

LENZ

HOSE FITTINGS & ADAPTERS

CATALOG NO. HP-401



HYDRAULICS
WITH A GLOBAL REPUTATION

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**"Your one source
for hydraulic accessories!"**

Since 1946 Lenz has been a leading manufacturer of high quality components for the fluid power industry: the exclusive Lenz O-Ring Seal tube fitting; 37 degree flare fittings; complete line of high and low pressure hose, hose fittings, and assemblies; hydraulic adapters; pressure gauges; hydraulic strainers; hydraulic filters; and all types of hydraulic tank accessories for constructing a reservoir.

The Quality and Performance of Lenz fluid power components is Legendary in the industry and have been accepted as a standard with original equipment manufacturers, machine tool builders,

road building and construction machinery, compressor manufacturers, and with the United States Military.

All Lenz products are manufactured to be compatible and interchangeable with other manufacturers, but in most cases incorporated advanced exclusive features not elsewhere obtainable.

If you have a question regarding application or compatibility of any components, our knowledgeable, factory trained, and friendly personnel are always available to help you by phone, fax or e-mail.

TUBE FITTINGS (CUT-A-WAY)



The exclusive Lenz "O-Ring" Seal tube fitting is the most easily installed, labor saving, perfect sealing fitting available. For complete information on this fitting. Request Catalog 127R-A

ADAPTERS



Lenz Manufactures a complete line of Hydraulic Adapters and Hose Fittings that meet or exceed J.I.C./S.A.E. standards and are interchangeable with other standard hose adapters. Request Catalog AD-90

HOSE FITTINGS



Lenz Manufactures a complete line of 100R5 hose fittings; 2-wire braid hose fittings for high pressure, along with several other special industry hose fittings, making Lenz a full line hose & fitting manufacturer. Lenz fittings meet or exceed J.I.C./S.A.E. standards, and are interchangeable with other standard hose fittings. Request Catalog HP-401

"LC-57XL-40" LOCKABLE FILLER BREATHING CAP



Lenz has introduced a new series of lockable filler breathing caps, "LC-57XL-40". The lockable filler breathing cap helps prevent hydraulic systems from being tampered with by welded lugs to allow use of a padlock. Request Catalog TA-81

3" HIGH NECK FLANGE



The 3" high neck flange is suited to help prevent tank top dirt from plugging up the air filter and ideal for mobile applications, virtually eliminating spillage. This high neck flange puts the air filter 3" above the tank top. 1 1/2" High Neck now available. Request Catalog TA-81

FILLER CAP AND NECKS



Lenz introduces its fuel/hydraulic filler cap and necks.

- Heavy gauge weldable neck and cap
- Stainless-steel screen strainer
- Vented or nonvented caps
- Lockable cap
- Diaphragm built into vented cap to reduce spillage in case of rollover.

Request Catalog TA-81

SIGHT WINDOWS



Lenz sight windows are designed for quick visual inspection and can be used to show presence of oil in gear cases, bearing housings, or can be used to indicate liquid level in reservoirs. Lenz sight windows are offered in the following sizes: 1/4" through 2" N.P.T. Brass body and 3/4"-16 through 1 7/8"-12 S.A.E. aluminum body. Request Catalog TA-81

HIGH & LOW PRESSURE BALL VALVES



Lenz ball valves are manufactured in carbon steel for high pressure up to 7,500 P.S.I. and in Brass for low pressure up to 600 P.S.I. Lenz ball valves are offered in the following sizes: 1/4" through 4" N.P.T. and 7/16"-20 through 1 7/8"-12 S.A.E. Request Catalog TA-81

SUMP FILTER STRAINERS 49 Series & N-49 (Nylon Series)



Single suction-type unit. Low cost, one-piece construction. Plated ends. Cylinder to prevent collapsing. Pleated, reusable stainless wire cloth. Gives trouble-free positive protection. Easily cleaned. Relief valve in bottom optional. Assembled & boxed with full instructions. Easily Installed. Request Catalog SF-11A

2 1/2" GLYCERIN-FILLED DUAL SCALE PRESSURE GAUGES



AFC-25 (Stainless case, brass connection) BAC-25 (Brass case, brass connection) Accuracy: Within 1.5% of full scale Connection: 1/4" Male NPT Brass Bottom or Rear Center Connection, Safety Blow-Out Plug Included, Restrictors Standard, S.A.E. Threads available Request Catalog PG-111

TANK MOUNTED STRAINERS LTM SERIES



Designed for ease of servicing. Access to tank interior is not necessary

Specifications:

- Cast iron bushings
- Perforated steel support tubes
- 100 mesh stainless steel pleated elements

Options:

- No by-pass or 5 P.S.I. by-pass
- Custom screens available on request
- S.A.E. Threads

Request Catalog SF-11A

CHEMICAL SEALS

Chemical seals, also referred to as diaphragm seals, are used to isolate pressure gauges from clogging and/or corrosive media. The seal is also filled with silicone fluid. Any pressure applied by the process medium to the seal diaphragm is hydraulically transmitted to the pressure element of the gauge, thus generating a pressure reading on the pressure gauge. Request Catalog PG-111



TANK MOUNTED STRAINERS LTMA SERIES

Designed for ease of servicing.



Specifications:

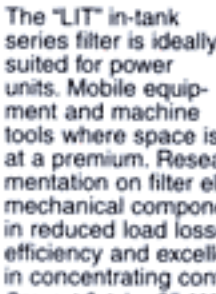
- S.A.E. 2 1/2"-12 to 1 1/4" hose barbed tube
- Machined bushing
- Perforated steel support tubes
- 100 mesh stainless steel pleated elements

Options:

- No by-pass or 5 P.S.I. by-pass
- Custom screens available on request
- Nylon Bushings available

Request Catalog SF-11A

MODEL "LIT" SERIES IN-TANK FILTERS DISPOSABLE FILTER CARTRIDGE TYPE



The "LIT" in-tank series filter is ideally suited for power units. Mobile equipment and machine tools where space is at a premium. Research and experimentation on filter elements and mechanical components have resulted in reduced load losses, high filtration efficiency and excellent performance in concentrating contaminants. Request Catalog SF-11A

ABS PLASTIC BREATHING CAP ASSEMBLY

MODEL "ABS-40"

Lenz all plastic breathing cap assembly is designed for tank top installation. The unit has push-locking device for quick, easy & solid installation. No tools required — even for removal. Request Catalog TA-81



BI-METAL THERMOMETERS

Lenz Bimetal Thermometers are manufactured to handle severe temperature applications. The Hermetically Sealed Case offers protection from moisture, dust and weather. The Bimetallic Element is coated with silicone to minimize pointer oscillation and improve temperature transmission. Request Catalog TA-81



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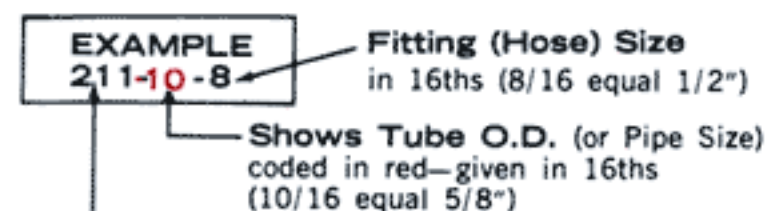


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HOW TO ORDER LENZ HOSE FITTING PRODUCTS

LENZ HOSE FITTINGS (Couplings) — Always order by the number given under "Part Number" in the tables of this catalog. Lenz part numbers are determined as shown in the following diagram:



Fitting Type (2-Wire J.I.C. Swivel
for High Pressure Type C Hose, shown.)

Tube O.D. or Pipe Size is given in red numerals to assist in establishing the size in assemblies. The type of fitting end is also coded with red letters. These letters are explained in the "Code Letter Table" below.

Individual parts of fittings can be ordered. Fitting component parts are listed in the fitting tables. Example:

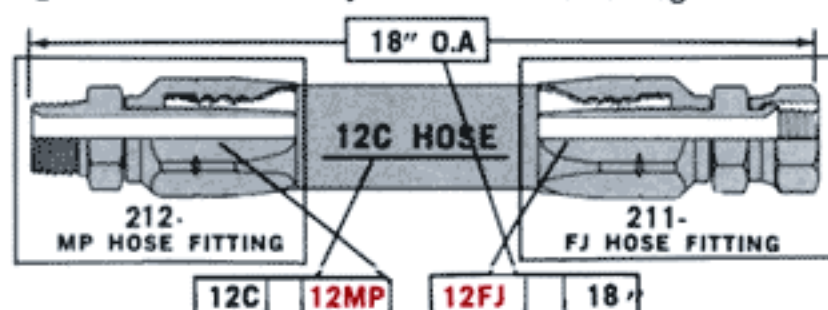
112-2-4 Male Pipe Hose Fitting
is made up of the following parts:
4112-2-4 Nipple 4011-4 Socket

These parts may be ordered separately by these numbers.

LENZ HOSE ASSEMBLIES

The numbers given in the assembly tables in this catalog are complete for the assemblies indicated. For assemblies not listed, follow this formula: Give the size and type of hose (hose part number), size and code letters (indicated in red) of one fitting, the size and code letters (indicated in red) of other fitting, and the overall length of the assembly in inches.

To clarify this formula the following diagram of a standard assembly, showing assembly numbers broken down into individual part numbers, is given... similar diagrams are given in each assembly section of this catalog:



Assembly No. 12C-12MP-12FJ-18"

EXAMPLE OF ASSEMBLY - 12C-12MP-12FJ-18" shows an assembly for 3/4-inch I.D. double wire braid, rubber covered hose having a 212-12 Male Pipe Hose Fitting on one end and a 211-12 J.I.C. Swivel Hose Fitting on the other, with an overall assembly length of 18".

NOTE: If both ends should be male pipe of different size threads add a second MP number - Example: 8MP-6MP-18". If of different swivel threads add a second FJ number. Example: 10FJ-8FJ-18".

LENZ HOSE - Types and uses are detailed and specified at the beginning of each Hose and Fitting Section. Cut-away construction of each type are shown on pages 2, 12, 18 and 24. Bulk hose should be ordered by specifying length in feet. Lenz reserves the right to ship bulk hose in the following lengths:

45' and over lengths 50% of amount ordered
25'-44' lengths 25% of amount ordered
10'-24' lengths 25% of amount ordered

Cut lengths of hose should be ordered as shown by specifying length in inches.

TO ORDER 37° J.I.C. FLARE ADAPTERS - Shown on pages 30 through 37, for your Hose Assemblies with J.I.C. Swivel Hose Fitting Ends (111, 121, 151, 211 and 311 Series) match the **red number** of the Adapter part with the **red number** in the J.I.C. Swivel Part Number. Example: 3105-10-6 may be used with 211-10-8 J.I.C. Swivel Fittings.

TO ORDER S.A.E. 45° FLARE ADAPTERS - Shown on page 43, for S.A.E. Swivel Hose Fitting Ends (101, 123, and 301 Series) match the **red number** of the Adapter part with the **red number** in the S.A.E. Swivel Part Number.

TO ORDER P.T.T. FLARE ADAPTERS - Shown on page 43, for P.T.T. Swivel Hose Fitting Ends (106 Series), match **red number** of the Adapter part with **red number** in the P.T.T. Swivel part number.

TO ORDER UNION SWIVEL (UAD) ADAPTERS - Shown on pages 44, 45 and 46, for your Male Pipe Hose Assemblies, use the same method of matching the **red numbers** as outlined in Flare Adapters.

MATERIALS AND FINISHES

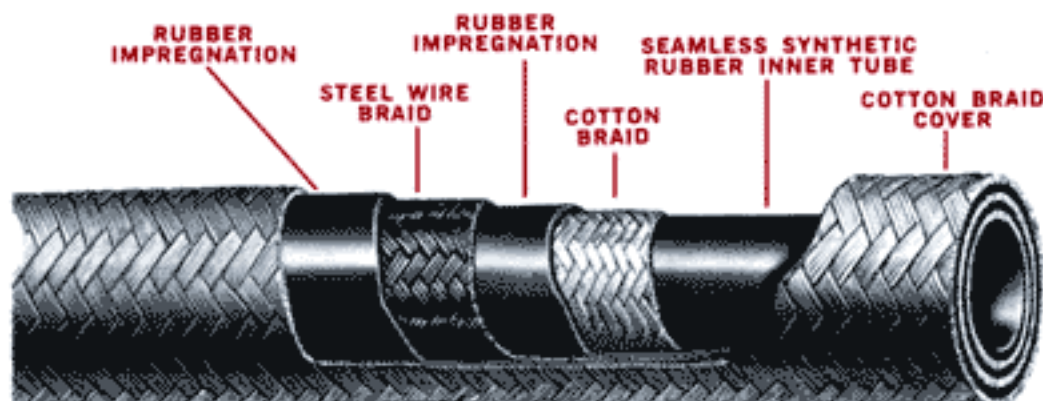
HIGH & MEDIUM PRESSURE HOSE FITTINGS, J.I.C. 37° ADAPTERS, UAD ADAPTERS, P.T.T. & PIPE FITTINGS - These Fittings and Adapters are Zinc Plated Steel. Black Phosphate can be supplied on special order.

LOW PRESSURE "PUSH ON" HOSE FITTINGS - (Page 25) - The "Push-On" Stems are Brass and the Swivel Nuts are Zinc Plated Steel.

S.A.E. 45° FLARE ADAPTERS - (Page 43) - Machined from Brass Bar Stock, Elbows are from Brass Forgings.

CODE LETTERS (Shown In Red) APPLYING TO FITTING END TYPES ON ASSEMBLIES

VISUAL	CODE LETTERS	TYPE OF HOSE END	FITTING SERIES FOR TYPE K AND KR HOSE	FITTING SERIES FOR TYPE Y and YR HOSE	FITTING SERIES FOR TYPE C HOSE	FITTING SERIES FOR TYPE Z HOSE
	MP	Male Pipe	112	312	212/812	152/752
	FJ	Female JIC 37° Swivel	111	311	211/811	151/751
	MJ	Male JIC 37° Flare	114		214/814	154/754
	FS	Female SAE 45° Swivel	101	301		
	MS	Male SAE 45° Flare	102			
	LT	Lenz "O-Ring" Tube End	116		216/816	156/756
	ST	SAE Str. Thread "O" Ring	118		218/818	158/758
	PS	Parker Triple Type Swivel	106			
	UP	Male Union Pipe Fitting			219/819	159/759



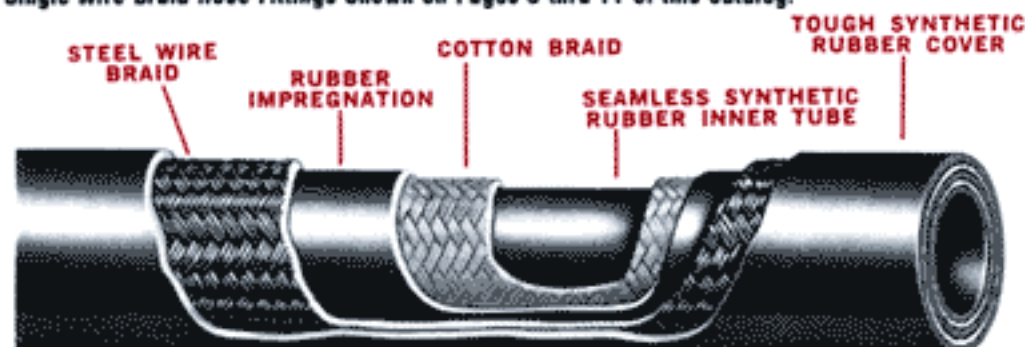
LENZ TYPE "K" • COTTON COVERED, SINGLE WIRE BRAID • MEDIUM PRESSURE HOSE

COTTON COVER PART NO.	O.D. TUBE SIZE	HOSE I.D.	HOSE O.D.	RECOM. WORK'G. PRESS.	MIN. BURST. PRESS.	MIN. BEND RADII	APPROX. WT. PER FT. (K)
4K	1/4	3/8	33/64	3,000	12,000	3"	.15
5K	3/8	1/2	37/64	3,000	10,000	3 3/8"	.18
6K	1/2	5/8	41/64	2,250	9,000	4"	.21
8K	3/4	7/8	45/64	2,000	8,000	4 3/8"	.23
10K	1	1 1/8	49/64	1,750	7,000	5 1/2"	.30
12K	1 1/4	1 3/8	1 1/4	1,500	6,000	6 1/2"	.39
16K	1 3/4	1 7/8	1 5/8	800	3,200	7 3/8"	.38
20K	2	2 1/8	1 7/4	600	2,500	9"	.51
24K	2 1/2	2 3/8	1 3/4	500	2,000	10 1/2"	.61
32K	3	2 7/8	2 1/2	350	1,400	13 1/4"	.85

TYPE "K" (Above) - Fire, Oil and Mildew resistant. Compounded to withstand -40°F. to 275°F. temperatures. High tensile steel braid. Light weight, flexible, small bend radii makes it ideal for all-purpose industrial applications. **MEETS S.A.E. 100R5 SPECS.**

TYPE "KR" (Below) - Identical in construction and features to Type "K", except the cover is of tough, abrasion resistant, synthetic rubber.

Lenz Types "K", "KR" are the perfect Medium Pressure Hose Types for use with the Lenz Single Wire Braid Hose Fittings Shown on Pages 3 thru 11 of this catalog.



LENZ TYPE "KR" • RUBBER COVERED, SINGLE WIRE BRAID • MEDIUM PRESSURE HOSE

RUBBER COVER PART NO.	O.D. TUBE SIZE	HOSE I.D.	HOSE O.D.	RECOM. WORK'G. PRESS.	MIN. BURST. PRESS.	MIN. BEND RADII	APPROX. WT. PER FT. (KR)
4KR	1/4	3/8	33/64	3,000	12,000	3"	.16
5KR	3/8	1/2	37/64	3,000	10,000	3 3/8"	.19
6KR	1/2	5/8	41/64	2,250	9,000	4"	.23
8KR	3/4	7/8	45/64	2,000	8,000	4 3/8"	.27
10KR	1	1 1/8	49/64	1,750	7,000	5 1/2"	.35
12KR	1 1/4	1 3/8	1 1/4	1,500	6,000	6 1/2"	.50
16KR	1 3/4	1 7/8	1 5/8	800	3,200	7 3/8"	.46
20KR	2	2 1/8	1 7/4	600	2,500	9"	.66
24KR	2 1/2	2 3/8	1 3/4	500	2,000	10 1/2"	.78
32KR	3	2 7/8	2 1/2	350	1,400	13 1/4"	1.13

NOTE: For Ammonia, L.P. and other diffusible gases, it is absolutely necessary to Specify: "COVER TREATED BY PERFORATION," to prevent blistering.

LENZ
HOSE
FITTINGS

SINGLE WIRE BRAID
TYPE K & KR HOSE
COTTON OR RUBBER COVER
MEDIUM PRESSURE
HOW TO ASSEMBLE

HOW TO ASSEMBLE TYPE K & KR HOSE AND FITTINGS

IMPORTANT NOTICE - A MANDREL MUST BE USED in assembly on fitting series 112, 111, 101, 116 and 118 to prevent hose failure.



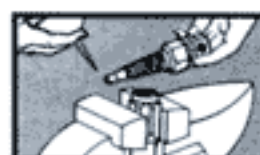
HOSE MANDREL - See Page 4



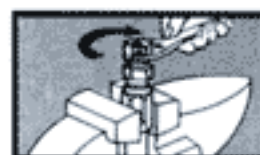
1. Cut hose square to desired length using fine tooth hacksaw or cut-off wheel. Remove any loose particles with wire brush.



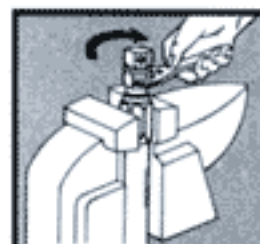
2. Place socket in vise and screw hose in counter-clockwise. Tighten until hose bottoms, then back off 1/4 turn.



3. Wrench-tighten nut and nipple on assembly tool. Oil inside of hose and nipple threads. Work assembly mandrel in hose to move freely.



4. **Swivel Ends:** Screw nipple clockwise into socket and hose. Leave 1/2" to 3/4" clearance between nut and socket so nut swivels.



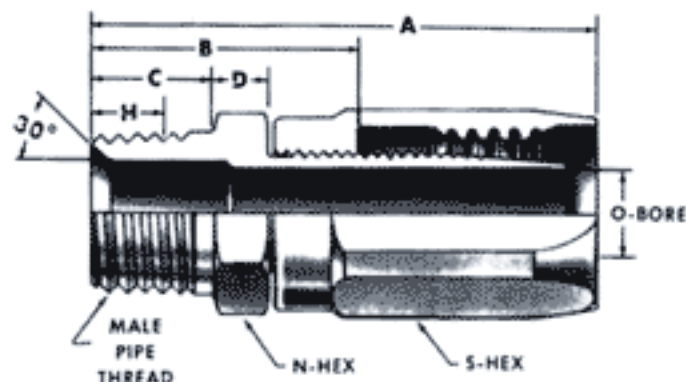
5. **Male Ends:** Screw nipple clockwise into socket and hose. Tighten nipple snugly against socket. After assembled, remove mandrel and blow out with air pressure to remove any loose particles and inspect.

LENZ

The Lenz Single Wire Braid, Reusable, Mandrel Type, Medium Pressure Hose Fittings for use with Type K, and KR Hose are shown on the following pages (3 through 5). Each Fitting Series is given in complete detail with keyed cut-away view and dimensions, and specification tables. The bore of the mandrel fittings permits full-flow, giving the assemblies less restriction. No skiving of the hose is necessary. All fittings shown on pages 3 thru 9 may be ordered separately or in factory made-up assemblies. Mandrel Type Fittings will be used wherever possible unless, Non-Mandrel Type Fittings are specified. All these fittings are machined from Steel and are Zinc Plated. Black phosphate can be supplied on special order. **These fittings conform to J.I.C. and S.A.E. standards.**

LENZ
112 MALE PIPE
MANDREL TYPE
HOSE FITTING

Code Letters When
Used On An Assembly **MP**



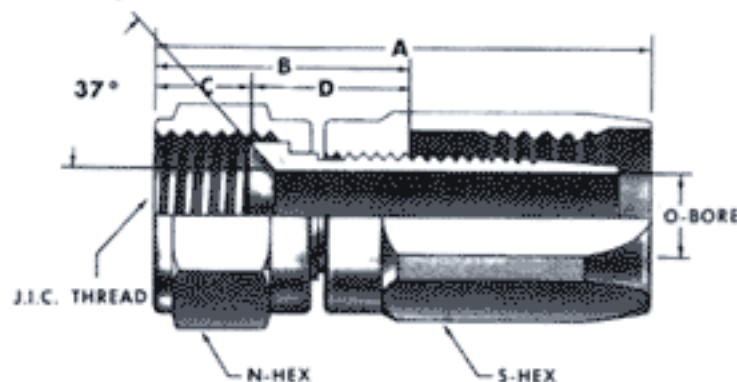
*Hand
Engagement
Plus One
Full Thread

PART NO.	HOSE SIZE	O.D. TUBE SIZE	MALE PIPE THREAD	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	H*	N NIPPLE HEX	O	S SOCKET HEX
				NIPPLE	SOCKET									
112-2-4	4	1/4	1/4	4112-2-4	4011-4	8.1	1 1/4	3/4	3/4	3/8	3/2	1/2	1 1/4	3/8
112-4-4	4	1/4	1/4	4112-4-4	4011-4	9.3	1 3/2	1 3/2	3/8	3/8	3/8	3/8	1 1/4	3/8
112-4-5	5	3/8	1/4	4112-4-5	4011-5	10.1	1 1/8	1 1/4	3/8	3/8	3/8	3/8	1 3/4	1 1/8
112-4-6	6	3/8	1/4	4112-4-6	4011-6	13.6	2 1/8	1 1/4	3/8	1 3/4	3/8	3/8	1 3/4	1 3/8
112-6-6	6	3/8	3/8	4112-6-6	4011-6	15.0	2 1/4	1 3/2	3/8	3/8	1 3/2	1 1/8	1 3/4	1 3/8
112-6-8	8	1/2	3/8	4112-6-8	4011-8	21.8	2 3/4	1 3/4	3/8	3/2	1 3/2	1 1/8	2 3/4	1 3/8
112-8-8	8	1/2	1/2	4112-8-8	4011-8	25.2	2 3/2	1 3/2	3/4	3/8	1 3/2	3/8	2 3/4	1 3/8
112-8-10	10	3/8	1/2	4112-8-10	4011-10	35.0	2 3/2	1 3/4	3/4	1 3/4	1 3/2	3/8	2 3/4	1 3/8
112-12-10	10	3/8	3/4	4112-12-10	4011-10	38.8	2 3/4	1 1/2	3/4	1 1/2	3/8	1 1/8	2 3/4	1 3/8
112-12-12	12	3/4	3/4	4112-12-12	4011-12	50.0	3 1/4	1 3/4	3/4	2 3/4	3/8	1 3/8	2 3/4	1 3/4
112-12-16	16	1"	3/4	4112-12-16	4011-16	50.1	2 3/4	1 3/2	3/4	2 3/4	3/8	1 3/8	1 3/8	1 3/8
112-16-16	16	1"	1"	4112-16-16	4011-16	63.1	2 3/4	1 3/2	1 1/8	2 3/4	2 1/2	1 3/8	1 3/8	1 3/8
112-20-20	20	1 1/4	1 1/4	4112-20-20	4011-20	107.8	3 3/8	1 3/4	3/2	1 3/2	1 1/8	1 3/4	1 3/4	1 3/4
112-24-24	24	1 1/2	1 1/2	4112-24-24	4011-24	123.4	3 3/4	1 3/4	1"	1 3/2	1 1/8	2"	1 3/2	2"
112-32-32	32	2"	2"	4112-32-32	4011-32	181.2	3 3/2	2 1/8	1 3/2	3/8	3/4	2 1/2	1 3/4	2 1/2

