

An inch or a mile



Hose I.D.	Hose O.D. Ins.	Catalog Number
1/4	29/64	H436-4
5/16	9/16	H436-5
3/8	5/8	H436-6
1/2	13/16	H436-8
3/4	11/16	H436-12
1	13/8	H436-16 (or H435)



Pictured above are three generations of leadership in our thriving family enterprise. In the center is the late Rene Jacoby whose work ethic kept her as a leader in the business up until the age of 89. On the left is her daughter Gale Petronis, our current CEO, and on the right, Gale's daughter, Summer Rodman, the President.

The Continuing success of Amazon Hose & Rubber Co. over the past eight decades has been the result of our dedication to a simple formula. We carry a complete "on hand" inventory of hose and fittings and we employ technically skilled personnel who supply excellent customer services at competitive prices.

We are pleased to have served thousands of customers over the years from our locations in Chicago, Miami, Tampa and Orlando. We thank you for looking to Amazon for your hose and fitting needs, and hope that this catalog will help you select the right products.

Did you Know:

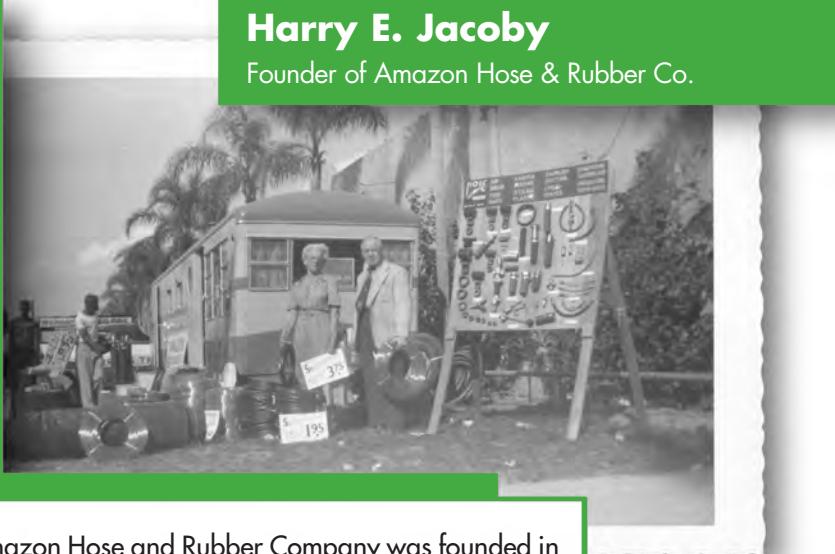
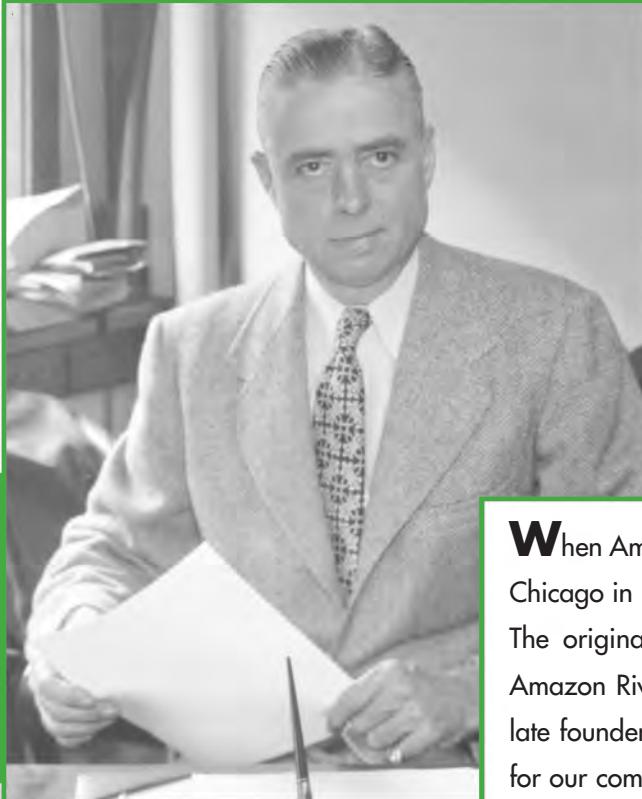
- Our average employee has been with Amazon for 9 years (we ARE experts!)
- Amazon is a certified women-owned minority business
- Amazon offers Volume discounts
- We have a Delivery Service





Harry E. Jacoby

Founder of Amazon Hose & Rubber Co.



When Amazon Hose and Rubber Company was founded in Chicago in 1919, virtually all hose was made of pure rubber. The original source for most of that gum rubber was the Amazon River basin of South America. For that reason our late founder, Harry E. Jacoby, adopted the name "Amazon" for our company.

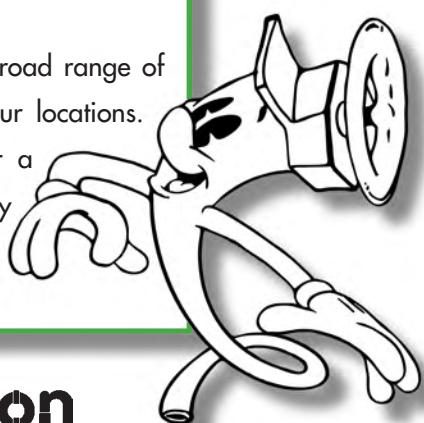
By the late 40's and early 50's, when Amazon's growing business was expanded to Florida in Miami and Tampa, we had survived the Second World War from which emerged the broad range of synthetic rubbers which are commonly employed in hose fabrication today. At that same time we were entering the age of plastics from which so many of today's specialized hoses are built.

In 1981 we opened the Orlando branch to serve the dynamically growing Central Florida area. Here, as in Chicago, Miami, and Tampa, we carry a complete warehouse stock of hose and related couplings and fittings, manufactured with the most up-to-date materials and technologies available in the world today.

We invite you to review in this catalog the broad range of products which we have available at our four locations. Harry Jacoby's company motto "An Inch or a Mile," describes our business as accurately today as it did more than eighty years ago.




amazon
HOSE & RUBBER COMPANY



How to Select a Hose

Several things must be known before the proper hose can be selected for any hose application. The acronym **STAMPED** can be the key to having the required information in most cases.

SIIZE—Inside Diameter, length, (and in some cases Outside Diameter).

TEMPERATURE—Internal and External; normal, minimum and maximum.

APPLICATION—What is the hose supposed to do on the equipment?

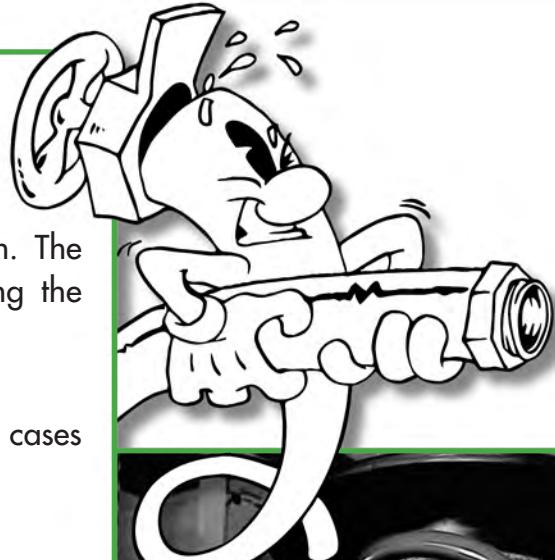
M

PRESSURE—Normal working pressure, burst pressure.

ENDS—Are couplings needed, what type, size, thread?

DELIVERY—When and where is it needed?

Complicated applications or an application requiring special made-to-order hose may require more detailed information. Let our experienced staff help you get it right the first time.



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Acid and Chemical Transfer Hose Suction and Discharge**HCXL**

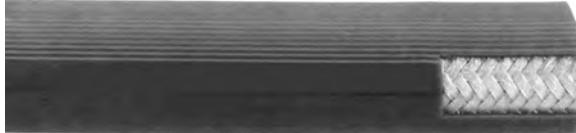
Cross link polyethylene tube resistant to many chemicals and acids. Helical wire construction for full vacuum, all sizes.

SIZE ID		APPROX OD		RATED WP	APPROX WEIGHT	APPROX MRPC
Inches	mm	Inches	mm	PSI	Ft.	Inches
1/2	13.0	31/32	24.5	150	.33	6
3/4	19.1	1^{15/64}	31.2	150	.46	7
1	25.3	1^{15/32} 47/64	37.5	150	.60	8
1^{1/4}	32.0	1	44.1	150	.73	9
1^{1/2}	38.0	2^{1/32}	51.5	150	.84	10
2	51.2	2^{39/64}	66.2	150	1.34	12
2^{1/2}	63.7	3^{7/64}	78.8	150	1.78	15
3	76.1	3^{39/64}	91.7	150	2.05	18
4	102.1	4^{11/16}	119.3	150	3.00	24

Specified lengths to 100 ft.

Coupled to customer's specifications.

* Minimum bend radius

Agricultural Spray "600" lb Working Pressure, PVC**HSA600**

For insecticides, fertilizers, herbicides, water jetting, roof cleaning, lawn spray, pest control and light chemical solutions. Lightweight and flexible. Limited oil resistance. Not recommended for use with XYLENE or LASSO*.

SIZE ID		APPROX OD		RATED WP	APPROX WEIGHT
Inches	mm	Inches	mm	PSI	Ft.
3/8	9.5	21/32	16.7	560	.13
1/2	12.7	25/32	19.8	560	.16
5/8	15.9	29/32	23.6	560	.18
3/4	19.1	1^{5/64}	26.9	560	.22

Lengths to 300 ft.

Coupled to customer's specifications.

Agricultural Spray "800" lb Working Pressure, PVC**HSA800**

Limited oil resistance.

Not recommended for use with XYLENE or LASSO*.

Where higher pressures are required for insecticides, fertilizers, herbicides, water, jetting, roof cleaning, pest control and light chemical solutions.

* A Monsanto registered trademark.

SIZE ID		APPROX OD		RATED WP	APPROX WEIGHT
Inches	mm	Inches	mm	PSI	Ft.
3/8	9.5	13/16	20.6	800	.13
1/2	12.7	1	20.6	800	.16
3/4	19.1	1^{1/8}	28.6	800	.18

Lengths to 300 ft.

Coupled to customer's specifications.

General Purpose Industrial-Agricultural Service Abrasion and Weather Resistant

HARG RED & HABG BLACK



For general air applications where oil is not a major factor. Also for water and water base agricultural spray such as Monsanto's LASSO*. EPDM tube and cover.

SIZE ID		BRAID	APPROX OD		WORKING PRESSURE	APPROX WEIGHT
Inches	mm	or EQUIV.	Inches	mm	PSI	Ft.
1/4	6.350	2	9/16	14.3	250	.09
5/16	7.938	2	41/64	16.3	250	.14
3/8	9.525	2	23/32	18.3	250	.18
1/2	12.7	2	7/8	21.2	250	.22
5/8	15.875	2	1	25.4	250	.25
3/4	19.1	2	1 ³ / ₁₆	30.2	250	.39
1	25.4	2	1 ¹⁵ / ₃₂	37.3	200	.53
1 ¹ / ₄	31.8	2	1 ³ / ₄	44.4	200	.63
1 ¹ / ₂	38.1	2	2	50.8	200	.74

Long length reels or cut to length. Coupled to customer's specifications.

Dual Purpose Top Of The Line Heavy Duty Hose For General Service

HAOR



For a variety of uses where oil resistant tube and cover are required.

SIZE ID		BRAID	APPROX O.D.		PSI	Ft.
Inches	mm	or EQUIV.	Inches	mm		
1/4	6.350	1	1/2	12.7	250	.09
1/4	6.350	2	9/16	14.3	300	.13
5/16	7.938	1	9/16	14.7	250	.13
5/16	7.938	2	41/64	16.3	300	.17
3/8	9.525	1	21/32	16.6	250	.14
3/8	9.525	2	45/64	17.8	300	.19
1/2	12.7	1	13/16	20.6	250	.21
1/2	12.7	2	7/8	22.2	300	.24
5/8	15.875	2	63/64	25.0	300	.30
3/4	19.1	1	1 ³ / ₃₂	27.8	250	.32
3/4	19.1	2	1 ⁵ / ₃₂	29.3	300	.38
1	25.4	1	1 ³ / ₈	34.9	250	.40
1	25.4	2	1 ¹⁵ / ₃₂	37.3	300	.59
1 ¹ / ₄	31.8	2	1 ²⁵ / ₃₂	45.2	250	.78
1 ¹ / ₂	38.1	2	2 ¹ / ₃₂	51.6	250	.92

Long length reels or cut to length. Coupled to customer's specifications.

Wire Braid Heavy Duty Highest Quality For Severe Service

HAWB



For heavy duty air service in industry and quarries. Oil resistant tube. Oil, weather and abrasion resistant cover. Also available with synthetic fabric braid carcass, at some sacrifice in working pressure.

SIZE ID		BRAID	APPROX OD		WORKING PRESSURE	APPROX WEIGHT
Inches	mm	or EQUIV.	Inches	mm	PSI	Ft.
1/2	12.7	1	15/16	23.8	600	.31
3/4	19.1	1	1 ⁷ / ₃₂	31.0	600	.48
1	25.4	1	1 ¹ / ₂	38.1	600	.63
1 ¹ / ₄	31.8	1	1 ³ / ₄	44.5	600	.84
1 ¹ / ₂	38.1	2	2 ⁷ / ₃₂	56.4	600	1.25
2	50.8	2	2 ²³ / ₃₂	69.1	600	1.78
2 ¹ / ₂	63.5	2	3 ¹ / ₄	82.6	450	2.35
3	76.2	2	3 ³ / ₄	95.3	450	2.72
4	101.6	2	4 ³ / ₄	120.7	450	3.95

Lengths to 100 ft.

Coupled to customer's specifications.

* A Monsanto registered trademark.

Contractor's Pneumatic Air Hose**Polyurethane Air Hose**

3/4" x 50' lengths.

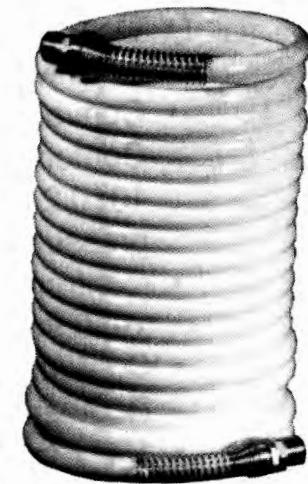
Coupled/uncoupled.

EPDM tube and cover.

250 psi.

For use with push-on fittings at working pressures of 250 psi for industrial service.

SIZE ID	SIZE ID
Inches	
1/4	250
3/8	250
1/2	250
5/8	250
3/4	250

Nylon Retractable Air Hose

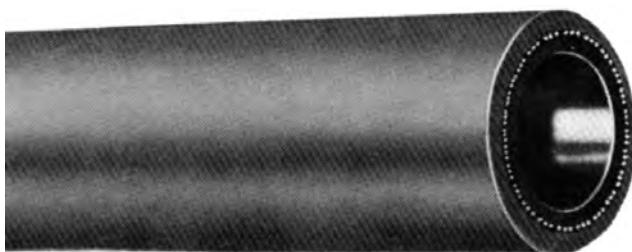
Retractable coil saves space and helps prevent accidents. Compact storage.

Other lengths cut and coupled to order. With spring guards.

SIZE ID	COUPLED LENGTHS
Inches	ft
1/4	12
1/4	25
1/4	50
3/8	12
3/8	25
3/8	50
1/2	12
1/2	25
1/2	50

PVC* Air Tool 250 Hose

HAPB BLUE



250 psi Temp.- 10° Ft. at 150°F

Flexible, long lasting, limited oil resistance.

Coupled to customer's specifications.

Also available on full reels.

** Pressure rating @ 70°F.*

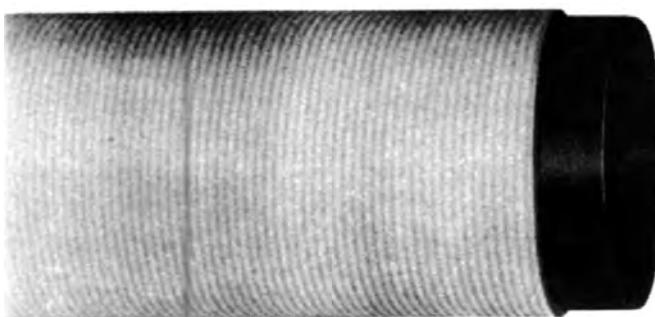
SIZE ID	LENGTHS	WORKING PRESSURE
Inches	ft	PSI
1/4	25	250
1/4	50	250
3/8	25	250
3/8	50	250
1/2	25	250
1/2	50	250
5/8	25	250
5/8	50	250
3/4	25	250
3/4	50	250
1	25	200
1	50	200

4

Fire Hose

Single Jacket 300 lb. factory tested FM Approved -100% Synthetic Jacket

Part #70s3



SIZE ID Inches	COUPLING BOWL SIZE Inches	WEIGHT	
		uncoupled lb./50 ft.	coupled* lb./50 ft.
1½	1¾	12	14
2	2⁵/₁₆	18	21
2½	2¹³/₁₆	23.5	27

*Based on brass pin lug + M/F couplings.

Jacket is totally immune to mildew and rot. NEVER NEEDS DRYING.

Per NFPA #1961 and #1962 hose shall be stenciled
"SERVICE TEST TO 150 PSI."

Couplings available in metal or Brass.

LENGTHS AVAILABLE: 50 & 100 ft.

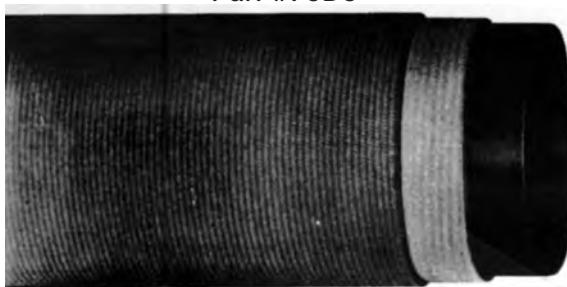


Let one of our fleet vehicles deliver to you!



Double Jacket 600 lb. Factory Tested FM Approved – 100% Polyester Jacket

Part #70D6



SIZE ID	COUPLING BOWL SIZE	WEIGHT	
		Inches	Inches
1½	1⁹/₁₆		16.5
2	2⁹/₁₆		23
2½	3		28.5

*Based on brass pin lug + M/F couplings.

*Other sizes available (NOT UL or FM approved)**Mildew resistant.**Per NFPA #1961 and #1962, hose shall be stenciled
"SERVICE TEST TO 300 PSI."***LENGTHS AVAILABLE:** 50 & 100 ft.**Single Jacket Rack-n-Reel Hose 500 lb. Factory Tested – UL Label – FM Approved – 100% Synthetic**

RR

Rack & Reel Hose**Single Jacket Specification Sheet**

- 500 pound test light weight
- Polyurethane lined
- 1 ½", 2 ½"

SIZE ID	COUPLING BOWL SIZE	WEIGHT		
		Inches	Inches	uncoupled lb./50 ft.
1½	1¹/₁₆			5
2½	2¹³/₁₆			14.5

*Based on brass pin lug + M/F couplings.

*Replaces unlined linen hose. Fully lined.**For use in all pin racks or reels.**Light weight, compact. Mildew resistant.**Per NFPA #1961 and #1962, hose shall be stenciled.
"SERVICE TEST TO 250 PSI."***LENGTHS AVAILABLE:** 50 ft. - 100 ft.**Food Handling** Rubber, FDA Grade, Suction and Discharge

HFRS



SIZE ID		APPROX OD		RATED WP	APPROX WEIGHT	
Inches	mm	Inches	mm	PSI	Ft.	Inches
1½	38.1	2¹/₁₆	52.4	150	.97	9
2	50.8	2⁹/₁₆	65.1	150	1.28	12
2½	63.5	3¹/₁₆	77.8	150	1.84	15
3	76.2	3¹¹/₁₆	93.7	150	2.27	18
4	101.6	4¹¹/₁₆	119.1	150	3.5	24

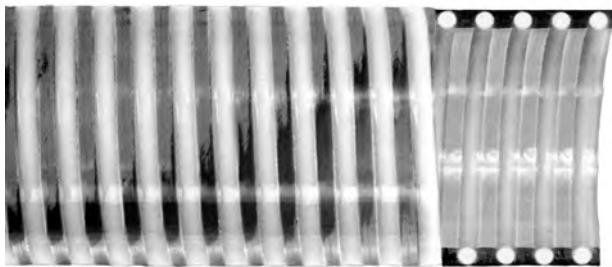
* Minimum bend radius

*For general food handling applications. Recommended for liquid or semi-solids, including oily food products. Ozone and abrasion resistant cover.**Lengths to 100 ft.**Coupled to customer's specifications*

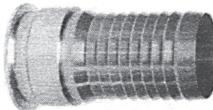
Food Handling — Garden Hose

Food Handling PVC, FDA Grade, Suction and Discharge

HFPS



For food processing applications. Flexible hose with good abrasion resistance. Inside bore is smooth and easy to clean.

Sanitary
FittingHose
Clamp

SIZE ID		APPROX OD		RATED WP		
Inches	mm	Inches	mm	PSI	lb/ft	Inches
3/4	19.6	31/32	24.6	100	.16	4.5
1	25.4	1 1/4	31.8	90	.23	4.5
1 1/4	31.8	1 1/2	38.1	90	.34	5
1 1/2	38.1	1 3/4	44.5	90	.41	6
2	50.8	2 5/16	58.7	70	.58	8
2 1/2	63.5	2 7/8	73	65	.97	10
3	76.2	3 7/16	87.3	60	1.19	12
4	101.6	4 1/2	114.3	50	1.94	16
6	152.4	6 1/2	165.1	45	3.03	37

Lengths to 100 ft.

* Minimum bend radius

Coupled to customer's specifications.

Temperature range: +15°F to +150°F. Pressure ratings shown are at +70°F.

Brewers Hose FDA Grade, Discharge Only (Also Available in Suction Hose)

HFBW



For use as brewers or wine hose or as a general purpose food handling hose.

SIZE ID		APPROX OD		RATED WP		
Inches	mm	Inches	mm	PSI	Ft.	Inches
1 1/2	38.1	2 1/16	52.4	100	.88	10
2	50.8	2 5/8	66.7	100	1.56	14
3	76.2	3 25/32	96	100	2.28	20

* Minimum bend radius

Lengths to 100 ft.

Coupled to customer's specifications.

Vinyl Garden Hose Nylon Reinforced, Green Cover and Tube



SIZE ID	COUPLED LENGTHS	WEIGHT PER LENGTH
Inches	Ft.	lbs.
1/2	50	5
5/8	25	3.5
5/8	50	6.5
5/8	75	10
3/4	50	8.5
1	50	10
1	75	15

Available in cartons and single coil.

Durable, lightweight, weather resistant. Constructed to resist kinking and remain flexible at lower temperatures.

FDA White Vinyl Marine and Camper Hose Nylon Reinforced, White Cover and Tube

8513

For all leisure activities on land or sea.

FDA approved for drinking water.

Available in cartons and single coil.

COUPLED LENGTHS		
SIZE ID		
Inches	Ft.	lbs.
1/2	25	2.6
1/2	50	.5
5/8	25	4.2
5/8	50	8.4

Marine Exhaust Hose Wet Service, No Wire, Discharge Service

SS-269

HMEX

Recommended for a great variety of hose ID sizes to slip over the outside diameter of standard pipe and tubing used in marine service where oil, heat and seawater resistance is required.

Can also be used for a variety of industrial and agricultural applications where suction is not required.

APPROX OD							
SIZE ID		INCHES	MM	#	PSI	FT.	FT.
7/8	22.2	1 1/2	38.1	4	200	.4	100
1 1/8	28.6	1 5/8	41.3	4	200	.5	100
1 1/4	31.8	1 7/8	47.6	4	200	.73	100
1 5/16	33.3	1 15/16	49.2	4	200	.75	100
1 3/8	34.9	2	50.8	4	200	.76	100
1 1/2	38.1	2 1/8	54.0	4	200	.84	100
1 5/8	41.3	2 1/4	57.2	4	200	.92	100
1 3/4	44.5	2 3/8	60.3	4	200	.99	100
1 7/8	47.6	2 7/16	61.9	4	200	1.05	100
2	50.8	2 9/16	65.1	4	200	1.1	100
2 1/4	57.2	2 7/8	73.0	4	200	1.23	100
2 3/8	60.3	3	76.0	4	200	1.28	100
2 1/2	63.5	3 1/8	79.2	4	200	1.33	100
2 5/8	66.7	3 1/4	82.4	4	200	1.40	100
2 7/8	73.0	3 1/2	88.7	4	200	1.43	100
3	76.0	3 5/8	92.1	4	200	1.46	100
3 1/8	79.2	3 3/4	95.3	4	200	1.59	100
3 1/4	82.4	4	101.6	4	200	1.65	100
3 1/2	88.7	4 1/8	104.8	4	200	1.71	100
4	101.6	4 5/8	117.5	4	200	1.89	100
4 1/2	114.3	5 1/8	130.2	4	200	2.13	100
5	127.0	6	152.4	6	200	2.79	100
5 9/16	141.3	6 9/16	166.7	6	200	3.24	100
6	152.4	7	177.8	6	200	3.77	100
6 5/8	168.3	7 5/8	193.7	6	200	4.05	100
7	177.8	8	203.2	6	200	4.46	25
8	203.2	9	228.6	6	150	5.08	25
8 5/8	219.1	9 5/8	244.5	6	150	6.17	25
10	254.0	11	279.4	6	150	7.57	25
10 3/4	238.1	11 3/4	298.5	6	100	8.07	25
12	304.8	13	330.2	6	100	8.67	25
12 3/4	323.9	13 3/4	349.3	6	100	10.22	25

Boat Fuel Hose Flexible/Durable/Weather Resistant

HPTA

Flame resistant, meets USCG & BIA Specs, SAE-J-1527.

