer and hydraulic and pneumatic uses. Applications typically require longer service life and excellent reliability and dependability; they include:

Chemicals	Molten Plastics
Chlorine	Engines
Hot Melt	Tire Presses
Turbines	Dehydrators
Buses	Reverse Osmosis
Machinery	Autoclaves
Waterblast	Packaging
Automotive	High Performance Racing
Steel/Aluminum	Power Generation
Pulp & Paper	Pumps
R.I.M.	Paints
Trucks	Food Processing
Hot Presses	Medical
Compressed Gas	Pharmaceuticals
Ground Support/Test	Textiles
Steam	

EXAMPLES:

1. **Steam hose.** Convoluted hose assemblies (R276-20) handling steam and water alternately with a 12-15 minute thermal cycle on a hot press for lamination of thermoplastics materials.
2. **Chlorine transfer hose.** (S81816) Loading service conditions at about -70°F (-57°C) at psi's ranging from 70 to 135. These hoses replaced Monel metal hoses.
3. **Air, fuel & oil hoses in buses.** Of the many applications on a bus the majority are PTFE hose assemblies (R115 hose assemblies). Temperatures to 250°F and pressures to 450 psi.
4. **Turbo machinery.** Lube, oil, fuel, air and coolant, transfer lines.
5. **Chlorine "repackaging".** Titeflex S81808 (1/2") chlorine hose has been recommended by the Chlorine Institute as a replacement for copper tubing in filling chlorine cylinders because of its safety and versatility.
6. **Gasses.** Medium, high and extra high pressure assemblies for transfer of compressed gasses.

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HOW TO SPECIFY ACCESSORIES

Hose Type		Fitting Style Numbers				Hose I.D.		Fitting Material		Assembly Length			Accessory
		1st End		2nd End		Nominal Size in 1/16"		1st and 2nd End		Whole Inches		Additional Fractional Length in 1/8"	

HOSE TYPE

F R115	CZ R287	PA RP101
A R101	CT R267	PE RP165
B R157	CN R270	G R105
J R154	CW R273	H R144
CC R272	CF R283	
CK R276	K R165	
CV R285	D R122	

STYLE NUMBER

00 JIC-Female Swivel	24 Tube Adapter
01 JIC-Female Swivel-45° Elbow	25 Butt Weld End
02 JIC-Female Swivel-90° Elbow	26 Paint Spray Female
03 Male Pipe	27 Lap Joint Flange (300# carbon steel)
04 Male Union	28 Lap Joint Flange (150# SS 304)
05 Fixed Flange	29 Lap Joint Flange (300# SS 304)
06 Lap Joint Flange (150# Carbon steel)	30 Lap Joint Flange (150# SS 316)
07 SAE-Female Swivel-Straight	31 Lap Joint Flange (300# SS 316)
08 SAE-Female Swivel-45° Elbow	32 Sanitary
09 SAE-Female Swivel-90° Elbow	33 O-Ring Face Seal
10 Female Pipe	34 Cam and Groove
19 SAE Compression-Male	35 JIC Titecrimp
20 SAE Compression-Female	36 Male Pipe Titecrimp
21 Female Swivel-Straight-Flareless	
22 Female Swivel-45° Elbow-Flareless	
23 Female Swivel-90° Elbow-Flareless	

ACCESSORY

E Chafe Sleeve-Heat-Shrinkable PTFE FEP
P Chafe Sleeve-Heat Shrinkable Polyolefin
L Hypalon Sleeve
J Armor Sleeve
F Fire Sleeve
G Spring Guard
T Halar Coating on Flange-Retaining Insert
H Halar Encapsulating of Flange-Retaining Insert
D Step-Down Fitting
R Step-Up Fitting
S HDPE Spiral Wrap
W 2 TIE Wire Holes 180° Apart
U PTFE Spiral Sleeve

Most accessories are designated by adding the appropriate suffix to the assembly number, as indicated. Where one of these letter codes is used, it implies that the accessory is to be applied to the entire hose length, if applicable. Certain accessories, however, are often used in short sections for strain relief or chafing protection. They include armor sleeves, heat-shrinkable chafe sleeves and spring guard.

For less than full length sections of such accessories, omit the letter code for that accessory from the assembly number and add written instructions. Indicate the accessory by specific part number, the length required, and the proper position(s) on the assembly.

ACCESSORY PART NUMBERS

Armor Sleeve - 106479-Size

Heat-Shrinkable Polyolefin Sleeve - 95033-Size

Heat-Shrinkable PTFE FEP Sleeve - 95423-Size

Spring Guard - Y171 (I.D. Size in 1/16")-1

OTHER CONSIDERATIONS

MARKINGS

Ordinarily, Titeflex hose assemblies are not identified, except S818XX Chlorine/Bromine Transfer Hose which has markings.

We have full capability for marking assemblies with the hose number or fabrication date, your assembly number, working pressure or other pertinent information. Markings can be electroetched on fittings or on stainless steel tags which are permanently affixed.

PRESSURE TESTING

Titeflex hose assemblies are proof-pressure-tested at 1-1/2 times the recommended operating pressure or to customer requirements. Test medium is water.

Many special testing procedures can be utilized, according to your needs, and test media can be varied on order. At the Titeflex plant, we can test with nitrogen and other gases to specific levels of pressure.

PACKAGING

Titeflex hose assemblies are carefully wrapped and packed for shipment, with protection routinely provided for external threads of fittings and for hose lengths, to prevent kinking in transit.

CLEANING

After fabrication, various cleaning procedures are available depending on customer requirements.



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