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 2

LENZ
111 J.I.C. SWIVEL
MANDREL TYPE
HOSE FITTING

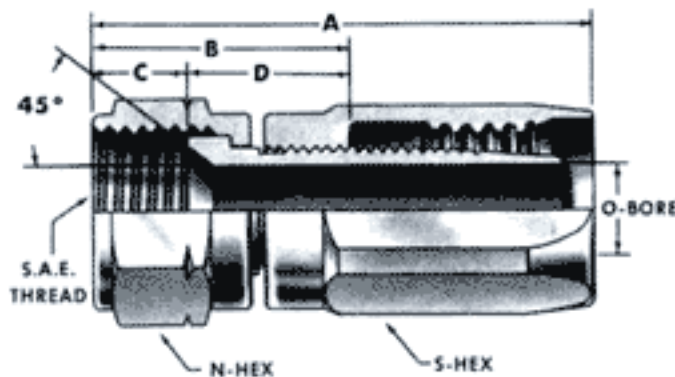
Code Letters When
Used On An Assembly **FJ**



PART NO.	HOSE SIZE	O.D. TUBE SIZE	J.I.C. THREAD	FITTING COMP. PARTS			WT. PER 100 PCS.	A	B	C	D	N NUT HEX	O	S SOCKET HEX
				NIPPLE	NUT	SOCKET								
111-4	4	1/4	3/8-20	4111-4	4205-4	4011-4	8.7	1 1/4	3/4	1 1/2	3/4	3/8	1 1/4	3/8
111-5	5	3/8	1/2-20	4111-5	4205-5	4011-5	10.4	1 1/8	1 3/2	1 3/2	1 1/8	3/8	1 3/4	1 1/8
111-6	6	3/8	3/8-18	4111-6	4205-6	4011-6	14.6	2 3/2	1 1/8	2 3/4	3/4	1 1/8	1 3/4	1 3/8
111-8	8	1/2	1/2-16	4111-8	4205-8	4011-8	24.0	2 3/4	1 1/4	2 3/4	3/4	3/8	2 3/4	1 3/8
111-10	10	3/8	3/8-14	4111-10	4205-10	4011-10	35.0	2 3/2	1 3/8	1 1/2	3/8	1"	2 3/4	1 3/8
111-12	12	3/4	1 1/8-12	4111-12	4205-12	4011-12	49.0	3 3/8	1 3/4	2 3/4	3/2	1 1/4	2 3/4	1 3/4
111-16	16	1"	1 1/8-12	4111-16	4205-16	4011-16	62.5	2 3/8	1 3/4	2 3/4	3/4	1 1/2	1 3/8	1 3/8
111-20	20	1 1/4	1 1/8-12	4111-20	4205-20	4011-20	118.4	3"	1 3/4	3/4	3/2	2"	1 3/4	1 3/4
111-24	24	1 1/2	1 1/8-12	4111-24	4205-24	4011-24	143.8	3 3/2	1 3/4	3/4	1 1/8	2 1/4	1 3/2	2"
111-32	32	2"	2 1/2-12	4111-32	4205-32	4011-32	237.0	4"	2 3/4	3/4	1 1/4	2 1/8	1 3/4	2 1/2

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 2

FITTINGS FOR TYPE "K & KR" HOSE S.A.E. 100R5

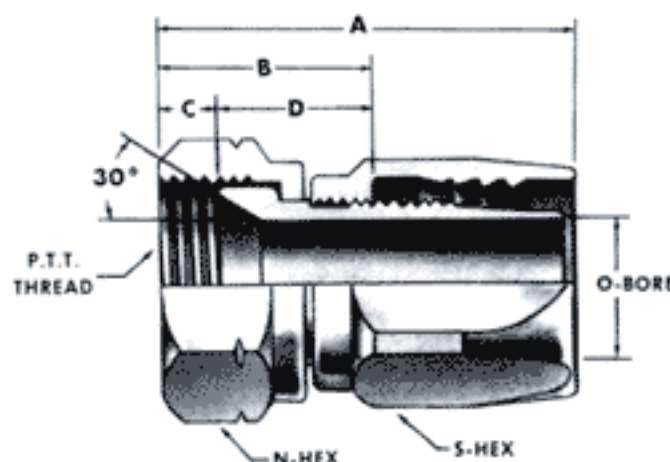


LENZ 101 S.A.E. SWIVEL MANDREL TYPE HOSE FITTING

Code Letters When
Used On An Assembly **FS**

PART NO.	HOSE SIZE	O.D. TUBE SIZE	S.A.E. THREAD	FITTING COMP. PARTS			WT. PER 100 PCS.	A	B	C	D	N NUT HEX	O	S SOCKET HEX
				NIPPLE	NUT	SOCKET								
101-4	4	1/4	3/8-20	4101-4	4213-4	4011-4	8.7	1 3/4	1"	1 1/2	4 1/4	3/8	1 1/4	3/8
101-5	5	3/8	1/2-20	4101-5	4213-5	4011-5	10.3	1 7/8	1 1/2	1 3/2	1 1/2	3/8	1 3/4	1 1/8
101-6	6	3/8	3/8-18	4101-6	4213-6	4011-6	15.2	2 1/2	1 1/4	1 3/2	2 1/2	3/4	1 3/4	1 1/8
101-8	8	1/2	3/4-16	4101-8	4213-8	4011-8	23.7	2 1/2	1 1/4	1 3/2	2 3/2	3/8	2 3/4	1 1/8
101-10	10	3/8	3/4-14	4101-10	4213-10	4011-10	34.5	2 3/2	1 3/4	2 3/4	1 3/2	1"	3 1/4	1 1/8
101-12	12	3/4	1 1/8-14	4101-12	4213-12	4011-12	45.9	3 1/8	1 3/4	2 3/4	1"	1 1/4	3 3/4	1 1/4

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 2



LENZ 106 P.T.T. SWIVEL HOSE FITTING

Code Letters When
Used On An Assembly **PS**

PART NO.	HOSE SIZE	O.D. TUBE SIZE	P.T.T. TH'D.	FITTING COMP. PARTS			WT. PER 100 PCS.	A	B	C	D	N NUT HEX	O	S SOCKET HEX
				NIPPLE	NUT	SOCKET								
106-16	16	1	1 1/8-14	4106-16	4213-16	4011-16	58.6	2 13/2	1 3/4	2 3/4	1 3/2	1 1/2	1 3/4	1 1/8
106-20	20	1 1/4	1 1/8-14	4106-20	4213-20	4011-20	105.4	2 3/4	1 3/8	3 3/4	2 3/4	2"	1 3/4	1 1/4
106-24	24	1 1/2	1 1/8-14	4106-24	4213-24	4011-24	127.5	3 13/4	1 3/4	4 3/4	1 3/2	2 1/4	1 3/2	2"
106-32	32	2	2 1/8-12	4106-32	4205-32	4011-32	218.0	4"	2 3/2	5 3/4	1 3/4	2 3/8	1 3/4	2 1/2

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 2

MANDREL ASSEMBLY TOOLS (Use For Assembling Full Flow Fittings To K or KR Hose)



WHY MANDRELS ARE USED

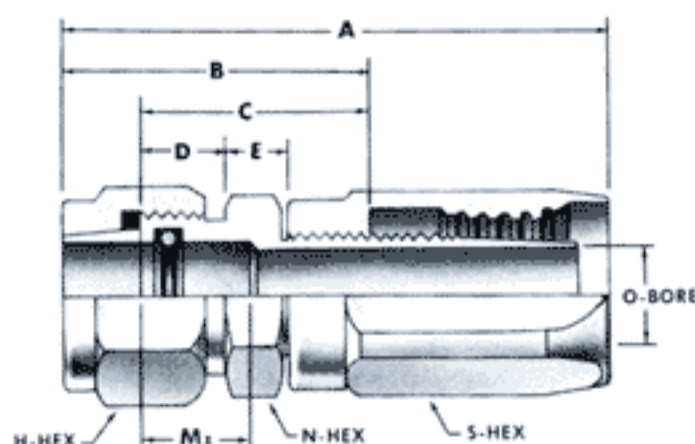
Full flow fittings for type K and KR hose require mandrel type assembly tools. These tools when installed in a hose nipple, prevent cutting of the hose inner tube. On swivel nut hose nipples, the threads tighten in the nut and provide a way to drive the nipple. **Size 16 and larger do not require mandrels for assembly.**

J.I.C. MANDREL (Threaded For 111 Series Fittings) PART NO.	S.A.E. MANDREL (Threaded For 101 Series Fittings) PART NO.
2851-4	2851-4
2851-5	2851-5
3851-6 J.I.C. Only	2851-6
2851-8	2851-8
2851-10	2851-10
3851-12 J.I.C. Only	2851-12

Either of the above types is satisfactory for assembly of the 112, or 116 series fittings, as the thread on the mandrel is not used when assembling these fittings.

LENZ
116 "O-RING SEAL"
TUBE END MALE
MANDREL TYPE
HOSE FITTING

Code Letters When
Used On An Assembly **LT**



PART NO.	HOSE SIZE	O.D. TUBE SIZE	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	E	H NUT HEX	MX	N NIPPLE HEX	O	S SOCKET HEX
			NIPPLE ASS'Y.	SOCKET											
116-4	4	1/4	4116-4	4011-4	11.3	2"	1 1/4	1 1/8	1 1/2	3/8	3/8	1 1/2	1/2	1 1/4	3/8
116-5	5	3/8	4116-5	4011-5	13.1	2 1/2	1 3/8	1"	1 3/2	3/8	1 1/8	1 1/2	3/4	1 3/4	1 1/8
116-6	6	3/4	4116-6	4011-6	17.2	2 3/4	1 3/8	1 1/8	1 3/2	1/4	3/4	3/8	3/8	1 3/4	1 3/8
116-8	8	1/2	4116-8	4011-8	33.8	2 3/8	1 3/8	1 3/8	1 3/2	1/4	1"	3/8	3/8	2 3/4	1 3/8
116-10	10	3/4	4116-10	4011-10	45.5	3 1/4	1 3/8	1 3/8	1 3/2	3/8	1 1/8	1 1/8	1"	2 3/4	1 3/8
116-12	12	3/4	4116-12	4011-12	65.5	3 3/4	2 3/4	1 3/4	1 3/8	2 3/4	1 1/4	3/4	1 1/8	2 3/4	1 1/4
116-16	16	1"	4116-16	4011-16	95.3	3 3/8	2 3/4	1 3/4	3/4	3/8	1 3/8	7/8	1 1/2	1 3/8	1 3/8
116-20	20	1 1/4	4116-20	4011-20	162.0	3 3/2	2 3/4	1 3/4	3/8	3/8	2	1 3/2	1 3/4	1 3/4	1 3/4
116-24	24	1 1/2	4116-24	4011-24	201.0	4 1/2	2 3/4	1 3/4	3/8	1 1/2	2 1/4	1 3/2	2"	1 3/2	2"
116-32	32	2"	4116-32	4011-32	320.0	5 3/8	3 3/8	2 3/2	1"	3/8	3"	1 3/4	2 3/8	1 3/4	2 1/2

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 2

LENZ SINGLE WIRE BRAID • K and KR MEDIUM PRESSURE
NON-MANDREL TYPE HOSE FITTINGS

(For Assembly In The Field Without Mandrels or Other Special Tools)

These Fittings (102, 114, 118, 121, 122 and 123) have been designed for use with Single Wire Braid, Medium Pressure Type K or KR Hose. They differ from the "Full Flow" Fittings as shown on pages 4, 5 and 6 in that they have a longer stem with slightly smaller bore. They require no special tools or preparation for assembly, such as mandrels or skiving. They can be assembled right on the job, in the field, in the shop or on the road - quickly and

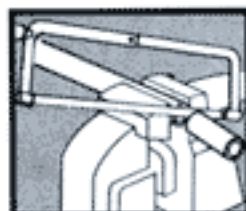
easily. The J.I.C. and S.A.E. Swivels have a hex on the stem that contributes to the ease and simplicity of assembly. These Fittings are well adapted for use in assemblies where conditions unfavorable to normal maintenance exist or are such that special tools and facilities are not always available, for example, in the maintenance of farm, road and mobile equipment. (See the note and assembly instructions below.)

NOTE:

LENZ 121, 122 and 123 FITTINGS

These fittings can be ordered in factory made-up assemblies if specified, otherwise Lenz Mandrel Type Fittings (111, 112 & 101) will be used where available.

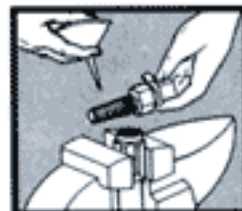
HOW TO ASSEMBLE LENZ NON-MANDREL TYPE FITTINGS AND HOSE



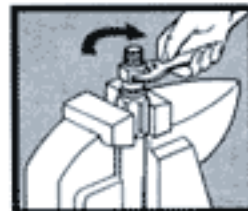
1. Cut hose square to desired length using fine-tooth hacksaw or cut-off wheel



2. Hold socket securely with wrench or place in vise, if available, and screw hose in counter-clockwise using body weight to start threading.



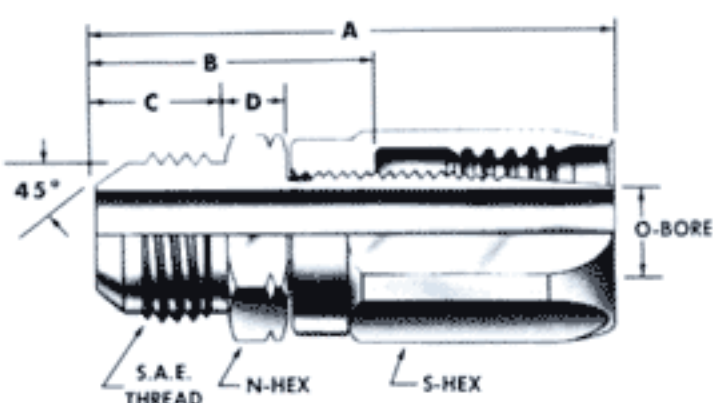
3. Oil inside of hose and socket threads. This lubrication makes assembly much easier.



4. Screw nipple into socket using wrench on hex of nipple.

LENZ **102 S.A.E. MALE FLARE** **NON-MANDREL TYPE** **HOSE FITTING**

Code Letters When
Used On An Assembly **MS**



LENZ
HOSE
FITTINGS

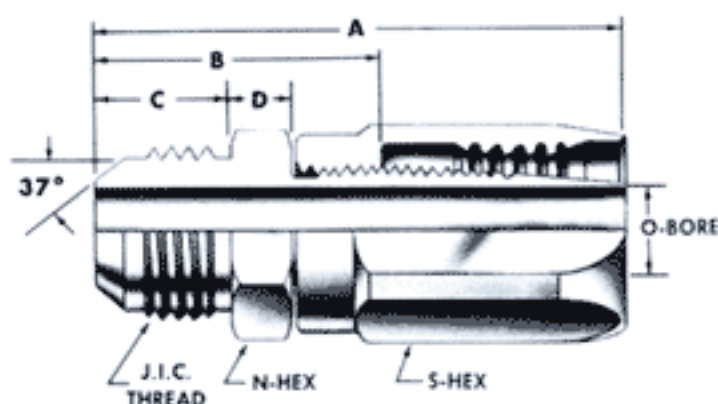
SINGLE WIRE BRAID
 TYPE K & KR HOSE
 NON-MANDREL FITTING
 COTTON OR RUBBER C
 MEDIUM PRESSURE

PART NO.	HOSE SIZE	O.D. TUBE SIZE	S.A.E. THREAD	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	N NIPPLE HEX	O	S SOCKET HEX
				NIPPLE	SOCKET								
102-4	4	1/4	1/2-20	4102-4	4011-4	8.1	1 1/4	1 1/2	1/2	3/8	1/2	1/8	3/8
102-5	5	3/8	1/2-20	4102-5	4011-5	10.0	1 3/8	1 3/4	5/8	1 1/4	3/8	1 1/4	1 1/8
102-6	6	1/2	3/4-18	4102-6	4011-6	15.0	2 1/8	1 3/4	3/4	1 1/4	1 1/8	1 1/4	1 3/8
102-8	8	3/4	1/2-16	4102-8	4011-8	24.1	2 3/4	1 3/4	3/4	1 1/4	1 1/8	1 3/4	1 3/8
102-10	10	1	3/4-14	4102-10	4011-10	37.5	3"	1 1/2	3/4	1 1/4	1 1/8	1 3/4	1 3/8
102-12	12	1 1/4	1 1/2-14	4102-12	4011-12	54.7	3 1/2	1 3/4	1"	1 1/2	1 1/8	1 3/4	1 3/8

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 2

LENZ **114 J.I.C. MALE FLARE** **NON-MANDREL TYPE** **HOSE FITTING**

Code Letters When
Used On An Assembly **MJ**

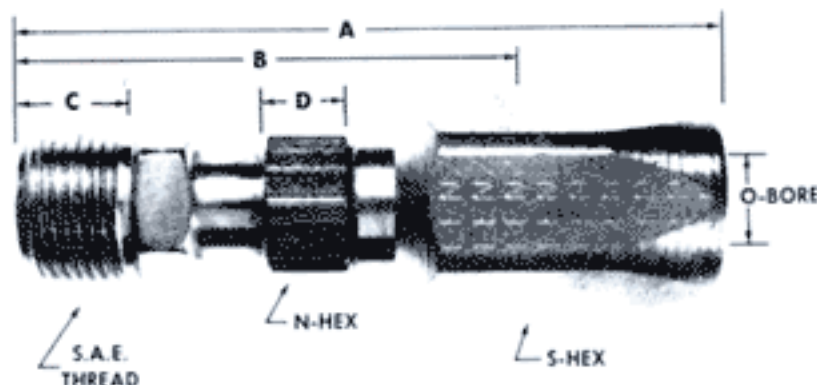


PART NO.	HOSE SIZE	O.D. TUBE SIZE	J.I.C. THREAD	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	N NIPPLE HEX	O	S SOCKET HEX
				NIPPLE	SOCKET								
114-4	4	1/4	1/2-20	4114-4	4011-4	8.1	1 1/4	1 1/2	1/2	3/8	1/2	1/8	3/8
114-5	5	3/8	1/2-20	4114-5	4011-5	10.0	1 3/8	1 3/4	5/8	1 1/4	3/8	1 1/4	1 1/8
114-6	6	1/2	3/4-18	4114-6	4011-6	14.4	2 1/8	1 3/4	3/4	1 1/4	1 1/8	1 1/4	1 3/8
114-8	8	3/4	1/2-16	4114-8	4011-8	23.8	2 3/4	1 3/4	3/4	1 1/4	1 1/8	1 3/4	1 3/8
114-10	10	1	3/4-14	4114-10	4011-10	35.0	2 3/4	1 1/2	3/4	1 1/4	1 1/8	1 3/4	1 3/8
114-12	12	1 1/4	1 1/2-12	4114-12	4011-12	50.0	3 1/2	1 3/4	1 1/4	1 1/2	1 1/8	1 3/4	1 3/8
114-16	16	1 1/2	1 1/2-12	4114-16	4011-16	62.5	2 3/4	1 1/2	1 1/4	1 1/4	1 1/8	1 3/4	1 3/8
114-20	20	2	1 1/2-12	4114-20	4011-20	103.0	3 1/2	1 1/2	1 1/4	1 1/4	1 1/8	1 3/4	1 3/8
114-24	24	2 1/2	1 1/2-12	4114-24	4011-24	141.0	3 1/2	1 1/2	1 1/4	1 1/2	1 1/8	1 3/4	1 3/8

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 2

LENZ **115 S.A.E. MALE INVERTED SWIVEL** **HOSE FITTING**

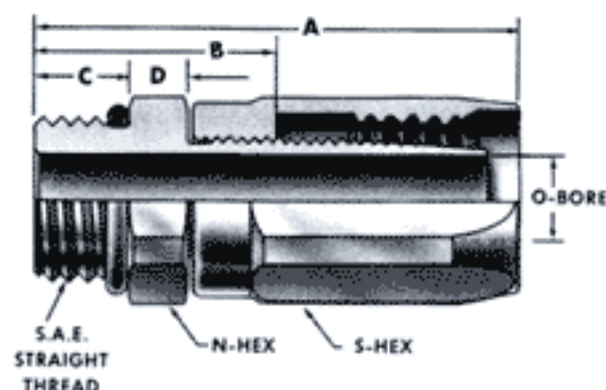
ALSO AVAILABLE IN 90° ELBOW & 45° ELBOW



PART NO.	HOSE SIZE	O.D. TUBE SIZE	S.A.E. THREAD	FITTING COMP. PARTS		A	B	C	D	N NIPPLE HEX	O	S SOCKET HEX
				NIPPLE	SOCKET							
115-4	4	1/4	1/2-24	4115-4	4011-4	2 1/2	1 3/4	3/8	1/4	3/8	1/8	3/8
115-5	5	3/8	1/2-20	4115-5	4011-5	2 3/8	1 3/4	3/8	3/8	3/8	1 1/4	1 1/8
115-6	6	1/2	3/4-18	4115-6	4011-6	2 3/4	1 3/4	3/8	3/8	1/2	1 1/4	1 3/8
115-8	8	3/4	1/2-16	4115-8	4011-8	3 1/8	1 3/4	3/8	3/8	3/8	1 3/4	1 3/8

LENZ
118 S.A.E. O-RING
STRAIGHT THREAD MALE
NON-MANDREL TYPE
HOSE FITTING

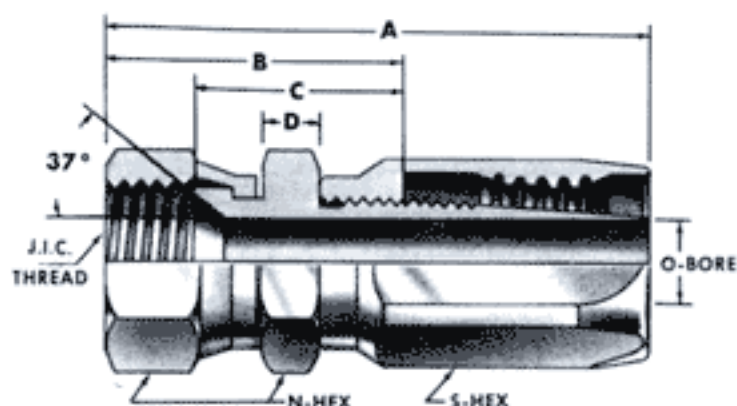
Code Letters When
Used On An Assembly **ST**



PART NO.	HOSE SIZE	O.D. TUBE SIZE	S.A.E. THREAD	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	N NIPPLE HEX	O	S SOCKET HEX
				NIPPLE	SOCKET								
118-4	4	1/4	3/8-20	4118-4	4011-4	8.1	1 1/4	3/4	2 3/4	3/8	3/8	1/8	3/8
118-5	5	3/8	1/2-20	4118-5	4011-5	10.0	1 3/4	3/4	2 3/4	3/8	3/8	1 1/4	1 1/8
118-6	6	3/8	3/8-18	4118-6	4011-6	14.5	1 3/8	1 1/2	2 3/4	1/4	1 1/8	1 3/4	1 3/8
118-8	8	1/2	3/4-16	4118-8	4011-8	23.8	2 1/2	1 3/2	3/8	1/4	3/8	1 1/2	1 3/8
118-10	10	3/8	7/8-14	4118-10	4011-10	32.5	2 3/8	1 3/4	1/2	3/8	1"	2 3/4	1 3/8
118-12	12	3/4	1 1/8-12	4118-12	4011-12	51.3	3 3/2	1 7/2	1 1/2	2 3/4	1 1/4	3/8	1 1/4
118-16	16	1"	1 3/8-12	4118-16	4011-16	60.8	2 3/2	1 3/4	1 1/2	1 3/2	1 1/2	1 3/8	1 3/8
118-20	20	1 1/4	1 3/8-12	4118-20	4011-20	97.0	2 3/4	1 3/4	1 1/2	1 3/2	1 1/8	1 3/4	1 3/4
118-24	24	1 1/2	1 3/8-12	4118-24	4011-24	136.0	2 3/2	1 3/4	1 1/2	1 3/2	2 1/8	1 3/4	2"

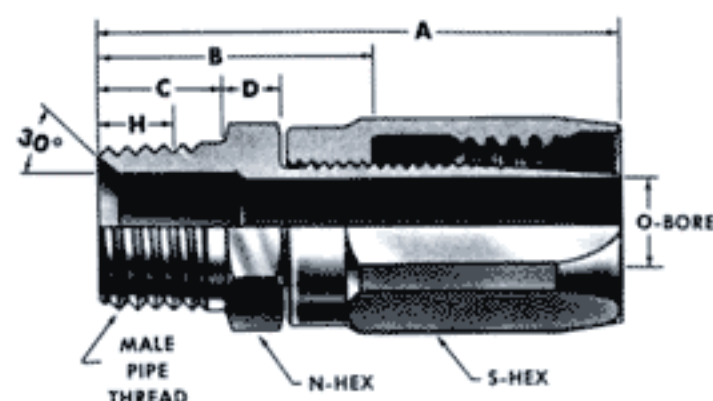
For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 2