Both A and B recommended for connecting.

Deck plate filler to fuel tank, and other low pressure transfer of fuel and vapor.

Both with Helical wire construction in sizes 1 $\frac{1}{2}$ " & above.

TYPE A APPROVED

SIZE ID	APPROX OD	APPROX. BURST	APPROX WEIGHT
Inches	Inches	PSI	Ft
1/4	9/16	175	.13
5/16	5/8	175	.15
3/8	11/16	175	.17
1/2	27/32	175	.24
5/8	1 $\frac{1}{16}$	175	.37
1 $\frac{1}{2}$	1 $\frac{3}{4}$	90	.49
1 $\frac{5}{8}$	2 $\frac{1}{16}$	90	.69
1 $\frac{3}{4}$	2 $\frac{3}{16}$	90	.73
1 $\frac{7}{8}$	2 $\frac{1}{8}$	90	.65
2	2 $\frac{1}{4}$	90	.66
2 $\frac{3}{8}$	2 $\frac{5}{8}$	90	.82

TYPE B APPROVED

SIZE ID	APPROX OD	PSI	Ft.
Inches	Inches	PSI	Ft.
1/4	1/2	175	.11
5/16	9/16	175	.13
3/8	5/8	175	.15
1/2	3/4	175	.21
5/8	1	175	.33
1 $\frac{1}{2}$	1 $\frac{15}{16}$	90	.54
1 $\frac{5}{8}$	2 $\frac{1}{16}$	90	.69
1 $\frac{3}{4}$	2 $\frac{3}{16}$	90	.73
1 $\frac{7}{8}$	2 $\frac{5}{16}$	90	.66
2	2 $\frac{7}{16}$	90	.71
2 $\frac{3}{8}$	2 $\frac{7}{8}$	90	.82

Gasoline Hose - Softwall UL Approved, Static Wire, All Sizes

HPSW



For leaded or unleaded gasoline, and up to 50% aromatic hydrocarbons. Also for use as a Stage II curb pump vapor recovery system hose. 150 PSI working pressure all sizes.

SIZE ID		APPROX OD		
Inches	mm	Inches	mm	Ft.
5/8	15.9	1	25.4	.26
3/4	19.1	1 $\frac{1}{8}$	28.6	.37
1	25.4	1 $\frac{1}{2}$	38.1	.55

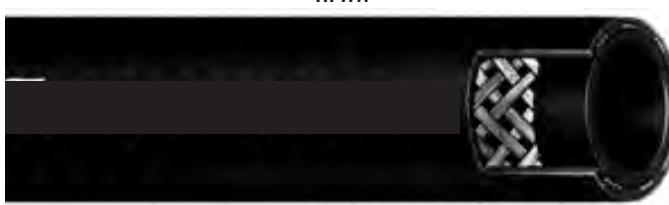
Full factory reels or cut to length.

Coupled m/m. Permanent or reusable.

Internal spring guards available on request (recommended).

Gasoline Hose - Hardwall UL Approved, Wire Braid

HPHW



For leaded and unleaded gasoline, and up to 50% aromatic hydrocarbons. 150 PSI working pressure and full vacuum all sizes.

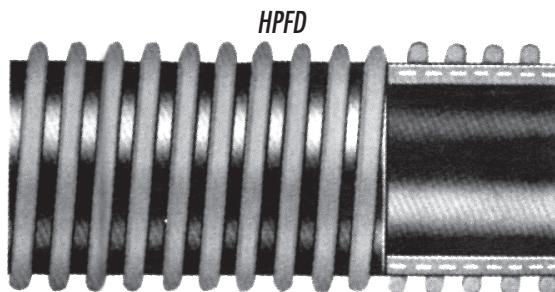
SIZE ID		APPROX OD		
Inches	mm	Inches	mm	lb/ft
5/8	15.9	1	25.4	.42
3/4	19.1	1 $\frac{1}{8}$	28.6	.45
1	25.4	1 $\frac{1}{2}$	38.1	.71

Full factory reels or cut to length.

Coupled m/m. Permanent or reusable.

Internal spring guards available on request (recommended).

Fuel Drop Hose Suction and Discharge



SIZE ID		APPROX OD		RATED WP	APPROX WEIGHT	APPROX MBR*
Inches	mm	Inches	mm	PSI	Ft.	Inches
3	76.2	3^{23/64}	91.4	100	1.27	6
4	101.6	4^{13/16}	121.9	100	2	8

*Minimum bend radius.

Lengths to 100 ft.

Coupled to customer's specifications with banding sleeves.

Tough, lightweight.

For handling petroleum products. Maximum 40% aromatics. Tough thermoplastic helix cover for high abrasion resistance and flexibility.

Heavy Duty Rubber Suction and Discharge

HPTT



(Tank Truck Hose)

Smooth Cover. Heavy duty oil and gasoline hose for full vacuum service. Good abrasion resistant cover. Flexible and easy to handle.

SIZE ID		APPROX OD		RATED WP	APPROX WEIGHT	APPROX MBR*
Inches	mm	Inches	mm	PSI	Ft.	Inches
1	25.4	1^{1/2}	37.6	150	.60	2
1^{1/4}	31.7	1^{3/4}	44.5	150	.74	3
1^{1/2}	38.1	2	50.8	150	.87	4
2	50.8	2^{9/16}	65.1	150	1.55	4^{1/2}
2^{1/2}	63.5	3^{5/32}	80.2	150	2.08	5^{1/2}
3	76.2	3^{21/32}	92.9	150	2.42	7
3^{1/2}	88.9	4^{7/32}	107	150	3.16	8
4	101	4^{3/4}	121	150	3.56	10
6	152	6^{9/16}	167	75	7.26	30

*Minimum bend radius.

Sizes to 4" available in 100 ft. lengths; above 4", 30 ft. lengths.

Coupled to customer's specifications.

Hot Tar and Asphalt Hose To 350°F Suction and Discharge

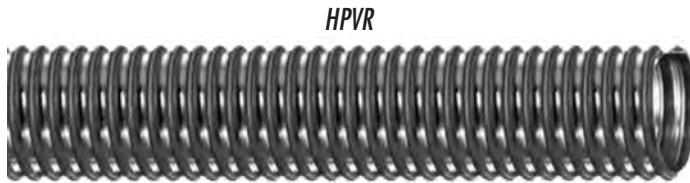
HTRT



SIZE ID		APPROX OD		RATED WP	WEIGHT	APPROX MBR*
Inches	mm	Inches	mm	PSI	lb/ft	Inches
1^{1/2}	38.1	2^{1/4}	57.9	150	1.4	6
2	50.8	2^{49/64}	71	150	1.78	8
2^{1/2}	63.5	3^{5/16}	84	150	2.35	10
3	76.2	3^{25/32}	97	150	2.94	12
4	101.64	4^{27/32}	123	150	3.75	18

*Minimum bend radius.

For a variety of petroleum and heat applications. Reinforced with steel wire and steel helix. Also available in flexible all metal construction.

Vapor Recovery Stage 1 Corrugated, Flexible Oil Resisting Tube and Cover

SIZE ID		RATED WP	APPROX WEIGHT	APPROX MBR*
Inches	mm	PSI	Ft.	Inches
3	76.2	20	.88	4
4	101.6	15	1.15	7

*Minimum bend radius.

Lengths to 50 ft.
Coupled to customer's specifications.

For recovery of hydrocarbon vapors in bulk transfer and service station fuel delivery. Polyurethane lined PVC suction hose with static wire. High flexibility for ease of maneuvering.

Fuel Delivery Reel Hose Residential, Marine, Industrial, Non-marking Cover

(Fuel Oil Delivery)

For transfer or delivery service. Excellent weather and abrasion resistance. Excellent for use on reels.

SIZE ID		APPROX OD		RATED WP	APPROX WEIGHT
Inches	mm	Inches	mm	PSI	Ft.
1	25.4	1 1/2	38.1	250	.65
1 1/4	31.8	1 51/64	45.6	250	.84
1 3/8	34.9	1 55/64	47.2	250	.88
1 1/2	38.1	2 3/32	53.2	250	.95

*Minimum bend radius.

Full reel or specified lengths.
Coupled to customer's specifications. Static wire available.
Very low temperature (to -60°F) available on request.

Liquefied Petroleum Gas UL Approved, Synthetic Fiber Braid

(LP-Gas)

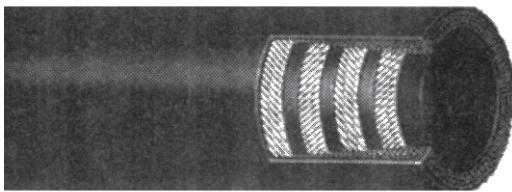
For residential or bulk transfer non-contaminating, low temperature (-40° to +150°F). Pin pricked cover. Also available with stainless steel wire braid carcass.

SIZE ID		APPROX OD		RATED WP	APPROX WEIGHT
Inches	mm	Inches	mm	PSI	Ft.
1/4	6.4	9/16	14.3	350	.14
3/8	9.5	3/4	19.1	350	.21
1/2	12.7	15/16	23.8	350	.35
3/4	19.1	1 1/4	31.8	350	.56
1	25.4	1 9/16	39.7	350	.83
1 1/4	31.8	1 13/16	46	350	1.03
1 1/2	38.1	2 1/4	57.2	350	1.26
2	50.8	2 3/4	69.9	350	1.6

Full factory reels or specified lengths.
Coupled to customer specifications.

Sand Suction 3/8" (9.5mm) Tube Full Vacuum, Heavy Duty

HMSS



For severe abrasive service handling sand or gravel in dredging and sand pit applications. Tire cord carcass.

SIZE ID		APPROX OD		RATED WP	PLIES	Ft.
Inches	mm	Inches	mm	PSI	#	
6	152	7^{9/16}	192	150	6	11
6^{5/8}	168	8^{3/16}	208	150	6	12
8	203	10^{3/16}	259	150	6	19
8^{5/8}	219	10^{7/8}	276	150	6	21
10	254	12^{3/8}	314	150	8	24
10^{3/4}	273	13^{1/8}	333	150	8	27
12	305	14^{1/2}	368	150	10	30
12^{3/4}	326	15^{5/16}	389	150	10	32
14	356	16^{1/2}	419	150	10	36
16	407	18^{3/4}	477	150	12	48
18	457	21	533	150	14	55

Lengths to 50 ft. Other tube thicknesses or IDs available on request.

Sand Discharge 1/4" (6.35mm) Tube Heavy Duty

HMMD



For dredging Service as a flexible connector. Also available with capped ends. Tire cord carcass.

SIZE ID		APPROX OD		RATED WP	PLIES	Ft.
Inches	mm	Inches	mm	PSI	#	
3	76	3^{3/4}	95.1	150	2	1.9
3^{1/2}	88.7	4^{1/2}	114.3	150	2	2.16
4	101.6	4^{3/4}	120.7	125	2	2.46
4^{1/2}	114.3	5^{1/4}	133.4	125	2	2.71
6	152.4	7^{1/16}	179	110	4	4
6^{5/8}	168.3	7^{5/8}	194	110	4	5
8	203.2	9^{3/16}	233	110	5	6
8^{5/8}	219.1	9^{7/8}	251	110	6	7
10	254	11^{3/8}	289	110	6	8
10^{3/4}	273.1	12	305	110	7	9
12	304.8	13^{1/2}	343	110	8	11
14	356	15^{13/32}	391	110	10	15
16	407	17^{1/2}	445	110	12	19
18	457	19^{1/2}	496	110	12	22

Lengths to 50 ft. Other tube thicknesses or IDs available on request.

Dredge Sleeves 3/8" (9.5mm) Tube Heavy Duty, High Abrasion Resistance

HMDS



For dredging service as a flexible connector. Also available with capped ends. Tire cord carcass.

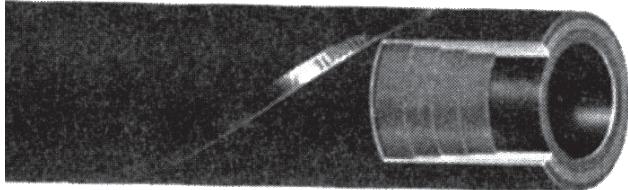
SIZE ID		APPROX OD		RATED WP	PLIES	lb/ft
Inches	mm	Inches	mm	PSI	#	
6^{5/8}	168.3	8^{3/16}	208	150	6	9
8^{5/8}	219.1	10^{3/16}	259	150	6	10
10^{3/4}	273.1	12^{7/16}	316	150	8	14
12^{3/4}	325.9	14^{5/8}	372	150	10	18
14	356	15^{5/16}	389	150	12	21
16	407	18	457	150	14	25
18	457	20	483	150	14	28

Lengths to 50 ft.

Other tube thicknesses or IDs available on request.

Grouting, Plaster and Concrete Pumping Hose Heavy Duty

HMCP



For rugged service in high pressure applications. Resistant to kinking and flattening in tight bend applications. Heavy duty abrasion resistant cover.

SIZE ID		APPROX OD		RATED WP	APPROX WEIGHT
Inches	mm	Inches	mm	PSI	lb./ft.
1 ^{1/2}	38.1	2 ^{3/16}	55.6	800	1.0
2	50.8	2 ^{3/4}	69.9	800	1.4
2 ^{1/2}	63.5	3 ^{1/4}	82.6	500	1.8
3	76.2	4 ^{1/8}	105	500	3
3 ^{1/2}	88.9	4 ^{5/8}	117	500	3.5
4	101.6	5 ^{3/16}	132	500	4
5	127	6 ^{3/16}	157	500	5
6	152	7 ^{1/4}	184	500	6.8

Lengths to 100 ft.

Coupled with full flow threaded brass fittings or heavy duty victaulic couplings.

Concrete Fittings and Clamps**Paint and Solvent Hose Fluid Spray Hose**

HSNR



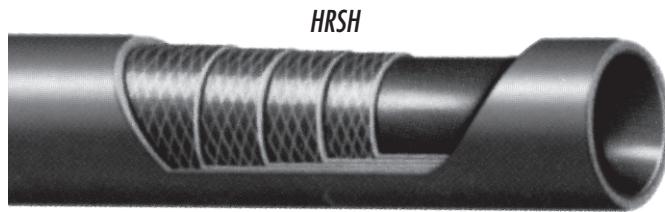
*For fluid spray and transferring paint and solvent fluids.
High abrasion resistant cover. Nylon tube.*

SIZE ID		APPROX OD		RATED WP	APPROX WEIGHT
Inches	mm	Inches	mm	PSI	lb./ft.
1/4	6.4	1/2	12.7	750	.10
3/8	9.5	11/16	17.5	750	.15
1/2	12.7	7/8	22.2	750	.22
3/4	19.1	1 ^{1/8}	30.2	750	.35
1	25.4	1 ^{1/2}	38.1	750	.49

Full factory reels or specified lengths.

Coupled to customer's specifications.

Silicone Coolant and Heater Hose



(-)65°F to 350°F continuous operating temperature.

For high flexibility and long life in engine coolants and heater systems.

Coupled to customer's specifications.

Wire type clamps or serrated clamps are not recommended.

HRSH
SILICONE

SIZE ID		APPROX OD		APPROX BURST PRESSURE	APPROX WEIGHT
Inches	mm	Inches	mm	PSI	lb/ft.
1/2	12.7	7/8	22.6	600	.20
5/8	15.9	1	25.8	585	.24
3/4	19.1	1 1/8	29.0	575	.29
7/8	22.2	1 1/4	32.1	560	.34
1	25.4	1 3/8	35.3	550	.39
1 1/8	28.6	1 1/2	38.5	525	.44
1 1/4	31.8	1 5/8	41.7	500	.49
1 3/8	34.9	1 3/4	44.8	475	.54
1 1/2	38.1	1 7/8	48.0	450	.59
1 5/8	41.3	2	51.2	425	.63
1 3/4	44.5	2 1/8	54.4	400	.68
2	50.8	2 3/8	60.7	400	.78
2 1/8	54.0	2 1/2	63.9	375	.83
2 1/4	57.2	2 5/8	67.1	350	.88
2 3/8	60.3	2 3/4	70.2	325	.93
2 1/2	63.5	2 7/8	73.4	300	.98
2 5/8	66.7	3	76.6	285	1.02
2 3/4	69.9	3 1/8	79.8	275	1.07
3	76.2	3 3/8	86.1	250	1.17
3 1/4	82.6	3 5/8	92.5	225	1.27
3 1/2	88.9	3 7/8	98.8	200	1.37
3 3/4	95.3	4 1/8	105.2	175	1.46
4	101.6	4 3/8	111.5	150	1.56
4 1/2	114.3	4 7/8	124.2	150	1.76
5	127.0	5 3/8	136.9	125	1.95
6	152.4	6 3/8	162.2	100	2.34

Silicone Formed Radiator and Heater Hose



Applications:
Custom designed and manufactured hose products for heater and radiator applications.

Engineered to your specifications using a variety of reinforcements.

Ducting Hose Flexible, Lightweight, Low Pressure or Vacuum Service

HD

SIZE: 1" ID through 48" ID.**AVAILABLE LENGTHS:** to 25 feet.

For fumes, air and airborne particles where light, flexible crush resistant ducting is required. 1 and 2 ply construction. Available with extra dips of neoprene. Various construction available including UL or silicone for high heat applications.

Automotive Radiator and Marine Hose Oil & Heat Resistant

HRWR

SIZE : 1/2" ID through 6" ID.**AVAILABLE LENGTHS:** to 60 feet most sizes.

Built to SAE-J 1527 Type B2-USCG approved.

A highly versatile hose for use as automotive radiator hose and bilge vent, cabin heating, etc. Construction: compound for a variety of applications with fabric and helical wire carcass.

Burst pressure from 45 to 250 PSI dependent on size.

Also available for vacuum applications.

Crush Proof, Non-kink Vacuum Hose All Weather Plastic, Complete With Welded Cuffs

HVHV

SIZE: 1^{1/2}" ID through 4" ID.**AVAILABLE LENGTHS:** to 60 feet.**VACUUM:** 29 inches of mercury.

For industrial, construction, and cesspool applications. Flexible to (-)40°F. Handles all organic fluids, alkalies, most acids and many oils. Low pressure. Also available: threaded vinyl repair cuffs, union and couplings. Bends to acute angles. High abuse capacity.

Hot Air Blower Hose 350°F, EPDM Tube and Cover

SIZE ID		APPROX OD		RATED WP	APPROX WEIGHT	APPROX MBR*
Inches	mm	Inches	mm	PSI	lb/ft	Inches
2	50.8	2^{1/2}	63.5	150	1.1	7
3	76.2	3^{1/2}	88.9	150	1.9	9
4	102	4^{9/16}	116	125	2.7	12
6	152	6^{13/16}	173	75	5.4	24

*Minimum bend radius.

Lengths to 100 ft.

Coupled to customer's specifications.

Flexible, lightweight. Rugged construction for hot blower service and chemical suction hose.

Gum Boot

SIZE ID*		APPROX OD		RATED WP	APPROX WEIGHT
Inches	mm	Inches	mm	PSI	lb/ft
6	152	6^{7/16}	163	50	1.8
8	203	8^{7/16}	214	50	2.3
10	254	10^{7/16}	265	30	3
12	305	12^{7/16}	316	20	4

AVAILABLE LENGTHS: 6" through 8", 60 ft. lengths
10" through 12", 25 ft. lengths
Over 12", contact factory.
Other sizes available up to 24"ID.

For cement and general abrasion conditions in gravity flow or low pressure applications.

Hot Edible Oil Hose FDA One Wire Braid

SIZE ID		APPROX OD		RATED WP	APPROX MBR*	APPROX WEIGHT
Inches	mm	Inches	mm	PSI	Ft.	Inches
1/2	12.7	1.020	25.4	250	6	.48
5/8	15.875	1.140	29.1	250	7	.53
3/4	19.05	1.265	31.9	250	8	.60

*Minimum bend radius.

Available in any length. Sanitary fittings available.

Made with FDA approved materials. Buna-N tube and cover will not affect taste or odor. Grey cover, white tube. For use with hot or cold cooking oils. Temperature to 275°F constant and 350°F intermittent.

Twin Welding Hose Grade RM or R Red Cover/Single line also available and Green

HYTW



(Oxygen and Acetylene)

SIZE ID*		APPROX OD		RATED WP	APPROX WEIGHT
Inches	mm	Inches	mm	PSI	lb/ft
3/16	4.8	7/16	11.1	200	.18
1/4	6.4	17/32	13.5	200	.25
5/16	7.9	19/32	15.1	200	.29
3/8	9.5	21/32	16.7	200	.33

*Other sizes available up to 24" ID.

Grade R- Synthetic Tube & Cover

Grade RM-Synthetic Tube. Oil & Flame Resistant Cover

All lengths available, coupled or uncoupled

Pressure Washer Hose and Assembly**Trigger Gun - Wand - Spray Tips - PW30**

One and two wire braid. 250°F.

High resistance to cleaning chemicals.

Available in various lengths and colors.

ALL FIGURES BASED ON 3000 PSI HOSE ONLY

SIZE ID		APPROX OD		RATED WP	APPROX WEIGHT	APPROX MBR*
Inches	mm	Inches	mm	PSI	lb/ft	Inches
1/4	6.35	9/16	13.5	3000	.16	4
1/2	12.7	13/16	20	3000	.30	3.5
3/8	9.5	11/16	17.5	3000	.22	2.5
3/8	9.5	11/16	17.5	4500	.22	2.5

Available in various lengths.

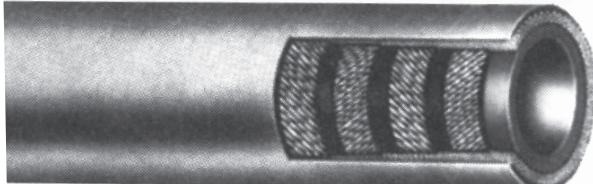
*Minimum bend radius.



Stainless steel seat, ball & actuator pin.
At 3000 PSI - approx. 10 GPM
Aluminum Wand - any length.
Spray Tips - various angles & GPM
JEA 5030NP
4000 PSI
4500 PSI - Non-Marking Available

Dry Materials Handling Flexible Discharge Only

HMMD



SIZE ID		APPROX OD		RATED WP	UNIT QUANTITY	APPROX WEIGHT
Inches	mm	Inches	mm	PSI	ft	lb/ft
3	76.2	3 ^{7/16}	87.3	50	100	1.94
4	102	4 ^{29/64}	113	50	100	2.57
5	124	5 ^{15/32}	139	40	100	3.3
6	153	6 ^{21/32}	170	40	100	3.75

Coupled to customer's specifications.

For dry bulk materials such as cement, lime, fertilizer,
and so forth. Where high abrasion tube is required.

Sand Blast Hose Static Conductive Tube

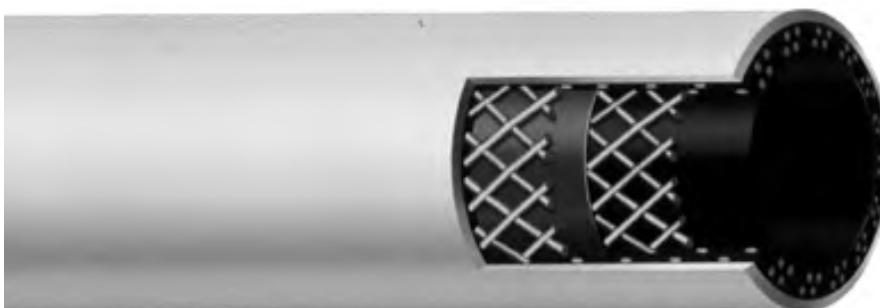
HMSB



SIZE ID		APPROX OD		RATED WP	WEIGHT
Inches	mm	Inches	mm	PSI	lb/ft
3/4	19.1	1 1/2	38.1	150	.67
1	25.4	1 7/8	47.6	150	.99
1 1/4	31.8	2 5/32	54.8	150	1.14
1 1/2	38.1	2 7/16	61.9	150	1.32
2	50.8	2 15/16	74.6	150	1.65
3	76.2	3 15/16	76.2	150	2.74

*Lengths to 100 ft.**Coupled to customer's specifications.**Sand blast couplings are available in aluminum and brass.**For sizes 3/4" thru 1 1/2" I.D.***Creamery Washdown Hose** Discharge Only, White Cover.