LENZ
121 J.I.C. SWIVEL
NON-MANDREL TYPE
HOSE FITTING



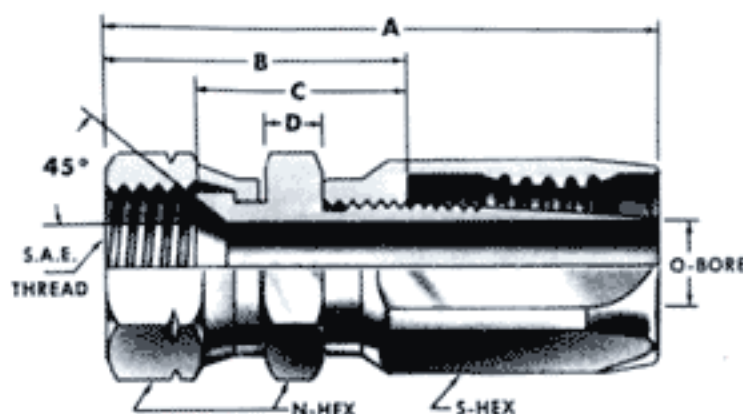
PART NO.	HOSE SIZE	O.D. TUBE SIZE	J.I.C. THREAD	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	N NUT & NIPPLE HEX	O	S SOCKET HEX
				NIPPLE-NUT ASSEMBLY	SOCKET								
121-4	4	1/4	3/8-20	4121-4	4011-4	9.6	1 1/8	1 3/8	2 3/4	3/8	3/8	1/8	3/8
121-5	5	3/8	1/2-20	4121-5	4011-5	12.1	2 3/4	1 3/4	1 1/2	3/8	3/8	1 1/4	1 1/8
121-6	6	3/8	3/8-18	4121-6	4011-6	16.6	2 3/8	1 1/2	1 3/4	1 1/4	1 1/8	1 3/4	1 3/8
121-8	8	1/2	3/4-16	4121-8	4011-8	26.9	2 3/2	1 3/4	1 3/4	3/2	3/8	1 1/2	1 3/8
121-10	10	3/8	7/8-14	4121-10	4011-10	40.6	3 3/8	1 3/4	1 1/4	3/8	1"	2 3/4	1 3/8
121-12	12	3/4	1 1/8-12	4121-12	4011-12	57.3	3 1/2	1 3/4	1 1/2	3/8	1 1/4	3/8	1 1/4
121-16	16	1"	1 3/8-12	4121-16	4011-16	70.0	3 3/8	1 3/4	1 1/4	3/8	1 1/2	1 3/8	1 3/8
121-20	20	1 1/4	1 3/8-12	4121-20	4011-20	135.0	3 3/8	2 1/2	1 3/8	1 1/2	2"	1 3/4	1 3/4
121-24	24	1 1/2	1 3/8-12	4121-24	4011-24	171.0	3 3/2	2 1/4	1 1/2	1 1/2	2 1/4	1 3/2	2"
121-32	32	2"	2 1/8-12	4121-32	4011-32	276.0	4 3/8	2 3/4	1 1/2	2 3/4	2 1/8	1 3/4	2 1/2

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 2

LENZ
122 MALE PIPE
NON-MANDREL TYPE
HOSE FITTING


PART NO.	HOSE SIZE	O.D. TUBE SIZE	MALE PIPE TH'D.	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	H*	N NIPPLE HEX	O	S SOCKET HEX
				NIPPLE	SOCKET									
122-2-4	4	1/4	1/8	4122-2-4	4011-4	8.1	1 1/4	3/4	3/4	3/8	1/2	3/8	1/8	3/8
122-4-4	4	1/4	1/4	4122-4-4	4011-4	9.8	1 3/4	1 1/4	3/4	3/8	3/8	3/8	1/8	3/8
122-4-5	5	3/8	1/4	4122-4-5	4011-5	10.9	1 3/4	1 3/8	3/4	3/8	3/8	3/8	1 1/4	1 1/8
122-4-6	6	3/8	1/4	4122-4-6	4011-6	14.4	2 1/4	1 3/4	3/4	3/2	3/8	3/8	1 3/4	1 3/8
122-6-6	6	3/8	3/8	4122-6-6	4011-6	15.4	2 1/4	1 3/4	3/4	1/2	1 1/2	1 1/8	1 3/4	1 3/8
122-6-8	8	1/2	3/8	4122-6-8	4011-8	22.9	2 3/4	1 3/4	3/4	1/2	1 1/2	1 1/8	1 1/2	1 3/8
122-8-8	8	1/2	1/2	4122-8-8	4011-8	26.3	2 3/4	1 3/8	3/4	3/8	1 1/2	1 1/8	1 1/2	1 3/8
122-8-10	10	3/4	1/2	4122-8-10	4011-10	36.0	2 3/4	1 3/2	3/4	3/2	1 1/2	1 1/8	2 1/4	1 1/8
122-12-10	10	3/4	3/4	4122-12-10	4011-10	45.7	2 3/4	1 3/2	3/4	1 1/2	3/8	1 1/8	2 1/4	1 1/8
122-12-12	12	3/4	3/4	4122-12-12	4011-12	48.9	3 1/4	1 3/4	3/4	1 1/2	3/8	1 1/8	3/8	1 1/4

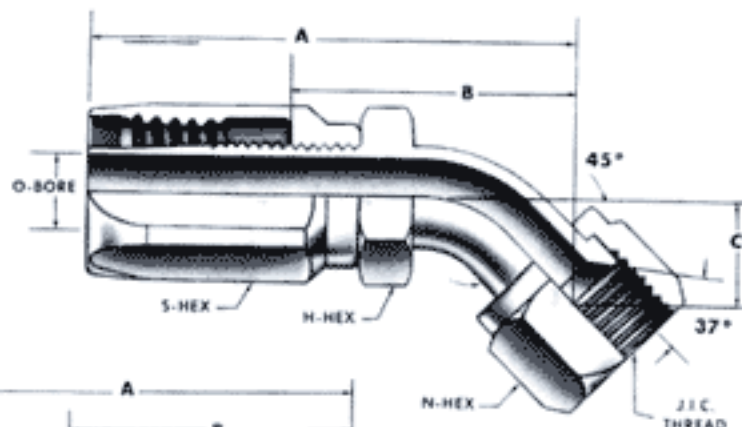
For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 2

LENZ
123 S.A.E. SWIVEL
NON-MANDREL TYPE
HOSE FITTING


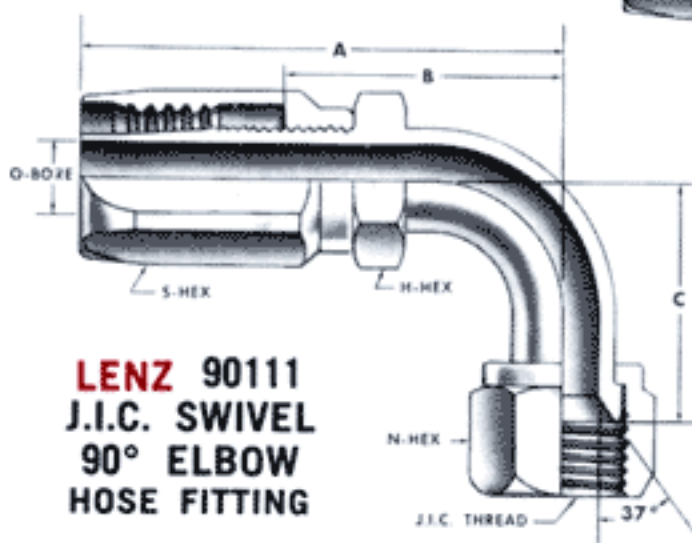
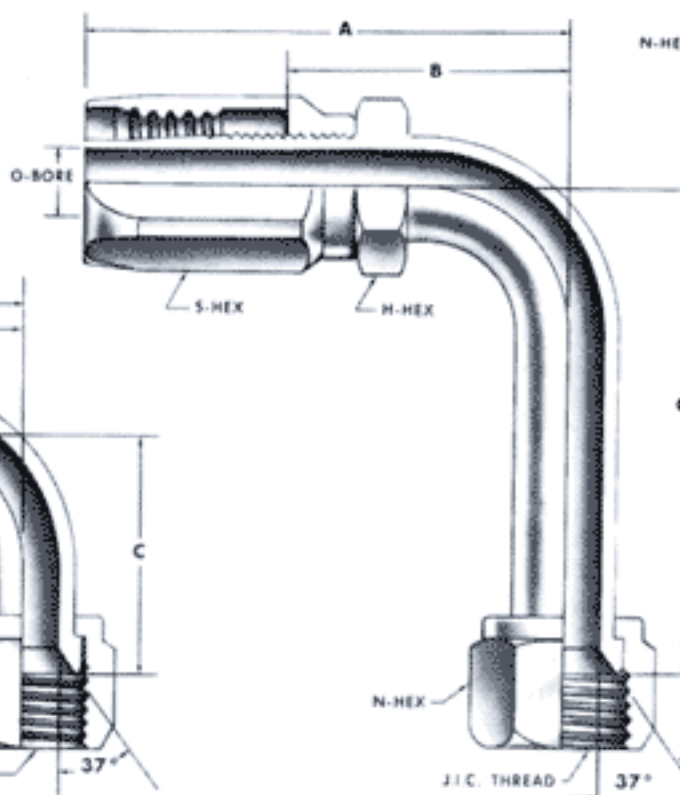
PART NO.	HOSE SIZE	O.D. TUBE SIZE	S.A.E. THREAD	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	N NUT & NIPPLE HEX	O	S SOCKET HEX
				NIPPLE-NUT ASSEMBLY	SOCKET								
123-4	4	1/4	1/8-20	4123-4	4011-4	9.6	1 1/8	1 3/8	3/4	3/8	3/8	1/8	3/8
123-5	5	3/8	1/2-20	4123-5	4011-5	12.1	2 3/4	1 3/4	3/4	3/8	3/8	1 1/4	1 1/8
123-6	6	3/8	3/8-18	4123-6	4011-6	17.8	2 1/2	1 3/8	1 1/4	1 1/4	3/4	1 3/4	1 3/8
123-8	8	1/2	3/4-16	4123-8	4011-8	26.5	2 3/2	1 3/4	1 1/4	3/2	7/8	1 1/2	1 3/8
123-10	10	3/4	1 1/8-14	4123-10	4011-10	40.7	3 3/8	1 3/4	1 1/4	3/8	1"	2 1/4	1 1/8
123-12	12	3/4	1 1/8-14	4123-12	4011-12	59.8	3 1/2	1 3/4	1 1/2	3/8	1 1/4	3/8	1 1/4

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 2

LENZ 45111
J.I.C. SWIVEL
45° ELBOW
HOSE FITTING



LENZ 90111L
J.I.C. SWIVEL
LONG 90° ELBOW
HOSE FITTING



LENZ 90111
J.I.C. SWIVEL
90° ELBOW
HOSE FITTING

NOTE
STEM
DIMENSIONS
SAME AS
NON-MANDREL
TYPE FOR
EASY ASSEMBLY

45111—J.I.C. SWIVEL 45° ELBOW

PART NO.	HOSE SIZE	O.D. TUBE SIZE	J.I.C. THREAD	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	H NIPPLE HEX	N NUT HEX	O	S SOCKET HEX
				NIPPLE-NUT ASSEMBLY	SOCKET								
45111-4	4	1/4	3/8-20	445111-4	4011-4	9.5	1 1/2	1 1/4	2 1/4	3/8	3/8	1/8	3/8
45111-5	5	3/8	1/2-20	445111-5	4011-5	12.1	1 3/8	1 3/2	2 3/4	3/8	3/8	1 1/4	1 1/8
45111-6	6	3/4	3/4-18	445111-6	4011-6	17.0	2 1/4	1 3/4	2 3/4	3/8	1 1/8	1 3/4	1 3/8
45111-8	8	1	1 1/4-16	445111-8	4011-8	23.0	2 3/4	1 7/8	3 1/4	1 1/8	3/8	1 1/2	1 3/8
45111-10	10	1 1/4	1 3/4-14	445111-10	4011-10	44.7	3 1/4	1 1/2	4 1/4	1 1/8	1"	2 3/4	1 3/8
45111-12	12	1 3/4	1 3/4-12	445111-12	4011-12	63.5	3 3/4	2 1/2	4 3/4	1 1/8	1 1/4	3/8	1 1/4
45111-16	16	2	1 3/4-12	445111-16	4011-16	83.6	3 3/4	2 1/2	4 3/4	1 1/8	1 1/2	1 3/8	1 1/4

90111—J.I.C. SWIVEL 90° ELBOW

90111-4	4	1/4	3/8-20	490111-4	4011-4	10.7	1 1/4	1"	1 1/4	3/8	3/8	1/8	3/8
90111-5	5	3/8	1/2-20	490111-5	4011-5	12.3	1 3/8	1 3/8	2 1/4	3/8	3/8	1 1/4	1 1/8
90111-6	6	3/4	3/4-18	490111-6	4011-6	17.0	2 1/4	1 3/4	2 3/4	3/8	1 1/8	1 3/4	1 3/8
90111-8	8	1	1 1/4-16	490111-8	4011-8	25.5	2 3/4	1 7/8	3 1/4	1 1/8	3/8	1 1/2	1 3/8
90111-10	10	1 1/4	1 3/4-14	490111-10	4011-10	47.0	2 3/4	1 1/2	4 1/4	1 1/8	1"	2 3/4	1 3/8
90111-12	12	1 3/4	1 3/4-12	490111-12	4011-12	66.2	3 3/4	2 1/2	4 3/4	1 1/8	1 1/4	3/8	1 1/4
90111-16	16	2	1 3/4-12	490111-16	4011-16	90.1	3 3/4	2 1/2	4 3/4	1 1/8	1 1/2	1 3/8	1 1/4

***90111L—J.I.C. SWIVEL LONG 90° ELBOW**

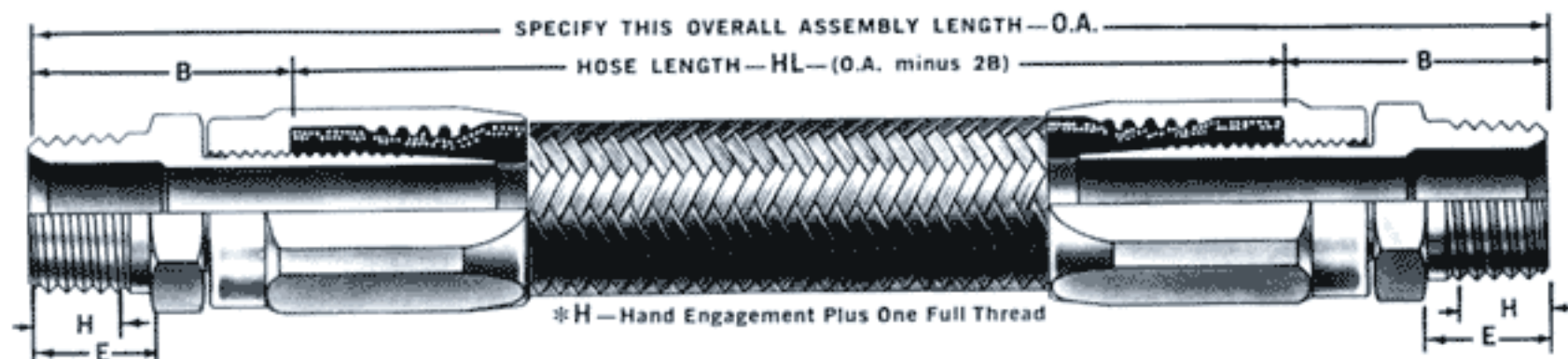
90111L-4	4	1/4	3/8-20	490111L-4	4011-4	11.5	1 1/4	1"	1 1/4	3/8	3/8	1/8	3/8
90111L-5	5	3/8	1/2-20	490111L-5	4011-5	14.4	1 3/8	1 3/8	2 1/4	3/8	3/8	1 1/4	1 1/8
90111L-6	6	3/4	3/4-18	490111L-6	4011-6	18.3	2 1/4	1 3/4	2 3/4	3/8	1 1/8	1 3/4	1 3/8
90111L-8	8	1	1 1/4-16	490111L-8	4011-8	29.0	2 3/4	1 7/8	3 1/4	1 1/8	3/8	1 1/2	1 3/8
90111L-10	10	1 1/4	1 3/4-14	490111L-10	4011-10	50.3	2 3/4	1 1/2	4 1/4	1 1/8	1"	2 3/4	1 3/8
90111L-12	12	1 3/4	1 3/4-12	490111L-12	4011-12	75.0	3 3/4	2 1/2	4 3/4	1 1/8	1 1/4	3/8	1 1/4
90111L-16	16	2	1 3/4-12	490111L-16	4011-16	104.0	3 3/4	2 1/2	4 3/4	1 1/8	1 1/2	1 3/8	1 1/4

***NOTE**—Fitting 90111L Is Designed To Position Hose Assembly ABOVE Another Assembly Using Fitting 90111.

**LENZ SINGLE WIRE BRAID • DOUBLE MALE
K & KR HOSE ASSEMBLIES
MALE PIPE END TO MALE PIPE END**



SINGLE WIRE BRAID
TYPE K & KR HOSE
ASSEMBLIES
COTTON OR RUBBER COVER
MEDIUM PRESSURE



For Hose O. D., Working Pressure And Complete Hose Information See Page 2

COTTON COVER** HOSE ASS'Y. NO.	RUBBER COVER HOSE ASS'Y. NO.	O.D. TUBE SIZE	MALE PIPE TH'D.	HOSE SIZE	HOSE I.D.	MALE PIPE FITTING	MALE C'PL'G. ALLOWANCE B	TOTAL C'PL'G. ALLOWANCE 2B	E	H*
4K-2MP-OA	4KR-2MP-OA	4	1/8"	4	3/8"	112-2-4	1 1/8"	1 1/8"	3/8"	1/2"
4K-4MP-OA	4KR-4MP-OA	4	1/8"	4	3/8"	112-4-4	1 1/8"	2 1/4"	3/8"	3/8"
5K-4MP-OA	5KR-4MP-OA	5	1/8"	5	1/2"	112-4-5	1 1/8"	2 3/8"	3/8"	3/8"
6K-4MP-OA	6KR-4MP-OA	6	1/8"	6	3/8"	112-4-6	1 1/8"	2 3/8"	3/8"	3/8"
6K-6MP-OA	6KR-6MP-OA	6	1/8"	6	3/8"	112-6-6	1 1/8"	2 1/2"	3/8"	1 1/2"
8K-6MP-OA	8KR-6MP-OA	8	1/8"	8	1 1/2"	112-6-8	1 1/8"	2 3/8"	1 1/2"	1 1/2"
8K-8MP-OA	8KR-8MP-OA	8	1/2"	8	1 1/2"	112-8-8	1 1/8"	3 1/8"	3/4"	1 1/2"
10K-8MP-OA	10KR-8MP-OA	10	1/2"	10	1/2"	112-8-10	1 1/8"	3 3/8"	2 1/2"	1 1/2"
10K-12MP-OA	10KR-12MP-OA	10	1/2"	10	1/2"	112-12-10	1 1/8"	3 3/8"	2 1/2"	3/4"
12K-12MP-OA	12KR-12MP-OA	12	1/2"	12	3/8"	112-12-12	1 1/8"	3 3/8"	2 1/2"	3/4"
16K-12MP-OA	16KR-12MP-OA	16	1/2"	16	3/8"	112-12-16	1 1/8"	3 3/8"	2 1/2"	3/4"
16K-16MP-OA	16KR-16MP-OA	16	1"	16	3/8"	112-16-16	1 1/8"	3 3/8"	2 1/2"	2 1/2"
20K-20MP-OA	20KR-20MP-OA	20	1 1/4"	20	1 1/8"	112-20-20	1 1/8"	3 3/4"	1"	1 1/8"
24K-24MP-OA	24KR-24MP-OA	24	1 1/2"	24	1 3/8"	112-24-24	2 1/2"	4 3/8"	1 1/2"	1 1/4"
32K-32MP-OA	32KR-32MP-OA	32	2"	32	1 1/2"	112-32-32	2 3/8"	4 3/8"	1 1/4"	3/4"

NOTE: If both ends do not have the same pipe thread add a second MP number — Example: 4K-2MP-4MP-O.A.

**LENZ SINGLE WIRE BRAID • DOUBLE SWIVEL
K & KR HOSE ASSEMBLIES • J.I.C. FEMALE SWIVEL TO J.I.C. FEMALE SWIVEL**

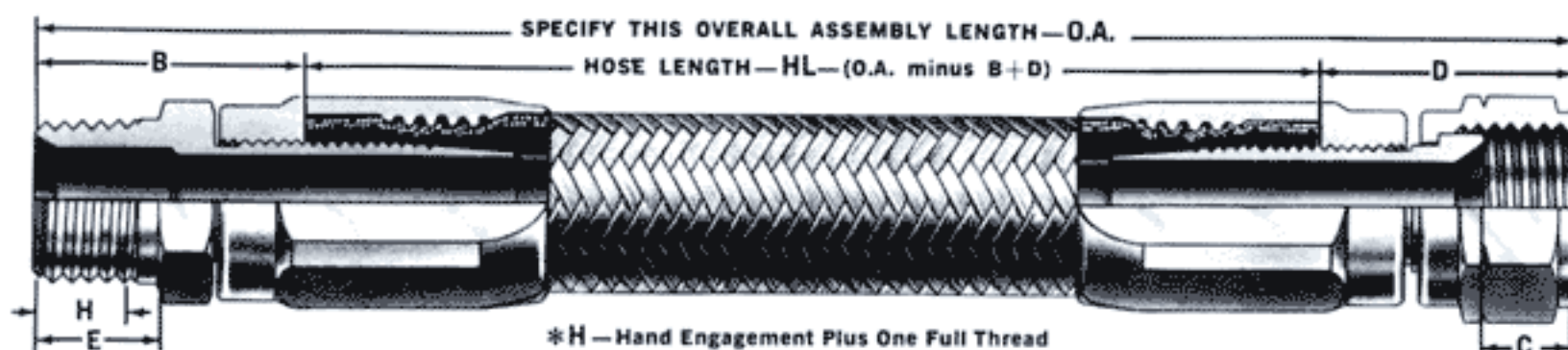


**Specify KS in place of K for Assemblies to Handle Fire Resistant Fluids — See Page 2

For Hose O. D., Working Pressure And Complete Hose Information See Page 2

COTTON COVER** HOSE ASS'Y. NO.	RUBBER COVER HOSE ASS'Y. NO.	O.D. TUBE SIZE	J.I.C. SWIVEL TH'D.	HOSE SIZE	HOSE I.D.	J.I.C. SWIVEL FITTING	C	J.I.C. SWIVEL COUPLING ALLOWANCE D	TOTAL COUPLING ALLOWANCE 2D
4K-4FJ-OA	4KR-4FJ-OA	4	1/8"-20	4	3/8"	111-4	3/8"	1"	2"
5K-5FJ-OA	5KR-5FJ-OA	5	1/8"-20	5	1/2"	111-5	1 1/2"	1 1/8"	2 1/4"
6K-6FJ-OA	6KR-6FJ-OA	6	1/8"-18	6	3/8"	111-6	1 1/2"	1 1/2"	2 3/8"
8K-8FJ-OA	8KR-8FJ-OA	8	1/4"-16	8	1 1/2"	111-8	3/8"	1 1/8"	2 3/4"
10K-10FJ-OA	10KR-10FJ-OA	10	1/4"-14	10	1/2"	111-10	1/2"	1 1/2"	3"
12K-12FJ-OA	12KR-12FJ-OA	12	1 1/8"-12	12	3/8"	111-12	1 1/2"	1 1/2"	3 1/8"
16K-16FJ-OA	16KR-16FJ-OA	16	1 1/8"-12	16	3/8"	111-16	3/8"	1 1/8"	3 1/8"
20K-20FJ-OA	20KR-20FJ-OA	20	1 1/8"-12	20	1 1/8"	111-20	2 1/2"	1 1/8"	3 1/4"
24K-24FJ-OA	24KR-24FJ-OA	24	1 1/8"-12	24	1 3/8"	111-24	3/4"	1 1/8"	3 1/8"
32K-32FJ-OA	32KR-32FJ-OA	32	2 1/2"-12	32	1 1/2"	111-32	1 1/8"	2 1/2"	4 1/8"

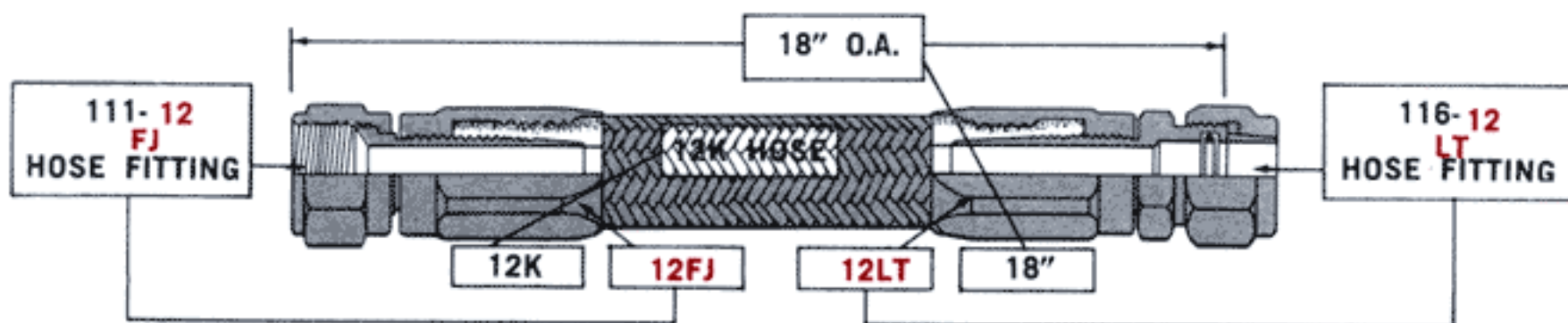
**LENZ SINGLE WIRE BRAID • MALE TO SWIVEL
K, & KR HOSE ASSEMBLIES
MALE PIPE END TO J.I.C. FEMALE SWIVEL**