HWWD



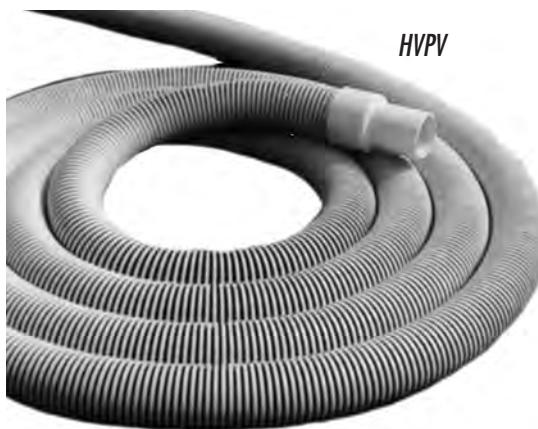
*For hot water and low pressure washdown service.
Cover is resistant to oils and animal fats.*

SIZE ID		APPROX OD		RATED WP	WEIGHT
Inches	mm	Inches	mm	PSI	lb/ft
1/2	12.7	29/32	23.8	150	.43
3/4	19.1	1 9/32	31.0	150	.61
1	25.4	1 1/2	38.1	150	.74

*Cut to lengths or full reels. Coupled to customer's specifications.
Molded nozzle available, see industrial coupling and fitting section.*



Swimming Pool Vacuum Hose Lightweight Non - Marking



SIZE: 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ " and 2" ID

LENGTHS: 25-30-35-40-45 and 50 ft.

Excellent ultraviolet protection for longer life. Flexible and crushproof. Guaranteed leak proof cuffs.

Carpet Cleaning Steam Extracting Hose Vacuum Service - All Plastic - Reinforced Ribbing



SIZE: 1 $\frac{1}{2}$ " and 2" ID

STOCK LENGTHS: 25 and 50 ft.

Cuffed ends.

Smooth Interior - will not shrink.

Under High Vacuum - crush proof.

For steam extraction in rug cleaning service; both truck mounted and portable. Lightweight and flexible in cold weather applications.

250 PSI @ 407° Saturated Steam - @ 450° Superheated Steam

Heat Resistant EPDM Cover

HWST



*Wire Braids - High Quality.
For continuous or intermittent service
where oil resistance is not required.*

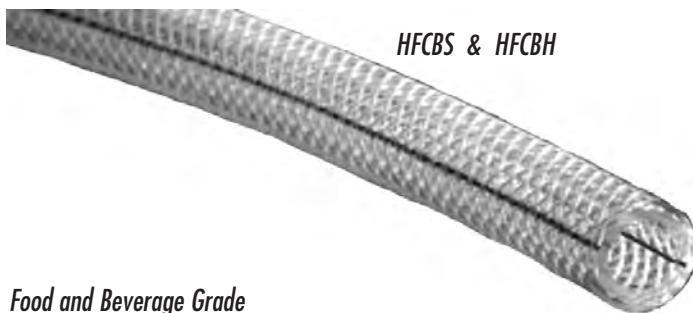
SIZE ID		APPROX OD		WIRE	APPROX MBR*	WEIGHT
Inches	mm	Inches	mm	Braids	PSI	lb/ft
1/2	12.7	1 3/32	27.8	2	250	.45
3/4	19.1	1 3/8	34.9	2	250	.65
1	25.4	1 5/8	41.3	2	250	.85
1 1/4	31.8	1 15/16	49.2	2	250	1.10
1 1/2	38.1	2 3/32	53.2	2	250	1.23
2	50.8	2 21/32	67.5	2	250	1.82

* Minimum Bend Radius

Coupled to customer's specifications.

*1/2" ID Thru 1" ID - Long length factory reels or specified lengths
1 1/4" - 1 1/2" ID - 25 ft. and 50 ft. lengths*



FDA - AMACLEAR "R" Clear Reinforced

Food and Beverage Grade

Working pressures at 70° F. Temperature range + 150° F.

Working pressure is reduced as temperature is increased.

Amaclear "R" – Polyester Reinforced PVC, Non Toxic, Clear Chemical Resistance.

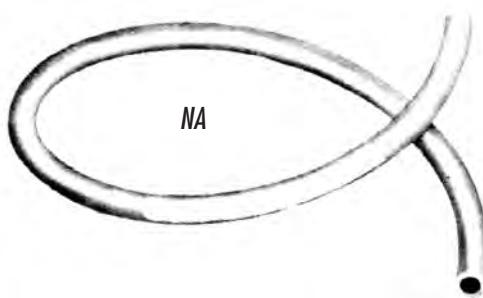
SIZE ID		SIZE OD		APPRX. WEIGHT	STD LENGTH*	MAX WP
Inches	mm	Inches	mm	lb/ft	ft	PSI
1/8	3.18	21/64	8.33	13	300	375
3/16	4.76	13/32	10.32	17	300	300
1/4	6.35	1/2	12.7	26	300	300
5/16	7.94	9/16	14.29	31	300	250
3/8	9.52	5/8	15.87	36	300	225
1/2	12.7	13/16	20.64	58	300	200
5/8	15.87	1	25.4	57	200	180
3/4	19.05	1 1/8	28.6	66	200	175
1	25.4	1 3/8	34.9	83	200	125
1 1/4	31.8	1 3/4	44.5	70	100	100
1 1/2	38.1	2	50.8	82	100	90
2	50.8	2 1/2	63.5	105	100	75

FDA - AMACLEAR Clear Non-Reinforced

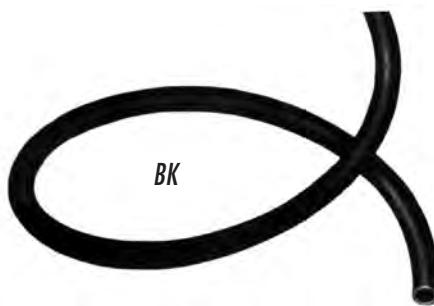
Available In Laboratory Grade and Food Grade

Temperature range (-) 20° F. to + 140° F. Working pressure is reduced as temperature is increased.

SIZE ID		SIZE OD		WALL THICKNESS		MAX WKG @ 70° F.
Inches	mm	Inches	mm	Inches	mm	PSI
1/8	3.18	1/4	6.35	1/16	1.59	68
3/16	4.76	5/16	7.94	1/16	1.59	55
3/16	4.76	3/8	9.53	3/32	2.38	70
3/16	4.76	7/16	11.11	1/8	3.18	80
1/4	6.35	3/8	9.53	1/16	1.59	55
1/4	6.35	7/16	11.11	3/32	2.38	60
1/4	6.35	1/2	12.7	1/8	3.18	70
1/4	6.35	9/16	14.3	5/32	3.97	80
5/16	7.94	7/16	11.11	1/16	1.59	50
5/16	7.94	1/2	12.7	3/32	2.38	60
5/16	7.94	9/16	14.3	1/8	3.18	70
3/8	9.53	1/2	12.7	1/16	1.59	40
3/8	9.53	9/16	14.3	3/32	2.38	50
3/8	9.53	5/8	15.9	1/8	3.18	65
7/16	11.11	9/16	14.3	1/16	1.59	40
7/16	11.11	5/8	15.9	3/32	2.38	45
7/16	11.11	11/16	17.5	1/8	3.18	50
1/2	12.7	5/8	15.9	1/16	1.59	30
1/2	12.7	11/16	17.5	3/32	2.38	40
1/2	12.7	3/4	19.1	1/8	3.18	45
1/2	12.7	13/16	20.6	5/32	3.97	65
9/16	14.3	3/4	19.1	3/32	2.38	40
9/16	14.3	13/16	20.6	1/8	3.18	45
9/16	14.3	7/8	22.2	5/32	3.97	55
5/8	15.9	13/16	20.6	3/32	2.38	35
5/8	15.9	7/8	22.2	1/8	3.18	40
5/8	15.9	15/16	23.8	5/32	3.97	50
11/16	17.5	7/8	22.2	3/32	2.38	30
11/16	17.5	15/16	23.8	1/8	3.18	35
11/16	17.5	1	25.4	5/32	3.97	40
3/4	19.1	1	25.4	1/8	3.18	35
3/4	19.1	1 1/4	31.8	1/4	6.35	45
3/4	19.1	1 1/8	28.6	3/16	4.76	35
3/4	19.1	1 1/16	26.9	5/32	3.97	40
7/8	22.2	1 1/4	31.8	3/16	4.76	35
7/8	22.2	1 1/8	28.6	1/8	3.18	30
7/8	22.2	1 3/16	30.2	5/32	3.97	35
1	25.4	1 1/4	31.8	1/8	3.18	28
1	25.4	1 5/16	33.3	5/32	3.97	32
1	25.4	1 3/8	34.9	3/16	4.76	45
1	25.4	1 1/2	38.1	1/4	6.35	50
1 1/4	31.8	1 5/8	41.3	3/16	4.76	40
1 1/4	31.8	1 3/4	44.5	1/4	6.35	45
1 1/2	38.1	2	50.8	1/4	6.35	40
1 1/2	38.1	1 7/8	47.6	3/16	4.76	35
2	50.8	2 1/2	63.5	1/4	6.35	35

Flexible Polyethylene Tubing Non - Reinforced

TPE



SIZE ID	SIZE OD	WALL THICKNESS	WKG @ 73° F
Inches	4.3	.040	.91
.17	3.18	.16	1.59
1/8	4.76	.16	1.59
3/16	6.35	.16	1.59
1/4	6.35	.32	.79
1/4	7.94	.16	1.59
5/16	9.53	.16	1.59
3/8	11.11	.16	1.59
7/16	12.7	.16	1.59
9.53	1/2		90
3/8			

Colors Available: Natural or Black

Up thru 1/2" OD lengths to 500 ft. on spools

Over 1/2" OD thru 3/4" OD - 100 ft. coils

Over 3/4" OD - 50 ft. coils.

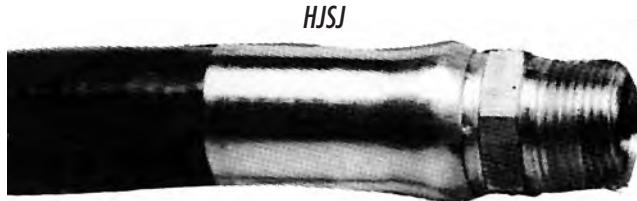
Temperature range (-) 20° F + 160° F. Working pressure is reduced when temperature is increased.

SIZE ID	SIZE OD	WALL THICKNESS	WKG @ 73° F	PSI
Inches	mm	Inches	mm	
1/2	12.7	5/8	15.9	70
5/8	15.9	3/4	19.1	60
5/8	15.9	13/16	20.6	82
5/8	15.9	7/8	22.2	100
3/4	19.1	1	25.4	90
7/8	22.2	1	25.4	45
1	25.4	1 3/8	34.9	90
1 1/4	31.8	1 5/8	41.3	82
1 1/2	38.1	1 3/4	44.5	50
2	50.8	2 1/4	31.8	39

Rubber Tubing

COMPOUNDS	COLOR	DUROMETER	TENSILE	ELONGATION	S. P. GRAV	TEMP RANGE
Latex Gum Rubber (LGR) SURGICAL	Amber	35 ± 5	3500 PSI	750%	0.95	(-) 60° F to + 212° F
Styrene-Butadiene Rubber (SBR)	Red	70 ± 5	800 PSI	400%	1.63	0° F to + 140° F
Neoprene-Chloroprene Rubber (CR)	Black	80 ± 5	1400 PSI	275%	1.50	(-) 20° F to 212° F

COMPOUNDS			SIZE ID		SIZE OD		WALL THICKNESS		COMPOUNDS			SIZE ID		SIZE OD		WALL THICKNESS	
LGR	CR	SBR	Inches	mm	Inches	mm	Inches	mm	LGR	CR	SBR	Inches	mm	Inches	mm	Inches	mm
LGR			1/16	1.59	1/8	3.18	1/32	.79	LGR			5/16	7.94	11/16	17.5	3/16	4.76
LGR			3/32	2.38	3/16	4.76	3/64	1.19	LGR	CR	SBR	3/8	9.53	1/2	12.7	1/16	1.59
LGR	CR	SBR	1/8	3.18	1/4	6.35	1/16	1.59	LGR	CR	SBR	3/8	9.53	9/16	14.3	3/32	2.38
LGR			1/8	3.18	3/8	9.53	1/8	3.18	LGR	CR	SBR	3/8	9.53	5/8	15.9	1/8	3.18
LGR			1/8	3.18	1/2	12.7	3/16	4.76	LGR			3/8	9.53	3/4	19.1	3/16	4.76
LGR			1/8	3.18	5/8	15.9	1/4	6.35	LGR	CR		1/2	12.7	5/8	15.9	1/16	1.59
LGR			5/32	3.97	1/4	6.35	3/64	1.19	LGR		SBR	1/2	12.7	11/16	17.5	3/32	2.38
LGR		SBR	3/16	4.76	5/16	7.94	1/16	1.59	LGR	CR	SBR	1/2	12.7	3/4	19.1	1/8	3.18
LGR	CR	SBR	3/16	4.76	3/8	9.53	3/32	2.38	LGR			1/2	12.7	7/8	22.2	3/16	4.76
LGR		SBR	3/16	4.76	7/16	11.11	1/8	3.18	LGR			1/2	12.7	1	25.4	1/4	6.35
LGR	CR	SBR	1/4	6.35	3/8	9.53	1/16	1.59	LGR	CR	SBR	5/8	15.9	7/8	22.2	3/16	4.76
LGR	CR	SBR	1/4	6.35	7/16	11.11	3/32	2.38	LGR			5/8	15.9	1	25.4	3/16	4.76
LGR	CR	SBR	1/4	6.35	1/2	12.7	1/8	3.18	LGR	CR	SBR	3/4	19.1	1	25.4	1/8	3.18
LGR			1/4	6.35	5/8	15.9	3/16	4.76	LGR			3/4	19.1	1 1/8	28.6	3/16	4.76
LGR			5/16	7.94	7/16	11.11	1/16	1.59	LGR	CR		7/8	22.23	1 1/8	28.6	1/8	3.18
LGR	CR	SBR	5/16	7.94	1/2	12.7	3/32	2.38	LGR	CR	SBR	1	25.4	1 1/4	31.8	1/8	3.18
LGR		SBR	5/16	7.94	9/16	14.3	1/8	3.18	LGR			1	25.4	1 3/8	34.9	3/16	4.76

Sewer Jetting Hose High Abrasion Resistant Cover

For high pressure heavy duty sewer cleaning service.
Coupled with Swaged on male pipe fittings each end.

SIZE ID		APPROX OD		RATED	PROOF	MINIMUM BURST	APPROX. WEIGHT
Inches	mm	Inches	mm	PSI	PRESSURE	PRESSURE	lb/ft
1/2	12.7	.87	22.2	4000	6000	12000	.19
5/8	15.9	.96	24.4	2500	3750	6250	.18
3/4	19.1	1.18	29.9	2500	3750	6250	.29
3/4	19.1	1.18	29.9	3000	4500	7500	.29
1	25.4	1.46	37.3	2000	3000	5000	.39
1	25.4	1.46	37.3	2500	3750	6250	.39

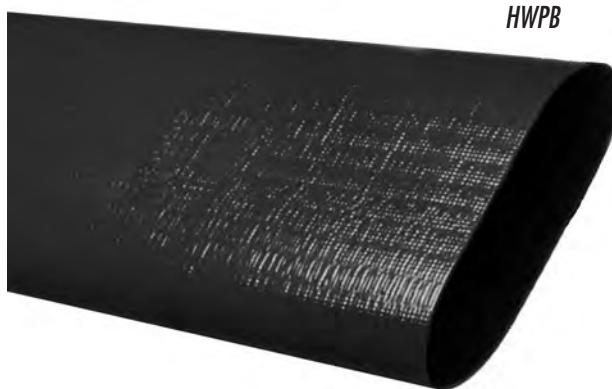
Coupled lengths only.
Continuous lengths 400-500-600 . Other lengths available on request.

Water Discharge Heavy Duty Rubber Discharge Only

For high abuse application in agriculture and industry.
Very high abrasion resistance. Good weather resistance.

SIZE ID		APPROX OD		RATED WP	APPROX. WEIGHT
Inches	mm	Inches	mm	PSI	lb/ft
1 1/2	38.1	2 1/16	52.4	200	.83
2	50.8	2 17/32	64.3	200	1.07
2 1/2	63.5	3 1/16	77.8	150	1.39
3	76.2	3 19/32	91.3	150	1.65
4	102	4 19/32	117	150	2.16
5	127	5 23/32	145	150	2.65
6	152	6 11/16	170	150	3.15
8	203	8 5/8	219	150	4.16
10	254	10 5/8	270	100	5.83
12	305	12 5/8	321	100	6.96

Coupled to customer's specifications.

PVC Standard Discharge Agriculture - Contractors - Mines

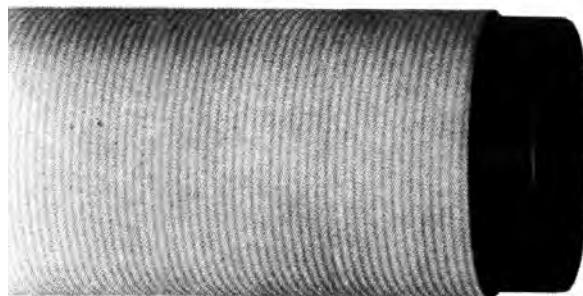
HWPB

Poly-vinyl with all synthetic fabric carcass.

SIZES ID		MAX WP AT 70° F	BURST AT 70° F	APPROX. WEIGHT
Inches	mm	PSI	PRESSURE	lb/ft
1 1/2	38.1	75	225	.18
2	50.8	60	180	.25
2 1/2	63.5	60	180	.33
3	76.2	50	150	.40
4	102	45	135	.54
6	152	35	120	.87
8	203	35	135	1.38
10	254	30	95	1.77
12	305	30	85	2.13
14	356	20	70	2.59
16	406	15	50	3.00

Specified lengths to 300 ft

Coupled to customer's specifications

Mill Hose 250 lb Test Single Jacket, 100% Polyester - Mildew Resistant

M
M15
M20
M25
M30
M40
M60

SIZE	COUPLING BOWL SIZE	WEIGHT - 50 FT LENGTH LBS	
		Uncoupled	Coupled
1 1/2	1 1/2	12.	13.
2	2 1/2	19.5	21.
2 1/2	2 13/16	25.	27.
3	3 3/8	32.5	36.5
4	4 3/8	50.	56.
6	6 3/8	78.	95.

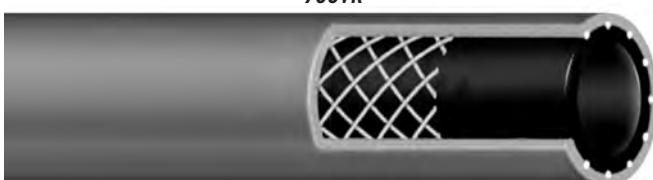
Specified lengths to 100 ft.

Coupled to customer's specifications.

General purpose wash-down in plants and mill yards or any water discharge applications.

Contractors Water Hose Abrasion and Weather Resistant Cover

988VR



1/2" - 5/8" - 3/4" - 1" - 1 1/4" - 1 1/2" X 50 ft. & 100 ft. lengths.

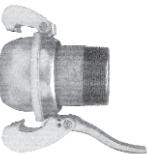
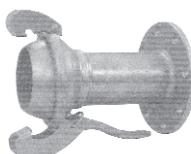
Coupled-Brass Male and Female GHT or NPSH.

Other Lengths Also Available.

For rugged water discharge service where abrasion, weather and abuse resistance are needed.

24 Water Suction Hose

Ball & Socket Agricultural Couplings

Male	BHE  with Hose Shank	BMP  with Male NPT	BFL  with 150 ASA Flange
Female	SHE  with Hose Shank	SMP  with Male NPT	SFL  with 150 ASA Flange

Medium To Heavy Duty Rubber - Suction and Discharge



For high abrasion and weather resistance. Suitable for most water suction and discharge service.

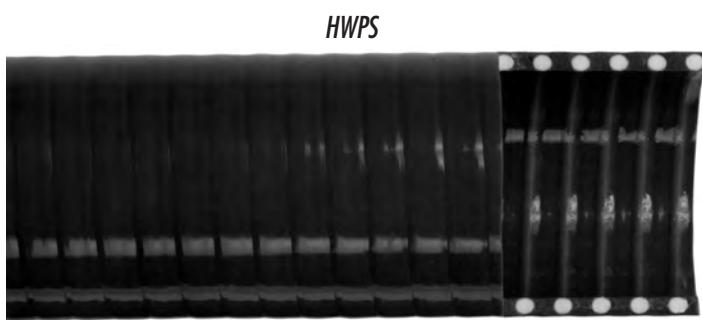
SIZE ID		APPROX OD		RATED WP*	APPROX. WEIGHT	APPROX MBR*
Inches	mm	Inches	mm	PSI	lb/ft	Inches
1	25.4	1 15/32	37.3	250	.61	9
1 1/4	31.8	1 21/32	42.1	200	.74	12
1 1/2	38.1	2 1/16	52.4	200	1.14	15
2	50.8	2 9/16	65.1	100	1.41	18
2 1/2	63.5	3 1/16	77.8	100	1.88	24
3	76.2	3 17/32	89.7	75	2.22	27
4	102	4 19/32	116	75	3.29	36
5	127	5 3/4	146	50	5.0	40
6	152	6 3/4	171	40	6.0	50
8	203	9 5/16	229	60	13.4	96
10	254	11 3/8	289	60	16.87	114
12	305	13 3/8	340	60	20.03	126

Lengths to 100 ft.

Coupled to customer's specifications.

*Minimum Bend Radius

Standard Duty PVC - Suction and Discharge



For water suction and discharge service where conditions are not severe. Temp. range (-) 10° F to (+) 130° F

SIZE ID		APPROX OD		RATED WP*	APPROX-WEIGHT	APPROX MBR*
Inches	mm	Inches	mm	PSI	lb/ft	Inches
3/4	19.1	1	25.4	100	.20	2
	25.4	1 1/4	31.75	100	.27	3
1	31.8	1 1/2	38.1	90	.31	3
1 1/4	38.1	1 27/32	46.8	90	.44	4
1 1/2	50.8	2 3/8	60.3	70	.66	5
2	63.5	2 29/32	73.8	70	.88	7
2 1/2	76.2	3 15/32	88.1	60	1.21	9
3	102	4 17/32	115	50	1.87	11
4	127	5 17/32	141	40	2.32	18
5	152	6 19/32	168	35	3.09	22
6	203	8 25/32	223	30	5.40	40
8	254	11	280	30	10.0	46
10	304.8	13	330.2	30	15.0	53

Lengths to 100 ft.

Coupled to customer's specifications.

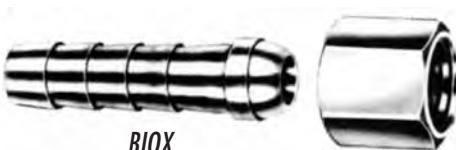
*Minimum Bend Radius

NPTF - Male Hose Barb

BIMP

National Pipe Tapered

HOSE ID	NPTF
Inches	Inches
1/8	1/8
	1/4
3/16	1/8
	1/4
	1/8
1/4	1/4
	3/8
5/16	1/8
	1/4
	3/8
3/8	1/8
	1/4
	3/8
	1/2
	3/4
1/2	1/4
	3/8
	1/2
	3/4
5/8	3/8
	1/2
	3/4
3/4	1/2
	3/4
1	3/4
	1

Welding Hose Coupling

BIOX

Right Hand Thread For

HOSE ID	Right Thread
Inches	Inches
3/16	3/8 - 24
	9/16 - 18
1/4	9/16 - 18
5/16	9/16 - 18
3/8	9/16 - 18

**Right Hand Thread**

Right NF Thread	NPTF Thread
Inches	Inches
9/16 - 18	1/8
9/16 - 18	1/4
9/16 - 18	3/8
9/16 - 18	9/16 - 18



BIAC

Left Hand Thread For

HOSE ID	Left Thread
Inches	Inches
3/16	3/8 - 24
	9/16 - 18
1/4	9/16 - 18
5/16	9/16 - 18
3/8	9/16 - 18

**Left Hand Thread**

Left NF Thread	NPTF Thread
Inches	Inches
9/16 - 18	1/8
9/16 - 18	1/4
9/16 - 18	3/8
9/16 - 18	9/16 - 18

NPSM - Hose Barb Female Swivel

BIFS

HOSE ID	NPSM
Inches	Inches
1/8	1/8
3/16	1/8
	1/4
	1/8
1/4	1/4
	3/8
5/16	1/4
	1/4
3/8	3/8
	1/2
1/2	3/8
	1/2
3/4	3/4

Reusable Male Fittings NPTF & Female Fittings NPSM

HOSE ID	HOSE OD	MALE NPTF	FEMALE NPSM	HOSE ID	HOSE OD	MALE NPTF	FEMALE NPSM	HOSE ID	HOSE OD	MALE NPTF	FEMALE NPSM
3/16	3/8	1/8	1/8	5/16	5/8	3/8	-	3/8	5/8	1/2	1/2
3/16	7/16	1/8	1/8	5/16	9/16	1/4	1/4	3/8	11/16	1/2	1/2
3/16	3/8	1/4	1/4	5/16	5/8	1/4	1/4	3/8	3/4	1/2	1/2
3/16	7/16	1/4	1/4	5/16	9/16	3/8	1/4	1/2	7/8	1/4	1/2
1/4	1/2	1/8	1/4	5/16	5/8	3/8	1/4	1/2	15/16	1/4	1/2
1/4	9/16	1/8	1/4	5/16	11/16	3/8	-	1/2	1	1/4	1/2
1/4	5/8	1/8	1/4	3/8	5/8	1/4	1/4	1/2	7/8	3/8	1/2
1/4	1/2	1/4	3/8	3/8	11/16	1/4	1/4	1/2	15/16	3/8	1/2
1/4	9/16	1/4	3/8	3/8	3/4	1/4	1/4	1/2	1	3/8	1/2
1/4	5/8	1/4	3/8	3/8	5/8	3/8	3/8	1/2	7/8	1/2	1/2
1/4	1/2	3/8	1/4	3/8	11/16	3/8	3/8	1/2	15/16	1/2	1/2
1/4	9/16	3/4	1/4	3/8	3/4	3/8	3/8	1/2	1	1/2	1/2

Adapter - Male**Completely Interchangeable.****Available In All Metals.****- Plus -****Glass Fiber Reinforced
Nylon and Polypropylene****Part A** male adapter/female**Part F** male adapter/male**Part E** male adapter/hose**Part E** reducer or increaser
(illustrated). Sizes 3 to 4".
Aluminum, brass.**Part FLA** male adapter/ASA
flange. 1 to 8". Aluminum,
brass, stainless steel.***Dust plug** for use in
couplers. Keeps dust, dirt,
etc. out of empty lines. (Not
designed for line pressure.)
1/2 to 10". All metals.**Coupler - Female****Completely Interchangeable.****Available In All Metals.****- Plus -****Glass Fiber Reinforced
Nylon and Polypropylene****Part B** female coupler/male
thread. 1/2 to 10". All metals.**Part D** female coupler/female**Part C** female coupler/hose**Part B** reducer female
coupler/male thread.
Sizes 2 to 4". Aluminum, brass.**Part FLC** female coupler/ASA
flange. 1 to 8". Aluminum,
brass, stainless steel.***Dust cap** for use over
adapters. Keeps dust, dirt,
etc. out of empty lines. (Not
designed for line pressure.)
1/2 to 10". All metals.

*note: large sizes may not be available in all metals.

Adapters / Couplers - Male & Female

Part 90° BA 4" female coupler/4" male adapter.



Part A reducer or increaser (illustrated). Sizes 3/4 to 4". Aluminum, brass.



Part F reducer or increaser (illustrated). Sizes 1 1/2 to 4". Aluminum, brass.



Part AS male adapter/straight female pipe thread for dry products. 3 to 10". All metals.*



Part AW male adapter/socket or butt weld. 1/2 to 10".*



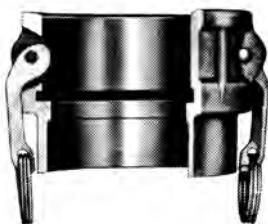
Tank cap adapter male adapter /5" female A.A.R thread. Adapter sizes 2 to 4". Aluminum,



Part BA coupler/adapter reducer or increaser (illustrated). Sizes 1 1/2 to 6".



Part LAT male adapter/tank truck flange. 3, 4 and 6". Aluminum.



Part DW female coupler/socket or butt weld. 1/2 to 10". All metals.*



Part 90° D female coupler/female thread. 1 1/4 to 6". Aluminum, brass, stainless steel.*



Part C reducer or increaser (illustrated). Sizes 3 and 4". Aluminum, brass.



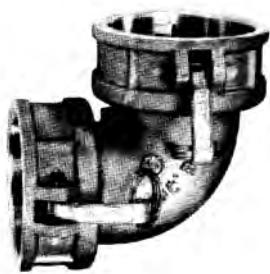
Part LBT female coupler/tank truck flange. 3, 4 and 6". Aluminum.



Part D reducer female coupler/female thread. Sizes 3/4"



Part 90° C coupler/hose shank 1 1/4" to 4". Aluminum, brass.



Part 90° BB 4" coupler/4" Coupler. Aluminum, brass.



Part DS female coupler/female straight pipe thread for dry products. 3 to 10".

Band-It Band

Band-It Band comes in a choice of metals and in a range of widths and thicknesses, all stainless steel with a full round edge. For extra strength, use a double wrap, threading the band through the backle each time around. Order band and buckles of the same material and width.

*Package Quantity – 100 ft.
Roll*



EDP. No.	Cat. No.	Band Width Inches	Weight Lbs
Type 201 Stainless Steel			
13202	C202	1/4	1.7
13203	C203	3/8	3.2
13204	C204	1/2	5.1
13205	C205	5/8	6.4
13206	C206	3/4	7.7
Type 316 Stainless Steel			
13403	C403	3/8	3.2
13404	C404	1/2	5.1
13405	C405	5/8	6.4
13406	C406	3/4	7.7
Galvanized Carbon Steel (GCS)			
13303	C303	3/8	3.3
13304	C304	1/2	5.1
13305	C305	5/8	6.4
13306	C306	3/4	7.6

Available in mill coil lengths.

Inquire about the availability of Band-It Bands in other materials – Monel, Silicon Bronze, Titanium and Hastalloy.

Band-It Buckles

Buckles, Ear-Lokt, are designed to accommodate both single or double wrap clamps in metals and widths to correspond with Band-It Bands.



EDP. No.	Cat. No.	Width Inches	Weight Lbs.
Type 201 Stainless Steel			
13252	C252	1/4	.31
13253	C253	3/8	.81
13254	C254	1/2	2.00
13255	C255	5/8	2.56
13256	C256	3/4	3.50
Type 316 Stainless Steel			
13453	C453	3/8	.81
13454	C454	1/2	2.00
13455	C455	5/8	2.56
13456	C456	3/4	3.50
Galvanized Carbon Steel (GCS)			
13353	C353	3/8	.81
13354	C354	1/2	2.00
13355	C355	5/8	2.56
13356	C356	3/4	3.50

Scru-Lokt Buckles

Use Scru-Lokt Buckles when close quarters will not permit the roll-over action of The Band-It Tool, or when a temporary or adjustable clamp is desired. Hex wrench is included with the buckles.



EDP. No.	Cat. No.	Width Inches	Weight Lbs.
Stainless Steel			
13720	C720	1/4 (50 Per Box)	.25
13722	C722	3/8 (50 Per Box)	.50
13724	C724	1/2 (50 Per Box)	.50
13726	C726	3/4 (25 Per Box)	.88

Band-It Band

Giant Band and Buckles for jobs that require extra holding power. With double banding, Band-It Giant clamps exert tremendous radial compression.



EDP. No.	Cat. No.	Width Inches	Weight Lbs.
Type 201 Stainless Steel			
17430	G430	3/4	11.6
17431	G431	1	13.7
17432	G432	1 1/4	17.2
Galvanized Carbon Steel (GCS)			
17433	G433	3/4	11.6
17434	G434	1	15.3
17435	G435	1 1/4	19.1

Available in mill col.l lengths.

Giant Buckles

Giant Buckles, Ear-Lokt, are offered in widths and metals to correspond to Giant Band. Giant clamps may be single or double wrapped for extra strength.



EDP. No.	Cat. No.	Width Inches	Weight Lbs.
Type 201 Stainless Steel			
17440	G440	3/4	1.75
17441	G441	1	2.25
17442	G442	1 1/4	3.06

The Band-It Tool

A drop forged electroplated tool with tensioning capability of over 2,400 pounds and a built-in cutter. Used to apply Band-It Bands and Buckles, strapping and free-end clamps.



C001

Jr. Preformed Clamp Tools

Jr. Preformed clamps are applied with The Band-It Tool and the Jr. Adapter tool. For portable applications, use The Band-It Tool with the Heavy Duty Jr. Adapter tool. Band-It Air Tools are recommended for high volume production clamping jobs.



J001

J050

Pok-It II Tool

Lightweight pocket size tool for use with 1/4" - 3/8" width band, for Ear-Lokt, Scr-Lokt, Jr. Preformed and Free-End clamps. It applies tension and has a built-in cutter.

J020



G402



Bantam Tool For Banding

The Bantam Tool is a compact, lightweight, ratchet action tool with a built-in cutter. It has been designed for easy loading and removing of material, and is zinc plated for corrosion resistance.

C075



Center Punch Tools

These ratchet action tensioning tools are for applying Form-Seal and Open-End clamps with a center punch lock.

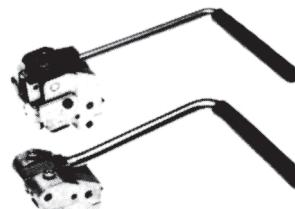


F100 or T300

F38

Head for Standard Air Tool

The S100 Standard Air Tool is not equipped with a head. Be sure to order proper head.



S150

S180



Q-Gun

Q-Band



For a great variety of clamping applications. Up to 150 lbs. The gray polypropylene Q-Bands and Q-Clips are non-toxic and ultraviolet resistant. Temperature range is 0° F to + 200° F. Bands are easily tensioned and cut with Q-Gun Hand Tool. Bands are 100 ft long and 1/2" wide.



Q-Clip

Worm Gear Stainless Steel Clamps



TRIDON 615 TYPE 53 SERIES
Lined clamps are specially designed for use with silicone rubber and other soft hose applications. The extended band or liner protects the hose surface and prevents it from extruding or shearing through the band notches as the clamp is tightened.

TRIDON 225 TYPE 63 SERIES
All Stainless Construction Combination $\frac{5}{16}$ " Hexagon and Screwdriver Slotted Screw – SAE 301 (18-8) series stainless band and housing with SAE 305 series stainless screw. 100% non magnetic marine grade. In Ideal Series 63.

TRIDON 611 TYPE 50 SERIES
Combination $\frac{5}{16}$ " Hexagon and Screwdriver Slotted Screw – SAE 301 (18-8) series stainless band and housing with SAE 1018 steel case hardened, zinc plated and chromate dipped screw.

TRIDON QUICK-RELEASE 500 TYPE 56 SERIES
Combination $\frac{5}{16}$ " Hexagon Slotted Swivel Screw – No. 301 Stainless Steel Bridge. Housing and Band. Plated hardened carbon steel screw.

TRIDON 350 TYPE 62 SERIES
Micro-Gear all Stainless Construction with Combination $\frac{1}{4}$ " Hexagon and Screwdriver Slotted Screw – SAE 301 (18-8) series stainless band and housing with SAE 400 stainless steel.

TRIDON 300 TYPE 62 SERIES
Micro-Gear with Combination $\frac{1}{4}$ " Hexagon and Screwdriver Slotted Screw – SAE 301 (18-8) series stainless band and housing with SAE 1018 steel case hardened, zinc plated and chromate dipped screw.

FEATURES: The finest reusable worm gear clamps made. Used on air, gas and fluid hose lines around the world. The method of attaching the screw housing to the band on all standard size clamps, provides extra strength under tension. There are no welds or rivets. Available either in all stainless steel or with plated, case hardened screws.

ALWAYS KEEP CLAMPS TIGHT – USE SAFETY CHAINS/CABLES FOR STAND-BY SAFETY.

WORM GEAR STAINLESS STEEL IDEAL CLAMPS

QUICK RELEASE

RECOMMENDED FROM	DIA. RANGE TO.	IDEAL Part. No.	STOCKING NUMBERS	IDEAL Part. No.	RECOMMENDED DIA. FROM:	RANGE TO	STOCKING NUMBERS
3/8"	7/8"	5306	6306	5006			
7/16"	1"	5308	6308	5008			
1/2"	1 1/8"	5310	6310	5010	1/2"	1 1/4"	5612
1/2"	1 1/4"	5312	6312	5012			
3/4"	1 1/2"	5316	6316	5016	3/4"	1 3/4"	5620
3/4"	1 3/4"	5320	6320	5020			
1"	2"	5324	6324	5024			
1 5/16"	2 1/4"	5328	6328	5028	1"	2 1/4"	5628
1 9/16"	2 1/2"	5332	6332	5032	7/8"		5636
7/8"	2 3/4"	5336	6336	5036			
1 1/8"	3"	5340	6340	5040			
1 5/16"	3 1/4"	5344	6344	5044	1 5/8"		5648
1 5/8"	3 1/2"	5348	6348	5048			
1 7/8"	3 3/4"	5352	6352	5052	1"		5656
2 1/8"	4"	5356	6356	5056			
2 5/8"	4 1/2"	5364	6364	5064	2"		5672
3 1/8"	5"	5372	6372	5072			
3 5/8"	5 1/2"	5380	6380	5080	2"	5"	5688
4 1/4"	6"	5388	6388	5088			
4 3/4"	6 1/2"	5396	6396	5096	2"	6"	56104
4"	7"	53104	63104	50104	2 1/2"	8 1/2"	56128
2 1/2"	10"		63152		2 1/2"	10"	56152
2 1/2"	12 1/4"		63188		2 1/2"	12"	56188
2 1/2"	16"		63248				

ALL DIMENSIONS ARE BASED ON IDEAL CLAMPS

PACKAGING: All standard worm gear clamps are packed 10 per box, up to and including size - 104. Larger sizes are bulk packaged. Sizes - 128 and larger are packed flat (usually 10 per box). All Micro-Gear Clamps are packaged 10 per box.

RECOMMENDED DIAMETER RANGE	
FROM:	TO.
1/4"	5/8"
5/16"	7/8"
5/8"	1 1/4"
5/8"	1 1/2"
3/4"	1 3/4"

MICRO-GEAR STAINLESS STEEL CLAMPS

Part. No.	Part. No.
Tridon	Ideal
350-4	62602
350-6	62606
350-12	62M12
350-16	62M16
350-20	62M20

MICRO-GEAR PLATED SCREWS

Part. No.	Part. No.
Tridon	Ideal
300-4	300-4
300-6	300-6
300-12	62P12
300-16	62P16
300-20	62P20

ALL MICRO-GEAR CLAMPS ARE PACKED 10 PER BOX
ALL DIMENSIONS ARE BASED ON IDEAL CLAMPS
IDEAL SERIES 62 AND 62M STAINLESS STEEL ARE MARINE GRADE

Pin Lug Fire Hose Couplings/Rocker Lug Fire Hose Couplings



Cast brass fire hose couplings are designed for heavy duty municipal and industrial service. Manufactured of red brass with long hose bowls for extra strength and gripping. Recommended for use on double jacket and single jacket hose where high pressures and rough use are encountered. Available in sizes 1 $\frac{1}{2}$ ", 1 $\frac{3}{4}$ ", 2", 2 $\frac{1}{2}$ ", 3" and 3 $\frac{1}{2}$ " with pin lug and rocker lug wrenching features. Furnished complete with expansion rings, swivel and bowl gaskets.

Available in Hard Coated Aluminum and Cast Brass

Pin Lug Mill Hose Couplings/Rocker Lug Mill Hose Couplings



These medium duty cast brass couplings are manufactured for use with single jacket mill hose not usually subject to more than 400 lbs. surged pressure. Used by industry on both fire and water hose. Available in sizes 1", 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ ", 2" and 2 $\frac{1}{2}$ " with pin lug and rocker lug wrenching feature. Furnished complete with expansion rings, swivel and bowl gaskets.

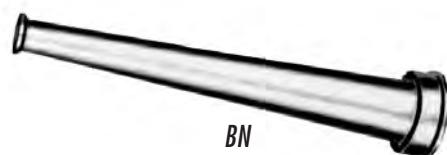
Available in Hard Coated Aluminum and Cast Brass

Pin Lug "5" Part Reducing Couplings/Rocker Lug "5" Part Reducing Couplings



The use of 3" hose is increasing. By actual test, the temporary restrictions to 2 $\frac{1}{2}$ " waterway for thread does not increase friction loss enough to be noticeable. To use 2 $\frac{1}{2}$ " threads, the coupling is constructed in 5 parts to permit expanding 3" expansion ring in hose bowl with standard 3" expander segments. Furnished pin lug and rocker lug. Complete with expansion rings, swivel and bowl gaskets.

Available in Hard Coated Aluminum and Cast Brass



BN



189



Industrial Fog Nozzle

Heavy duty, low cost fog nozzle, especially recommended for those locations where frequent service demands quality. Water flow can be quickly changed from straight steam – to fog-to-shut-off with a flick of the wrist. Large rubber bumper protects the outer perimeter of nozzle tip and also provides a firm gripping surface. Specially designed to give uniform flow on all positions. Available in sizes; $\frac{3}{4}$ "-23 GPM, 1"-35 GPM, $1\frac{1}{2}$ "-80 GPM, and $2\frac{1}{2}$ "-200GPM.

Industrial Fog Nozzle

A quality fog nozzle economically priced and listed by Underwriter Laboratories and Factory Mutual for Class A and B fires. Reduces water damage to a minimum. Usually specified for interior fire protection service. Available in $1\frac{1}{2}$ "-60GPM only.

Electrical Fog Nozzle

This $1\frac{1}{2}$ " electrical fog nozzle is equipped with a special fog pattern for attacking electrical fires. Nozzles are not likely to prove hazardous when held a distance in excess of 10 feet from line electrical circuits involving voltages not in excess of 250,000. Nozzle will not go into a straight stream.

Rack Fog Nozzle

An inexpensive brass fog nozzle for light duty, low gallonage applications. Factory Mutual approved. Available in $1\frac{1}{2}$ "-50 GPM only.

Aluminum Fog Nozzle

Nozzle is identical to above brass nozzle except made of high strength aluminum. Nozzle is anodized to protect against corrosion.

Plastic Fog Nozzle

Nozzle has complete shutoff fog and straight stream. Used with fire hose rack units that are exposed and subject to pilferage. Factory Mutual approved. Available in sizes 1", $1\frac{1}{2}$ " and $2\frac{1}{2}$ ".

Brass Plain Hose Nozzles/Aluminum Plain Hose Nozzles

For use on fire hose racks and reels and for other industrial applications where shutoff valves are not required at the nozzle. Available in sizes $\frac{3}{4}$ ", 1", $1\frac{1}{4}$ ", $1\frac{1}{2}$ ", 2", and $2\frac{1}{2}$ "-cast brass, satin, polish or chrome finish. Also available in cast aluminum in sizes $1\frac{1}{2}$ ", 2" and $2\frac{1}{2}$ ". Specify threads and length of nozzle when ordering.

Adjustable Hydrant Wrench

Has adjustable malleable iron head designed to take all sizes of pentagon or square hydrant nuts. Spanner hook fits pin, rocker or navy slot lugs $\frac{3}{4}$ " to $4\frac{1}{2}$ ". Length 18". Weight 4 $\frac{3}{4}$ lbs.

Common Spanner Wrench

Use on pin lug type fittings. Stocked plated malleable iron and brass in sizes $1\frac{1}{2}$ " through 4".

Common Spanner Wrench

Wrench is made with small end for use with 2" couplings and large end for use with 3" couplings. Particularly useful in the petroleum industry where 2" and 3" fittings are common. Stocked plated malleable iron only.



There is a hose nipple or adapter to fit any need . . . a full range for all industrial and municipal uses. Manufactured of high quality red brass with some popular items available in cast aluminum. Hose nipples and bushings are furnished with tapered pipe thread (NPT) one end with hose thread on other end. When hose threads are required both ends, refer to adapters having pin lug, Rocker lug or long handle wrenching features. Hose nipples and adapters are available in most combinations from 1/2" to 6".

When ordering always specify both threads, type of wrenching feature and finish required. Most common finish is cast brass, but also available with satin finish, polished brass and chrome.

Double Male Hose Nipples

Nipple has tapered pipe thread (NPT) one end, hose thread other end with hexagon wrenching feature. Nipples are made in all straight sizes 1/2" through 6" as well as most reducing and increasing sizes. Available in cast brass, satin, polished and chrome finish.

Also available with hose thread both ends

Female/Male Hose Nipples

Nipple most frequently furnished female tapered pipe thread (NPT) one end, male hose thread other end with hexagon wrenching feature. Made in all straight sizes 1/2" through 6" as well as most reducing and increasing sizes. Available in cast brass, satin, polished and chrome finish. Specify male or female hose thread when ordering adapters.

Also available with hose thread both ends

Double Female Hose Nipples

Nipple has tapered pipe thread (NPT) one end, hose thread other end with hexagon wrenching feature. Made in all straight sizes 1/2" through 6". Available in cast brass, satin, polished and chrome finish.

Also available with hose thread both ends

Hose Bushing

Made in various combinations from 1/2" through 6" – all with hex wrenching feature. Female thread is always smaller than male thread which restricts some combinations from being made as bushings. When this condition exists use the female to male nipple. Furnished tapered pipe thread (NPT) one end with hose thread other end.

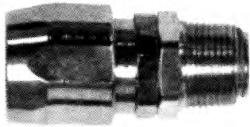
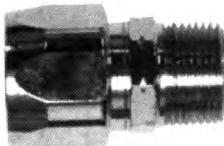
Also available with hose thread both ends

Female/Male Swivel Adapter Double Female Swivel Adapter

Swivel adapters are available in sizes 1" through 6". Adapters are made with a tapered pipe thread (NPT) one end having hex wrenching feature. Other end furnished with pin lug or rocker lug swivel. Specify male or female pipe threads and type of wrenching required when placing order.

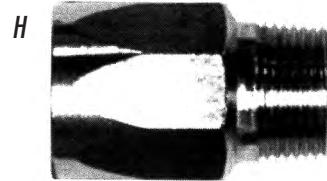
Pin Lug Female Adapter (Reducer) Rocker Lug Female Male Adapter (Reducer)

Heavy duty cast brass adapter for industrial and fire department use in sizes 3/4" through 3". Some popular sizes available in cast aluminum. Supplied with pin lug or rocker lug wrenching feature - made in all thread combinations. Be sure to specify both threads. Specify cast brass, satin, polished or chrome finish.

Gasoline Curb Pump Hose Couplings**Reattachable Couplings****Swivel****Non-Swivel**

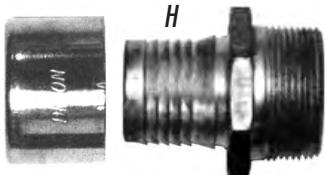
For use with curb pump hose when reattachable couplings are preferred.
Made of chrome plated brass. Worn section can be replaced.

Available for hose sizes 5/8", 3/4", 1" I. D.

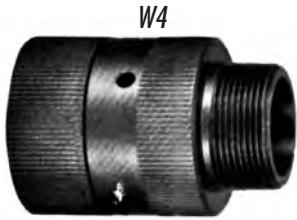
Permanent Couplings**Non-Swivel**

For use when permanent, full flow couplings are preferred. Most economical and trouble free couplings for curb pump hose. Made of chrome plated brass. Internal spring guards available.

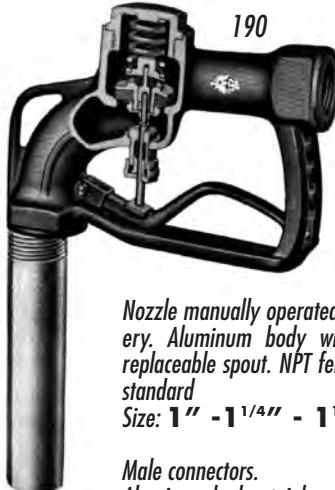
Available for hose sizes 5/8", 3/4", 1" I. D.

Fuel Oil Coupling

Permanent coupling for suction or discharge of fuel for home or industry. Male and female made of solid brass with cold-drawn copper alloy ferrules.
Size: **3/4" thru 4"**

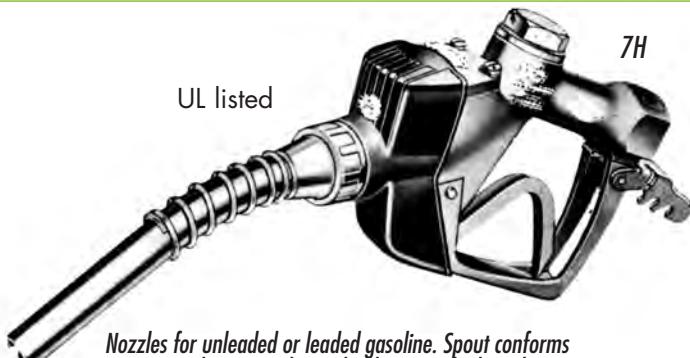
Fuel Hose Swivel

Hose swivel for use with fuel oil nozzles at nozzle inlet only. 360° swivel action. Swivel has hard coat aluminum body, molded plastic bearings and oil resistant seals.
Size: **1-1¹/₄" - 1¹/₂" NPT**
1¹/₄" F NPT X 1¹/₂" M NPT
1¹/₂" F NPT X 1¹/₄" M NPT
1¹/₄" NPT with check valve
Also available - one plane swivel rotation.

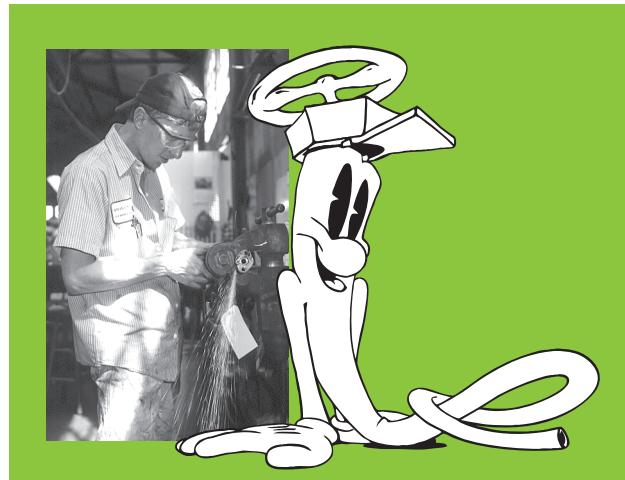
Manual Nozzle-Fuel Oil

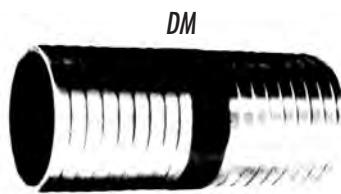
Nozzle manually operated for fuel oil and bulk delivery. Aluminum body with right angle, threaded replaceable spout. NPT female threads at inlet for all standard
Size: **1" - 1¹/₄" - 1¹/₂" - 2"**.