For Hose O. D., Working Pressure And Complete Hose Information See Page 2

COTTON COVER** HOSE ASS'Y. NO.	RUBBER COVER HOSE ASS'Y. NO.	O.D. TUBE SIZE	MALE PIPE TH'D.	J.I.C. SWIVEL THREAD	HOSE SIZE	HOSE I.D.	MALE PIPE FITTING	J.I.C. SWIVEL FITTING	MALE C'PL'G ALLOW. B	E	C	J.I.C. SW. C'PL'G ALLOW. D	TOTAL C'PL'G ALLOW. B & D	H*
4K-2MP-4FJ-OA	4KR-2MP-4FJ-OA	4	1/4	1/4-20	4	3/8	112-2-4	111-4	1 1/4	3/8	3/8	1"	1 1/4	3/2
4K-4MP-4FJ-OA	4KR-4MP-4FJ-OA	4	1/4	1/4-20	4	3/8	112-4-4	111-4	1 1/4	3/8	3/8	1"	2 1/4	3/8
5K-4MP-5FJ-OA	5KR-4MP-5FJ-OA	5	1/4	1/4-20	5	1/2	112-4-5	111-5	1 3/4	3/8	1 1/2	1 1/8	2 3/4	3/8
6K-4MP-6FJ-OA	6KR-4MP-6FJ-OA	6	1/4	1/4-18	6	3/8	112-4-6	111-6	1 3/4	3/8	1 1/2	1 1/2	2 3/4	3/8
6K-6MP-6FJ-OA	6KR-6MP-6FJ-OA	6	3/8	3/8-18	6	3/8	112-6-6	111-6	1 1/4	3/8	1 1/2	1 1/2	2 1/2	1 1/2
8K-6MP-8FJ-OA	8KR-6MP-8FJ-OA	8	3/8	3/8-16	8	1 1/2	112-6-8	111-8	1 3/4	1 1/2	3/4	1 3/8	2 1/4	1 1/2
8K-8MP-8FJ-OA	8KR-8MP-8FJ-OA	8	1/2	1/2-16	8	1 1/2	112-8-8	111-8	1 1/2	3/4	3/8	1 3/8	2 1/4	1 1/2
10K-8MP-10FJ-OA	10KR-8MP-10FJ-OA	10	1/2	1/2-14	10	1/2	112-8-10	111-10	1 1/2	3/4	1/2	1 1/2	3 1/2	1 1/2
10K-12MP-10FJ-OA	10KR-12MP-10FJ-OA	10	3/4	3/4-14	10	1/2	112-12-10	111-10	1 3/4	3/4	1/2	1 1/2	3 1/2	3/4
12K-12MP-12FJ-OA	12KR-12MP-12FJ-OA	12	3/4	1 1/4-12	12	3/4	112-12-12	111-12	1 1/4	3/4	1 1/2	1 1/2	3 1/2	3/4
16K-12MP-16FJ-OA	16KR-12MP-16FJ-OA	16	3/4	1 1/4-12	16	3/4	112-12-16	111-16	1 3/4	3/4	3/8	1 1/4	3 1/2	3/4
16K-16MP-16FJ-OA	16KR-16MP-16FJ-OA	16	1"	1 1/4-12	16	3/4	112-16-16	111-16	1 3/4	3/4	3/8	1 1/4	3 1/2	3/4
20K-20MP-20FJ-OA	20KR-20MP-20FJ-OA	20	1 1/4	1 1/4-12	20	1 1/4	112-20-20	111-20	1 3/4	1"	3/4	1 1/4	3 1/2	1 1/4
24K-24MP-24FJ-OA	24KR-24MP-24FJ-OA	24	1 1/2	1 1/2-12	24	1 1/2	112-24-24	111-24	2 1/4	1 1/2	3/4	1 1/4	3 1/2	1 1/4
32K-32MP-32FJ-OA	32KR-32MP-32FJ-OA	32	2"	2 1/2-12	32	1 1/2	112-32-32	111-32	2 3/4	1 1/4	1 1/4	2 1/2	4 1/2	3/4

**HOW TO ORDER SPECIAL K & KR HOSE ASSEMBLIES
NOT LISTED IN THE PRECEDING TABLES**



ASSEMBLY NUMBER IS: 12K-12FJ-12LT-18"

In addition to the standard K and KR Assemblies shown in the tables, special assemblies having any combination of the Fittings shown on pages 3 through 9 are available made-up at the factory to your specifications. To determine part numbers for ordering special assemblies follow the formula diagrammed and explained above. Give the size and type of hose wanted (hose part number), size and code letters (shown in red) of one fitting and the size and code letters (shown in red) of the other fitting, and the overall length (O.A.) in inches. The following example shows how.

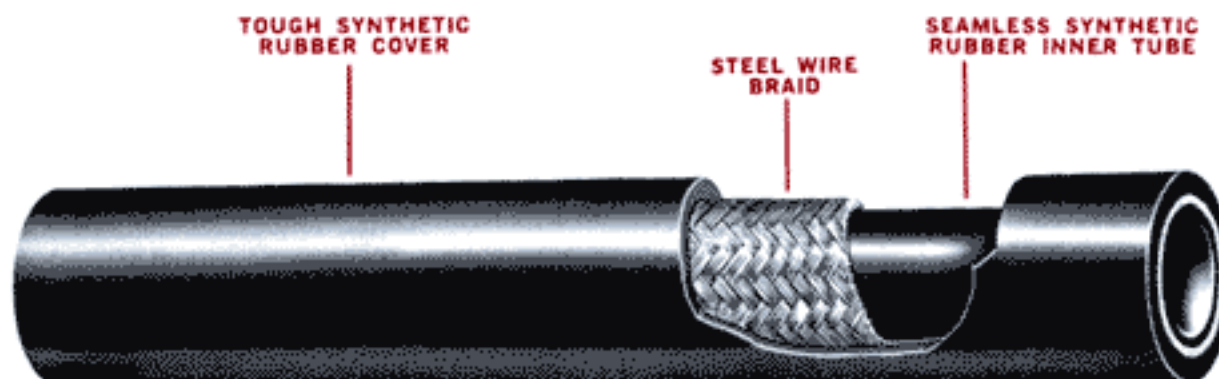
EXAMPLE: 12K-12FJ-12LT-18 shows the correct assembly number for the assembly shown in the diagram. This assembly is for 1/2" I.D. Single Wire Braid Cotton Covered Hose (12K) having a 111-12 J.I.C. Swivel Hose Fitting (12FJ) on one end and a 116-12 Tube End Male Hose Fitting (12LT) on the other with overall (O.A.) of 18" long.

Fittings not letter coded must be specified by Fitting Number for each end of assembly plus hose type, size, and Over All Length.

CONSTRUCTION and SPECIFICATIONS LENZ SINGLE WIRE BRAID • MEDIUM PRESSURE TYPE Z HEAVY RUBBER COVERED HOSE

LENZ
HOSE
FITTINGS

SINGLE WIRE BRAID
TYPE Z HOSE
HEAVY RUBBER COVER
MEDIUM PRESSURE
HOW TO ASSEMBLE



LENZ TYPE Z HOSE is constructed with a tough, synthetic, Skive-type, Heavy Rubber Cover for medium pressure use and assemblies. The seamless synthetic rubber inner tube is reinforced with high tensile strength braided wire as shown in the above construction cut-away view. Type Z Hose has superior resistance to abrasion and corrosion. Serves well for hydraulic fluids, air, crude and fuel oils, gasoline and many other gases and fluids used under medium pressure. (See Note Below). It is compounded to withstand temperatures ranging from minus 40° F. to 200° F. This hose with heavy rubber cover is particularly well suited to and recommended for severe applications on truck, farm, road, railroad, construction and similar types of mobile equipment. **Meets S.A.E. 100R1A Specifications.**

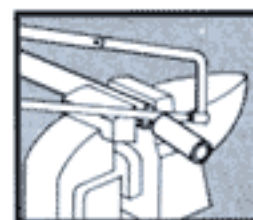
NOTE: For Ammonia, L.P. and other diffusible gases, it is absolutely necessary to **SPECIFY COVER TREATED BY PERFORATION**, to prevent blistering.

RUBBER COVER HOSE PART NO.	O.D. TUBE SIZE	HOSE I.D.	HOSE O.D.	RECOM. WORKING PRESS.	MIN. BURST. PRESS.	MIN. BEND RADIUS	APPROX. WT. PER FT. (Z)
4Z	¼	¼	⅜	2,750	11,000	4"	.263
6Z	⅜	⅜	½	2,250	9,000	5"	.348
8Z	½	½	⅝	2,000	8,000	7"	.434
12Z	¾	¾	1⅛	1,250	5,000	9½"	.583
16Z	1"	1"	1½	1,000	4,000	11"	.923

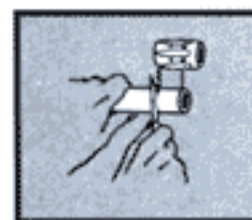
LENZ MEDIUM PRESSURE HOSE FITTINGS FOR USE WITH TYPE Z HOSE

The Lenz Single Wire Braid, Reusable Medium Pressure Hose End Fittings, for use with Type Z Hose, are shown on the following pages (13 through 15). Each Fittings series is given in complete detail with keyed cut-away view and dimensions, and specification tables. All Fittings shown are available either separately or in factory made-up assemblies. These Fittings are machined of steel and are Zinc Plated. Black phosphate finish can be supplied on special order. **All Lenz Hose Fittings conform to J.I.C. and S.A.E. standards.**

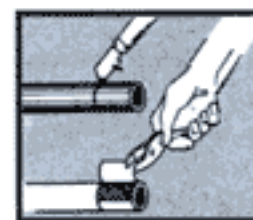
HOW TO ASSEMBLE LENZ SINGLE WIRE BRAID TYPE Z HOSE AND FITTINGS



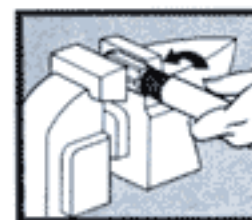
1. Cut hose square to desired length using fine tooth saw or cut-off wheel.



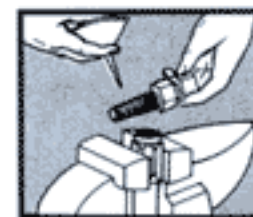
2. Determine length to be reduced to socket diameter and score hose with sharp knife.



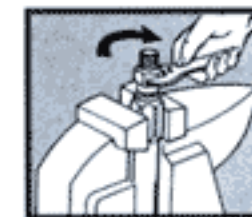
3. After slitting the rubber cover, strip or twist off with pliers. If any particles of rubber remain, remove with wire brush.



4. Place socket in vise and screw hose in counter-clockwise to start threading, using body weight against hose. Tighten until hose bottoms. *See note.



5. Oil inside of hose and nipple threads.



6. Screw nipple into socket, using wrench on hex of nipple. After assembled, blow out with air pressure to remove any loose particles and inspect.

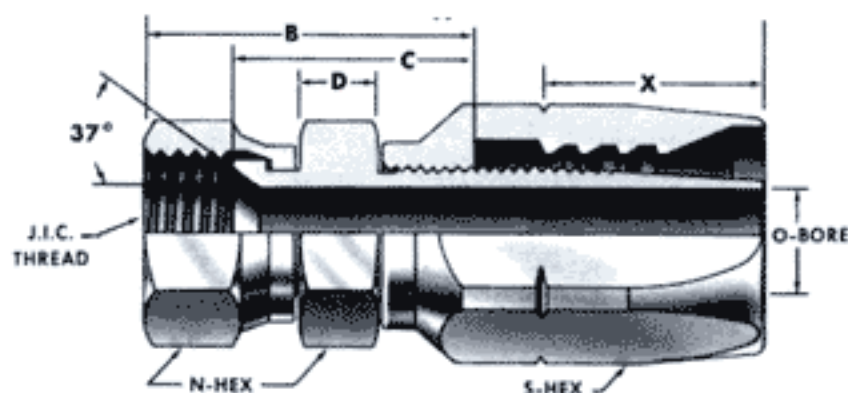
*NOTE - For sockets having annular grooves, push down on hose while turning, using alternating quarter turns in each direction until the hose seats.

FITTINGS FOR TYPE "Z" HOSE S.A.E. 100R1A



**NON-SKIVE FITTINGS "NOW AVAILABLE"
FOR 100R1-AT HOSE
EXAMPLE: 751-8-8AT & 752-8-8AT**

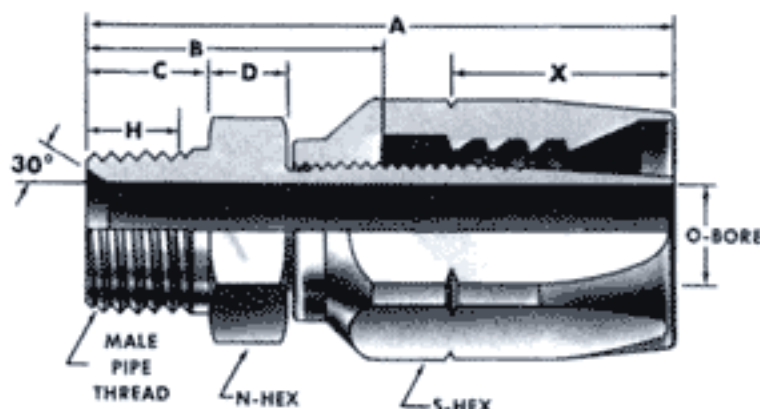
LENZ
151 J.I.C. SWIVEL (SKIVE)
751 J.I.C. SWIVEL (NON-SKIVE)
HOSE FITTING



PART NO.	HOSE SIZE	O.D. TUBE SIZE	J.I.C. THREAD	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	N NUT & NIPPLE HEX	O	S SOCKET HEX	X
				NIPPLE-NUT ASSEMBLY	SOCKET									
151-4-4	4	1/4	3/8-20	4151-4-4	4015-4	16.2	2 3/8	1 1/2	3/4	3/8	3/8	3/8	3/4	1 1/8
151-5-4	4	3/8	1/2-20	4151-5-4	4015-4	18.5	2 1/4	1 3/4	3/8	1/2	3/8	3/8	3/4	1 1/8
151-6-4	4	3/8	3/8-18	4151-6-4	4015-4	18.8	2 1/4	1 3/4	1/2	1/2	3/8	3/8	3/4	1 1/8
151-6-6	6	3/8	3/8-18	4151-6-6	4015-6	25.2	2 3/4	1 3/4	1 1/2	1/2	3/8	3/8	3/4	1 1/8
151-8-6	6	1/2	1/2-16	4151-8-6	4015-6	27.5	2 3/4	1 1/2	1 1/2	1/2	3/8	3/8	3/4	1 1/8
151-8-8	8	1/2	1/2-16	4151-8-8	4015-8	37.5	2 3/8	1 3/4	1 3/8	3/2	3/8	3/8	1 1/8	1 1/2
151-10-8	8	3/8	3/8-14	4151-10-8	4015-8	42.6	2 3/8	1 1/8	1 1/4	1/4	1"	3/8	1 1/8	1 1/2
151-12-12	12	3/4	1 1/8-12	4151-12-12	4015-12	74.0	3 1/4	1 3/4	1 1/4	1/2	1 1/4	3/8	1 3/8	1 1/4
151-16-16	16	1"	1 1/8-12	4151-16-16	4015-16	112.0	3 3/4	1 3/4	1 1/2	1/2	1 1/2	2 1/2	1 3/4	1 3/8

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 12

LENZ
152 MALE PIPE (SKIVE)
752 MALE PIPE (NON-SKIVE)
HOSE FITTING



*Hand Engagement Plus One Full Thread

PART NO.	HOSE SIZE	O.D. TUBE SIZE	MALE PIPE TH'D.	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	H*	N NIPPLE HEX	O	S SOCKET HEX	X
				NIPPLE	SOCKET										
152-2-4	4	1/4	1/8	4152-2-4	4015-4	14.4	1 3/8	1"	3/4	1/4	3/8	3/8	3/8	3/4	1 1/8
152-4-4	4	1/4	1/8	4152-4-4	4015-4	15.3	2 3/8	1 3/8	3/8	1/4	3/8	3/8	3/8	3/4	1 1/8
152-4-6	6	3/8	1/8	4152-4-6	4015-6	22.9	2 1/4	1 3/4	3/8	1/4	3/8	3/8	3/8	3/4	1 1/8
152-6-6	6	3/8	3/8	4152-6-6	4015-6	23.7	2 3/8	1 1/4	3/8	1/4	1 1/2	3/8	3/8	3/4	1 1/8
152-6-8	8	1/2	3/8	4152-6-8	4015-8	37.5	2 3/8	1 3/4	3/8	3/8	1 1/2	3/8	3/8	1 1/8	1 1/2
152-8-8	8	1/2	1/2	4152-8-8	4015-8	38.8	2 3/4	1 3/4	3/4	1 1/2	1 1/2	3/8	3/8	1 1/8	1 1/2
152-8-12	12	3/4	1/2	4152-8-12	4015-12	61.5	3"	1 1/2	3/4	3/8	1 1/2	1 1/8	3/8	1 3/8	1 1/4
152-12-12	12	3/4	3/4	4152-12-12	4015-12	62.7	3"	1 1/2	3/4	3/4	3/8	1 1/8	3/8	1 3/8	1 1/4
152-12-16	16	1"	3/4	4152-12-16	4015-16	97.5	3 3/8	1 3/8	3/4	3/4	3/8	1 3/8	3/4	1 3/4	1 3/8
152-16-16	16	1"	1"	4152-16-16	4015-16	104.0	3 1/2	1 3/8	1 1/8	3/4	2 1/2	1 3/8	3/4	1 3/4	1 3/8

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 12

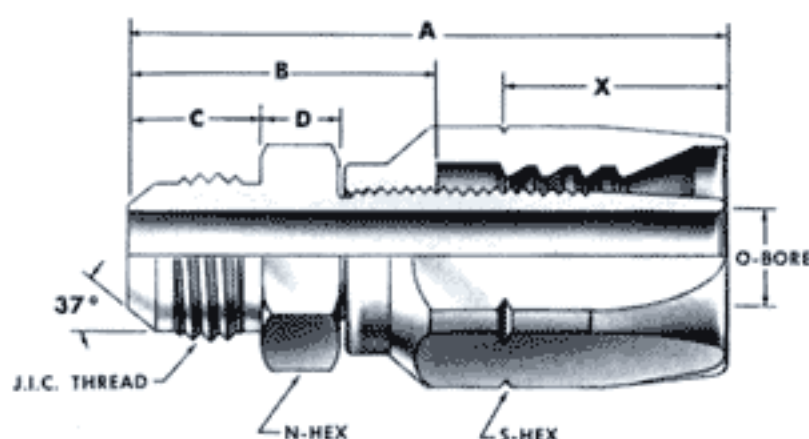
FITTINGS FOR TYPE "Z" HOSE S.A.E. 100R1A



**NON-SKIVE FITTINGS "NOW AVAILABLE"
FOR 100R1-AT HOSE
EXAMPLE: 754-6-6AT & 756-6-6AT**

LENZ
**HOSE
FITTINGS**

SINGLE WIRE BRAID
TYPE Z HOSE
FITTINGS
HEAVY RUBBER CO.
MEDIUM PRESSURE

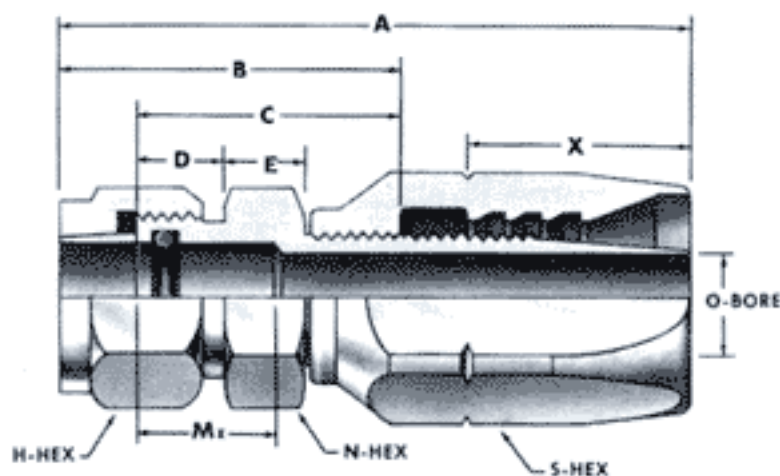


LENZ

**154 J.I.C. MALE (SKIVE)
754 J.I.C. MALE (NON-SKIVE)
HOSE FITTING**

PART NO.	HOSE SIZE	O.D. TUBE SIZE	J.I.C. THREAD	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	N NIPPLE HEX	O	S SOCKET HEX	X
				NIPPLE	SOCKET									
154-4-4	4	1/4	3/8-20	4154-4-4	4015-4	14.5	2 1/4	1 1/4	3/8	1 1/4	3/8	1 1/4	3/4	1 1/8
154-5-4	4	3/8	1/2-20	4154-5-4	4015-4	14.7	2 1/4	1 1/4	3/8	1 1/4	3/8	3/8	3/4	1 1/8
154-6-4	4	3/8	3/8-18	4154-6-4	4015-4	15.0	2 1/2	1 3/8	3/8	1 1/4	3/8	3/8	3/4	1 1/8
154-6-6	6	3/8	3/8-18	4154-6-6	4015-6	21.2	2 1/4	1 3/4	3/8	1 1/4	3/8	3/8	3/8	3/8
154-8-6	6	1/2	3/4-16	4154-8-6	4015-6	24.4	2 1/4	1 3/4	3/2	1 1/4	3/8	3/8	3/8	3/8
154-8-8	8	1/2	3/4-16	4154-8-8	4015-8	36.5	2 1/4	1 3/2	3/2	3/8	3/8	3/8	1 1/8	1 1/2
154-10-8	8	3/8	3/8-14	4154-10-8	4015-8	39.4	2 1/4	1 1/2	3/4	1 1/2	3/8	3/8	1 1/8	1 1/2
154-12-12	12	3/4	1 1/8-12	4154-12-12	4015-12	62.8	3 1/4	1 1/4	3/4	3/8	1 1/8	3/4	1 3/8	1 1/4
154-16-16	16	1"	1 1/8-12	4154-16-16	4015-16	106.0	3 3/4	1 1/4	3/2	3/4	1 3/8	3/2	1 3/4	1 3/8

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 12



LENZ

**156 "O-RING SEAL" (SKIVE)
756 "O-RING SEAL" (NON-SKIVE)
HOSE FITTING**

PART NO.	HOSE SIZE	O.D. TUBE SIZE	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	E	H NUT HEX	MX	N NIPPLE HEX	O	S SOCKET HEX	X
			NIPPLE ASS'Y.	SOCKET												
156-4-4	4	1/4	4156-4-4	4015-4	18.1	2 1/4	1 1/4	1 1/4	1 1/2	1 1/4	3/8	1/2	3/8	3/8	3/4	1 1/8
156-6-6	6	3/8	4156-6-6	4015-6	26.3	2 3/4	1 3/4	1 1/4	1 1/2	1 1/4	3/4	1 1/2	1 1/8	3/8	3/8	3/8
156-8-6	6	1/2	4156-8-6	4015-6	29.6	2 3/2	1 3/2	1 1/4	1 1/2	3/8	1"	3/8	3/8	3/8	3/8	3/8
156-8-8	8	1/2	4156-8-8	4015-8	49.3	2 1/4	1 3/2	1 1/2	1 1/2	3/8	1"	1 1/8	3/8	3/8	1 1/8	1 1/2
156-10-8	8	3/8	4156-10-8	4015-8	54.1	3 1/4	1 3/2	1 3/8	1 1/2	1 1/2	1 1/8	3/4	1"	3/8	1 1/8	1 1/2
156-12-12	12	3/4	4156-12-12	4015-12	80.0	3 1/2	2"	1 1/2	1 1/4	3/8	1 1/4	3/4	1 1/8	3/8	1 3/8	1 1/4
156-16-16	16	1"	4156-16-16	4015-16	127.0	3 1/8	2 1/4	1 3/8	3/4	1 1/2	1 1/8	3/8	1 1/2	3/8	1 3/4	1 3/8

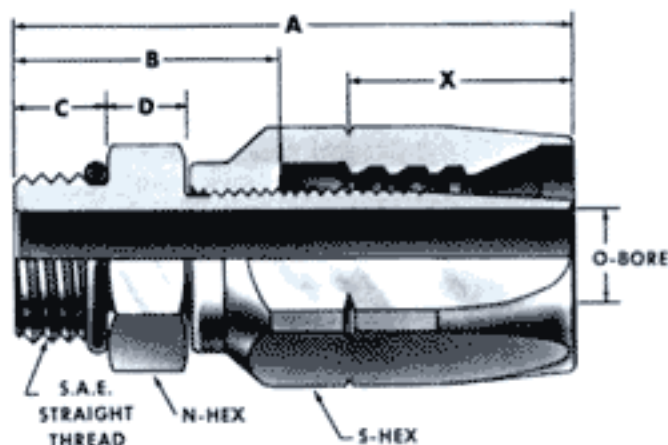
For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 12



**NON-SKIVE FITTINGS "NOW AVAILABLE"
FOR 100R1-AT HOSE
EXAMPLE: 758-4-4AT & 759-6-6AT**

LENZ

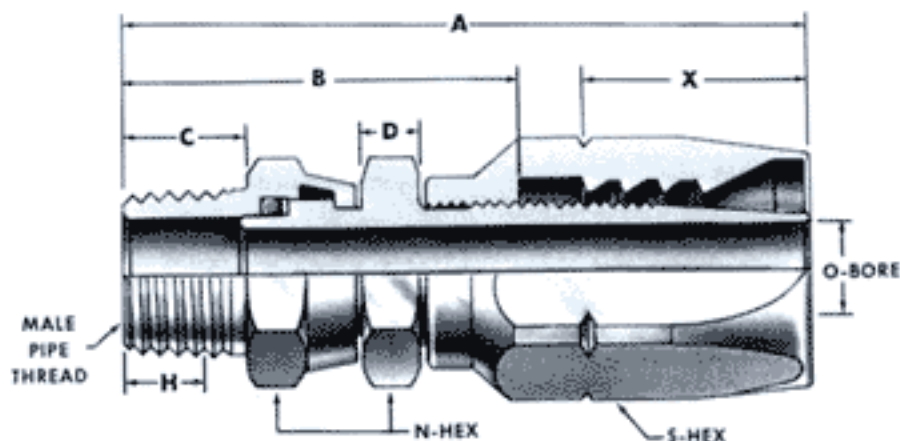
158 S.A.E. O-RING (SKIVE)
758 S.A.E O-RING (NON-SKIVE)
STRAIGHT THREAD MALE
HOSE FITTING