Male connectors.
Aluminum body, stainless steel main stem.
Size: **1" - 1¹/₄" - 1¹/₂" - 2"**.

Gasoline Automatic Shut-off Nozzles

Nozzles for unleaded or leaded gasoline. Spout conforms to EPA regulations. Lightweight aluminum body with protective scuff guard and spout anchor spring. WPT female threads at inlet end to accept all 3/4" and 1" male connectors. Stainless steel main stem.
Size: **3/4" and 1"**.



Mender

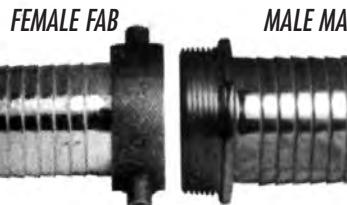
Use with a variety of clamps. Well-defined serrations for positive grip. Suitable for both rubber & plastic hose.

Size: 1/2" thru 12" - plain steel and plated steel.
Size: 1/2" thru 4" - nyglass and PVC.

Long Shank

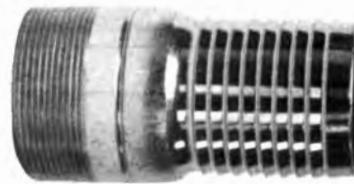
For suction and discharge of air and water. Use with external clamps or bands.
Material: malleable iron, steel, or brass.

Sizes: 1/4" to 3"

Short Shank Couplings*Model #'s*

Low to medium pressure for a variety of air or liquid materials. Shanks available in aluminum, brass and malleable iron. All with brass swivel nuts.

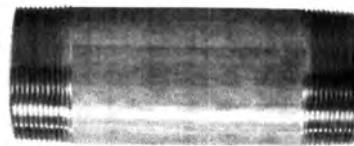
Sizes: 1^{1/4}" thru 6".

Combination Nipple*STC*

For suction or discharge of fuel or water. Use with external clamps or bands.

Material: steel, stainless steel, brass, aluminum, glass reinforced nylon, galvanized.

Sizes: 1/2" to 12" inches

Pipe and Hex Nipples**PIPE
NIPPLE****HEX
NIPPLE**

Large variety of sizes both inside diameter and lengths. Available in galvanized, black iron, brass, stainless steel, glass reinforced nylon and glass reinforced polypropylene.

Internally Expanded Steel Fittings

Threaded or grooved- For use in high pressure applications, ie., jetting hose or concrete placement. Clamps for grooved fittings are available.

Interlocking Clamp 2 Bolt or 4 Bolt

For use with couplings having safety interlock. While clamp compresses hose onto coupling shank, clamp teeth grip grooved collar on the coupling.

Material: malleable iron

Size: to fit hose O. D. to maximum of 4 - 13/16"

Quick Acting Couplings

Hose Ends-connected



Hose End



Triple Connector



Neoprene Gasket



Male Adapter



Female Adapter

For use with air, water, oil, etc. Where connections must be made frequently and quickly. Use with interlocking clamps or bands. Four lug couplings also available.

Material: malleable iron and brass

Size: 1/4" to 2".

Air Hammer Couplings

Material: malleable iron
Size: 1/4" to 4"



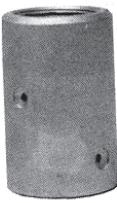
Male Stem



Female Washer Type



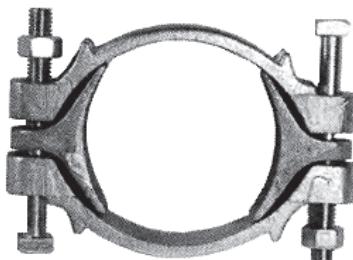
Female Ground Joint

Sand Blast Couplings (Q) & Nozzle Holder (HE)**(Q)****(HE)**

Attach with screws through coupling and into cover and carcass of hose. Do not screw into tube. Can be supplied with female pipe adapter and nozzle.

Material: aluminum or brass

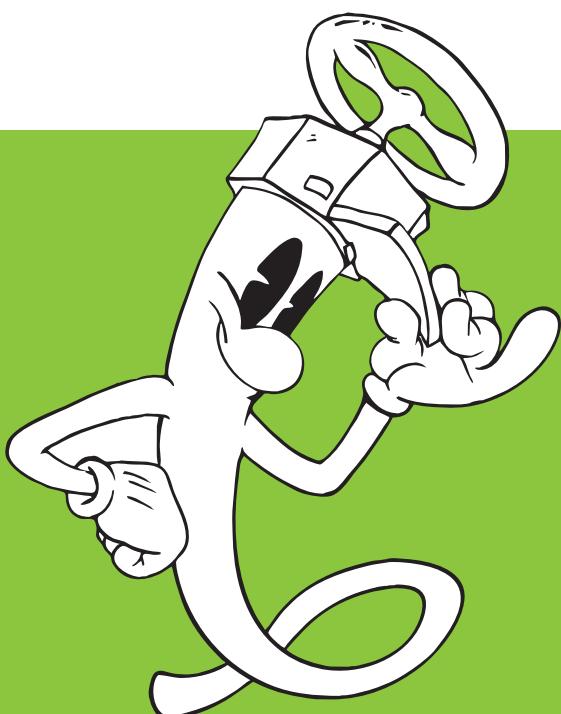
Size: **3/4"** to **1 1/2"**.

Combination Nipple**Double Bolt Clamp**

For use on larger hose.

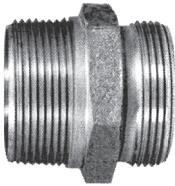
Material: cadmium plated malleable iron.

Size: to fit hose O.D. thru **17^{1/2}"**



40 Garden Hose Couplings

Double Male Hose Nipple



Rod Brass

Male (Inches)	X	Male (Inches)
1/2 NPT	X	3/4 NH
3/4 NPT	X	3/4 NH
3/4 NH	X	3/4 NH
3/4 & 1/2 NPT	X	3/4 NH
3/4 NPT	X	1 NPT

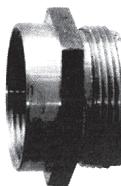
Double Female Hose Nipple



Brass

Female (Inches)	X	Female (Inches)
1/2 NPT	X	3/4 NH
3/4 NPT	X	3/4 NH
3/4 NH	X	3/4 NH

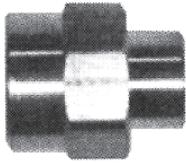
Female X Male Hose Nipple



Brass

Female (Inches)	X	Male (Inches)
1/2 NPT	X	3/4 NH
3/4 NH	X	1/2 NPT
3/4 NPT	X	3/4 NPT
3/4 NH	X	3/4 NPT

Reducer - Rod Brass



Female (Inches)	X	Male (Inches)
3/4 NH	X	1/2 NPSH
1 NPSH	X	3/4 NH

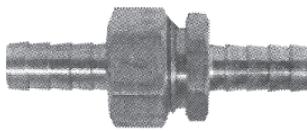
Double Female Swivel



Brass

Female (Inches)	X	Female (Inches)
1/2 NPT	X	3/4 NH
3/4 NPT	X	3/4 NH
3/4 NH	X	3/4 NH

Rod Couplings



Brass

Conforms to government specifications.
Heavy octagon nut. Precision-cut
threads. Specially machined corruga-
tions grip tight without cutting.

Hose sizes (inches) 1/2, 5/8, 3/4
Thread size (inches) 3/4 NH

Coupling - Heavy Octagon Nut



Brass

1" rod brass female coupling.
1" rod brass male coupling.

Conforms to government specifications.
Heavy octagon nut. Long tail with uniform
corrugations prevents hose blow-off. Thread
size: 1" NPSH-straight for pipe and hose.

Cast Brass Steam Coupling



Extra-long tail permits use of more than one clamp to
prevent hose blow-off. Complete set - (Male and
female).

Hose Size (Inches)	1 Thread Size (Inches)
1/2	3/4 NPSH
5/8	3/4 NPSH
3/4	3/4 NPSH

Thread designation -
NPT National Pipe Thread - tapered

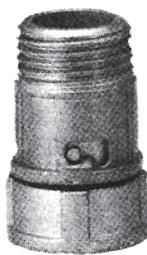
NPSH National Pipe Thread - straight
for pipe and hose.

NH National Hose Thread



Brass Quick Coupler

Solid rod brass. Spring loaded ring for quick change of watering accessories.



Metal Quick Coupler

Heavy cast metal with replaceable O-ring. No-leak construction. Twist for quick change of lawn watering equipment. (Complete set, male and female.)

05V



07V



Metal Hose Shut-Off

Plated cast metal. No-leak construction. Positive shut-off.

Plastic Hose Shut-Off

High-impact plastic. No-leak construction. Positive shut-off.



Metal Hose Y With Shut-Offs

Heavy plated cast metal. Lets you operate two hoses from one faucet.



Plastic Hose Y

High-impact plastic. Lets you operate two hoses from one faucet.



Metal Hose Y

Heavy plated cast metal. Lets you operate two hoses from one faucet. Includes end-caps.



High Velocity Nozzle

Made of brass or plastic. For cleaning solid surfaces - driveways, patios etc.

Brass Hose Accessories

MODEL# BN



Plain Hose Nozzle - Brass

Rugged cast brass. Designed and machined with the strength in the right place. A full flow nozzle for high pressure industrial and commercial application.



Brass Gooseneck

Rugged cast brass body. Precision machined wrought brass swivel nut. Prevents hose from kinking at faucet.

GHY



Brass Hose Y

Rugged cast brass. Precision machined threads. Permits operation of two hoses from one faucet.

Length (Inches)	Size (Inches)
6	3/4 NPSH
6	3/4 NH
8	1 NPSH

584 Metal Body Select-A-Spray Nozzle**

- 4-position dial for spray pattern selection
 - Full action
 - Gentle shower
 - Sharp stream
 - Flat spray
- All brass valve stem with permanent adjusting nut
- Hold-open clip for continuous spraying
- Rust resistant stainless steel spring
- Self-adjusting "duck" packing for lifetime leakproof seal
- Heavy-duty die cast zinc body

**572 Insulated Pistol Grip Nozzle***

- Ideal for commercial or industrial use
- Insulated molded grip for spraying hot or cold water
- Brass head insert for maximum resistance to extremely hot water
- Solid brass valve stem with permanent adjusting nut
- Hold-open clip for continuous spraying
- Rust resistant stainless steel spring
- Self-adjusting "duck" packing for lifetime leakproof seal
- Heavy-duty, full size, die cast zinc body

**573TF Full Size Zinc Pistol Grip Nozzle****Threaded Front***

- Male threaded front for attaching accessories
- Solid brass valve stem with permanent adjusting nut
- Hold-open clip for continuous spraying
- Rust resistant stainless steel spring
- Self-adjusting "duck" packing for lifetime leakproof seal
- Heavy-duty, full size, die cast zinc body

**528 Solid Brass Twist Nozzle**

- All brass valve stem
- Four large openings at nozzle tip for full flow
- Replaceable front and rear O-ring seals for leakproof shut-off
- Precise tip angle eliminates side spray
- Adjustable from fine spray to needle stream to heavy rinse
- Fast three turns from closed to open
- Heavy-duty solid brass construction

**571 Insulated Pistol Grip Nozzle***

- Insulated molded grip for spraying hot or cold water
- Solid brass valve stem with permanent adjusting nut
- Hold-open clip for continuous spraying
- Rust resistant stainless steel spring
- Self-adjusting "duck" packing for lifetime leakproof seal
- Heavy-duty, full size, die cast zinc body

**573 Full Size Zinc Pistol Grip**

- Solid brass valve stem with permanent adjusting nut
- Hold-open clip for continuous spraying
- Rust resistant stainless steel spring
- Self-adjusting "duck" packing for lifetime leakproof seal
- Heavy-duty, full size, die cast zinc body

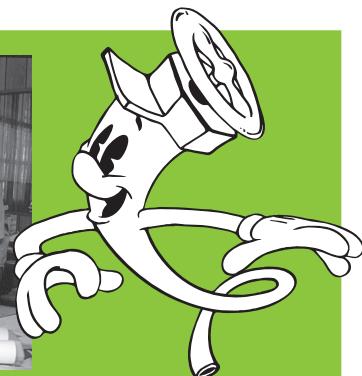
**474 Full Size Polymer Pistol Grip Nozzle***

- Male hose threaded front for attaching accessories
- Polymer valve assembly with fixed nut
- Hold-open clip for continuous spraying
- Self-adjusting "duck" packing for lifetime leakproof seal
- Impact resistant, rustproof, full size, polymer body



* Standard U. S. - ASH hose thread available in BSP for export.

**Standard U. S. - ASH hose thread available with BSP converter for export.



FOSTER Quick Detachable CouplersStandard Industrial Interchange-Non-Standard
Interchange Couplers

- Full Line of Couplers • Standard and Non-standard Interchanges • In Stock - Immediately Delivery

ONE WAY SHUT-OFF**AUTOMATIC COUPLER
1/4" THRU 3/4"****MANUAL COUPLER
1/4" THRU 1/2"****SAFETY VALVE COUPLERS
CONNECT AND DISCONNECT
AT "O" PRESSURE****SAFETY LOCK COUPLERS
AUTOMATIC AND MANUAL****TWO WAY SHUT-OFF****BRASS, STEEL, OR STAINLESS
1/8" THRU 3/4"****STRAIGHT THRU COUPLER****BRASS OR STAINLESS
1/8" THRU 1"****ONE WAY SHUT-OFF****MINIATURE 1/8" COUPLER****"Fost-Air"****3 Way
Sleeve Valve**
1/8" thru 3/4"**TAPERED PIPE THD.
HEX NIPPLES**
1/8" thru 3/4"**OXYGEN
ACETYLENE
FITTINGS**
3/16" thru 1/2" Hose**PUSH-ON HOSE****PUSH-ON
MALE BARB****REUSABLE
FITTINGS**

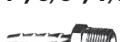
- FEMALE SWIVEL & ADAPTERS

- 3/16" THRU 1/2" HOSE
- 1/8" THRU 1/2" NPT
- MALE PIPE THD.
- HOSE SPLICERS

HOSE BARB FITTINGS

- FEMALE PIPE THD.
- MALE PIPE THD.
- HOSE SPLICERS
- SWIVEL FEMALE BALL END

1/8" THRU 3/4" HOSE • 1/8" THRU 1/2" NPT

SWIVELS**MALE TO FEMALE
1/4" AND 3/8" NPT****REUSABLE TO MALE
1/4" THRU 1/2" I.D. & MPT****SWIVEL PLUGS
1/4", 3/8", 1/2"****SWIVEL HOSE BARB
1/4", 3/8", 1/2" I.D. & MPT****"RECOIL" HOSE AND FITTINGS****FOSTER "RECOIL"
SELF-STORING AIR HOSE
1/4", 3/8" AND 1/2"****MALE SWIVEL
FITTING
1/4", 3/8", 1/2"****MALE FITTING
1/4", 3/8", 1/2"****ELBOW FITTING
1/4" AND 3/8"****FEMALE FITTING
1/4" AND 3/8"****210 SERIES****ONE WAY SHUT-OFF
AUTOMATIC OPERATION
ARO 210 INTERCHANGE****TF SERIES****ONE WAY SHUT-OFF
TRU-FLATE INTERCHANGE
AUTOMATIC 1/4"
MANUAL 1/2"****SHD SERIES****ONE WAY SHUT-OFF
AUTOMATIC OPERATION
SCHRADER INTERCHANGE****FRL SERIES****ONE WAY SHUT-OFF
AUTOMATIC OPERATION
HANSEN RL INTERCHANGE
3/8" AND 1/2"****FJT SERIES****STRAIGHT THRU AND ONE WAY
DME JIFFY-TITE INTERCHANGE
1/4" AND 3/8"****FOSTER "HANDY AIR"
BLOW GUNS**

MEET OSHA REQUIREMENTS



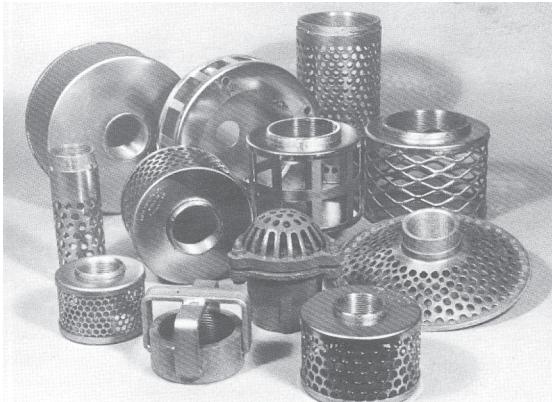
- THREE MODELS FOR PRESSURES UP TO 175 PSI.
- THREADED OR TAMPER PROOF TIPS.
- NO PRESSURE BUILD UP WHEN DEAD HEADED.
- EASY HANG UP HOOK.
- SOUND LEVEL 86 DECIBELS.
- EYE PROTECTIVE SAFETY TIP.
- QUICK CHANGE OR THREADED EXTENSIONS.

amazon
HOSE & RUBBER COMPANY

44 Strainers Foot Valves Diaphragms

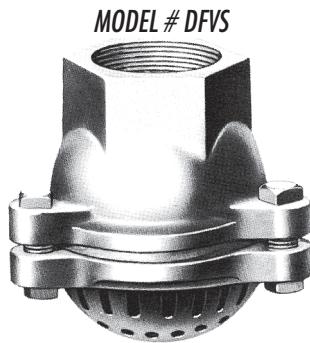
Strainers

RSS
RHS
SHS
DSB
DST

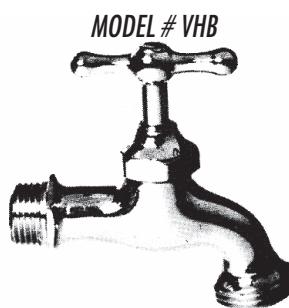


Made from plated steel for rust resistance. For use on suction hose where a foot valve is not needed.
IPT sizes from 1" thru 12".

Foot Valves



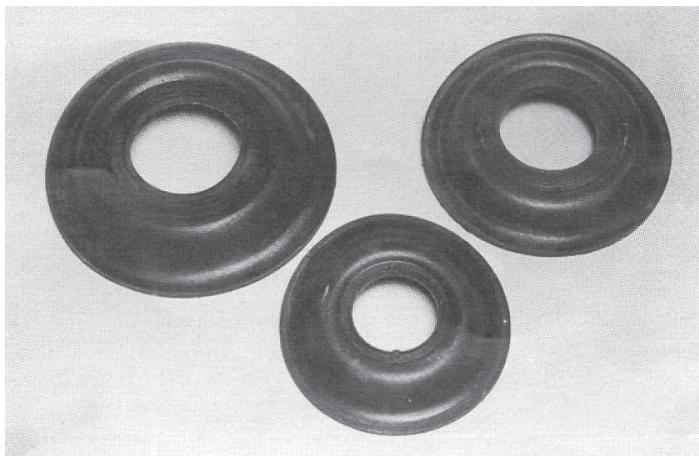
Bibbs



For use in irrigation pumping projects. Leather flapper check to maintain prime. Specify painted or galvanized. Replacement parts available. Size: 1" thru 10". Cast iron construction with strainer.

Sizes and Description
1/2" chrome plated, hose end tee handle
1/2" rough brass, hose end tee handle
3/4" rough brass, hose end tee handle

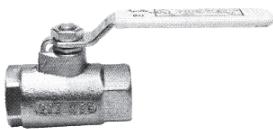
Pump Diaphragms



No	OD	ID
2	11 1/4"	4"
3	13"	5"
4	15"	5 1/2"

MODEL #
RED PUMP
RED RUBBER

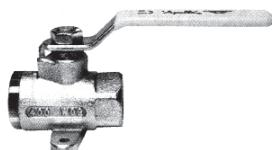
Ball Valves



MODEL # VFPB
FULL PORT

Ball Valve 600

Blow-out proof stem. Chromium plated ball. High performance reinforced teflon seats and stuffing box ring are standard on $\frac{1}{4}''$ thru **2"**. **2 $\frac{1}{2}''$** and **3"** valves have teflon seats.
Also available in stainless steel.



MODEL # 73-

Ball Valve 2000

Blow-out proof stem - bar stock design. Carbon steel ball $\frac{1}{4}''$ thru **1"** valves are rated at 2000 PSI.
Water, oil, gas, cold, non-shock. **1 $\frac{1}{4}''$** thru **2"** are rated at 1500 PSI.

Polypropylene - Glass Reinforced Ball Valves - with full or half union. Teflon seats. Good chemical resistance. Temp (-) 10°F to $+180^{\circ}\text{F}$. Sizes **1 $\frac{1}{4}''$, 1 $\frac{1}{2}''$, 2** and **3"**. Pressure 125 lbs. through **2"**; 100 PSI on **3"**.

FULL PORT

Nylon - Glass Ball Valves - with full or half union. Good resistance to chemicals, hydrocarbons, and mild acids. Teflon seats. Temp (-) 30°F to $+250^{\circ}\text{F}$. Sizes **1 $\frac{1}{4}''$, 1 $\frac{1}{2}''$, 2"** and **3"**. Pressure **1 $\frac{1}{4}''$** and **1 $\frac{1}{2}''$** - 200 lbs; **2"** - 150 lbs; **3"** - 125 lbs.

Gate Valve and Check Valve

Bronze Gate Valve



150 WSP/300 WOG
Premium-Heavy Duty
Meets WW-V-54D-
(85-5-5-5) (B-62)
Anti-Corrosion
Full Opening
Size Range: **1/4" thru 4" IPS**

Quick-Opening Gate Valve Bronze



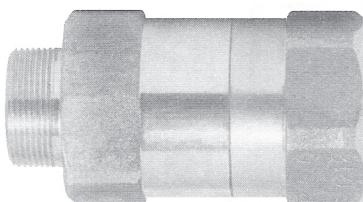
150 WSP/300 WOG
Premium-Heavy Duty
Lever-Easy Action
Size Range: **3/8" thru 4" IPS**

Check Valve

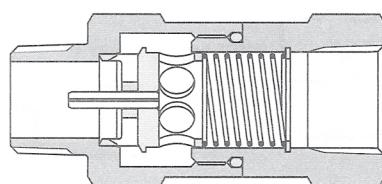


Available in Bronze
and Stainless Steel 316
Spring Loaded Fast Seating Action
Minimum Pressure Drop

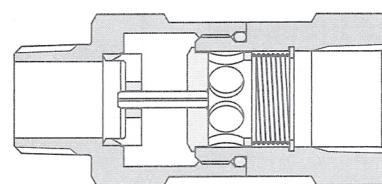
Safety Check Valve (Air Fuse)



— Flow Direction —→



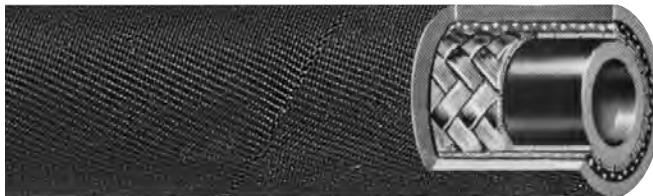
Check Valve in Open Position



Check Valve in Closed Position

SAE 100-R-1-T (Thin Cover) Medium Pressure - One Wire Braid

H104



Meets MSHA-2-G Flame Resistance Acceptance

Operation temp. range (-) 40° F to 212° F.

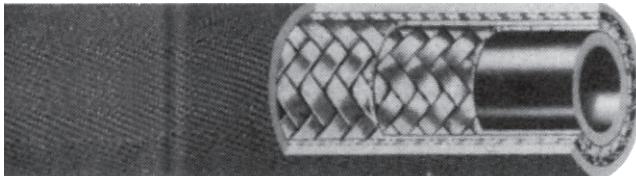
Heavy cover available on request.

SIZE ID		APPROX OD		RATED	BURST PRESSURE	APPROX WEIGHT	APPROX MBR*
Inches	mm	Inches	mm	PSI	PSI	lb/ft	Inches
1/4	6.4	17/32	13.5	2750	11000	.16	4
3/8	9.5	11/16	17.5	2250	9000	.23	5
1/2	12.7	13/16	20.8	2000	8000	.29	7
5/8	15.9	15/16	23.8	1500	6000	.33	8
3/4	19.0	1 3/32	27.9	1250	5000	.41	9 1/2
1	25.4	1 13/32	35.8	1000	4000	.62	12
1 1/4	31.8	1 23/32	43.7	625	2500	.89	16 1/2

*Minimum Bend Radius

SAE 100-R-2-T (Thin Cover) High Pressure - Two Wire Braid

H425



Meets MSHA-2G Flame Resistance Acceptance

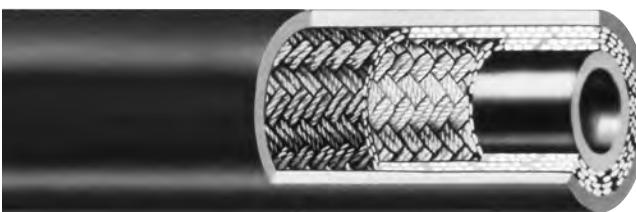
Operation temp. range (-) 40° F to 212° F.