PART NO.	HOSE SIZE	O.D. TUBE SIZE	S.A.E. THREAD	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	N NIPPLE HEX	O	S SOCKET HEX	X
				NIPPLE	SOCKET									
158-4-4	4	1/4	1/4-20	4158-4-4	4015-4	14.4	1 1/4	1 1/4	3/4	1/4	3/8	3/8	3/4	1 1/4
158-6-6	6	3/8	1/4-18	4158-6-6	4015-6	20.9	2 1/2	1 3/2	3/4	1/4	1 1/8	3/2	3/8	3/8
158-8-6	6	1/2	3/4-16	4158-8-6	4015-6	23.9	2 1/4	1 3/8	3/8	1/2	3/8	3/2	3/8	3/8
158-8-8	8	1/2	3/4-16	4158-8-8	4015-8	36.0	2 3/4	1 1/2	3/8	1 1/2	3/8	3/8	1 1/8	1 1/2
158-10-8	8	3/4	1/2-14	4158-10-8	4015-8	39.7	2 3/4	1 3/4	1/2	3/8	1"	3/8	1 1/8	1 1/2
158-12-12	12	3/4	1 1/8-12	4158-12-12	4015-12	63.2	2 7/8	1 13/2	1 1/2	1 1/2	1 1/4	3/8	1 3/8	1 1/4
158-16-16	16	1"	1 1/8-12	4158-16-16	4015-16	106.4	3 1/2	1 13/2	1 1/2	1 1/2	1 1/2	3/8	1 3/4	1 3/8

LENZ

159 UNION MALE PIPE (SKIVE)
759 UNION MALE PIPE (NON-SKIVE)
HOSE FITTING



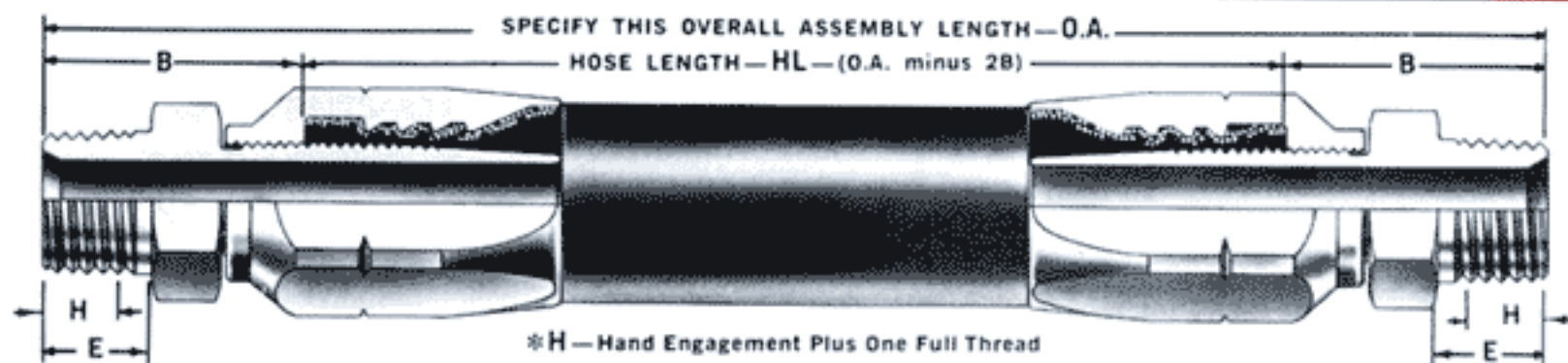
*H Hand Engagement Plus One Full Thread

PART NO.	HOSE SIZE	O.D. TUBE SIZE	MALE PIPE TH'D.	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	H*	N NIPPLE HEX	O	S SOCKET HEX	X
				NIPPLE-ASS'Y.	SOCKET										
159-4-4	4	1/4	1/4	4159-4-4	4015-4	19.4	2 1/8	1 3/2	3/4	1/4	3/8	3/8	3/8	3/4	1 1/4
159-6-6	6	3/8	3/8	4159-6-6	4015-6	31.6	3	1 1/8	3/4	1/4	1 1/2	1 1/8	3/2	3/8	3/8
159-8-8	8	1/2	1/2	4159-8-8	4015-8	50.0	3 3/4	2 3/8	3/2	3/8	1 1/2	1"	3/8	1 1/8	1 1/2
159-12-12	12	3/4	3/4	4159-12-12	4015-12	83.8	3 3/2	2 3/8	1 1/4	3/4	3/8	1 1/4	3/8	1 3/8	1 1/4
159-16-16	16	1"	1"	4159-16-16	4015-16	135.0	4 1/2	2 3/2	1 1/4	3/8	3/2	1 1/2	3/8	1 3/4	1 3/8

**LENZ SINGLE WIRE BRAID • DOUBLE MALE
TYPE Z HOSE ASSEMBLIES • MALE PIPE END TO MALE PIPE END**

LENZ
**HOSE
FITTINGS**

SINGLE WIRE BR.
TYPE Z HOSE
ASSEMBLIES
HEAVY RUBBER CO.
MEDIUM PRESSURE

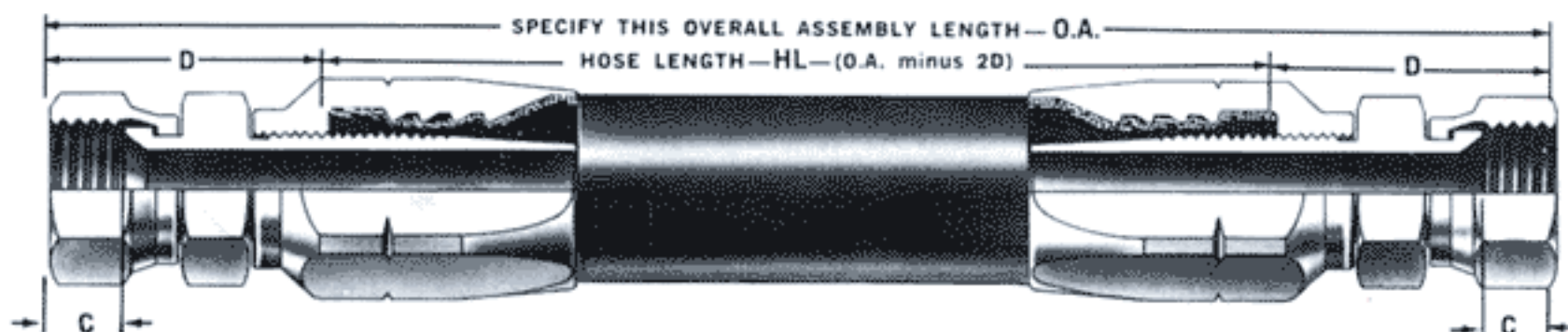


For Hose O.D., Working Pressure And Complete Hose Information See Page 12

ASS'Y. NO.	O.D. TUBE SIZE	MALE PIPE TH'D.	HOSE SIZE	HOSE I.D.	MALE PIPE FITTING	MALE C'PL'G. ALLOWANCE B	TOTAL C'PL'G. ALLOWANCE 2B	E	H*
4Z-2MP-OA	4	1/8"	4	1/4"	152-2-4	1"	2"	3/8"	1/2"
4Z-4MP-OA	4	1/4"	4	1/4"	152-4-4	1 1/8"	2 1/8"	1 1/2"	3/8"
6Z-4MP-OA	6	1/4"	6	3/8"	152-4-6	1 1/4"	2 1/2"	1 1/8"	3/8"
6Z-6MP-OA	6	3/8"	6	3/8"	152-6-6	1 1/2"	2 3/8"	1 1/2"	1 1/2"
8Z-6MP-OA	8	3/8"	8	1/2"	152-6-8	1 3/8"	2 3/4"	1 1/2"	1 1/2"
8Z-8MP-OA	8	1/2"	8	1/2"	152-8-8	1 1/2"	3 1/8"	2 1/2"	1 1/2"
12Z-8MP-OA	12	1/2"	12	3/4"	152-8-12	1 1/2"	3 1/8"	3/4"	1 1/2"
12Z-12MP-OA	12	3/4"	12	3/4"	152-12-12	1 1/2"	3 1/8"	2 1/2"	3/4"
16Z-12MP-OA	16	3/4"	16	1"	152-12-16	1 1/2"	3 1/4"	3/4"	3/8"
16Z-16MP-OA	16	1"	16	1"	152-16-16	1 3/2"	3 1/8"	3 1/2"	2 1/2"

NOTE: If both ends do not have the same pipe thread add a second MP number—Example: 4Z-2MP-4MP-OA

**LENZ SINGLE WIRE BRAID • DOUBLE SWIVEL
TYPE Z HOSE ASSEMBLIES • J.I.C. FEMALE SWIVEL TO J.I.C. FEMALE SWIVEL**



For Hose O. D., Working Pressure And Complete Hose Information See Page 12

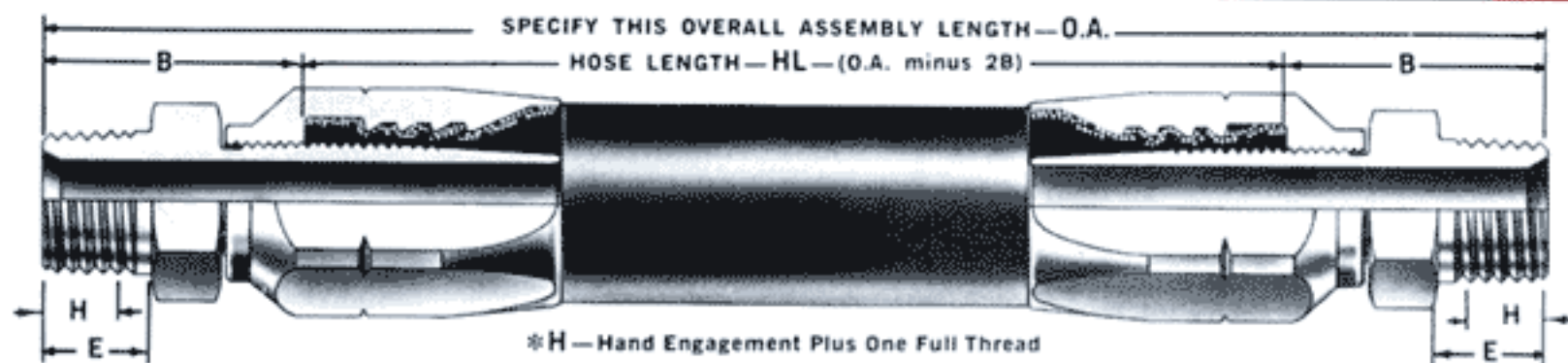
ASS'Y NO.	O.D. TUBE SIZE	J.I.C. SWIVEL THREAD	HOSE SIZE	HOSE I.D.	J.I.C. SWIVEL FITTING	C	J.I.C. SWIVEL COUPLING ALLOWANCE D	TOTAL COUPLING ALLOWANCE 2D
4Z-4FJ-OA	4	1/8"-20	4	1/4"	151-4-4	1 1/2"	1 1/2"	2 1/8"
4Z-5FJ-OA	4	1/8"-20	4	1/4"	151-5-4	1 1/2"	1 1/4"	2 1/2"
4Z-6FJ-OA	4	1/8"-18	4	1/4"	151-6-4	3/8"	1 1/8"	2 3/8"
6Z-6FJ-OA	6	1/8"-18	6	3/8"	151-6-6	3/8"	1 1/2"	2 1/8"
6Z-8FJ-OA	6	1/4"-16	6	3/8"	151-8-6	1 1/2"	1 1/2"	3"
8Z-8FJ-OA	8	1/4"-16	8	1/2"	151-8-8	1 1/2"	1 1/2"	3 1/8"
8Z-10FJ-OA	8	1/4"-14	8	1/2"	151-10-8	1/2"	1 1/8"	3 1/8"
12Z-12FJ-OA	12	1 1/8"-12	12	3/4"	151-12-12	3/8"	1 1/2"	3 1/8"
16Z-16FJ-OA	16	1 1/8"-12	16	1"	151-16-16	3/8"	1 1/2"	3 1/8"

NOTE: If both ends do not have the same swivel thread add a second FJ number—Example: 6Z-6FJ-8FJ-O.A.

**LENZ SINGLE WIRE BRAID • DOUBLE MALE
TYPE Z HOSE ASSEMBLIES • MALE PIPE END TO MALE PIPE END**

LENZ
**HOSE
FITTINGS**

SINGLE WIRE BR.
TYPE Z HOSE
ASSEMBLIES
HEAVY RUBBER CO.
MEDIUM PRESSURE

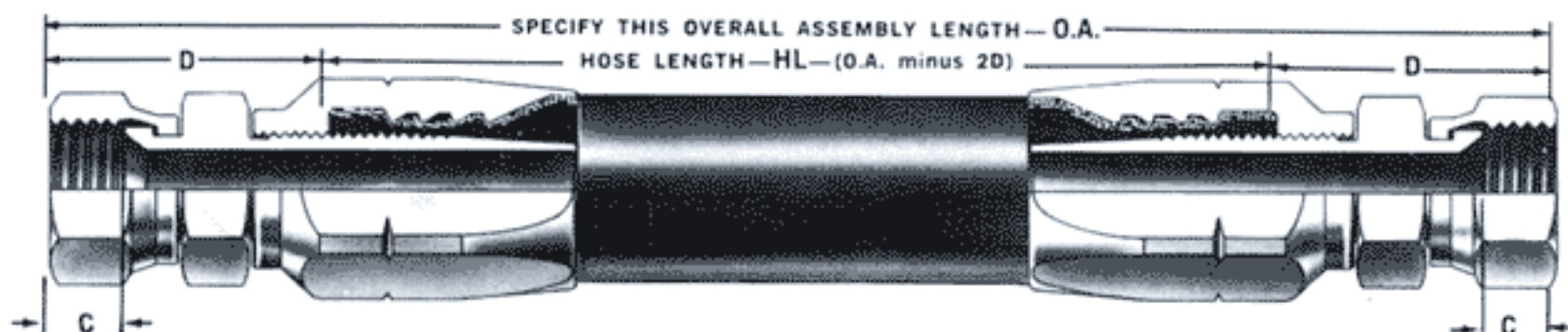


For Hose O.D., Working Pressure And Complete Hose Information See Page 12

ASS'Y. NO.	O.D. TUBE SIZE	MALE PIPE TH'D.	HOSE SIZE	HOSE I.D.	MALE PIPE FITTING	MALE C'PL'G. ALLOWANCE B	TOTAL C'PL'G. ALLOWANCE 2B	E	H*
4Z-2MP-OA	4	1/8"	4	1/4"	152-2-4	1"	2"	3/8"	1/2"
4Z-4MP-OA	4	1/4"	4	1/4"	152-4-4	1 1/8"	2 1/8"	1 1/2"	3/8"
6Z-4MP-OA	6	1/4"	6	3/8"	152-4-6	1 1/4"	2 1/2"	1 1/8"	3/8"
6Z-6MP-OA	6	3/8"	6	3/8"	152-6-6	1 1/2"	2 3/8"	1 1/2"	1 1/2"
8Z-6MP-OA	8	3/8"	8	1/2"	152-6-8	1 3/8"	2 3/4"	1 1/2"	1 1/2"
8Z-8MP-OA	8	1/2"	8	1/2"	152-8-8	1 1/2"	3 1/8"	2 1/2"	1 1/2"
12Z-8MP-OA	12	1/2"	12	3/4"	152-8-12	1 1/2"	3 1/8"	3/4"	1 1/2"
12Z-12MP-OA	12	3/4"	12	3/4"	152-12-12	1 1/2"	3 1/8"	2 1/2"	3/4"
16Z-12MP-OA	16	3/4"	16	1"	152-12-16	1 1/2"	3 1/8"	3/4"	3/8"
16Z-16MP-OA	16	1"	16	1"	152-16-16	1 3/2"	3 1/8"	3 1/2"	2 1/2"

NOTE: If both ends do not have the same pipe thread add a second MP number—Example: 4Z-2MP-4MP-OA

**LENZ SINGLE WIRE BRAID • DOUBLE SWIVEL
TYPE Z HOSE ASSEMBLIES • J.I.C. FEMALE SWIVEL TO J.I.C. FEMALE SWIVEL**

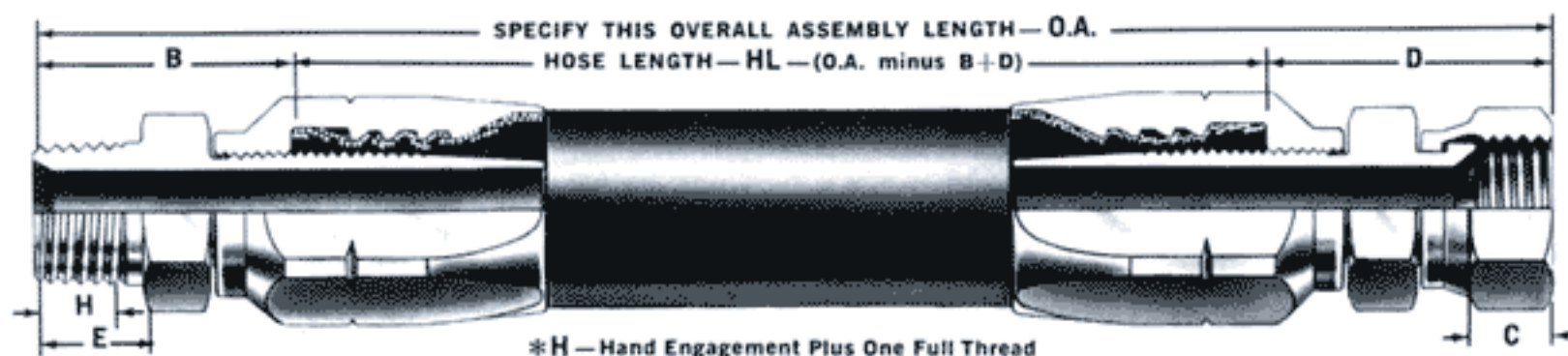


For Hose O. D., Working Pressure And Complete Hose Information See Page 12

ASS'Y NO.	O.D. TUBE SIZE	J.I.C. SWIVEL THREAD	HOSE SIZE	HOSE I.D.	J.I.C. SWIVEL FITTING	C	J.I.C. SWIVEL COUPLING ALLOWANCE D	TOTAL COUPLING ALLOWANCE 2D
4Z-4FJ-OA	4	1/8"-20	4	1/4"	151-4-4	1 1/2"	1 1/2"	2 1/8"
4Z-5FJ-OA	4	1/8"-20	4	1/4"	151-5-4	1 1/2"	1 1/4"	2 1/2"
4Z-6FJ-OA	4	1/8"-18	4	1/4"	151-6-4	3/8"	1 1/8"	2 3/8"
6Z-6FJ-OA	6	1/8"-18	6	3/8"	151-6-6	3/8"	1 1/2"	2 1/8"
6Z-8FJ-OA	6	1/4"-16	6	3/8"	151-8-6	1 1/2"	1 1/2"	3"
8Z-8FJ-OA	8	1/4"-16	8	1/2"	151-8-8	1 1/2"	1 1/2"	3 1/8"
8Z-10FJ-OA	8	1/4"-14	8	1/2"	151-10-8	1/2"	1 1/8"	3 1/8"
12Z-12FJ-OA	12	1 1/8"-12	12	3/4"	151-12-12	3/8"	1 1/2"	3 1/8"
16Z-16FJ-OA	16	1 1/8"-12	16	1"	151-16-16	3/8"	1 1/2"	3 1/8"

NOTE: If both ends do not have the same swivel thread add a second FJ number—Example: 6Z-6FJ-8FJ-O.A.

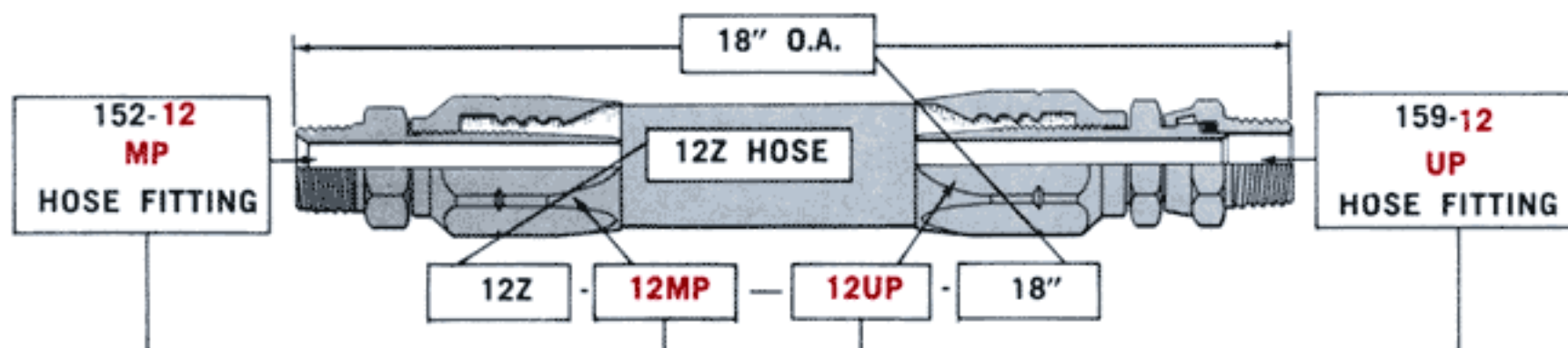
**LENZ SINGLE WIRE BRAID • MALE TO SWIVEL
TYPE Z HOSE ASSEMBLIES • MALE PIPE END TO J.I.C. FEMALE SWIVEL**



For Hose O. D., Working Pressure And Complete Hose Information See Page 12

ASS'Y. NO.	O.D. TUBE SIZE	MALE PIPE TH'D.	J.I.C. SWIVEL THREAD	HOSE I.D.	HOSE SIZE	MALE PIPE FITTING	J.I.C. SWIVEL FITTING	MALE COUPLING ALLOWANCE B	J.I.C. SW. COUPLING ALLOWANCE D	TOTAL COUPLING ALLOWANCE B + D	C	E	H*
4Z-2MP-4FJ-OA	4	1/4	1/2-20	4	1/4	152-2-4	151-4-4	1"	1 1/2	2 1/2	1 1/2	3/8	1/2
4Z-4MP-4FJ-OA	4	1/4	1/2-20	4	1/4	152-4-4	151-4-4	1 1/2	1 1/2	2 1/2	1 1/2	1 1/2	3/8
4Z-4MP-5FJ-OA	4	1/4	1/2-20	4	1/4	152-4-4	151-5-4	1 1/2	1 1/4	2 1/2	1 1/2	1 1/2	3/8
4Z-4MP-6FJ-OA	4	1/4	1/2-18	4	1/4	152-4-4	151-6-4	1 1/2	1 3/4	2 1/2	3/8	1 1/2	3/8
6Z-4MP-6FJ-OA	6	1/4	1/2-18	6	3/8	152-4-6	151-6-6	1 1/4	1 1/2	2 1/2	3/8	1 1/2	3/8
6Z-6MP-6FJ-OA	6	3/8	3/4-18	6	3/8	152-6-6	151-6-6	1 1/2	1 1/2	2 1/2	3/8	1 1/2	1 1/2
6Z-6MP-8FJ-OA	6	3/8	3/4-16	6	3/8	152-6-6	151-8-6	1 1/2	1 1/2	2 1/2	1 1/2	1 1/2	1 1/2
8Z-6MP-8FJ-OA	8	3/8	3/4-16	8	1/2	152-6-8	151-8-8	1 3/8	1 1/2	2 1/2	1 1/2	1 1/2	1 1/2
8Z-8MP-8FJ-OA	8	1/2	3/4-16	8	1/2	152-8-8	151-8-8	1 3/8	1 1/2	3 1/2	1 1/2	2 1/2	1 1/2
8Z-8MP-10FJ-OA	8	1/2	3/4-14	8	1/2	152-8-8	151-10-8	1 3/8	1 1/4	3 1/4	1/2	2 1/2	1 1/2
12Z-8MP-12FJ-OA	12	1/2	1 1/4-12	12	3/4	152-8-12	151-12-12	1 1/2	1 1/2	3 1/2	3/4	3/4	1 1/2
12Z-12MP-12FJ-OA	12	3/4	1 1/4-12	12	3/4	152-12-12	151-12-12	1 1/2	1 1/2	3 1/2	3/4	2 1/2	3/4
16Z-12MP-16FJ-OA	16	3/4	1 1/4-12	16	1"	152-12-16	151-16-16	1 3/8	1 1/2	3 1/2	3/4	3/4	3/4
16Z-16MP-16FJ-OA	16	1"	1 1/4-12	16	1"	152-16-16	151-16-16	1 1/2	1 1/2	3 1/2	3/4	2 1/2	2 1/2

**HOW TO ORDER SPECIAL TYPE Z HOSE ASSEMBLIES
NOT LISTED IN THE PRECEDING TABLES**



ASSEMBLY NUMBER IS: 12Z-12MP-12UP-18"

In addition to the standard Type Z Assemblies shown in the tables, special assemblies having any combination of the Single Wire Braid Hose Fittings shown on pages 13, 14 and 15 are available made-up at the factory to your specifications. To determine part numbers when ordering special assemblies follow the formula diagrammed and explained above. Give the size and type of hose wanted (hose part number), the size and code letters (shown in red) of one

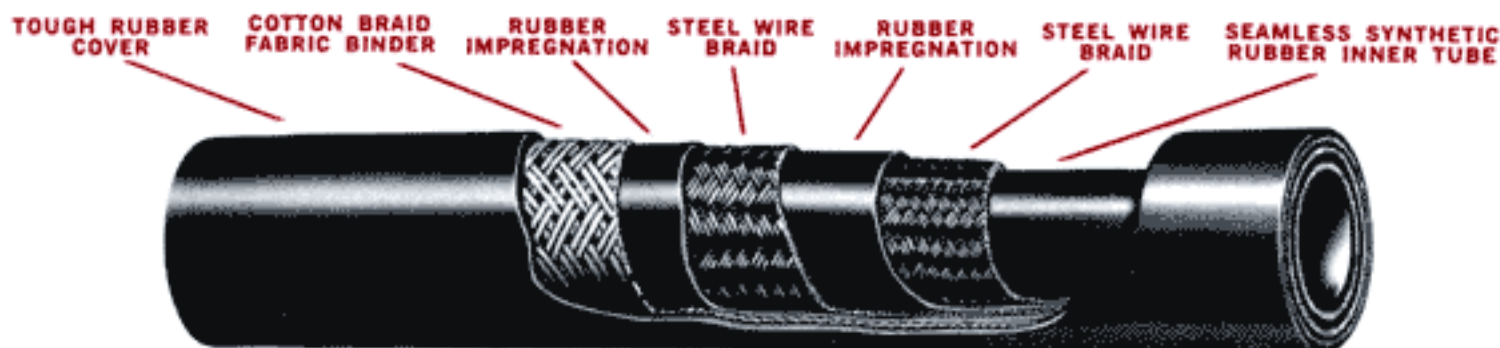
fitting and the size and code letters (shown in red) of the other fitting, and the over-all length (O.A.) in inches.