Heavy cover available on request.

SIZE ID		APPROX OD		RATED	BURST PRESSURE	APPROX WEIGHT	APPROX MBR*
Inches	mm	Inches	mm	PSI	PSI	lb/ft	Inches
1/4	6.4	19/32	15.0	5000	20000	.26	4
3/8	9.5	3/4	19.0	4000	16000	.34	5
1/2	12.7	7/8	22.2	3500	14000	.43	7
5/8	15.9	63/64	24.9	2750	11000	.47	8
3/4	19.0	1 5/32	29.5	2250	9000	.58	9 1/2
1	25.4	1 1/2	38.1	2000	8000	.92	12
1 1/4	31.8	1 7/8	47.8	1625	6500	1.43	16 1/2
1 1/2	38.1	1 5/32	54.6	1250	5000	1.53	20
2	50.8	2 21/32	67.3	1125	4500	2.03	25

SAE 100-R-3 Medium Pressure Textile Braid

H017



SIZE ID		APPROX OD		RATED	BURST PRESSURE	APPROX WEIGHT	APPROX MBR*
Inches	mm	Inches	mm	PSI	PSI	lb/ft	Inches
1/4	6.4	9/16	14.3	1250	5000	.12	3
3/8	9.5	3/4	19.0	1125	4500	.19	4
1/2	12.7	15/16	23.8	1000	4000	.28	4
3/4	19.0	1 1/4	31.8	750	3000	.49	6
1	25.4	1 1/2	38.1	565	2250	.64	8
1 1/4	31.8	1 3/4	44.4	375	1500	.78	10

For hydraulic oil lines, anti-freeze solutions, water lines and in automatic car washes.

Operating temp range (-) 40° F to 212° F.

SAE 100-R-4 Suction and Return Line

H039



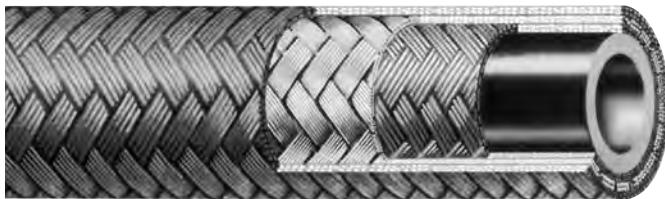
Meets MSHA-G-2 Flame Resistance Acceptance.

Operating temp range (-) 40° F to 212° F.

*Minimum Bend Radius

SAE 100-R-5 Rubber or Textile Covered, Medium Pressure Wire and Textile Braid

H069

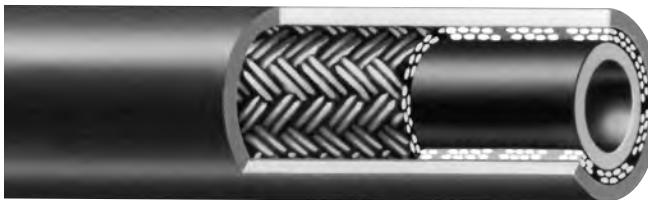


Meets MSHA-2G Flame Resistance Acceptance. For hydraulic oil, gasoline, fuel lines and lubricating oil. Operation temp. range (-) 40° F to 200° F. Also available with textile cover.

*Minimum Bend Radius

SAE 100-R-6 Low Pressure - Textile Braid

H009



For hydraulic oil, fuel and lubricating service.

Operation temp. range:

Std SAE 100 R6 (-) 40° F to 200° F.

*Minimum Bend Radius

SIZE ID		APPROX OD		RATED	BURST PRESSURE	APPROX WEIGHT	APPROX MBR*
Inches	mm	Inches	mm	PSI	PSI	lb/ft	Inches
3/4	19.0	1 1/4	31.8	300	1200	.49	5
1	25.4	1 1/2	38.1	250	1000	.64	6
1 1/4	31.8	1 51/64	45.6	200	800	.86	8
1 1/2	38.1	2 5/64	52.6	150	600	1.00	10
2	50.8	2 1/2	63.5	100	400	1.25	12

SIZE ID		APPROX OD		RATED	BURST PRESSURE	APPROX WEIGHT	
Inches	mm	Inches	mm	PSI	PSI	lb/ft	Inches
3/16	4.8	33/64	13.1	3000	12000	.15	3
1/4	6.4	37/64	14.7	3000	12000	.18	3 3/8
5/16	7.9	43/64	17.1	2250	9000	.22	4
13/32	10.3	49/64	19.5	2000	8000	.27	4 5/8
1/2	12.7	59/64	23.4	1750	7000	.37	5 1/2
5/8	15.9	1 5/64	27.4	1500	6000	.46	6 1/2
7/8	22.2	1 15/64	31.4	800	3200	.43	7 3/8
1 1/8	28.6	1 1/2	38.1	625	2500	.51	9
1 3/8	34.9	1 3/4	49.6	500	2000	.62	10 1/2
1 13/16	46.0	2 7/32	56.4	350	1400	.86	13 1/4

SIZE ID		APPROX OD		RATED	BURST PRESSURE	APPROX WEIGHT	
Inches	mm	Inches	mm	PSI	PSI	lb/ft	Inches
1/4	6.4	1/2	12.7	400	1600	.08	2 1/2
5/16	7.9	9/16	14.3	400	1600	.10	3
3/8	9.5	5/8	15.9	400	1600	.12	3
1/2	12.7	25/32	19.8	400	1600	.17	4

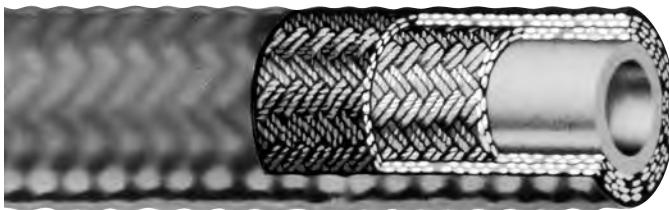
For hydraulic oil, fuel and lubricating service.

Operation temp. range:

Std SAE 100 R6 (-) 40° F to 200° F.

SAE 100-R-7 Hydraulic , Orange Cover or Black Cover

H436 - Black



H435 - Orange

SIZE ID		APPROX OD		RATED	BURST PRESSURE	APPROX MBR*
Inches	mm	Inches	mm	PSI	PSI	Inches
1/4	6.3	29/64	11.5	2750	11000	4
5/16	7.9	9/16	14.3	2500	10000	4½
3/8	9.5	5/8	15.9	2250	9000	5
1/2	12.7	13/16	20.6	2000	8000	7
3/4	19.1	1 1/16	27.0	1250	5000	9½
1	25.4	1 3/8	34.9	1000	4000	12

Orange Cover - non-conductive - for use where electrical shock hazard exists.

Black Cover - for all hydraulic fluids

*Minimum Bend Radius

SAE 100-R-12 High Pressure Four Spiral Wire

H430



SIZE ID		APPROX OD		RATED	BURST PRESSURE	APPROX WEIGHT	APPROX MBR*
Inches	mm	Inches	mm	PSI	PSI	lb/ft	Inches
1/2	12.7	31/32	24.6	4000	16000	.54	7.0
3/4	19.0	1 1/4	31.8	4000	16000	.89	9.5
1	25.4	1 35/64	39.3	4000	16000	1.30	12.0
1 1/4	31.8	1 29/32	48.4	3000	12000	1.73	16.5
1 1/2	38.1	2 5/32	54.8	2500	10000	1/98	20.0
2	50.8	2 11/16	68.3	2500	10000	2.74	25.0

For high pressure hydraulic oil lines. Meets MSHA 2 G flame resistance acceptance.

*Minimum Bend Radius

Operating temp. range (-) 40° F to + 250° F.

SAE 100-R-13 Heavy Duty - Four and Six Spiral Wire

H470



SIZE ID		APPROX OD		RATED	BURST PRESSURE	APPROX WEIGHT	APPROX MBR*
Inches	mm	Inches	mm	PSI	PSI	lb/ft	Inches
3/4	19.0	1 17/64	32.1	5000	20000	1.09	9.5
1	25.4	1 17/32	38.9	5000	20000	1.42	12.0
1 1/4	31.8	1 31/32	50.0	5000	20000	2.52	16.5
1 1/2	38.1	2 1/4	57.1	5000	20000	3.25	20.0
2	50.8	2 5/16	71.0	5000	20000	5.05	25.0

For extreme high pressure, hydraulic oil lines. Meets MSHA 2 G flame resistance acceptance.

*Minimum Bend Radius

Operating temp. range (-) 40° F to + 250° F.

Automotive Air Conditioning Hose Internal Nylon Barrier

HHAC



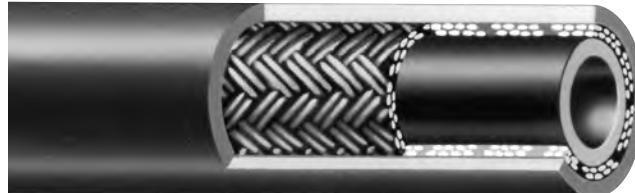
For automotive and air conditioning service using
Freon R-12, R-134a, and many other refrigerant & blends,
We do NOT recommend use with Freon 22.

SIZE ID		APPROX OD		RATED	BURST PRESSURE	APPROX WEIGHT	BEND
Inches	mm	Inches	mm	PSI	PSI	lb/ft	Radius
5/16	7.9	23/32	18.3	400	2000	.19	4.0
13/32	10.3	7/8	22.3	400	2000	.288	4.5
1/2	12.7	31/32	24.6	400	2000	.32	5.0
5/8	15.9	1 3/32	27.8	400	1750	.38	5.5

*Built to SAE-J51 all dimensions
Meets or exceeds all requirements of SAE-J2064
Refrigerant Hose Standard.*

Push-On Hose Low Pressure - One Textile Braid - Black Rubber Cover

HPO



SIZE ID		APPROX OD		RATED	BURST PRESSURE	APPROX WEIGHT
Inches	mm	Inches	mm	PSI	PSI	lb/ft
1/4	6.4	1/2	12.7	250	1000	.09
3/8	9.5	5/8	15.9	250	1000	.12
1/2	12.7	3/4	19.1	250	1000	.14
5/8	15.9	29/32	23.0	250	1000	.20
3/4	19.1	1 1/32	26.2	250	1000	.22

For low pressure petroleum base oils, diesel fuel, gasoline, anti-freeze solutions and air service. Other colors on request - min. order quantities.

Push-On Hose Low Pressure - Black Fabric Cover

HPCP



SIZE ID		APPROX OD		RATED	BURST PRESSURE	APPROX WEIGHT	APPROX MBR*
Inches	mm	Inches	mm	PSI	PSI	lb/ft	Inches
1/4	6.4	11/2	12.7	250	1000	.07	3
5/16	7.9	9/16	14.3	250	1000	.09	3
3/8	9.5	39/64	15.5	250	1000	.10	3
1/2	12.7	3/4	19.1	250	1000	.12	5
5/8	15.9	29/32	23.0	250	1000	.17	6
3/4	19.1	1 1/32	26.2	250	1000	.20	7

For low pressure hydraulic oils (petroleum) diesel fuel, gasoline and anti-freeze solution; also recommended for air service.

*Minimum Bend Radius



Weatherhead

For complete details see Coll-O-Crimp Catalog A1411a, available on request.

COLL-O-CRIMP HOSES



H009 (SAE 100R6) One Fiber Braid Reinforcement. Resistant to gasoline, oil, grease and other petroleum products, common hydraulic fluids, air and water. Commonly used for flexible fuel, oil filter and power steering return lines. Temp. Range: - 40° F to +200° F.



H017 (SAE 100R3) Two Fiber Braid Reinforcement. Commonly used for medium pressure lines such as gas and oil lines, hydraulic return and suction lines. Temp. Range: - 40° F to +200° F.



H039 (SAE 100R4) One Fiber Braid Spiral Wound Wire Reinforcement. Used for hydraulic suction lines. Temp. Range: - 40° F to +200° F.



H104 (SAE 100R1) One Wire Braid Reinforcement. Used for medium pressure hydraulic lines. Popular for farm implement hydraulic lines. Temp. Range: - 40° F to +200° F.



H338 AIR BRAKE HOSE (SAE J1402 TYPE B) Multiple Fiber Layer Reinforcement. Penn. State approved for air brake hose lines. Temp. Range: - 40° F to +200° F.



H425 (SAE 100R2) Two Wire Braid Reinforcement. Used for high pressure hydraulic lines, off-the-road construction equipment, farm equipment with high pressure hydraulic systems and other high pressure hydraulic applications. Temp. Range: - 40° F to +200° F.

REFRIGERANT



Air Conditioning Barrier Hose. For use with FREON 12 and FREON 134a, and many other refrigerant and blends. NOT RECOMMENDED FOR FREON 22.

NYLON HOSES



H435 - H436 SAE 100R7 Orange cover, non-conductive. This hose is designed for use where electrical shock hazards exists. It is identical to H436 except it has an orange, non-perforated, non-conductive cover. Maximum leakage is 50 micro amperes per foot at 75 KV per foot for five minutes. Temp. Range: - 40° F to +200° F.

TEFLON



H243 Stainless Steel Wire Braid. Construction: Inner tube of extruded Teflon with stainless steel single wire braid outer cover. Application: Medium pressure service up to 1500 p.s.i. (-100° F to +450° F.)

4 SPIRAL



H430-SAE 10-R-12 Four Spiral Wire Reinforcement. Most commonly used for very high pressure hydraulic lines subjected to pressure surges and flexing. With sizes thru 2" I.D., this hose is ideal for use in construction, mining, farming and high performance industrial equipment. Temp. Range: - 40° F to +250° F.



H470-SAE 10-R-13 For very high pressure hydraulic lines subjected to pressure and flexing. Sizes thru 2" I.D. This hose is ideal for use in construction, mining, farming and high performance industrial equipment. The 3/4" and 1" I.D. sizes have 4 spiral wire construction while the 1 1/4", 1 1/2", and 2" I.D. have 6 spiral plies.

Testimonials



"I've been with Amazon Hose & Rubber Co. over 18 years now, and one thing that most impresses me is feeling like we're "Family". Employees in larger companies may have the tendency to feel they are viewed as a number, but not here at Amazon. The owners are interested in the employees and their family's personal trials and triumphs."

- Beth Meyers, Human Resource Director/ Assistant Controller



"Our professional staff and courteous help along with our fast service is our winning combination"

*- Barry Spurney
Warehouse Manager*



"I feel both privileged and proud to be a part of the Amazon Legacy."

*- Bill Smith
General Manager*



"Our customers call us "Amazing Hose". Thanks to our large inventory and owner inspired "can do" attitude.

- Thanks customers, we appreciate your business!"

*- Bill Hippy
Hydraulic Specialist*

Low Pressure Weatherhead Hose & Hose Ends

H-100 Hose			BRAIDED FIBER	H-101 Hose			BRAIDED FIBER	NEOPRENE COVER			BUNA-N TUBE							
	Hose I.D.	Hose O.D.	Ins.	Catalog Number	Max. Work. Press P.s.i.	Min. Burst Press P.s.i.	Min. Bend Radii Ins.	Ins. Merc. Vac.										
	1/4	1/2		H100-4	350	1400	3	20										
	3/8	5/8		H100-6	350	1400	3	20										
	1/2	3/4		H100-8	350	1400	5	10										
	5/8	29/32		H100-10	350	1400	6	10										
	3/4	1 1/32		H100-12 (or H101)	350	1400	8	10										
	Hose I.D.	Pipe Size	Catalog No.		Hose I.D.	Tube Size	Catalog No.		Hose I.D.	Pipe Size	Catalog No.							
barb-tite push-on brass hose ends																		
MALE PIPE 	1/4 1/4 3/8 3/8 3/8 1/2 1/2 5/8 3/4	1/8 1/4 1/8 1/4 3/8 1/2 3/8 1/2 3/4	10004B-102 10004B-104 10006B-102 10006B-104 10006B-106 10008B-106 10008B-108 10010B-108 10012B-112	SAE 37° (JIC) FEMALE SWIVEL 	1/4 3/8 1/2 5/8 3/4	1/4 3/8 1/2 5/8 3/4	10004B-604 10006B-606 10008B-608 10010B-610 10012B-612	MALE PIPE RIGID - 90° ELBOW 	3/8 3/8	1/8 1/4	10006B-C02 10006B-C04							
SAE RIGID MALE 	1/4 1/4 3/8	Tube Size 1/4 1/4 5/16 3/8	10004B-304 10004B-305 10006B-306	RIGID INVERTED FEMALE 	1/4 1/4 1/4 3/8 3/8 1/2	3/16 1/4 5/16 5/16 3/8 1/2	10004B-A03 10004B-A04 10004B-A05 10006B-A05 10006B-A06 10008B-A08	RIGID TUBE 	Tube Size 1/4 1/4 1/4 3/8	3/16 1/4 5/16 3/8	10004B-X03 10004B-X04 10004B-X05 10006B-X06							
SAE FEMALE SWIVEL 	1/4 1/4 3/8 3/8 1/2 5/8 3/4	1/4 5/16 5/16 3/8 1/2 5/8 3/4	10004B-404 10004B-405 10006B-405 10006B-406 10008B-408 10010B-410 10012B-412	INVERTED MALE SWIVEL 	1/4 1/4 1/4 3/8 3/8 1/2	3/16 1/4 5/16 5/16 3/8 1/2	10004B-B03 10004B-B04 10004B-B05 10006B-B05 10006B-B06 10008B-B08	HOSE MENDER 	1/4 3/8 1/2	- - -	10004B-Y04 10006B-Y06 10008B-Y08							

Medium Pressure Weatherhead Hose

H069 (SAE 100R5) Sizes 16 thru 48 Not D.D.T. Approved High Temp. Truck Hose DOT A II Approved for Air Brake Lines (250 PSI Oper. Press) (-4 thru -12 Sizes)	BRAIDED FIBER 	Hose I.D. 3/16 1/4 5/16 13/32 1/2 5/8 7/8 1/8 13/8 13/16	Hose O.D. 33/64 37/64 43/64* 49/64* 59/64* 1 5/64* 1 15/64 1 1/2 1 3/4 2 7/32	Catalog * Number H069-4 H069-5 H069-6 H069-8 H069-10 H069-12 H069-16 H069-20 H069-24 H069-32	Max Work. Press P.s.i. 3000 3000 2250 2000 1750 1500 800 625 500 350	Min. Burst Press P.s.i. 12000 10000 9000 8000 7000 6000 3200 2500 2000 1400	Min. Bend Radii Ins. 3 3 3/8 4 4 5/8 5 1/2 6 1/2 7 3/8 9 10 1/2 13 1/4
		3/16 1/4 5/16 13/32 1/2 5/8 7/8 1/8 13/8 13/16	33/64 37/64 43/64 49/64 59/64 1 5/64 1 15/64 1 1/2 1 3/4 2 7/32	H166-4 H166-5 H166-6 H166-8 H166-10 H166-12 H166-16	500 500 500 500 450 450 250	2000 2000 2000 2000 1800 1800 1000	1 1/2 1 3/4 2 2 5/16 2 3/4 3 1/4 4

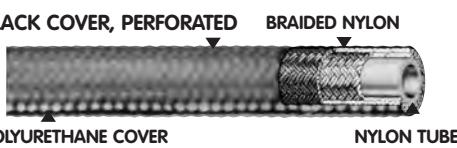
Medium Pressure Weatherhead Hose Ends

	Hose I.D.	Pipe Size	Catalog No.		Hose I.D.	Tube Size	Catalog No.		Hose I.D.	Tube Size	Catalog No.
247 SERIES STEEL HOSE ENDS USE WITH HO69											
MALE PIPE	3/16 3/16 1/4 5/16 5/16 13/32 13/32 1/2 1/2 1/2 1/2 5/8	1/8 1/4 1/4 1/4 3/8 3/8 1/2 3/8 1/2 3/4 3/4	24704N-102 24704N-104 24705N-104 24706N-104 24706N-106 24708N-106 24708N-108 24701N-108 24710N-112 24712N-112	FEM. SWIVEL 45° TUBE ELBOW (I)	3/16 1/4 1/4 5/16 5/16 13/32 1/2 5/8 5/8 7/8	1/4 1/4 5/16 1/4 3/8 3/8 1/2 5/8 3/4 1	24704N-684 24705N-685 24706N-484 24706N-486(2) 24706N-686(3) 24708N-688 24710N-690 24712N-492(2) 24712N-692(3) 24712N-696(3)	AIR BRAKE CONNECTION (Nut & Sleeve not included)	13/32 1/2 1/2 5/8	3/8 1/2 5/8 3/4	24708B-Y56 24710B-T58 24710B-T60 24712B-Y62
SAE 45° MALE RIGID	3/16 1/4 5/16 5/16 13/32 1/2 5/8	Tube Size 1/4 5/16 3/8 1/2 5/8 3/4	24704N-304 24705N-305 24706N-306 24708N-308 24710N-310 24712N-312	FLARELESS TUBE RIGID (Includes Nut & Sleeve)	5/16 5/16 5/16 5/16 5/16 5/16 5/16 5/16	1/4 5/16 3/8 1/2 1/4 5/16 3/8 1/2		HIGH FLOW STEEL ENDS Use on HO66, HO69, H166, H169	Hose I.D. 3/16 3/16 1/4 1/4 5/16 13/32 13/32 1/2 5/8 7/8 7/8 1 1/8 13/8 13/16	Pipe Size 1/8 1/4 1/4 1/4 1/4 3/8 1/2 1/2 3/4 3/4 1 1 1/4 1 1/2 2	Catalog No. 06904D-102 06904D-104 06905D-104 06906D-104 06908D-106 06908D-108 06910D-108 06912D-112 06916D-112 06916D-116 06920D-120 06924D-124 06932D-132
SAE 45° FEMALE SWIVEL	5/16 5/16 5/16 13/32 13/32 1/2 1/2 5/8 3/4	1/4 3/8 1/2 3/8 1/2 1/2 5/8 3/4	24706N-406 24708N-406 24712N-412	INVERTED MALE SWIVEL	3/16 3/16 1/4 5/16 1/4 5/16 3/8 12/32	1/4 5/16 1/4 5/16 3/8 3/8 1/2	24704N-B04 24705N-B05 24706N-B06 24708N-B08	FEMALE SWIVEL	3/16 1/4 5/16 3/8 5/16 13/32 1/2 5/8 5/8 5/8 7/8 7/8 1 1/4 13/8 13/16	Tube 1/4 5/16 3/8 3/8 1/2 5/8 3/4 3/4 1 1 1 1/4 1 1/2 2	06904D-604 06905D-605 06906D-406(2) 06906D-606(3) 06908D-608 06910D-610 06912D-412(2) 06912D-612(3) 06916D-616 06920D-620 06924D-624 06932D-632
SAE 37° (JIC) MALE RIGID	3/16 1/4 5/16 13/32 1/2 5/8 7/8	1/4 5/16 3/8 1/2 5/8 3/4 1	24704N-504 24705N-505 24706N-506 24708N-508 24710N-510 24712N-512 24716N-516	INVERTED MALE SWIVEL LONG	5/16 5/16 5/16	1/4 5/16 3/8	24706N-B24 24706N-B25 24706N-B26	INVERTED MALE SWIVEL	3/16 1/4 5/16 1/4 5/16 1/4 5/16 13/32	1/4 5/16 1/4 5/16 3/8 1/2	06904D-804 06905D-805 06906D-806
SWIVEL SAE 37° (JIC) FEMALE	3/16 1/4 5/16 5/16 13/32 13/32 13/32 1/2 1/2 5/8 7/8	1/4 5/16 5/16 3/8 1/4 3/8 1/2 1/2 5/8 3/4 1	24704N-604 24705N-605 24706N-605 24706N-606 24708N-608 24710N-608 24710N-610 24712N-612 24716N-616	INVERTED MALE SWIVEL 90° ELBOW	3/16 1/4 5/16 1/4 5/16 1/4 5/16 13/32	1/4 5/16 1/4 5/16 3/8 1/2	24704N-E04 24705N-E05 24706N-E05 24706N-E06	INVERTED MALE SWIVEL	3/16 1/4 5/16 1/4 5/16	1/4 5/16 3/8 1/2	06904D-804 06905D-805 06906D-806
FEM. SWIVEL 90° TUBE ELBOW-LONG (I)	3/16 1/4 5/16 5/16 13/32 1/2 5/8 5/8 7/8	1/4 5/16 1/4 3/8 3/8 1/2 5/8 3/4 3/4 1	24704N-644 24705N-645 24706N-444 24706N-446(2) 24706N-646(3) 24708N-648 24710N-650 24712N-452(2) 24712N-652(3) 24716N-656(3)	INVERTED MALE SWIVEL 45° ELBOW	1/4	5/16	24705N-E45				
FEM. SWIVEL 90° TUBE ELBOW - SHORT (I)	3/16 1/4 1/4 5/16 5/16 13/32 1/2 5/8 5/8 7/8	1/4 1/4 5/16 3/8 3/8 1/2 5/8 3/4 3/4 1	24704N-664 24705N-665 24706N-466(2) 24706N-666(3) 24708N-668 24710N-670 24712N-472(2) 24712N-672(3) 24716N-676(3)	STRAIGHT TUBE EXT.	3/16 1/4 5/16 1/4 5/16 13/32 1/2 5/8 5/8 7/8	1/4 5/16 3/8 1/2 5/8 3/4 1	24704N-T54 24705N-T55 24706N-T56 24708N-T58 24710N-T60				

(1) Swivel nuts will connect to entire 45° or 37° flare connections with exceptions 2, 3 and 4.