EXAMPLE: 12Z-12MP-12UP-18 shows the assembly number for the assembly shown in the diagram. This assembly is for 3/4" I.D. Single Wire Braid Heavy Rubber Covered Hose (12Z) having a 152-12 Male Pipe Hose Fitting (12MP) on one end and a 159-12 Union Male Hose Fitting (12UP) on the other with an overall (O.A.) length of 18 inches.

CONSTRUCTION and SPECIFICATIONS LENZ DOUBLE WIRE BRAID . HIGH PRESSURE TYPE C HEAVY RUBBER COVERED HOSE

LENZ
HOSE
FITTINGS

DOUBLE WIRE BRAID
TYPE C HOSE
HEAVY RUBBER COVER
HIGH PRESSURE
HOW TO ASSEMBLE



LENZ TYPE C HOSE is ruggedly constructed to meet the demands of applications where high working pressures are required. The tough rubber cover is weather and abrasion resistant. The seamless synthetic rubber inner tube is strongly reinforced with two layers of high tensile strength wire braid and a durable cotton braid binder. All bonded with a synthetic rubber impregnation that protects each braid layer. Type C hose is compounded to withstand temperature ranges from minus 40° F. to plus 200° F. It is superior for use with hydraulic fluids, grease, air, crude and fuel oils, gasoline and many other gases and fluids used under high pressures. Lenz Type C Hose and Assemblies offer top performance and reliability that reduce hose and fitting maintenance to a minimum. This combination of hose and fittings has been widely accepted by all types of industry throughout the nation. **Meets S.A.E. 100R2A Specs.**

NOTE: For Ammonia, L. P. and other diffusible gases, it is absolutely necessary to **SPECIFY COVER BE TREATED BY PERFORATION**, to prevent blistering.

Rubber Cover Hose Part No.	O.D. Tube Size	Hose I.D.	Hose O.D.	Recom. Working Pressure	Min. Burst. Pressure	Min. Bend Radii	Approx. Wt. Per Ft. (C)
4C	1/4	1/4	1 1/8	5,000	20,000	4"	.317
6C	3/8	3/8	2 1/2	4,000	16,000	5"	.457
8C	1/2	1/2	3 1/2	3,500	14,000	7"	.556
12C	3/4	3/4	1 1/4	2,250	9,000	9 1/2"	.78
16C	1"	1"	1 3/8	1,875	7,500	11"	1.17
20C	1 1/4	1 1/4	2"	1,625	6,500	16"	1.75
24C	1 1/2	1 1/2	2 1/4	1,250	5,000	20"	2.07
32C	2"	2"	2 3/4	1,125	4,500	26"	2.493

LENZ HIGH PRESSURE TYPE HOSE FITTINGS FOR USE WITH TYPE C DOUBLE WIRE BRAID HOSE

The Lenz Double Wire Braid, Reusable, High Pressure Hose Fittings, for use with Type C Hose, are shown on the following pages (19 through 21). Each Fitting Series is given in complete detail with cut-away, keyed views, dimensions, and specification tables. All Fittings shown are available either separately or in factory made-up assemblies. Complete information is supplied on page 23 for ordering special assemblies not shown or listed. These Fittings are machined from steel and are Zinc Plated. Black phosphate finish can be supplied on special order. **Conforms to J.I.C. and S.A.E. standards.**

HOW TO ASSEMBLE LENZ DOUBLE WIRE BRAID TYPE C HOSE AND FITTINGS



1. Cut hose to desired length using fine tooth hacksaw or cut-off wheel.



2. Determine length of hose to be reduced to socket diameter and score with sharp knife.



3. After slitting the rubber cover, twist off with pliers. If any particles of rubber remain, remove with wire brush.



4. Place socket in vise and screw hose in counter-clockwise, using body weight against hose to start threading. Tighten until hose bottoms, then back off 1/4 turn. *See Note.



5. Oil inside of hose and nipple threads.



6. Place nipple in vise. Push and turn socket, with hose inserted, clockwise on to stem until threads engage.



7. Screw nipple into socket, using wrench on hex of nipple. After assembled, blow out with air pressure to remove any loose particles and inspect.

***NOTE**—Some fitting sockets have annular grooves; in this case push down on hose while turning hose into socket, using an alternating motion of a quarter turn in each direction.

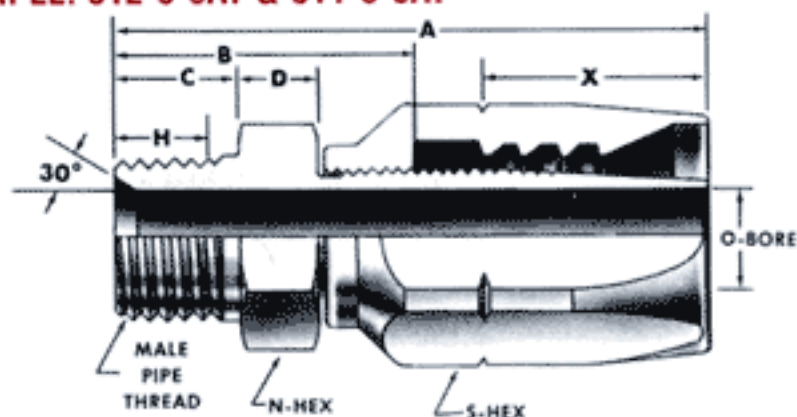


LENZ

212 MALE PIPE (SKIVE)
812 MALE PIPE (NON-SKIVE)
HOSE FITTING

FITTINGS FOR TYPE "C" HOSE S.A.E. 100R2A

NON-SKIVE FITTINGS "NOW AVAILABLE" FOR 100R2-AT HOSE
EXAMPLE: 812-6-6AT & 811-6-6AT

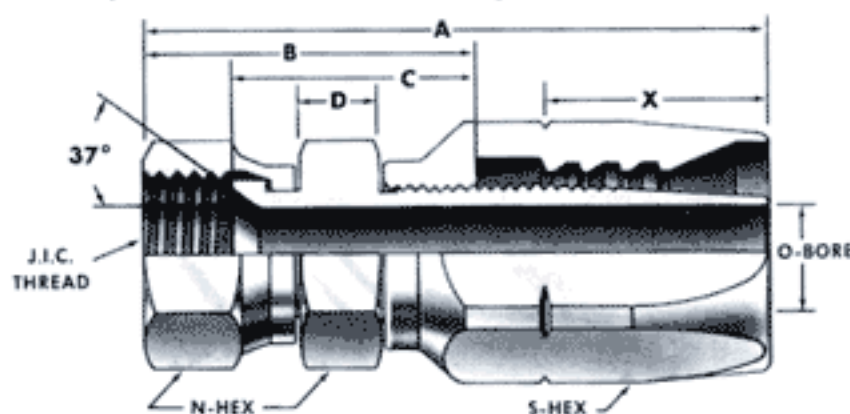


PART NO.	HOSE SIZE	O.D. TUBE SIZE	MALE PIPE TH'D.	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	H*	N NIPPLE HEX	O	S SOCKET HEX	X
				NIPPLE	SOCKET										
212-2-4	4	1/4	1/8	4212-2-4	4022-4	18.9	2 1/2	1 1/4	3/4	1 1/4	3/2	3/8	1 1/4	1 1/8	2 1/2
212-4-4	4	1/4	1/8	4212-4-4	4022-4	21.2	2 3/4	1 1/2	3/4	1 1/4	3/8	3/8	1 1/4	1 1/8	2 1/2
212-4-6	6	3/8	1/8	4212-4-6	4022-6	30.7	2 3/4	1 3/4	3/4	3/2	3/8	1 1/8	1 1/4	1"	1 1/2
212-6-6	6	3/8	3/8	4212-6-6	4022-6	33.5	2 3/4	1 3/4	3/4	3/2	1 1/2	1 1/8	1 1/4	1"	1 1/2
212-6-8	8	1/2	3/8	4212-6-8	4022-8	45.0	2 3/4	1 3/4	3/4	3/2	1 1/2	3/8	3/8	1 1/8	1 1/4
212-8-8	8	1/2	1/2	4212-8-8	4022-8	50.0	3 1/4	1 3/4	3/4	3/2	1 1/2	3/8	3/8	1 1/8	1 1/4
212-12	12	3/4	3/4	4212-12	4022-12	91.5	3 1/2	1 3/4	3/4	2 1/4	3/8	1 1/8	1 1/2	1 1/2	1 1/2
212-16	16	1"	1"	4212-16	4022-16	159.3	4 1/2	2 1/2	1 1/8	2 1/8	2 1/2	1 3/8	1 3/8	1 3/4	1 3/8
212-20	20	1 1/4	1 1/4	4212-20	4022-20	253.0	4 1/8	2 1/2	2 1/2	1 1/2	1 1/8	1 3/4	1 3/4	2 1/4	2 3/2
212-24	24	1 1/2	1 1/2	4212-24	4022-24	319.0	5"	2 1/4	1"	3/8	1 1/8	2"	1 1/2	2 1/2	1 1/8
212-32	32	2"	2"	4212-32	4022-32	458.0	5 1/2	2 1/2	1 1/2	3/8	3/4	2 1/2	1 3/4	3"	2 1/2

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 18

LENZ

211 J.I.C. SWIVEL (SKIVE)
811 J.I.C. SWIVEL (NON-SKIVE)
HOSE FITTING

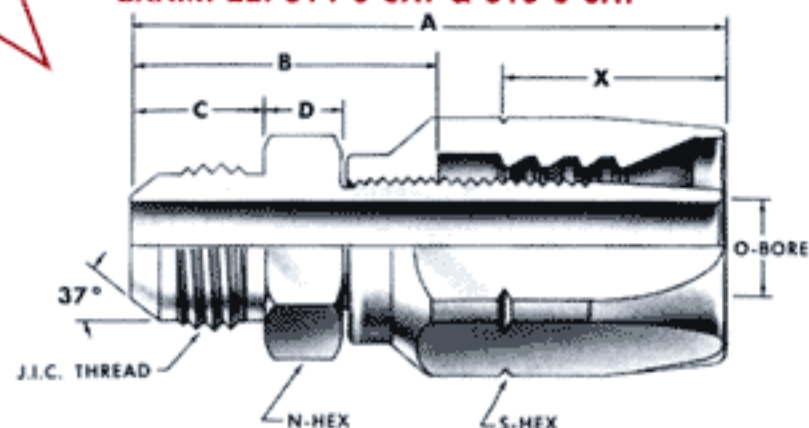


PART NO.	HOSE SIZE	O.D. TUBE SIZE	J.I.C. SWIVEL TH'D.	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	N NUT & NIPPLE HEX	O	S SOCKET HEX	X
				NIPPLE-NUT ASSEMBLY	SOCKET									
211-4-4	4	1/4	3/8-20	4211-4-4	4022-4	21.4	2 3/8	1 3/8	1 1/2	1 1/4	3/8	1 1/4	1 1/8	2 1/2
211-5-4	4	3/8	1/2-20	4211-5-4	4022-4	23.8	2 3/4	1 3/4	1 1/4	3/2	3/8	1 1/4	1 1/8	2 1/2
211-6-4	4	3/8	3/8-18	4211-6-4	4022-4	24.2	2 3/2	1 3/4	1 1/2	1 1/4	1 1/8	1 1/4	1 1/8	2 1/2
211-6-6	6	3/8	3/8-18	4211-6-6	4022-6	33.7	2 3/4	1 1/2	1 1/4	3/2	1 1/8	1 1/4	1"	1 1/2
211-8-6	6	1/2	3/8-16	4211-8-6	4022-6	38.7	3 3/2	1 3/8	1 1/4	3/2	3/8	1 1/4	1"	1 1/2
211-8-8	8	1/2	3/8-16	4211-8-8	4022-8	48.8	3 1/4	1 3/4	1 1/4	3/2	3/8	3/8	1 1/8	1 1/4
211-10-8	8	3/4	3/8-14	4211-10-8	4022-8	54.6	3 3/4	1 3/4	1 1/4	3/2	1"	3/8	1 1/8	1 1/4
211-12	12	3/4	1 1/8-12	4211-12	4022-12	106.0	3 3/4	2"	1 1/2	3/8	1 1/4	1 1/2	1 1/2	1 1/2
211-14-12	12	3/4	1 1/8-12	4211-14-12	4022-12	114.0	3 3/2	2 1/4	1 3/4	2 1/4	1 3/8	1 1/2	1 1/2	1 1/2
211-16	16	1"	1 1/8-12	4211-16	4022-16	153.0	4 3/4	2 1/8	1 1/8	3/8	1 1/2	1 3/8	1 3/4	1 3/8
211-20	20	1 1/4	1 1/8-12	4211-20	4022-20	294.0	5 1/4	2 3/2	2 1/2	1 1/2	2"	1 3/4	2 1/4	2 3/2
211-24	24	1 1/2	1 1/8-12	4211-24	4022-24	352.0	5 3/2	2 3/2	2 1/4	1 1/2	2 1/4	1 1/2	2 1/2	1 1/8
211-32	32	2"	2 1/8-12	4211-32	4022-32	569.0	5 3/2	3 1/8	2 1/2	3/4	2 3/8	1 3/4	3"	2 1/2

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 18

FITTINGS FOR TYPE "C" HOSE S.A.E. 100R2A

NON-SKIVE FITTINGS "NOW AVAILABLE" FOR 100R2-AT HOSE
EXAMPLE: 814-6-6AT & 816-6-6AT



LENZ
HOSE
FITTINGS

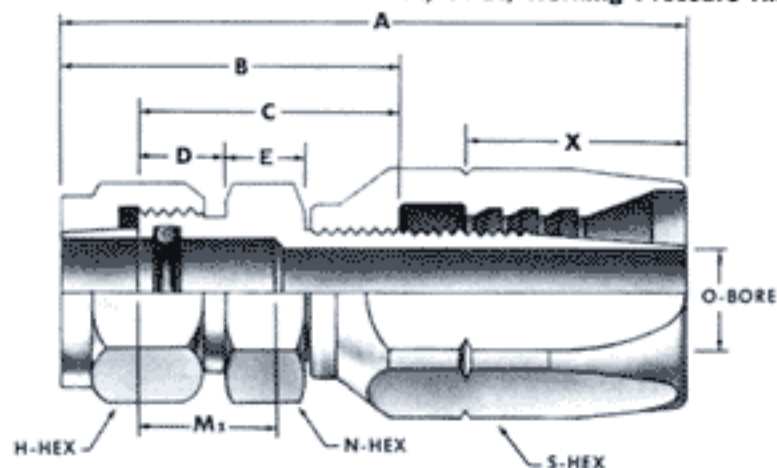
DOUBLE WIRE BRAID
 TYPE C HOSE
 FITTINGS
 HEAVY RUBBER COVER
 HIGH PRESSURE

LENZ

214 J.I.C. MALE FLARE (SKIVE)
 814 J.I.C. MALE FLARE (NON-SKIVE)
 HOSE FITTING

PART NO.	HOSE SIZE	O.D. TUBE SIZE	J.I.C. THREAD	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	N NIPPLE HEX	O	S SOCKET HEX	X
				NIPPLE	SOCKET									
214-4-4	4	1/4	1/8-20	4214-4-4	4022-4	19.0	2 1/2	1 1/4	3/8	1/4	3/8	1 1/4	1 1/8	2 1/2
214-5-4	4	3/8	1/8-20	4214-5-4	4022-4	19.2	2 1/2	1 1/4	3/8	1/4	3/8	1 1/4	1 1/8	2 1/2
214-6-4	4	3/8	1/8-18	4214-6-4	4022-4	19.5	2 3/4	1 3/8	3/8	1/4	3/8	1 1/4	1 1/8	2 3/2
214-6-6	6	3/8	1/8-18	4214-6-6	4022-6	31.0	2 3/4	1 3/8	3/8	3/2	1 1/8	1 1/4	1"	1 1/2
214-8-6	6	1/2	1/4-16	4214-8-6	4022-6	34.2	2 3/4	1 3/8	3/2	3/8	3/8	1 1/4	1"	1 1/2
214-8-8	8	1/2	1/4-16	4214-8-8	4022-8	47.7	3 1/2	1 3/2	3/2	3/8	3/8	3/8	1 1/8	1 1/4
214-10-8	8	3/4	3/4-14	4214-10-8	4022-8	50.6	3 3/4	1 3/2	3/4	3/8	3/8	3/8	1 1/8	1 1/4
214-12	12	3/4	1 1/8-12	4214-12	4022-12	90.5	3 3/2	1 3/8	3/4	1 1/2	1 1/8	1 1/2	1 1/2	1 1 1/2
214-16	16	1"	1 1/8-12	4214-16	4022-16	156.0	4 1/2	2 3/2	3/2	3/8	1 3/8	1 1/8	1 3/4	1 3/8
214-20	20	1 1/4	1 1/8-12	4214-20	4022-20	249.0	4 3/8	2 3/8	1 3/4	1/2	1 3/4	1 3/4	2 1/4	2 3/2
214-24-20	20	1 1/2	1 1/8-12	4214-24-20	4022-20	261.0	4 3/8	2 3/8	1 3/4	3/8	2"	1 3/4	2 1/4	2 3/2
214-24	24	1 1/2	1 1/8-12	4214-24	4022-24	302.0	5 3/8	2 3/8	1 3/4	3/8	2"	1 3/2	2 1/2	1 3/8
214-32	32	2	2 1/8-12	4214-32	4022-32	499.0	5 3/2	3 3/2	1 3/4	3/8	2 3/8	1 3/4	3	2 1 1/2

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 18



LENZ

216 "O-RING SEAL" (SKIVE)
 816 "O-RING SEAL" (NON-SKIVE)
 HOSE FITTING

PART NO.	HOSE SIZE	O.D. TUBE SIZE	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	E	H NUT HEX	MX	N NIPPLE HEX	O	S SOCKET HEX	X
			NIPPLE ASS'Y.	SOCKET												
216-4	4	1/4	4216-4-4	4022-4	23.1	2 3/4	1 1/8	1 1/8	1 1/2	3/2	3/8	1/2	3/8	1 1/4	1 1/8	2 1/2
216-6	6	3/8	4216-6-6	4022-6	36.0	2 3/4	1 1/2	1 1/2	1 1/2	3/2	3/4	3/8	1 1/8	1 1/4	1"	1 1/2
216-8-6	6	1/2	4216-8-6	4022-6	39.3	3 1/4	1 3/2	1 3/8	1 1/2	3/8	1"	1 1/8	3/8	1 1/4	1"	1 1/2
216-8	8	1/2	4216-8-8	4022-8	56.3	3 3/8	1 3/8	1 1/2	1 1/2	3/8	1"	1 1/8	3/8	3/8	1 1/8	1 1/4
216-10-8	8	3/8	4216-10-8	4022-8	61.1	3 1/2	1 3/8	1 3/8	1 1/2	1 1/2	1 1/8	3/4	1"	3/8	1 1/8	1 1/4
216-12	12	3/4	4216-12	4022-12	103.5	4 1/8	2 3/2	1 3/2	1 1/8	3/8	1 1/4	3/8	1 1/8	1 1/2	1 1/2	1 1 1/2
216-16	16	1"	4216-16	4022-16	182.2	4 3/4	2 3/2	2 3/2	3/4	3/8	1 3/8	3/8	1 1/2	1 1/8	1 3/4	1 3/8
216-20	20	1 1/4	4216-20	4022-20	309.0	5 3/4	3 1/4	2 1/2	3/8	1/2	2"	1 3/2	1 3/4	1 3/4	2 1/4	2 3/2
216-24	24	1 1/2	4216-24	4022-24	350.0	5 3/2	3 1/2	2 3/2	3/8	3/8	2 1/4	1 3/2	2"	1 3/2	2 1/2	1 3/8
216-32	32	2"	4216-32	4022-32	663.0	6 1/2	3 3/8	2 3/4	1"	3/8	3"	1 1/8	2 3/8	1 3/4	3"	2 1 1/2

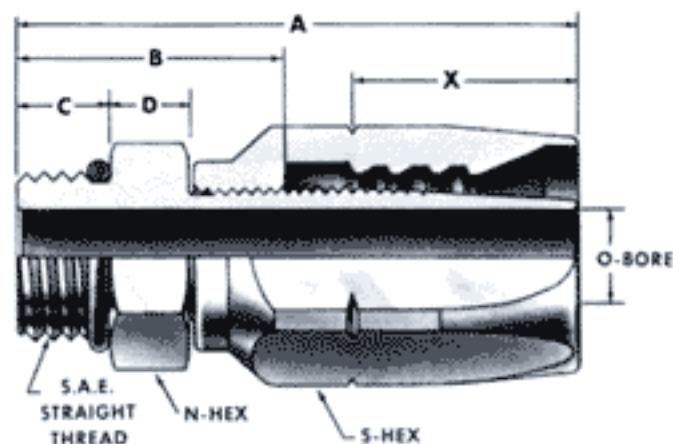
For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 18



**NON-SKIVE FITTINGS "NOW AVAILABLE"
FOR 100R2-AT HOSE
EXAMPLE: 818-8-8AT & 819-8-8AT**

LENZ

218 S.A.E. O-RING (SKIVE)
818 S.E.A. O-RING (NON-SKIVE)
STRAIGHT THREAD MALE
HOSE FITTING

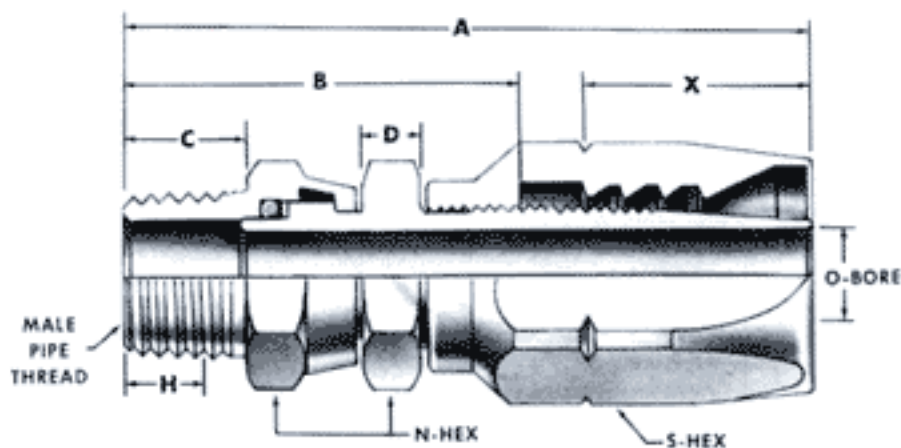


PART NO.	HOSE SIZE	O.D. TUBE SIZE	S.A.E. THREAD	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	N NIPPLE HEX	O	S SOCKET HEX	X
				NIPPLE	SOCKET									
218-4-4	4	1/4	1/2-20	4218-4-4	4022-4	20.5	2 1/2	1 1/4	3/4	1/4	3/8	1 1/4	1 1/8	2 1/2
218-6-6	6	3/8	1/2-18	4218-6-6	4022-6	31.9	2 3/4	1 1/2	3/4	1/4	1 1/8	1 1/4	1"	1 1/2
218-8-6	6	1/2	3/4-16	4218-8-6	4022-6	33.8	2 1/2	1 3/2	3/4	3/8	3/8	1 1/4	1"	1 1/2
218-8-8	8	1/2	3/4-16	4218-8-8	4022-8	46.5	2 3/2	1 1/4	3/4	1/2	3/8	3/8	1 1/8	1 1/4
218-10-8	8	3/4	1 1/4-14	4218-10-8	4022-8	50.2	2 1/2	1 3/4	1/2	3/8	1"	3/8	1 1/8	1 1/4
218-12	12	3/4	1 1/4-12	4218-12	4022-12	96.3	3 1/2	1 1/2	1 1/2	1 1/2	1 1/4	1 1/2	1 1/2	1 1/2
218-16	16	1"	1 1/4-12	4218-16	4022-16	155.0	3 1/4	1 3/2	1 1/2	1 1/2	1 1/2	1 1/8	1 1/4	1 1/8
218-20	20	1 1/4	1 1/4-12	4218-20	4022-20	246.0	4 3/4	2 3/8	1 1/2	1/2	1 3/8	1 1/4	2 1/4	2 3/2
218-24	24	1 1/2	1 1/4-12	4218-24	4022-24	294.0	4 3/8	2 3/8	1 1/2	3/8	2 1/8	1 1/2	2 1/2	1 1/4