(2) SAE 45° ONLY. (3) SAE 37° (JIC) ONLY. (4) End no. 06916D-X16 is 14 pitch (AC811) thread.

Medium Pressure Weatherhead Hose and Hose Ends

<p>H213 (SAE J1402 Type A1) DOT A 1 High Temp. Truck Hose (DOT A1) Approved For Air Brake Lines (250 PSI Oper. Press) (-4 thru -12 Sizes)</p> 				<table border="1"> <thead> <tr> <th>Hose I.D. Ins.</th><th>Hose O.D. Ins.</th><th>Catalog Number</th><th>Max. Work. Press P.s.i.</th><th>Min. Burst Press P.s.i.</th><th>Min. Bend Radii Ins.</th><th>Ins. Merc. Vac.</th></tr> </thead> <tbody> <tr><td>3/16</td><td>31/64</td><td>H213-4</td><td>2000</td><td>8000</td><td>3/4</td><td>—</td></tr> <tr><td>1/4</td><td>35/64</td><td>H213-5</td><td>1500</td><td>6000</td><td>1</td><td>—</td></tr> <tr><td>5/16</td><td>39/64</td><td>H213-6</td><td>1500</td><td>6000</td><td>1 1/4</td><td>—</td></tr> <tr><td>13/32</td><td>47/64</td><td>H213-8</td><td>1250</td><td>5000</td><td>1 3/4</td><td>—</td></tr> <tr><td>1/2</td><td>53/64</td><td>H213-10</td><td>1000</td><td>4000</td><td>2 1/4</td><td>—</td></tr> <tr><td>5/8</td><td>61/64</td><td>H213-12</td><td>750</td><td>3000</td><td>2 3/4</td><td>—</td></tr> <tr><td>7/8</td><td>113/64</td><td>H213-16</td><td>400</td><td>1600</td><td>3 1/2</td><td>—</td></tr> </tbody> </table>				Hose I.D. Ins.	Hose O.D. Ins.	Catalog Number	Max. Work. Press P.s.i.	Min. Burst Press P.s.i.	Min. Bend Radii Ins.	Ins. Merc. Vac.	3/16	31/64	H213-4	2000	8000	3/4	—	1/4	35/64	H213-5	1500	6000	1	—	5/16	39/64	H213-6	1500	6000	1 1/4	—	13/32	47/64	H213-8	1250	5000	1 3/4	—	1/2	53/64	H213-10	1000	4000	2 1/4	—	5/8	61/64	H213-12	750	3000	2 3/4	—	7/8	113/64	H213-16	400	1600	3 1/2	—
Hose I.D. Ins.	Hose O.D. Ins.	Catalog Number	Max. Work. Press P.s.i.	Min. Burst Press P.s.i.	Min. Bend Radii Ins.	Ins. Merc. Vac.																																																									
3/16	31/64	H213-4	2000	8000	3/4	—																																																									
1/4	35/64	H213-5	1500	6000	1	—																																																									
5/16	39/64	H213-6	1500	6000	1 1/4	—																																																									
13/32	47/64	H213-8	1250	5000	1 3/4	—																																																									
1/2	53/64	H213-10	1000	4000	2 1/4	—																																																									
5/8	61/64	H213-12	750	3000	2 3/4	—																																																									
7/8	113/64	H213-16	400	1600	3 1/2	—																																																									
	Hose I.D.	Tube Size	Catalog No.		Hose I.D.	Pipe Size	Catalog No.		Hose I.D.	Tube Size	Catalog No.																																																				
213N Series Steel Hose Ends																																																															
MALE PIPE RIGID	3/16 3/16 1/4 5/16 13/32 5/8 7/8	1/8 1/4 1/4 3/8 1/2 1/2 3/4 1	21304N-102 21304N-104 21305N-104 21306N-106 21308N-108 21310N-108 21312N-112 21316N-116	SAE 37° (JIC) FEMALE SWIVEL	3/16 1/4 5/16 5/16 13/32 1/2 5/8 5/8 7/8	1/4 5/16 3/8 3/8 1/2 5/8 3/4 3/4 1	21304N-604 ¹ 21305N-605 ¹ 21306N-406 ² 21306N-606 ³ 21308N-608 ¹ 21310N-610 ¹ 21312N-412 ² 21312N-612 ³ 21316N-616 ³	INVERTED MALE SWIVEL 45° TUBE ELBOW	3/16 1/4 5/16 5/16 13/32	1/4 5/16 1/4 5/16 3/8 1/2	21304N-E44 21305N-E45 21306N-E44 21306N-E45 21306N-E46 21308N-E48																																																				
INVERTED MALE SWIVEL STRAIGHT	3/16 1/4 5/16 5/16 5/16 13/32	1/4 5/16 1/4 5/16 3/8 1/2	21304N-B04 21305N-B05 21306N-B04 21306N-B05 21306N-B06 21308N-B08	SAE 45° FLARE FEMALE SWIVEL BRASS	3/16 5/16 13/32	1/4 3/8 1/2 5/8 3/4	21304B-404H ² 21306B-406H ² 21308B-408H ² 21310B-410H ² 21312B-412H ²	INVERTED MALE SWIVEL 90° TUBE ELBOW	3/16 1/4 5/16 5/16 13/32	1/4 5/16 1/4 5/16 3/8 1/2	21304N-E04 21305N-E05 21306N-E04 21306N-E05 21306N-E06 21308N-E08																																																				
30° FLARE FEMALE SWIVEL	7/8	1	21316N-X26	SAE 37° (JIC) FEMALE SWIVEL 45° TUBE E ELBOW	3/16 1/4 5/16 5/16 13/32	1/4 5/16 3/8 3/8 1/2	21304N-684 ¹ 21305N-685 ¹ 21306N-486 ² 21306N-686 ³ 21308N-688 ¹	SAE 37° (JIC) FEMALE SWIVEL 90° TUBE ELBOW	3/16 1/4 5/16 5/16 13/32	1/4 5/16 3/8 3/8 1/2	21304N-664 ¹ 21305N-665 ¹ 21306N-466 ² 21306N-666 ³ 21308N-668 ¹																																																				
H435 (SAE 100R7) ORANGE COVER, NON-CONDUCTIVE																																																															
H436 (SAE 100R7)																																																															
																																																															
	Hose I.D.	Pipe Size	Catalog No.		Hose I.D.	Tube Size	Catalog No.		Hose I.D.	Tube Size	Catalog No.																																																				
436 Series Steel Hose Ends Non-Mandrel Ass'y.				<table border="1"> <thead> <tr> <th>Hose I.D. Ins.</th><th>Hose O.D. Ins.</th><th>Catalog Number</th><th>Max. Work. Press P.s.i.</th><th>Min. Burst Press P.s.i.</th><th>Min. Bend Radii Ins.</th><th>Ins. Merc. Vac.</th></tr> </thead> <tbody> <tr><td>1/4</td><td>29/64</td><td>H436-4</td><td>3000</td><td>12000</td><td>4</td><td>—</td></tr> <tr><td>5/16</td><td>9/16</td><td>H436-5</td><td>2750</td><td>11000</td><td>4 1/2</td><td>—</td></tr> <tr><td>3/8</td><td>5/8</td><td>H436-6</td><td>2250</td><td>9000</td><td>5</td><td>—</td></tr> <tr><td>1/2</td><td>13/16</td><td>H436-8</td><td>2000</td><td>8000</td><td>7</td><td>—</td></tr> <tr><td>3/4</td><td>11/16</td><td>H436-12</td><td>1250</td><td>5000</td><td>9 1/2</td><td>—</td></tr> <tr><td>1</td><td>13/8</td><td>H436-16 (or H435)</td><td>1000</td><td>4000</td><td>12</td><td>—</td></tr> </tbody> </table>								Hose I.D. Ins.	Hose O.D. Ins.	Catalog Number	Max. Work. Press P.s.i.	Min. Burst Press P.s.i.	Min. Bend Radii Ins.	Ins. Merc. Vac.	1/4	29/64	H436-4	3000	12000	4	—	5/16	9/16	H436-5	2750	11000	4 1/2	—	3/8	5/8	H436-6	2250	9000	5	—	1/2	13/16	H436-8	2000	8000	7	—	3/4	11/16	H436-12	1250	5000	9 1/2	—	1	13/8	H436-16 (or H435)	1000	4000	12	—			
Hose I.D. Ins.	Hose O.D. Ins.	Catalog Number	Max. Work. Press P.s.i.	Min. Burst Press P.s.i.	Min. Bend Radii Ins.	Ins. Merc. Vac.																																																									
1/4	29/64	H436-4	3000	12000	4	—																																																									
5/16	9/16	H436-5	2750	11000	4 1/2	—																																																									
3/8	5/8	H436-6	2250	9000	5	—																																																									
1/2	13/16	H436-8	2000	8000	7	—																																																									
3/4	11/16	H436-12	1250	5000	9 1/2	—																																																									
1	13/8	H436-16 (or H435)	1000	4000	12	—																																																									
MALE PIPE	1/4 1/4 5/16 5/16 3/8 3/8 1/2 1/2 3/4 1	1/8 1/4 1/4 3/8 1/4 3/8 3/8 1/2 3/4 1	43604N-104	FEMALE SWIVEL (I)	3/16 3/16 3/16 1/4 5/16 5/16 13/32 3/16 1/4 5/16 5/16 13/32 13/32	1/4 1/4 1/4 1/4 3/8 3/8 3/8 1/4 1/4 1/4 3/8 3/8	43604N-604 43604N-605 43604N-606 (3) 43606N-406 (2) 43606N-606 43606N-608 43608N-608 43608N-610 43612N-612 (3) 43616N-616	SAE 37° (JIC) FEMALE SWIVEL 45° TUBE EL.	1/4 1/4 3/8 1/2 1/2 3/4 1	1/4 5/16 3/8 5/8 3/4 3/4 1	43604N-684																																																				
SAE 37° (JIC) MALE RIGID	1/4 1/4 5/16 5/16 3/8 3/8 1/2 1/2 5/8 3/4 1	TUBE SIZE 1/4 5/16 3/8 3/8 1/2 1/2 5/8 3/4 1	43604N-504 43604N-505 43606N-506 43606N-508 43608N-508 43608N-510	SAE 37° (JIC) FEM. SWIVEL- 90° TUBE EL.	3/16 1/4 5/16 5/16 13/32 13/32 1/2 5/8 3/4 7/8 1 13/32 13/32	1/4 5/16 3/8 1/2 5/8 3/4 3/8 1 3/8 3/8 3/8	43604N-664 43608N-668																																																								

(1) Swivel nuts will connect to either 45° or 37° flare connections with exceptions 2 and 3. (2) SAE 45° only. (3) SAE 37° (JIC) only.

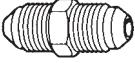
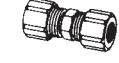
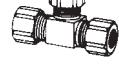
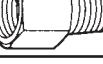
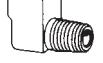
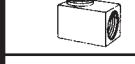
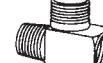
Seamless Hydraulic Tubing Carbon Steel - 304 and 316 Stainless Steel**Carbon Steel**

O.D./In.	Wall/In.	I.D./In.	Grade	PSI Working Pressure	Approx. Wt./Ft.	O.D./In.	Wall/In.	I.D./In.	Grade	PSI Working Pressure	Approx. Wt./Ft.
1/8" O.D.											
.125	.035	.055	SMLS	6,720	.034						
3/16" O.D.											
.188	.035	.117	SMLS	4,460	.057						
.188	.049	.090	SMLS	6,250	.073						
1/4" O.D.											
.250	.035	.180	SMLS	3,360	.080						
.250	.049	.152	SMLS	4,700	.105						
.250	.065	.120	SMLS	6,240	.128						
5/16" O.D.											
.313	.035	.242	SMLS	2,680	.104						
.313	.049	.214	SMLS	3,760	.138						
.313	.065	.182	SMLS	5,000	.172						
3/8" O.D.											
.375	.028	.319	SMLS	1,790	.104						
.375	.035	.305	SMLS	2,240	.127						
.375	.049	.277	SMLS	3,130	.171						
1/2" O.D.											
.500	.035	.430	SMLS	1,680	.174						
.500	.049	.402	SMLS	2,350	.236						
.500	.065	.370	SMLS	3,120	.302						
.500	.083	.334	SMLS	3,904	.370						
.500	.095	.310	SMLS	4,560	.411						
5/8" O.D.											
.625	.035	.555	SMLS	1,340	.221						
.625	.049	.527	SMLS	1,880	.301						
.625	.065	.495	SMLS	2,490	.389						
.625	.083	.459	SMLS	3,180	.481						
.625	.095	.435	SMLS	3,648	.538						
3/4" O.D.											
.750	.035	.680	SMLS	1,120	.267						
.750	.049	.652	SMLS	1,560	.367						
.750	.065	.620	SMLS	2,080	.476						
.750	.083	.584	SMLS	2,650	.591						
.750	.095	.560	SMLS	3,040	.665						
.750	.109	.532	SMLS	3,480	.746						
.750	.120	.510	SMLS	3,840	.807						

304 & 316 Stainless Steel

O.D./In.	Wall/In.	Grade	PSI Working Pressure
1/8	.035	SMLS	5000
3/16	.035	SMLS	5000
1/4	.035	SMLS	5000
5/16	.035	SMLS	4000
3/8	.035	SMLS	2800
1/2	.035	SMLS	2800
1/2	.049	SMLS	3500
5/8	.049	SMLS	2500
5/8	.065	SMLS	3000
3/4	.049	SMLS	2800
3/4	.065	SMLS	3500
7/8	.065	SMLS	2800
1	.065	SMLS	1800

EATON**Weatherhead**

TUBE FITTINGS - BRASS											
	SAE 45° FLARE	INVERTED FLARE	COMPRESSION & SELFALIGN®	THREADED SLEEVE	POLYLINE FLARELESS						
UNION		42x		252		302x		6300x		1262x	
BULKHEAD UNION					74x					1274X	
UNION ELBOW		55x		502x		65x				1265X	
UNION TEE		44x		702x		64x				1264X	
MALE CONNECTOR		48x		202x		68x		6200x		1268X	
45° MALE ELBOW		54x		352x							
90° MALE ELBOW		49x		402x		69x		6400x		1269X	
MALE BRANCH TEE		45x		602x		72x				1272X	
MALE RUN TEE		51x		752x		71x				1271X	
FEMALE CONNECTOR		46x		252x		66x				1266X	
FEMALE ELBOW		50x		452x		70x				1270X	
FEMALE BRANCH TEE				652x							
ADAPTER TEE, FEMALE TO MALE PIPE ON RUN		56x		552x		76x		6550x			
MISC. & COMPONENT PARTS	 				   			 		 	
											
											

* Selfalign Part Number



Weatherhead

TUBE FITTINGS - BRASS

AIR BRAKE

MINI-BARB

For Nylon Tubing

For Copper Tubing

UNION



1062x



1462x



1362x

BULKHEAD UNION



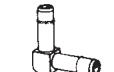
1074x



1474x



UNION ELBOW



1065x

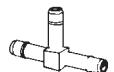


1465x



1365x

UNION TEE



1064x



1464x



1364x

MALE CONNECTOR



1068x



1468x



1368x

45° MALE ELBOW



1480x



1380x

90° MALE ELBOW



1069x



1469x



1369x

MALE BRANCH TEE



1072x



1472x



1372x

MALE RUN TEE



1071x



1471x



1371x

FEMALE CONNECTOR



1066x



1466x



1366x

FEMALE ELBOW



1070x



1470x



1370x

FEMALE BRANCH TEE



1077x



1477x



FEMALE ADAPTER TEE



1482x



ADAPTER TEE



1075x



1483x



1382x

MISC. & COMPONENT PARTS



1067x



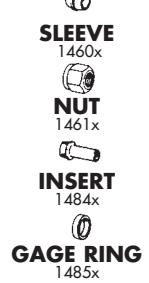
1073x



1078x



1079x



	PIPE FITTINGS			
	BRASS	STEEL*		
UNION		ADAPTER 3200x		ADAPTER C3209x
BULKHEAD UNION		COUPLING 3300x		COUPLING C3309x
UNION ELBOW		45° STREET ELBOW 3350x		45° STREET ELBOW TF3359x
UNION TEE		STREET ELBOW 3400x		90° STREET ELBOW TF3409x
MALE CONNECTOR		ELBOW 3500x		90° ELBOW TF3509x
45° MALE ELBOW		MALE BRANCH TEE 3600x		MALE BRANCH TEE TF3609x
90° MALE ELBOW		TEE 3700x		TEE TF3709x
MALE BRANCH TEE		STREET TEE 3750x		MALE RUN TEE TF3759x
MALE RUN TEE		CROSS 3950x		CROSS TF3959x
FEMALE CONNECTOR		HEX NIPPLE 3325x		HEX NIPPLE C3069x
FEMALE ELBOW		BUSHING 3220x		BUSHING C3109x
FEMALE BRANCH TEE		HEX HD. PLUG 3152x		HEX HD. PLUG C3159x
FEMALE ADAPTER TEE		SQ. HD. PLUG 3151x		SQ. HD. PLUG C3179x
ADAPTER TEE		REDUCER COUPLING 3300x		REDUCER COUPLING C3169x
MISC. & COMPONENT PARTS	 	CLOSE NIPPLE 3326x LONG NIPPLE 3327x INSERT 1484x BULKHEAD COUPLINGS WO5498 GAGE RING 1485x	 	CLOSE NIPPLE 3326x LONG NIPPLE 3327x CAP 3129x SLOTTED PLUG 3150x SLOTTED PLUG 3150x UNION 3250x STR. THREAD ADAPTER C3269x STR. THREAD ELBOW TF3459x STR. THREAD ELBOW-LONG TF3469x

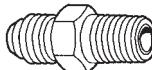
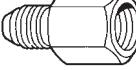
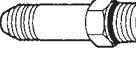
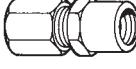
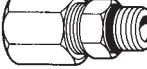
amazon
HOSE & RUBBER COMPANY



Weatherhead

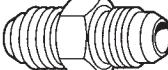
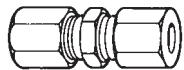
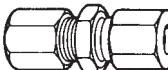
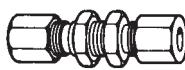
MANY FITTINGS AVAILABLE IN METRIC DIN & BSP

CONNECTORS

FLARED	TUBE TO MALE PIPE  C5205x	TUBE TO FEMALE PIPE  C5255x	TUBE TO STR. THREAD  C5315x	TUBE TO STR. THREAD-LONG  C5316x	
FLARELESS	TUBE TO MALE PIPE  7205x *7217x	TUBE TO FEMALE PIPE  7255x *7267x	TUBE TO STR. THREAD  7315x *7327x		

MANY FITTINGS AVAILABLE IN METRIC DIN & BSP

UNIONS

FLARED	TUBE TO TUBE  C5305x	TUBE TO TUBE - LARGE HEX  C5306x	TUBE TO BULKHEAD TUBE  C5325x	BULKHEAD TUBE TO FEMALE PIPE  C5275x	
FLARELESS	TUBE TO TUBE  7305x *7317x	TUBE TO TUBE - LARGE HEX  7306x *7318x	TUBE TO BULKHEAD TUBE  7325x *7337x	MALE STR. TH'D TO FEMALE STR. THREAD  7033x	

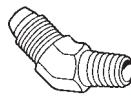
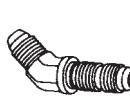
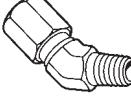
* STAINLESS STEEL



Weatherhead

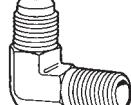
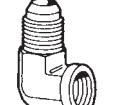
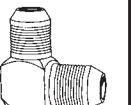
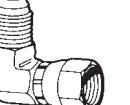
MANY FITTINGS AVAILABLE IN METRIC DIN & BSP

45° ELBOWS

FLARED	TUBE TO MALE PIPE  TF5355x	TUBE TO STRAIGHT THREAD  TF5365x	TUBE TO SWIVEL  TF5356x	TUBE TO BULKHEAD TUBE  TF5375x				
FLARELESS	TUBE TO MALE PIPE  7355x *7367x							

MANY FITTINGS AVAILABLE IN METRIC DIN & BSP

90° ELBOWS

FLARED	TUBE TO MALE PIPE  TF5405x	TUBE TO MALE PIPE - LONG  TF5425x	TUBE TO MALE PIPE - EXTRA LONG  TF5435x	TUBE TO FEMALE PIPE  TF5455x	TUBE TO STRAIGHT THREAD  TF5515x	TUBE TO TUBE  TF5505x	TUBE TO TUBE BULKHEAD  TF5525x	TUBE TO SWIVEL  TF5506x
FLARELESS	TUBE TO MALE PIPE  7405x *7417x			TUBE TO FEMALE PIPE  7455x *7467x	TUBE TO STRAIGHT THREAD  7515x *7527x	TUBE TO TUBE  7505x *7517x		TUBE TO FEMALE SWIVEL  *7506x *7518x

* STAINLESS STEEL



MANY FITTINGS AVAILABLE IN METRIC DIN & BSP

TEES

FLARED	TUBE TO TUBE TO TUBE #C5705x or TF	TUBE TO TUBE TO MALE PIPE #C5605x or TF	TUBE TO TUBE TO FEMALE PIPE #C5655x or TF	TUBE TO TUBE TO STRAIGHT THREAD #C5715x or TF	TUBE TO TUBE TO SWIVEL #C5707x or TF		
FLARELESS	TUBE TO TUBE TO TUBE 7705x *7717x	TUBE TO TUBE TO MALE PIPE 7605x *7617x	TUBE TO TUBE TO FEMALE PIPE 7655x *7669x	TUBE TO TUBE TO STRAIGHT THREAD 7715x *7727x			

MANY FITTINGS AVAILABLE IN METRIC DIN & BSP

TEES

FLARED	TUBE TO MALE PIPE TO TUBE #TF5755x or C	TUBE TO FEMALE PIPE TO TUBE #TF5805x or C	TUBE TO STR. THREAD TO TUBE #TF5716x or C	TUBE TO SWIVEL TO TUBE #TF5706x or C	TUBE TO BULKHEAD PIPE TO TUBE #TF5726x or C	TUBE TO TUBE TO BULKHEAD TUBE #TF5725x or C	
FLARELESS	TUBE TO MALE PIPE TO TUBE 7755x *7767x	TUBE TO FEMALE PIPE TO TUBE 7805x *7817x	TUBE TO STR. THREAD TO TUBE 7716x *7728x				

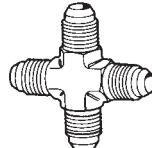
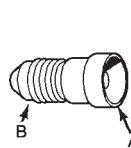
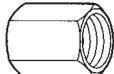
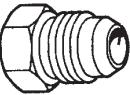
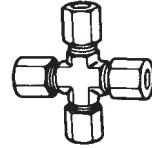
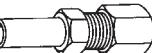
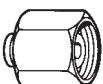
* STAINLESS STEEL



Weatherhead

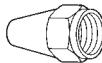
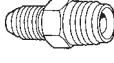
MANY FITTINGS AVAILABLE IN METRIC DIN & BSP

CROSS & MISCELLANEOUS

FLARED	UNION  TF5955x or TF5955	REDUCER  C5015x	CAP  C5129x	SLEEVE  C5165x	PLUG  C5229x	NUT  C5105x	
FLARELESS	UNION  7955x *7767x	REDUCER  7015x *7027x	CAP  7129x 7141x	SLEEVE  7165x *7176x	PLUG  7229x *7241x	NUT  7105x *7117x	

MANY FITTINGS AVAILABLE IN METRIC DIN & BSP

MISCELLANEOUS

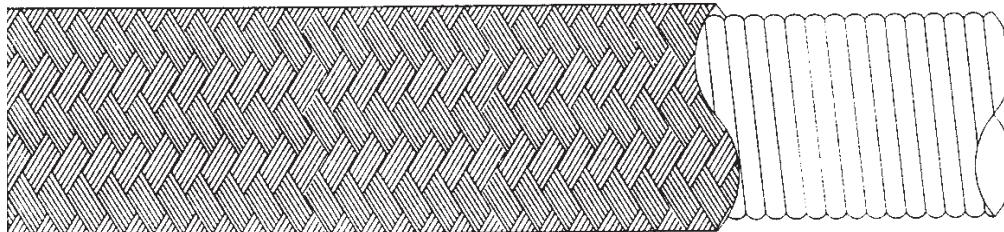
FLARED	"O" RING  7629x	MOUNTING STUD  C5135x	LONG NUT  C5115x	ADAPTER JIC INVERTED  C5880x		BULKHEAD NUT  C5924x	
FLARELESS	"O" RING  7629x				PLUG - STR. THREAD - SOCKET HEAD  7231x Zinc Plated 7238x	BULKHEAD NUT  7924x *7936x	PLUG - STR. THREAD - HEX HEAD  *7242x Zinc Plated 7237x

* STAINLESS STEEL

Medium Pressure Convoluted Teflon Tube Stainless Steel Braid Cover

Meets FDA Requirements. Temp. Range Is (-) 65° F to 400° F. Corrosion-Proof

Model# T 1568



For corrosion resistance, chemical inertness, food handling, and hazardous waste material. The almost universal hose.