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 18

LENZ

219 UNION MALE PIPE (SKIVE)
819 UNION MALE PIPE (NON-SKIVE)
HOSE FITTING

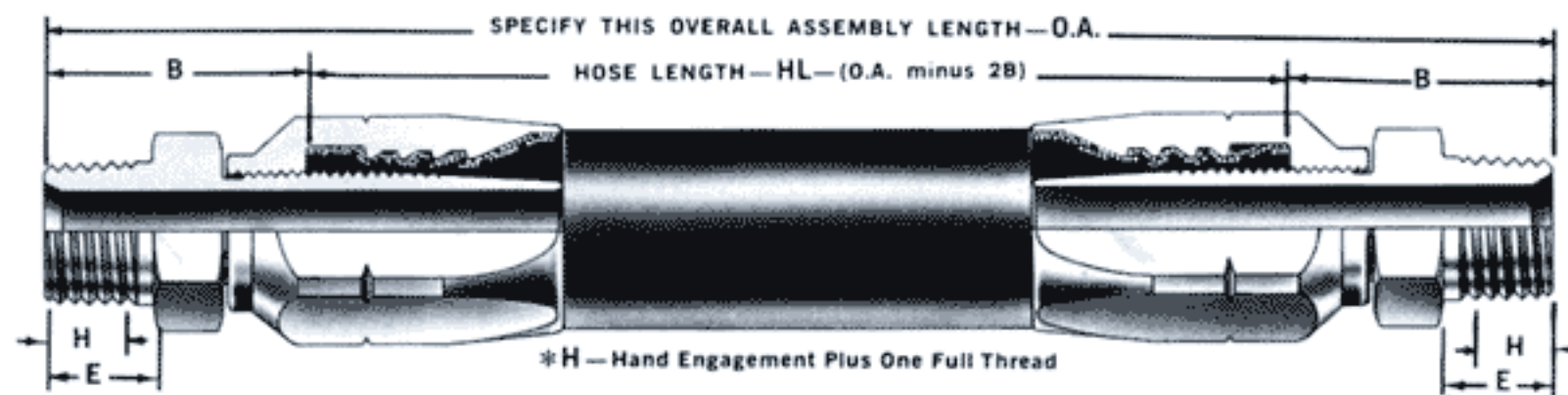


*H Hand Engagement Plus One Full Thread

PART NO.	HOSE SIZE	O.D. TUBE SIZE	MALE PIPE THREAD	FITTING COMP. PARTS		WT. PER 100 PCS.	A	B	C	D	H*	N NIPPLE HEX	O	S SOCKET HEX	X
				NIPPLE ASS'Y.	SOCKET										
219-4-4	4	1/4	1/4	4219-4-4	4022-4	25.0	3 1/2	1 1/4	3/8	1 1/4	3/8	3/8	1 1/4	1 1/8	2 1/2
219-6-6	6	3/8	3/8	4219-6-6	4022-6	41.3	3 1/8	1 1/4	3/8	3/2	1 1/2	1 1/8	1 1/4	1"	1 1/2
219-8-8	8	1/2	1/2	4219-8-8	4022-8	61.3	3 3/4	2 1/4	3/4	1 1/4	1 1/2	1"	3/8	1 1/8	1 1/4
219-12-12	12	3/4	3/4	4219-12-12	4022-12	111.3	4 1/2	2 1/2	3/4	3/8	3/8	1 1/4	1 1/2	1 1/2	1 1/2
219-16-16	16	1"	1"	4219-16-16	4022-16	195.0	5 1/4	3 1/4	1 1/8	3/8	2 1/2	1 1/2	1 1/8	1 1/4	1 1/8

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page 18

**LENZ DOUBLE WIRE BRAID • DOUBLE MALE
TYPE C HOSE ASSEMBLIES • MALE PIPE END TO MALE PIPE END**

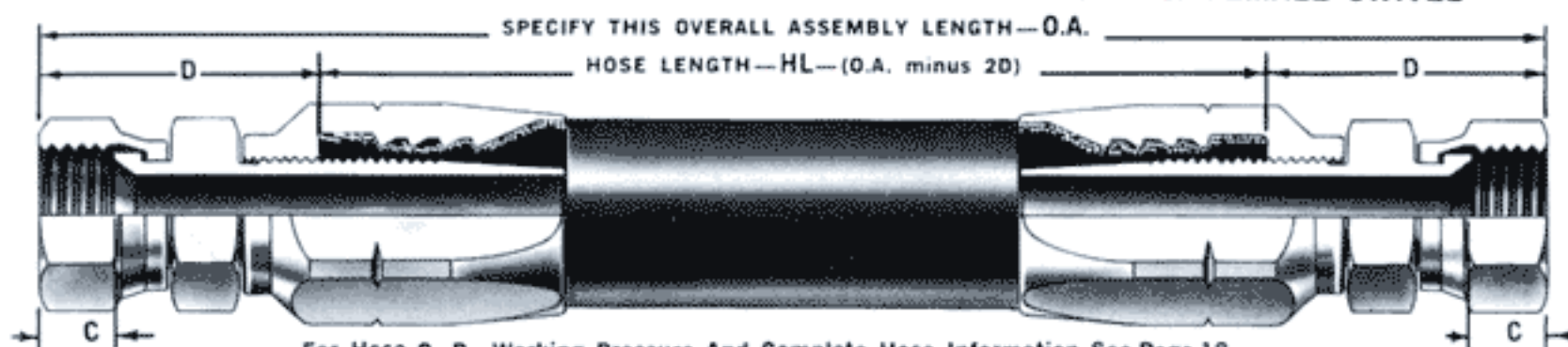


For Hose O. D., Working Pressure And Complete Hose Information See Page 18

ASS'Y. NO.	O.D. TUBE SIZE	MALE PIPE TH'D.	HOSE SIZE	HOSE I.D.	MALE PIPE FITTING	MALE C'PL'G. ALLOWANCE B	TOTAL C'PL'G. ALLOWANCE 2B	E	H*
4C-2MP-OA	4	1/4"	4	1/4"	212-2-4	1 1/8"	2 1/4"	3/4"	1/2"
4C-4MP-OA	4	1/2"	4	1/4"	212-4-4	1 1/2"	2 1/2"	3/4"	3/8"
6C-4MP-OA	6	1/4"	6	3/8"	212-4-6	1 1/8"	2 3/8"	3/4"	3/8"
6C-6MP-OA	6	1/2"	6	3/8"	212-6-6	1 1/8"	2 3/8"	3/4"	1 1/2"
8C-6MP-OA	8	3/4"	8	1/2"	212-6-8	1 3/8"	2 3/4"	3/4"	1 1/2"
8C-8MP-OA	8	1"	8	1/2"	212-8-8	1 3/8"	3 1/8"	3/4"	1 1/2"
12C-12MP-OA	12	3/4"	12	3/4"	212-12	1 3/4"	3 1/2"	3/4"	1/2"
16C-16MP-OA	16	1"	16	1"	212-16	2 3/8"	4 3/8"	1 1/8"	1 1/2"
20C-20MP-OA	20	1 1/4"	20	1 1/4"	212-20	2 1/2"	5 1/2"	1 1/2"	1 1/8"
24C-24MP-OA	24	1 1/2"	24	1 1/2"	212-24	2 1/2"	5 1/2"	1 1/2"	1 1/8"
32C-32MP-OA	32	2"	32	2"	212-32	2 3/4"	5 1/2"	1 1/2"	3/4"

NOTE: If both ends do not have the same pipe thread add a second MP number— Example: 4C-2MP-4MP-OA

**LENZ DOUBLE WIRE BRAID • DOUBLE SWIVEL
TYPE C HOSE ASSEMBLIES • J.I.C. FEMALE SWIVEL TO J.I.C. FEMALE SWIVEL**

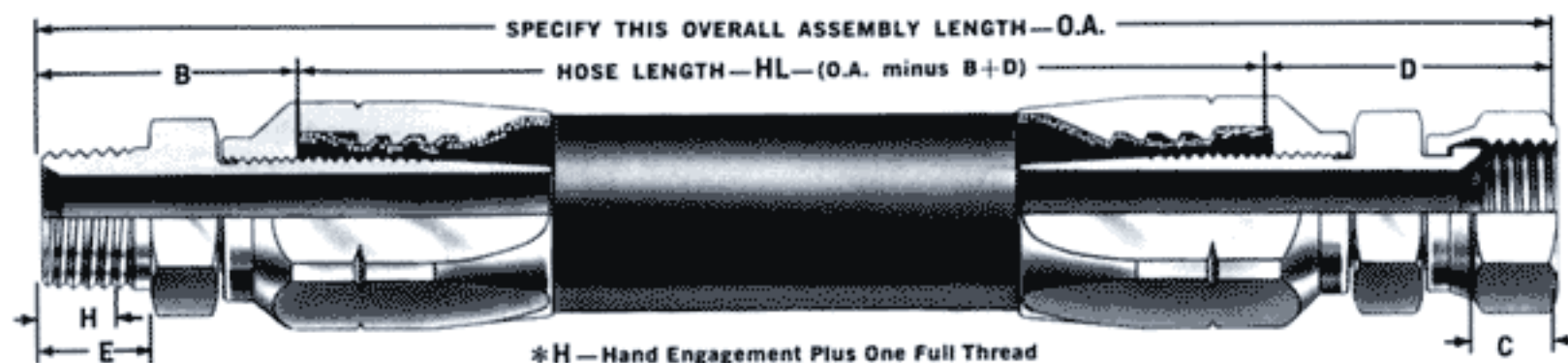


For Hose O. D., Working Pressure And Complete Hose Information See Page 18

ASS'Y. NO.	O.D. TUBE SIZE	J.I.C. SWIVEL THREAD	HOSE SIZE	HOSE I.D.	J.I.C. SWIVEL FITTING	C	J.I.C. SW. C'PL'G. ALLOWANCE D	TOTAL C'PL'G. ALLOWANCE 2D
4C-4FJ-OA	4	1/2"-20	4	1/4"	211-4-4	1 1/2"	1 3/8"	2 3/4"
4C-5FJ-OA	4	1/2"-20	4	1/4"	211-5-4	1 1/2"	1 3/4"	2 3/4"
4C-6FJ-OA	4	3/4"-18	4	1/4"	211-6-4	2 3/4"	1 3/4"	3 1/2"
6C-6FJ-OA	6	3/4"-18	6	3/8"	211-6-6	2 3/4"	1 1/2"	3"
6C-8FJ-OA	6	1/2"-16	6	3/8"	211-8-6	3/8"	1 3/8"	3 1/4"
8C-8FJ-OA	8	1/2"-16	8	1/2"	211-8-8	3/8"	1 1/4"	3 1/2"
8C-10FJ-OA	8	3/4"-14	8	1/2"	211-10-8	1/2"	1 1/4"	3 1/2"
12C-12FJ-OA	12	1 1/4"-12	12	3/4"	211-12	3/8"	2"	4"
12C-14FJ-OA	14	1 1/4"-12	12	3/4"	211-14-12	3/8"	2 3/4"	4 1/2"
16C-16FJ-OA	16	1 1/4"-12	16	1"	211-16	3/8"	2 3/8"	4 3/4"
20C-20FJ-OA	20	1 1/2"-12	20	1 1/4"	211-20	1 1/8"	2 3/2"	5 1/8"
24C-24FJ-OA	24	1 1/2"-12	24	1 1/2"	211-24	1 1/8"	2 3/2"	5 1/8"
32C-32FJ-OA	32	2"-12	32	2"	211-32	1 1/8"	3 3/8"	6 3/8"

NOTE: If both ends do not have the same swivel thread add a second FJ number— Example: 6C-6FJ-8FJ-OA

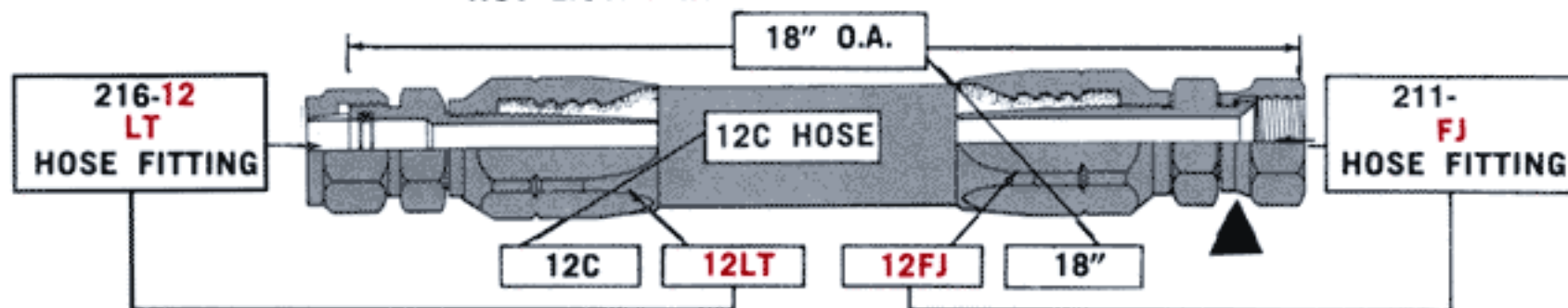
**LENZ DOUBLE WIRE BRAID • MALE TO SWIVEL
TYPE C HOSE ASSEMBLIES • MALE PIPE END TO J.I.C. FEMALE SWIVEL**



For Hose O. D., Working Pressure And Complete Hose Information See Page 18

ASS'Y. NO.	O.D. TUBE SIZE	MALE PIPE TH'D.	J.I.C. SWIVEL THREAD	HOSE SIZE	HOSE I.D.	MALE PIPE FITTING	J.I.C. SWIVEL FITTING	MALE COUPLING ALLOW. B	C	J.I.C. SW. COUPLING ALLOW. D	TOTAL COUPLING ALLOW. B + D	E	H*
4C-2MP-4FJ-OA	4	1/4	1/2-20	4	1/4	212-2-4	211-4-4	1 1/8	1 1/2	1 3/4	2 1/2	3/8	3/2
4C-4MP-4FJ-OA	4	1/4	1/2-20	4	1/4	212-4-4	211-4-4	1 1/2	1 1/2	1 3/4	2 3/2	3/8	3/8
4C-4MP-5FJ-OA	4	1/4	1/2-20	4	1/4	212-4-4	211-5-4	1 1/2	1 1/2	1 3/4	2 3/4	3/8	3/8
4C-4MP-6FJ-OA	4	1/4	1/2-18	4	1/4	212-4-4	211-6-4	1 1/2	1 3/4	1 3/4	2 3/4	3/8	3/8
6C-4MP-6FJ-OA	6	1/4	1/2-18	6	3/8	212-4-6	211-6-6	1 3/8	1 3/4	1 1/2	2 1/8	3/8	3/8
6C-6MP-6FJ-OA	6	3/8	1/2-18	6	3/8	212-6-6	211-6-6	1 3/8	1 3/4	1 1/2	2 1/8	3/8	1 1/2
6C-6MP-8FJ-OA	6	3/8	3/4-16	6	3/8	212-6-6	211-8-6	1 3/8	3/8	1 3/8	2 1/8	3/8	1 1/2
8C-6MP-8FJ-OA	8	3/8	3/4-16	8	1/2	212-6-8	211-8-8	1 3/8	3/8	1 3/4	3 1/4	3/8	1 1/2
8C-8MP-8FJ-OA	8	1/2	3/4-16	8	1/2	212-8-8	211-8-8	1 3/8	3/8	1 3/4	3 1/4	3/4	1 1/2
8C-8MP-10FJ-OA	8	1/2	3/4-14	8	1/2	212-8-8	211-10-8	1 3/8	1/2	1 3/4	3 3/4	3/4	1 1/2
12C-12MP-12FJ-OA	12	3/4	1 1/2-12	12	3/4	212-12	211-12	1 3/4	1 1/2	2"	3 3/4	3/4	3/8
16C-16MP-16FJ-OA	16	1"	1 1/2-12	16	1"	212-16	211-16	2 3/2	3/8	2 1/8	4 3/2	1 1/8	2 1/2
20C-20MP-20FJ-OA	20	1 1/4	1 1/2-12	20	1 1/4	212-20	211-20	2 1/2	1 1/8	2 1/2	5 1/8	3 1/2	1 1/8
24C-24MP-24FJ-OA	24	1 1/2	1 1/2-12	24	1 1/2	212-24	211-24	2 1/8	4/8	2 1/2	5 1/2	1"	1 1/8
32C-32MP-32FJ-OA	32	2"	2 1/2-12	32	2"	212-32	211-32	2 3/2	1 1/8	3 1/8	6 1/2	1 1/2	3/4

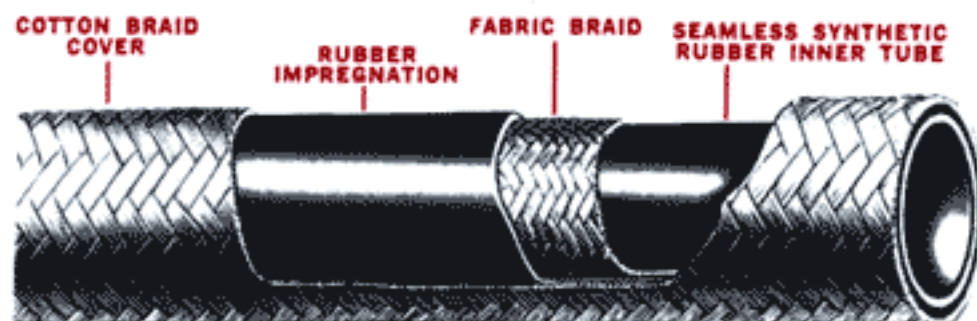
**HOW TO ORDER SPECIAL TYPE C HOSE ASSEMBLIES
NOT LISTED IN THE PRECEDING TABLES**



ASSEMBLY NUMBER IS: 12C-12LT-12FJ-18"

In addition to the standard Type C Hose Assemblies shown in the tables, special assemblies having any combination of the Double Wire Braid Hose Fitting Ends shown on pages 19, 20 and 21 are available made-up at the factory to your specifications. To determine part numbers when ordering special assemblies follow the formula diagrammed and explained above. Give the size and type of hose wanted (hose part number), size and code letters (shown in red) of one

fitting, the size and code letters (shown in red) of the other fitting, and the overall assembly length (O.A.) in inches. EXAMPLE: 12C-12LT-12FJ-18 shows the assembly number for the assembly shown in the diagram. This assembly is for 3/4" I.D. Double Wire Braid Rubber Covered Hose (12C) having a 216-12 Lenz Tube End Hose Fitting (12LT) on one end and a 211-12 J.I.C. Swivel Hose Fitting (12FJ) on the other with an overall (O.A.) length of 18 inches.



LENZ TYPE "Y" • COTTON COVERED, SINGLE FABRIC BRAID • LOW PRESSURE HOSE FOR "PUSH-ON" FITTINGS

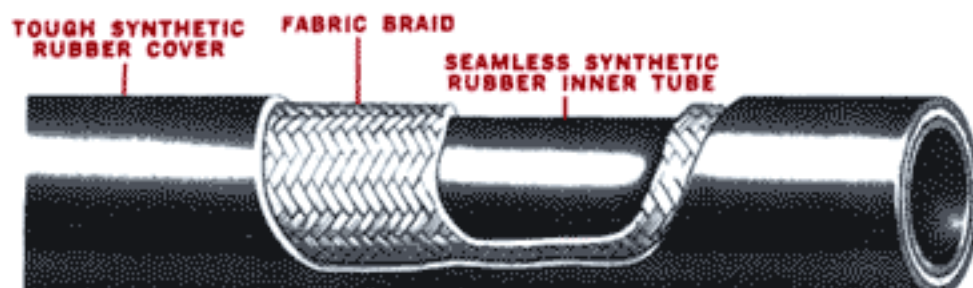
COTTON COVER PART NO.	O.D. TUBE SIZE	HOSE I.D.	HOSE O.D.	RECOM. WORK'G. PRESS.	MIN. BURST. PRESS.	MIN. BEND RADII	APPROX. WT. PER 100 FT. (Y)
4Y	1/4	1/4	1/2	250	1000	3"	6.0
6Y	3/8	3/8	3/4	250	1000	3"	8.5
8Y	1/2	1/2	3/4	250	1000	5"	11.9
10Y	3/4	3/4	1 1/4	250	1000	6"	18.5
12Y	1	1	1 1/2	250	1000	7"	21.1

TYPE "Y" (Above) - Provides a practical answer to the need for low cost hose assemblies to convey common fluids at pressures under 250 psi. The durable, single braid cotton cover is oil and mildew resistant. The hose is compounded to withstand temperatures from -40° to 200°F., except in air applications where it is limited to 160°F.

TYPE "YR" (Below) - Identical in construction and features to Type "Y", except the cover is of tough, abrasion resistant, synthetic rubber. It is compounded to withstand the same temperature limits and conditions as Type "Y".

BOTH "Y" and "YR" TYPES are ideally suited and recommended for conveying water, air, lubricating oils, fuels, anti-freeze solutions, etc., where pressures are under 250 psi; and for vacuum applications to 28" Hg negative pressure.

Lenz Types "Y" and "YR" are especially designed and suited for use with the Lenz Low Pressure "Push-On" Fittings shown on page 25. The hose is so braided as to grip the "Push-On" Fittings when under pressure.



LENZ TYPE "YR" • RUBBER COVERED, SINGLE FABRIC BRAID • LOW PRESSURE HOSE FOR "PUSH-ON" FITTINGS

RUBBER COVER PART NO.	O.D. TUBE SIZE	HOSE I.D.	HOSE O.D.	RECOM. WORK'G. PRESS.	MIN. BURST. PRESS.	MIN. BEND RADII	APPROX. WT. PER 100 FT. (YR)
4YR	1/4	1/4	1/2	250	1000	3"	7.7
6YR	3/8	3/8	3/4	250	1000	3"	11.5
8YR	1/2	1/2	3/4	250	1000	5"	15.5
10YR	3/4	3/4	1 1/4	250	1000	6"	22.0
12YR	1	1	1 1/2	250	1000	7"	25.3

LENZ
HOSE FITTINGS

SINGLE FABRIC BRAID
TYPE Y & YR HOSE
COTTON OR RUBBER COVER
LOW PRESSURE
HOW TO ASSEMBLE

HOW TO ASSEMBLE LENZ SINGLE FABRIC BRAID Y & YR HOSE AND LENZ "PUSH-ON" FITTINGS

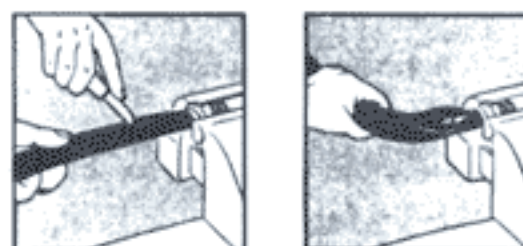


1. Cut hose cleanly and squarely with a sharp knife. Dip hose end in water or use a few drops of oil for light lubrication. Plastic cap furnished with each fitting may or may not be used as preferred. *See note.

2. Push hose over barbed stem of fitting, then push squarely against solid object until hose seats or bottoms snugly against shoulder or hex section. Hose is expanded over barbs, firmly gripping the stem.

*Plastic cap, furnished with each fitting, serves to cover the rough end of the hose and give a neater assembly. If cap is used, slide on end of hose before inserting the "Push-On" fitting.

QUICKLY DISASSEMBLED



1. Disassembly is just as easy... to remove fitting use a sharp knife to slit the hose diagonally... cutting slightly beyond the length of the fitting.

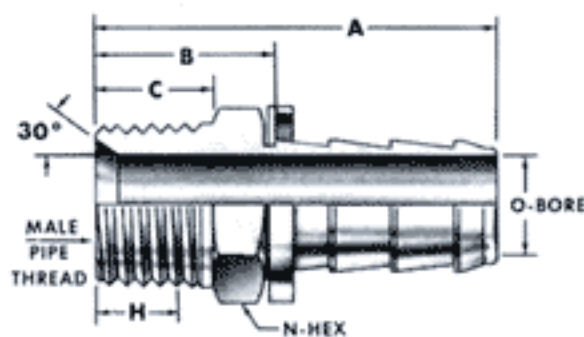
2. After hose has been slit, hold the fitting end firmly, in hand or vise, and with a sharp push or bend to the side the hose will pop off the stem... making the fitting suitable for re-use.

**LENZ
LOW PRESSURE "PUSH-ON"
TYPE FITTINGS FOR USE
WITH TYPE Y & YR HOSE**

The Lenz Selection of Low Pressure "Push-On" Fitting Hose Stems is shown on page 25. Each Fitting Series is given in complete detail with keyed, cut-away view, dimensions and specification tables. These Fittings meet an increasing industrial need and demand for time-saving, convenience and low cost in hose assemblies for low pressure uses. They are reusable type that can be quickly and easily attached to or removed from the hose. The barbed stems of the Fittings "lock" each fitting into the hose without use of external clamps or ferrules. Stems are machined from brass. Swivel Nuts are of steel, Zinc Plated. Conform to J.I.C. & S.A.E. Standards

LENZ 312 MALE PIPE "PUSH-ON" HOSE STEM

Code Letters When
Used On An Assembly **MP**



Material: Brass

*H Hand Engagement Plus One Full Thread

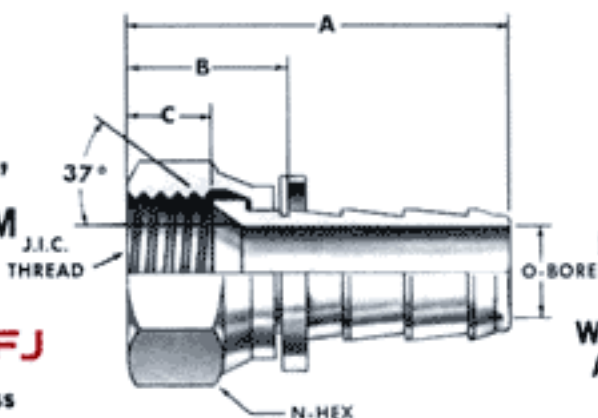
PART NO.	HOSE SIZE	HOSE I.D.	MALE PIPE TH'D	WT. PER 100 PCS.	A	B	C	H*	N HEX	O BORE
312-2-4	4	1/4	1/4	3.75	1 3/4	3/8	3/4	3/2	3/8	3/8
312-4-4	4	1/4	1/4	5.63	1 1/2	3/8	3/8	3/8	3/8	3/8
312-4-6	6	3/8	1/4	6.88	1 3/4	3/8	3/8	3/8	3/8	3/8
312-6-6	6	3/8	3/8	10	1 3/4	3/8	3/8	1 1/2	1 1/8	3/2
312-6-8	8	1/2	3/8	10	1 3/4	3/8	3/8	1 1/2	1 1/8	1 1/2
312-8-8	8	1/2	1/2	15	2 3/2	1 1/8	3/4	1 1/2	3/8	1 1/2
312-8-10	10	3/8	1/2	16.25	2 3/4	1 1/8	3/4	1 1/2	3/8	1 1/2
312-12-12	12	3/4	3/4	21.88	2 3/4	1 1/2	3/4	3/8	1 1/8	4 1/4

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page. 24

LENZ 311 J.I.C. SWIVEL "PUSH-ON" HOSE STEM

Code Letters
When Used On
An Assembly **FJ**

Stem Mat'l: Brass
Nut Mat'l: Zinc
Plated Steel



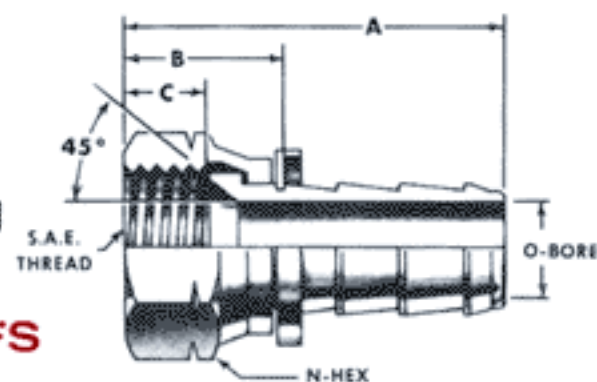
311 PUSH-ON J.I.C. SWIVEL HOSE FITTING

PART NO.	HOSE SIZE	HOSE I.D.	J.I.C. TH'D	WT. PER 100 PCS.	A	B	C	N HEX	O BORE
311-4-4	4	1/4	3/8-20	5	1 1/2	3/4	1 1/2	3/8	1 1/4
311-5-4	4	1/4	1/2-20	6.25	1 1/2	3/4	1 1/2	3/8	3/8
311-6-6	6	3/8	3/8-18	6.88	1 3/4	3/8	2 3/4	1 1/8	3/2
311-8-8	8	1/2	3/4-16	11.88	2"	3/2	2 3/4	3/8	1 1/2
311-10-10	10	3/8	3/4-14	20	2 1/2	1 1/8	1 1/2	1"	1 1/2
311-12-12	12	3/4	1 1/8-12	31.95	2 3/8	1 1/8	3/8	1 1/4	3/8

LENZ 301 S.A.E. SWIVEL "PUSH-ON" HOSE STEM

Code Letters
When Used On
An Assembly **FS**

Stem Mat'l: Brass
Nut Mat'l: Zinc
Plated Steel



301 PUSH-ON S.A.E. SWIVEL HOSE FITTINGS

PART NO.	HOSE SIZE	HOSE I.D.	S.A.E. TH'D	WT. PER 100 PCS.	A	B	C	N HEX	O BORE
301-4-4	4	1/4	3/8-20	5	1 1/2	3/4	1 1/2	3/8	1 1/4
301-5-4	4	1/4	1/2-20	6.25	1 1/2	3/4	1 1/2	3/8	3/8
301-6-6	6	3/8	3/8-18	8.75	1 3/4	3/8	2 3/4	3/8	3/2
301-8-8	8	1/2	3/4-16	11.88	2"	3/2	2 3/4	3/8	1 1/2
301-10-10	10	3/8	3/4-14	20	2 1/2	1 1/8	1 1/2	1"	1 1/2
301-12-12	12	3/4	1 1/8-14	33.13	2 3/8	1 1/4	1 1/8	1 1/4	3/8

For Hose I.D., O. D., Working Pressure And Complete Hose Information See Page. 24

LENZ SINGLE FABRIC BRAID • DOUBLE MALE • Y & YR ASSEMBLIES
LOW PRESSURE "PUSH-ON" MALE PIPE END TO MALE PIPE END

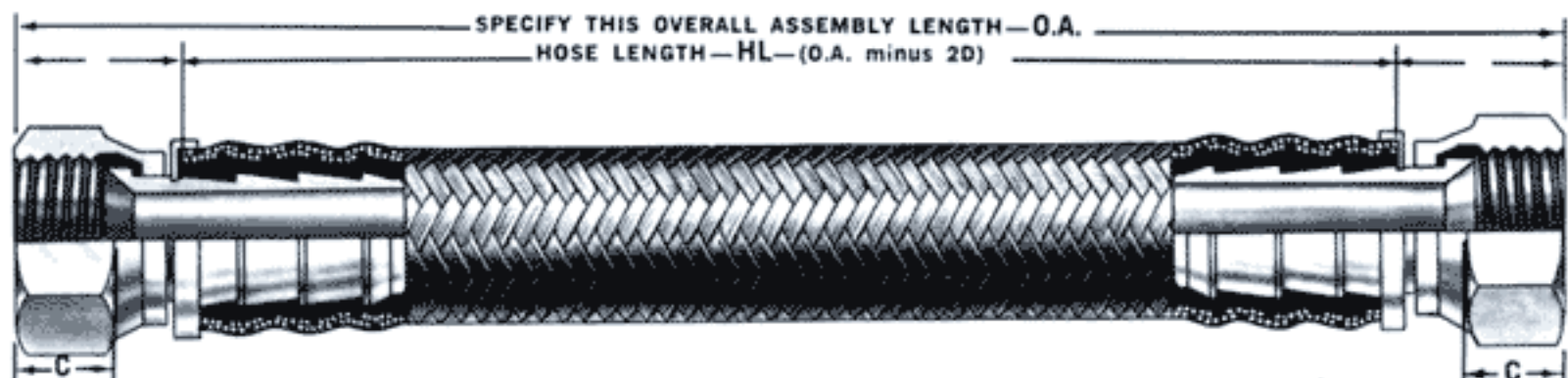


For Hose O. D., Working Pressure And Complete Hose Information See Page. 24

COTTON COVER HOSE ASS'Y. NO.	RUBBER COVER HOSE ASS'Y. NO.	O.D. TUBE SIZE	MALE PIPE TH'D.	HOSE SIZE	HOSE I.D.	MALE PIPE FITTING	MALE COUPLING ALLOWANCE B	TOTAL COUPLING ALLOWANCE 2B	E	H*
4Y-2MP-OA	4YR-2MP-OA	4	1/8	4	1/4	312-2-4	3/8	1 1/4	3/8	3/32
4Y-4MP-OA	4YR-4MP-OA	4	1/4	4	1/4	312-4-4	1 1/8	1 3/8	1 1/32	3/8
6Y-4MP-OA	6YR-4MP-OA	6	1/4	6	3/8	312-4-6	1 1/8	1 3/8	1 1/32	3/8
6Y-6MP-OA	6YR-6MP-OA	6	3/8	6	3/8	312-6-6	1 1/8	1 3/8	1 1/32	13/32
8Y-6MP-OA	8YR-6MP-OA	8	3/8	8	1/2	312-6-8	1 1/8	1 3/8	1 1/32	13/32
8Y-8MP-OA	8YR-8MP-OA	8	1/2	8	1/2	312-8-8	1 1/8	2 1/4	2 1/32	1 1/32
10Y-8MP-OA	10YR-8MP-OA	10	1/2	10	3/8	312-8-10	1 1/8	2 3/8	2 1/32	1 1/32
12Y-12MP-OA	12YR-12MP-OA	12	3/4	12	3/4	312-12-12	1 1/8	2 3/8	2 1/32	3/8

NOTE: If both ends do not have the same pipe thread add a second MP number — Example: 4Y-4MP-2MP-O.A.

LENZ SINGLE FABRIC BRAID • DOUBLE SWIVEL • Y & YR HOSE ASSEMBLIES
LOW PRESSURE "PUSH-ON" J.I.C. FEMALE SWIVEL TO J.I.C. FEMALE SWIVEL

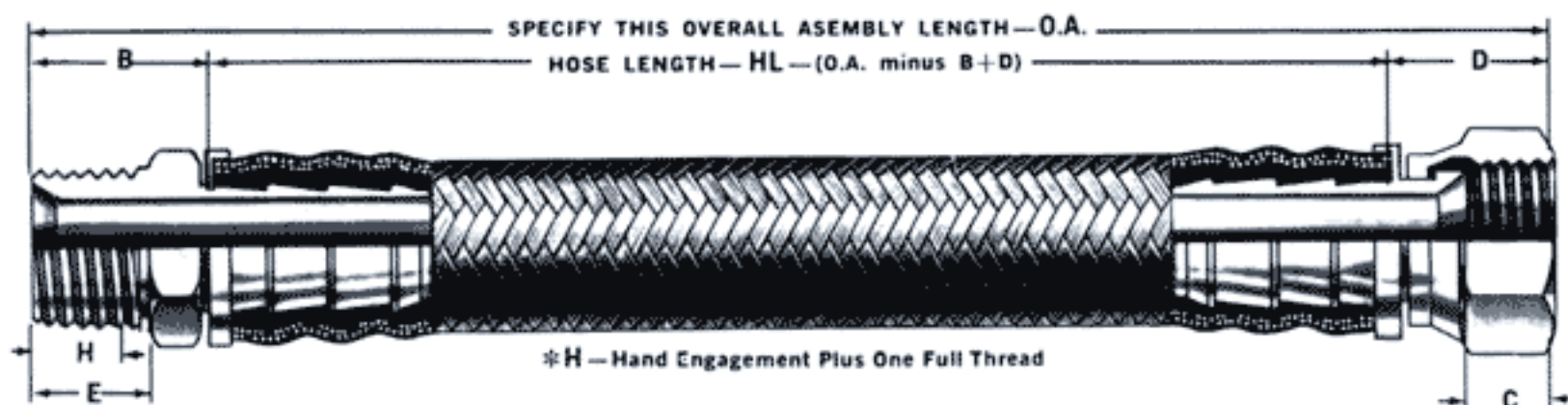


For Hose O. D., Working Pressure And Complete Hose Information See Page. 24

COTTON COVER ASS'Y. NO.	RUBBER COVER ASS'Y. NO.	O.D. TUBE SIZE	J.I.C. SWIVEL THREAD	HOSE SIZE	HOSE I.D.	J.I.C. SWIVEL FITTING	C	J.I.C. SWIVEL COUPLING ALLOWANCE D	TOTAL COUPLING ALLOWANCE 2D
4Y-4FJ-OA	4YR-4FJ-OA	4	1/4-20	4	1/4	311-4-4	1 1/2	3/4	1 1/2
4Y-5FJ-OA	4YR-5FJ-OA	4	1/2-20	4	1/4	311-5-4	3/8	1 1/8	1 3/8
6Y-6FJ-OA	6YR-6FJ-OA	6	1/2-18	6	3/8	311-6-6	3/8	3/8	1 1/4
8Y-8FJ-OA	8YR-8FJ-OA	8	3/4-16	8	1/2	311-8-8	1 1/2	2 1/2	1 1/8
10Y-10FJ-OA	10YR-10FJ-OA	10	1-14	10	3/8	311-10-10	1 1/2	1"	2"
12Y-12FJ-OA	12YR-12FJ-OA	12	1 1/4-12	12	3/4	311-12-12	1 1/8	1 1/8	2 1/4

NOTE: If both ends do not have the same swivel thread add a second FJ number — Example: 4Y-4FJ-5FJ-O.A.

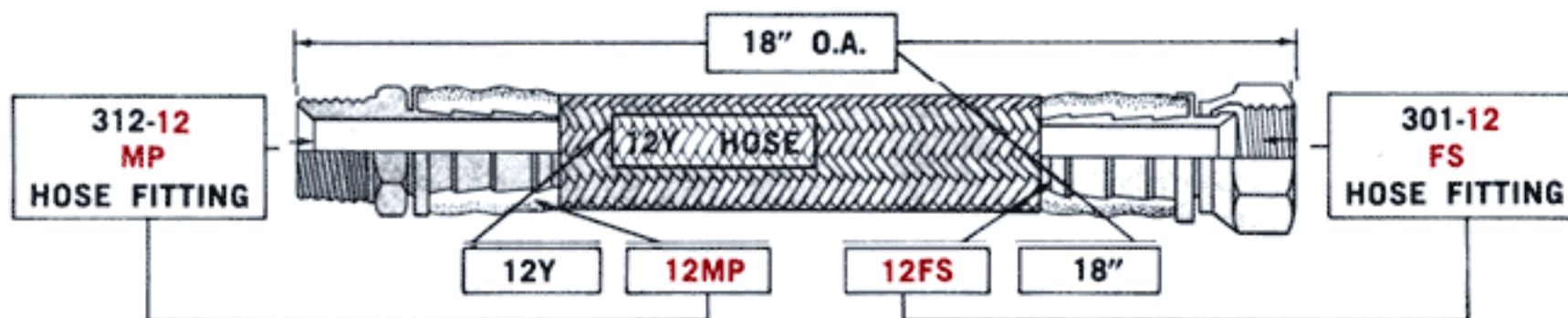
**LENZ SINGLE FABRIC BRAID • MALE TO SWIVEL • Y & YR HOSE ASSEMBLIES
LOW PRESSURE "PUSH-ON" MALE PIPE END TO J.I.C. FEMALE SWIVEL**



For Hose O. D., Working Pressure And Complete Hose Information See Page. 24

COTTON COVER HOSE ASS'Y. NO.	RUBBER COVER HOSE ASS'Y. NO.	O.D. TUBE SIZE	MALE PIPE TH'D.	J.I.C. SWIVEL THREAD	HOSE SIZE	HOSE I.D.	MALE PIPE FITTING	J.I.C. SWIVEL FITTING	MALE C'PL'G ALLOW. B	C	J.I.C. SWIVEL C'PL'G ALLOW. D	TOTAL C'PL'G ALLOW. B + D	E	H*
4Y-2MP-4FJ-OA	4YR-2MP-4FJ-OA	4	1/4	1/4-20	4	1/4	312-2-4	311-4-4	1/8	1/2	3/4	1 1/8	3/8	1/2
4Y-4MP-4FJ-OA	4YR-4MP-4FJ-OA	4	1/4	1/4-20	4	1/4	312-4-4	311-4-4	1/8	1/2	3/4	1 1/8	1/2	3/8
4Y-4MP-5FJ-OA	4YR-4MP-5FJ-OA	4	1/4	1/4-20	4	1/4	312-4-4	311-5-4	1/8	3/8	1/2	1 1/4	1/2	3/8
6Y-4MP-6FJ-OA	6YR-4MP-6FJ-OA	6	1/4	1/4-18	6	3/8	312-4-6	311-6-6	1/8	3/8	3/4	1 1/4	1/2	3/8
6Y-6MP-6FJ-OA	6YR-6MP-6FJ-OA	6	1/4	1/4-18	6	3/8	312-6-6	311-6-6	1/8	3/8	3/4	1 1/4	1/2	1/2
8Y-6MP-8FJ-OA	8YR-6MP-8FJ-OA	8	1/4	1/4-16	8	1/2	312-6-8	311-8-8	1/8	1/2	7/8	1 7/8	1/2	1/2
8Y-8MP-8FJ-OA	8YR-8MP-8FJ-OA	8	1/4	1/4-16	8	1/2	312-8-8	311-8-8	1/4	1/2	7/8	2 1/2	7/8	1/2
10Y-8MP-10FJ-OA	10YR-8MP-10FJ-OA	10	1/2	1/2-14	10	3/4	312-8-10	311-10-10	1/4	1/2	1"	2 3/4	7/8	1/2
12Y-12MP-12FJ-OA	12YR-12MP-12FJ-OA	12	1/2	1/2-12	12	3/4	312-12-12	311-12-12	1/4	3/4	1 1/4	2 3/4	7/8	3/4

**HOW TO ORDER SPECIAL TYPE Y OR YR HOSE ASSEMBLIES
NOT LISTED IN THE PRECEDING TABLES**



ASSEMBLY NUMBER IS: 12Y-12MP-12FS-18"

In addition to the standard Y and YR assemblies shown in the tables, special assemblies having any combination of the Single Fabric Braid "PUSH-ON" Hose Fittings shown on page 25 are available made-up at the factory to your specifications. To determine part numbers when ordering special assemblies follow the formula diagrammed and explained above. Give the size and type of hose wanted (hose part number), the size and code letters (shown in red) of one fitting and the size and code letters (shown in red) of

the other fitting, and the overall assembly length (O.A.) in inches.

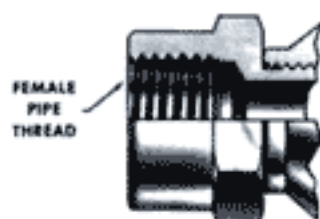
EXAMPLE: 12Y 12MP-12FS-18 shows the correct assembly number for the assembly shown in the diagram. It shows this assembly is for 3/4" I.D. Single Fabric Braid Rubber Covered Hose (12Y) having a 312-12 Male Pipe Hose Stem (12MP) on one end and a 301-12 S.A.E. Swivel Hose Stem (12FS) on the other with overall (O.D.) length 18".

LENZ SPECIAL HOSE FITTING ENDS

Designed For Use With Type C, High Pressure Hose
Type Z, Medium Pressure, and Type K, KR, Medium Pressure Hose

LENZ FEMALE PIPE THREAD END

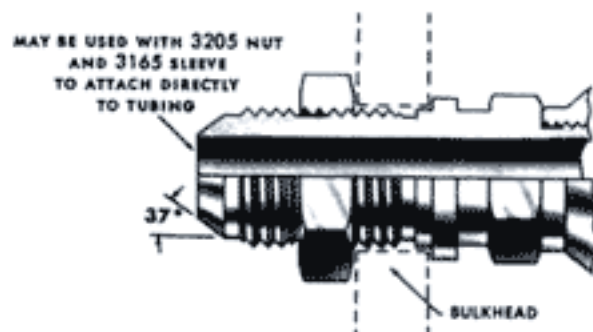
Designed For The Special Use Of Joining
Hose To The End Of A Pipe



- No. 213—FOR DOUBLE WIRE BRAID TYPE C HOSE
- No. 113—FOR SINGLE WIRE BRAID TYPE K, KR HOSE
- No. 153—FOR SINGLE WIRE BRAID TYPE Z HOSE

LENZ J.I.C. 37° FLARE BULKHEAD END

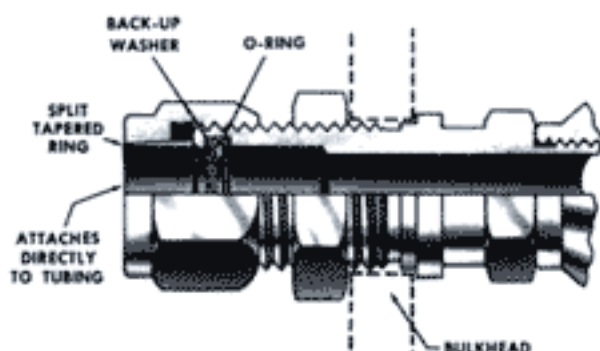
Useful For Passing Through A Bulkhead
And Joining To Another Hose or Tubing



- No. 215—FOR DOUBLE WIRE BRAID TYPE C HOSE
- No. 115—FOR SINGLE WIRE BRAID TYPE K, KR HOSE
- No. 155—FOR SINGLE WIRE BRAID TYPE Z HOSE

LENZ "O-RING SEAL" BULKHEAD END

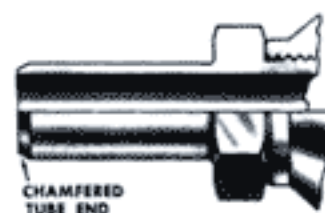
Offers Special Advantages In Passing Through
A Bulkhead And Joining To Tubing



- No. 217—FOR DOUBLE WIRE BRAID TYPE C HOSE
- No. 117—FOR SINGLE WIRE BRAID TYPE K, KR HOSE
- No. 157—FOR SINGLE WIRE BRAID TYPE Z HOSE

LENZ STRAIGHT TUBING END

Useful For Joining To Lenz, Ermeto, Swagelok
Or Other Flareless Fittings



- No. 220—FOR DOUBLE WIRE BRAID TYPE C HOSE
- No. 120—FOR SINGLE WIRE BRAID TYPE K, KR HOSE
- No. 160—FOR SINGLE WIRE BRAID TYPE Z HOSE

Shown above are four types of Lenz Special Hose Fitting Ends. After numerous requests for these fittings, Lenz decided to design, produce and make them available on special order. They have been designed for use with the popular high and medium pressure hose types listed above and offer many solutions to today's problems in joining hose lines in Industrial, Scientific, Mobile and Farm applications.

While certain combinations of standard hose fittings and adapters can perform the same job, these

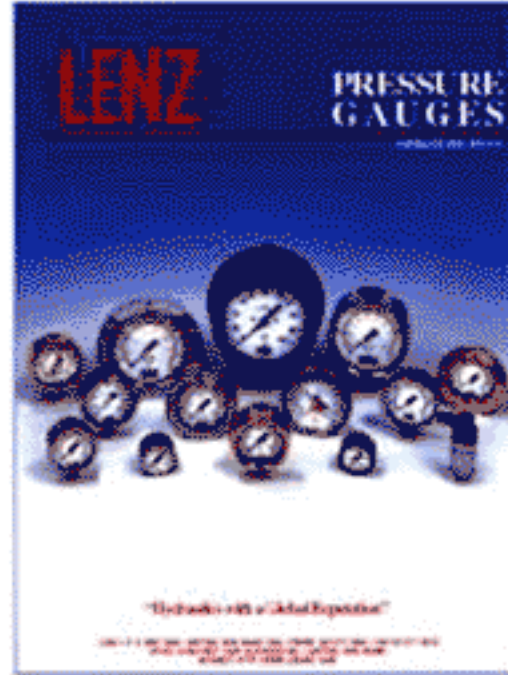
special ends offer the important advantages of saving space, require less assembly time and have fewer joints. For certain applications, and where the quantity is great enough to permit, these ends can be supplied for a lower cost than the combined cost of standard hose ends with adapters. Lenz can also make other special ends to meet your requirements. Just send a sketch, description, sizes and quantity desired and Lenz will be happy to quote price and delivery. Get acquainted with Lenz today!

The Part Numbers Shown On This Page Are Not Complete In Themselves. They Show Only The Type Of Hose End And The Type Of Hose Which It Fits. The SIZES Of The Fitting End And Hose Must Be Added.

Request these other **LENZ** Catalogs



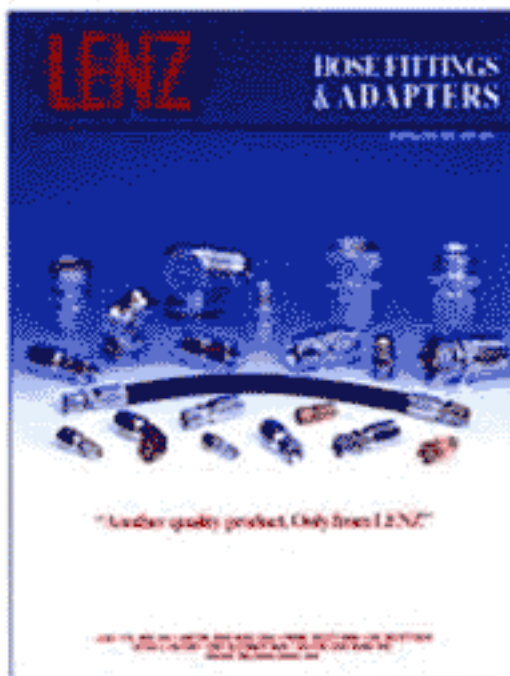
CATALOG 127R-A
60 Pgs. "O"-Ring Seal
Tube Fittings, 37° Flare
Tube Fittings, Pipe Fittings,
Adapters & Accessories.



CATALOG PG-111
24 Pgs. Detailed
information on
Lenz Pressure Gauges.



CATALOG TA-81
36 Pgs. Highly informative
on Lenz Hydraulic Tank
Reservoir Accessories.



CATALOG HP-401
56 Page. High & Medium
Pressure Hose Fittings &
Assemblies. Adapters,
Flanges, Quick Disconnects
& Accessories.



CATALOG SF-11A
20 Pgs. Highly informative
on Lenz Hydraulic
Strainers & Filters.



CATALOG AD-90
48 Pgs. Adapters, Pipe
Fittings, Adapter Unions,
J.I.C.-S.A.E. Tube Fittings,
offered in Steel &
Stainless Steel.