Available with black conductive tube to dissipate electrostatic charges.

Lengths To 25 Ft.

Couplings: See Coupling Section

For Full Size Range and Material.

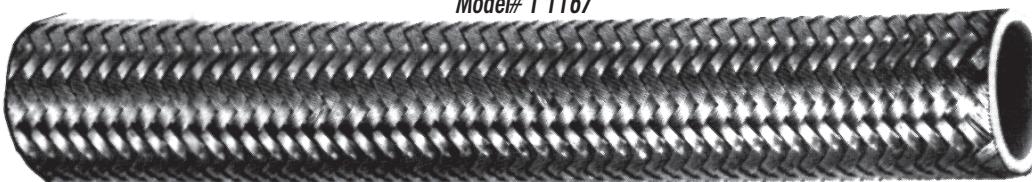
*Minimum Bend Radius

SIZE ID	NOMINAL OD	RATED	BURST PRESSURE	APPROX WEIGHT	APPROX-MBR*
Inches	Inches	<None>			
3/8	.59	PSI	PSI	lb/ft	Inches
1/2	.76	1000	4000	.12	1.00
5/8	.91	1250	5000	.20	1.50
3/4	1.07	1400	5600	.38	2.00
1	1.34	1100	4400	.33	2.50
1 1/4	1.57	1000	4000	.43	3.00
1 1/2	1.81	1000	4000	.53	3.50
2		750	3000	.65	4.50

Medium Pressure Smooth Teflon Tube Stainless Steel Braid

Meets SAE 100-R-5. Temp. Range Is (-) 100° F to (+) 500° F

Model# T 1167



For chemical, petroleum, air and hydraulics. Will handle vinyls, solvents, latex, paints, purified water, food stuffs and many more. Stainless steel braid and teflon tube means unlimited shelf life.

Lengths To 150 ft.

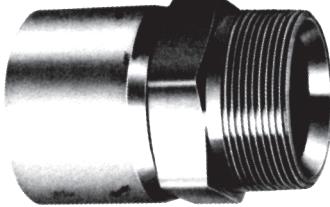
Couplings: See coupling section

For full size range and material.

*Minimum Bend Radius

SIZE ID	NOMINAL OD	RATED	APPROX WEIGHT	APPROX-MBR*
Inches	mm			
1/8	3.18			
3/16	4.76	.250	3000	.047
1/4	6.35	.312	7.938	.077
5/16	7.94	.375	9.525	.098
3/8	9.53	.445	11.303	.110
13/32	10.32	.503	12.776	.124
1/2	12.7	.549	13.945	.124
5/8	15.88	.648	16.459	.154
3/4	19.05	.778	19.761	.170
7/8	22.23	.885	22.479	.198
1	25.4	1.030	26.162	.273
11/16		1.135	28.829	.305

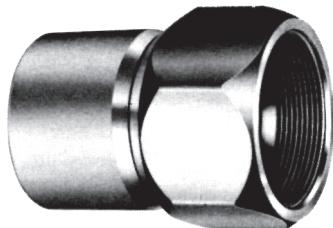
Fittings For Convoluted Transfer Hose



MALE PIPE

HOSE SIZE		THREAD	NOMINAL ID		OVERALL LENGTH		DEDUCT LENGTH	
Inches 1/2	mm 12.70	Inches 1/2-14	2- 1 1/2	1.305 1.755	33.147 44.577	4.00 4.70	101.60 119.38	2.50 3.30
3/4	19.05	3/4-14						
1	25.40	1-11/2						
1 1/4	31.75	1 1/4-	.404	10.262	2.70	68.58	1.50	38.10
1 1/2	38.10	1 1/2-	.630	16.002	2.70	68.58	1.60	40.64
2	50.80	1 1/2-	.848	21.539	2.90	73.66	1.80	45.72

Available In 316 Stainless Steel, Carbon Steel,
316 Stainless Steel With Carbon Steel Collar



FEMALE SWIVEL - JIC

HOSE SIZE		THREAD	NOMINAL ID		OVERALL LENGTH		DEDUCT LENGTH	
Inches 1/2	mm 12.70	Inches 3/4-16	2 1/2-12	1.755	44.577	4.10	104.14	2.60
3/4	19.05	1 1/16-						
1	25.40	12	.404	10.262	2.50	63.50	1.40	35.56
1 1/4	31.75	1 5/16-	.630	16.002	2.80	71.12	1.70	43.18
1 1/2	38.10	12	.848	21.539	3.00	76.20	1.90	48.26
2	50.80	1 5/8-12	1.068	27.127	3.60	91.44	2.10	53.34

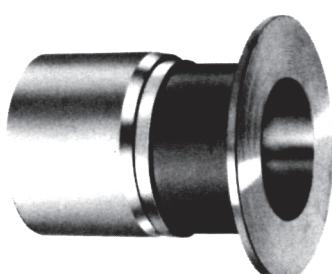
Available In 316 Stainless Steel, Carbon Steel,
316 Stainless Steel With Carbon Steel Collar



MALE PIPE - NO HEX

HOSE SIZE		THREAD	NOMINAL ID		OVERALL LENGTH		DEDUCT LENGTH	
Inches 1 1/2	mm 38.10	Inches 1 1/2- 1 1/2						
2	50.80	1.27						

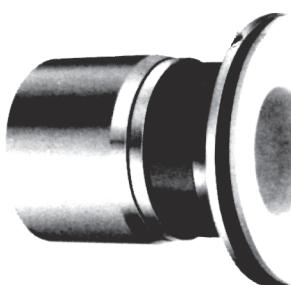
Available In 316 Stainless Steel, Carbon Steel,
316 Stainless Steel With Carbon Steel Collar



FLANGE RETAINER

HOSE SIZE		FACE DIAMETER	NOMINAL ID		OVERALL LENGTH		DEDUCT LENGTH	
Inches 1/2	mm 12.70	Inches 34.925						
3/4	19.05	1.375	42.850	.404	10.262	2.500	63.500	1.39
1	25.40	1.687	50.800	.630	16.002	2.768	70.307	1.64
1 1/4	31.75	2.000	63.500	.848	21.539	2.846	72.288	1.72
1 1/2	38.10	2.500	72.900	1.068	27.127	3.345	84.963	1.84
2	50.80	2.870		1.305	33.147	3.722	94.539	2.22

Available In 316 Stainless Steel and
316 Stainless Steel With Carbon Steel Collar



FLANGE RETAINER - TEFLON* LINED

HOSE SIZE		FACE DIAMETER	NOMINAL ID		OVERALL LENGTH		DEDUCT LENGTH	
Inches 1/2	mm 12.70	Inches 34.925						
3/4	19.05	1.375	42.850	.324	8.220	2.66	67.65	1.39
1	25.40	1.687	50.800	.550	13.970	2.92	74.16	1.64
1 1/4	31.75	2.000	63.500	.768	19.500	3.00	76.20	1.72
1 1/2	38.10	2.500	72.900	.988	25.090	3.50	88.90	1.84
2	50.80	2.870		1.225	31.110	3.88	98.55	2.22

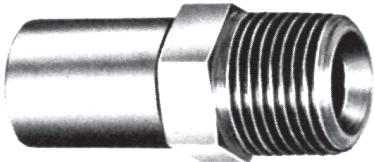
Available With .060 Wall, Teflon Lined

*A DuPont Registered TradeMark

64 Teflon Hose Fittings

Fittings For Smooth Bore Medium Pressure Hose

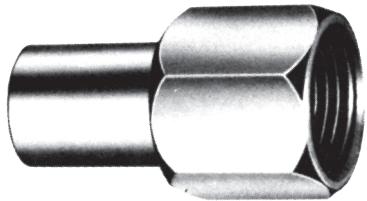
MALE PIPE



HOSE SIZE		THREAD	NOMINAL ID		OVERALL LENGTH		DEDUCT LENGTH	
Inches	mm	Inches	.095	2.413	1.150	29.210	.767	19.482
1/8	3.175	1/8-27	.156	3.962	1.255	31.877	.767	19.482
3/16	4.763	1/4-18	.156	3.962	1.472	37.389	.984	24.994
1/4	4.763	1/4-18	.207	5.258	1.472	37.389	.984	24.994
3/16	6.350	1/4-18	.277	7.036	1.602	40.691	.984	24.994
5/16	7.938	3/8-18	.277	7.036	1.632	41.453	1.014	25.756
5/16	7.938	3/8-18	.358	9.093	1.684	42.774	1.014	25.756
13/32	10.319	1/2-14	.358	9.093	1.932	49.073	1.262	32.055
13/32	10.319	1/2-14	.469	11.913	2.049	52.045	1.282	32.563
1/2	12.700	3/4-14	.594	15.088	2.214	56.236	1.374	34.900
5/8	15.875	1-1 1/2	.812	20.625	2.562	65.075	1.583	40.208
7/8	22.225							

Available In 304 Stainless Steel OR CA 360 Brass

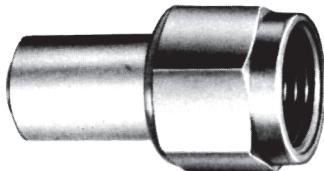
FEMALE SWIVEL PIPE - SAE/JIC



HOSE SIZE		THREAD	NOMINAL ID		OVERALL LENGTH		DEDUCT LENGTH	
Inches	mm	Inches	.277	7.036	1.185	30.099	.572	
1/8	3.175	3/8-	.358	9.039	1.300	33.020	.635	
3/16	4.763	24	.469	11.913	1.470	37.338	.708	
1/4	6.350	7/16-	.594	15.088	1.560	39.624	.725	
5/16	7.938	20	.812	20.625	1.750	44.450	.776	
13/32	10.391	1/2-						
1/2	12.700	20						
5/8	15.875	9/16-						
7/8	22.225	18						
		Inches	mm	Inches	mm	Inches	mm	

Available In 304 Stainless Steel OR CA 360 Brass

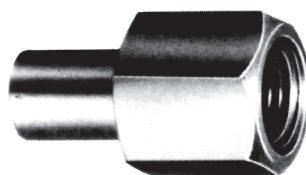
FEMALE SWIVEL - SAE/JIC



HOSE SIZE		THREAD	NOMINAL ID		OVERALL LENGTH		DEDUCT LENGTH	
Inches	mm	Inches	.277	7.036	1.185	30.099	.572	14.529
5/16	7.938	5/8-18	.277	7.036	1.185	30.099	.572	14.529
5/8	15.875	1 1/4-14	.594	15.088	1.560	39.624	.725	18.415

Available In 304 Stainless Steel OR CA 360 Brass

FEMALE PIPE



HOSE SIZE		THREAD	NOMINAL ID		OVERALL LENGTH		DEDUCT LENGTH	
Inches	mm	Inches	.207	5.250	1.42	36.06	.93	
1/4								

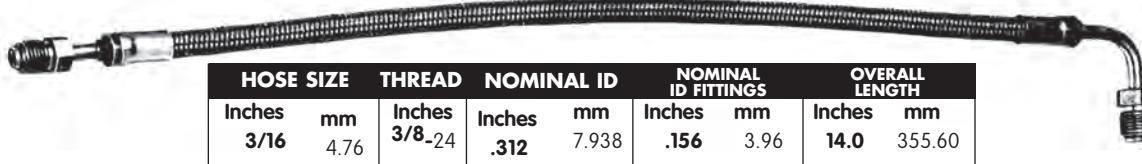
Available In 304 Stainless Steel Or CA 360 Bras

2-BOLT FLANGE

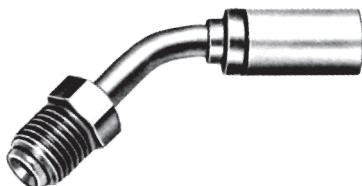


HOSE SIZE		BOLT HOLE LENGTH	NOMINAL ID		OVERALL LENGTH		DEDUCT LENGTH	
Inches	mm	Inches	.207	5.250	.98	24.98	.49	12.44
1/4	6.35	2.0	50.8	.207	5.250	.98	24.98	.49
3/16	7.94	2.0	50.8	.277	7.030	1.11	28.19	.50
5/8	15.88	2.0	50.8	.594	15.080	2.27	57.65	1.43
7/8	22.23	2.0	50.8	.812	20.620	2.45	62.23	1.47

Available In 3CA 360 Brass, Iron Flange

Marine Assembly And Fittings For Medium And High Pressure Hose**Power Trim Assembly - Marine Rated • Temperature Range (-) 100°F to 450°F**

Available in 304 Stainless Steel IN 90°, 45°, Straight Male Inverted Flare Fittings

Male Inverted Flare - 45° Elbow

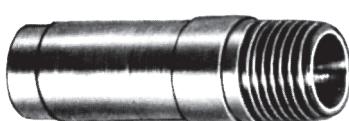
Available In 304 Stainless Steel

Male Inverted Flare - 90° Elbow

Available In 304 Stainless Steel

Male Inverted Flare - Straight

Available In 304 Stainless Steel

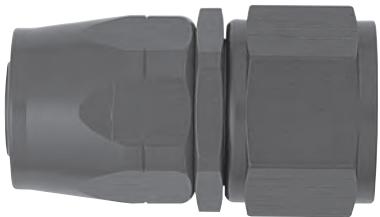
Fittings For Smooth Bore, High Pressure**Male Pipe - H.P.**

Available In 304 Stainless Steel

Female Swivel - JIC H. P.

Available In 304 Stainless Steel

Stocked in Tampa Location





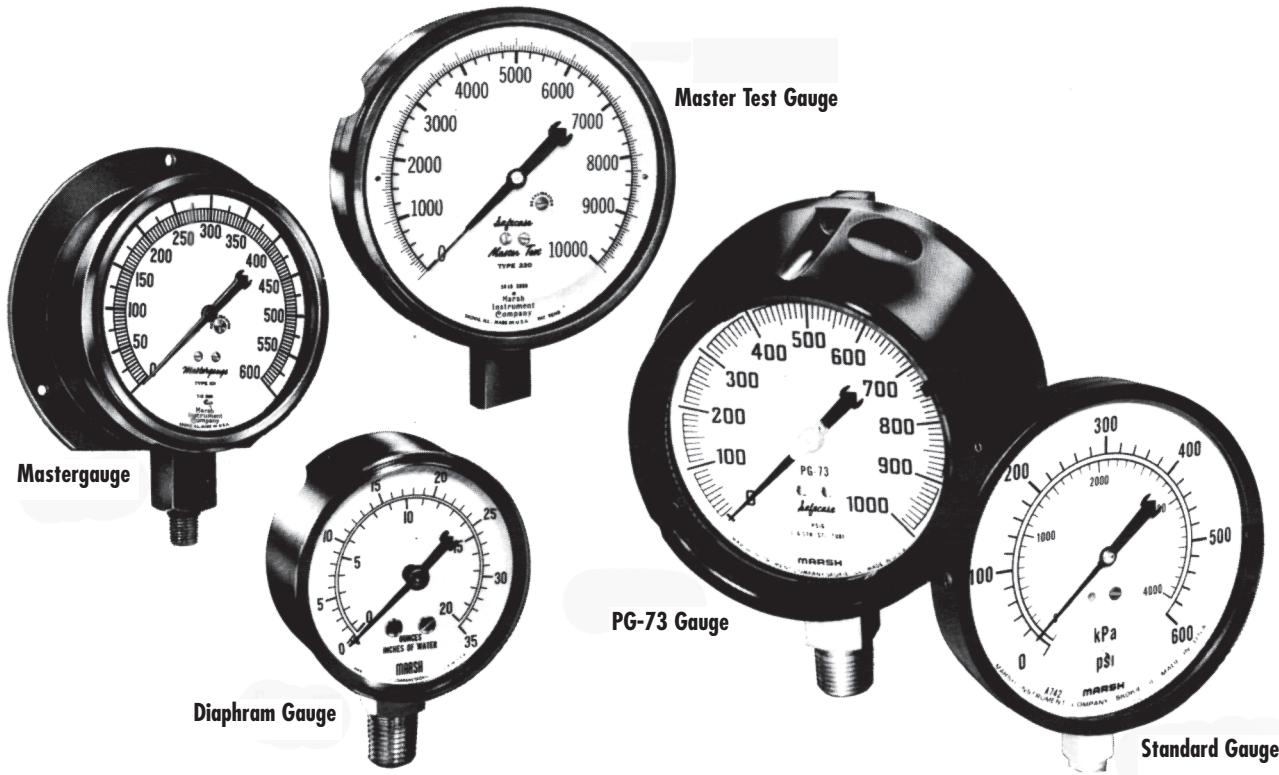
Liquid Filled Gauges		ACCURACY	RANGES	SIZES & CONNECTIONS	MATERIAL	
					TUBE	TIP & SOCKET
MASTER GAUGES	Stainless Steel	ANSI B40.1 Grade A $\pm 1\%$ of span in middle half of scale.	60 to 20,000 psi	$4\frac{1}{2}''$ $1\frac{1}{2}''$ N.P.T. male bottom.	Stainless Steel	Stainless Steel
	Alloy/Stainless Steel					
STANDARD GAUGES	PHENOLIC CASE Stainless Steel	ANSI B40.1 Grade B $\pm 2\%$ of span in middle half of scale.	30 to 1,000 psi	$2\frac{1}{2}''$ $1\frac{1}{4}''$ N.P.T. male bottom	Stainless Steel	Stainless Steel
	Copper Alloy High Pressure		1,000 to 5,000 psi	$2\frac{1}{2}''$ $1\frac{1}{4}''$ N.P.T. male bottom or center back.	Ni-Span-C	Copper Alloy
	Low Pressure		30 to 600 psi		Copper Alloy	Copper Alloy
	STAINLESS CASE Stainless Steel High Pressure	ANSI B40.1 Grade B $\pm 2\%$ of span in middle half of scale	1,500 to 5,000 psi	$2\frac{1}{2}''$ $1\frac{1}{4}''$ N.P.T. male bottom or center back.	Ni-Span-C	Stainless Steel
	Low Pressure		Cmpnd to 1,000 psi		Stainless Steel	Stainless Steel
	Copper Alloy High Pressure		1,000 to 5,000 psi	$2\frac{1}{2}''$ $1\frac{1}{4}''$ N.P.T. male bottom or center back	Ni-Span-C	Copper Alloy
	Low Pressure		Cmpnd. to 600 psi		Copper Alloy	Copper Alloy

Specifications subject to change without notice.

*4130 Alloy steel tube above 10,000 psi.

Glycerin filled gauges prove their economy over dry gauges through longer life. The glycerin protects against corrosion, dirt, and vibration. Glycerin gauges are not recommended for CHLORINE use or with STRONG oxidizing agents.

Size range of face: 2" through 6" diameter. Back or bottom mount, Male NPT, RANGE from full vacuum to 30,000 PSI.



Gauges		ACCURACY	RANGES	SIZES & CONNECTIONS	MATERIAL	
					TUBE	TIP & SOCKET
Test Gauges	Master Test Stainless Steel	ANSI B40.1 Grade 3A +/- 0.25% of span.	30" Vac. to 1,000 psi 30" Vac. to 30,000 psi 30" Vac. to 1,000 psi	4 ¹ / ₂ ", 6". 1 ¹ / ₄ ", or 1 ¹ / ₂ " N.P.T. male bottom or lower back	Stainless Steel	Stainless Steel
	Alloy/Stainless Steel				Stainless Steel*	Alloy Steel
	Copper Alloy				Copper Alloy	Copper Alloy
	Inspector's Test High Pressure	ANSI B40.1 Grade 2A +/- 0.5% of span.	1,000 psi	3" 1 ¹ / ₄ " N.P.T. male bottom	Alloy Steel	Copper Alloy
	Low Pressure		15 to 600 psi		Copper Alloy	Copper Alloy
Master-gauges	Monel+	ANSI B40.1 Grade 2A +/- 0.5% of span.	30" Vac. to 30,000 psi 30" Vac. to 1,000 psi	4 ¹ / ₂ ", 6". 1 ¹ / ₄ " or 1 ¹ / ₂ " N.P.T. male bottom or lower back	Monel+	Monel+
	Stainless Steel				Stainless Steel	Stainless Steel
	Alloy/Stainless				Stainless Steel**	Alloy Steel
	Copper Alloy				Copper Alloy	Copper Alloy
Process Gauges	Stainless Steel	ANSI B40.1 Grade 2A +/- 0.5% of span	30" Vac. to 1,000 psi	4 ¹ / ₂ ". 1 ¹ / ₄ " or 1 ¹ / ₂ " N.P.T. male bottom or lower back	Stainless Steel	Stainless Steel
	Alloy/Stainless Steel				Stainless Steel	Alloy Steel
	Copper Alloy				Copper Alloy	Copper Alloy
Quality Gauges	High Pressure	ANSI B40.1. Grade A +/- 1% of span in middle half of scale	1,000 to 20,000 psi	3 ¹ / ₂ ", 4 ¹ / ₂ ", 6" 1 ¹ / ₄ " or 1 ¹ / ₂ " N.P.T. male bottom or lower back	Alloy Steel	Alloy Steel
	Low Pressure		30" Vac. to 1,000 psi		Copper Alloy	Copper Alloy
Standard Gauges	High Pressure	ANSI B40.1. Grade B +/- 2% of span in middle half of scale	1,000 to 5,000 psi	1 ¹ / ₂ ", 2", 2 ¹ / ₂ ", 3 ¹ / ₂ ", 4 ¹ / ₂ " 1 ¹ / ₈ " or 1 ¹ / ₄ " N.P.T. male bottom or center back	Ni-Span-C	Copper Alloy
	Low Pressure		30" Vac. to 600 psi		Copper Alloy	Copper Alloy

Dry gauges for full vacuum to 30,000 PSI, from standard quality to test gauge quality. Size range of face: 1¹/₂" diameter through 6" diameter. Back or bottom mounts, male NPT.

Utility Boots



Men's 12" high

Men's 16" high

Women's 14" high

All boots 100% waterproof. Recommended for use in construction, fishing, agriculture, food processing industries and general manufacturing. Heavy gauge, but lightweight, vinyl construction with high level abrasion resistance. Boots are fully-lined.

Western Style - Brown - 12" high

Industrial Parka Rainsuit - PVC



Gloves



Rubber Gloves

Canvas Gloves

Heavy duty non-conductive rainwear. Jacket or coat with attached or unattached hood. Jacket with aluminum zipper closure or button snaps.

Underarm Vents

Snaps at Wrist

Two Large Pockets

Elastic Waist for Size Flexibility

Snaps at Ankles

Available in all sizes.

Colors: orange, yellow, olive drab



Slicker Complete Waterproof Protection



Men's Full Size 7-15
86050 - 16" Knee boot,
 Black//Black Sole

Bata's new FLEX-O-THANE® compound provides great cold weather flex and high chemical resistance. The non-absorbent polyester lining allows for hygienic cleansing of the boots interior.

Features:

- Non-conductive adjustable polyester strap with plastic buckle and snaps
- Excellent cold water weather flex
- Non-absorbent polyester lining
- Cleated outsoles with kick off lug
- Fits over most work shoes
 (When ordering, order by shoe size)

Excellent for use in the following:

- Aquaculture
- Utilities
- Municipalities

Standard General Use Boot



Excellent for use in muddy conditions where extreme chemical resistance is not required.

*Plain Toe Model# RPB
Steel Toe Model# RSB*

Features:

- Non-slip soles for safety
- Self-cleaning soles clean while walking
- Pull-up and kick off lugs
- Molded-in pant stay
- Removable, washable cushion insole
- footbed® insole available cushion insole
- Steel shank for safety (men's size only)
- Steel safety toe in selected styles

Excellent for use in the following:

- Construction
- General maintenance
- Utilities

Men's Full Size 4-13

86311 - 16" Plain Toe

86312 - 16" Steel Toe

Women's Full Size 4-11

56233 - 14" Plain Toe

White PVC Complete Waterproof Protection



Excellent for general use in wet, slippery conditions where extreme chemical resistance is not provided.

Model# RWB

Features:

- Nonslip soles for safety
- Pull-up and kick off lugs
- Molded-in pant stay
- Removable, washable cushion insole
- Footbed® insole available for added comfort
- Steel shank for safety (men's size only)
- Steel safety toe in selected styles

Excellent for use in the following:

- Commercial Fishing
- Shrimping
- Food Processing

Men's Full Size 4-13, White/White Safety-Lock Sole

81013 - 12" Plain Toe

Teflon & Viton Sheets Stocked 3 Ft. x 3 Ft., 1/16 - 1/18 - 1/4 Inches Thick

SRP
Red Sheet-Smooth
No Oil Resistance
Economy Grade
Cut Widths to 36"
An inexpensive utility compound used widely where economy must be considered.

Duro Meter Tensile PSI Elong %

75±5 400 200

	Available Thickness				
	1/16	1/8	3/16	1/4	3/8
Avg Ft / RL	67	36	36	18	11
Avg Lbs / RL	115	120	181	120	200

SNE
Neoprene Sheet-Smooth
Commercial Grade
Cut Widths to 36"
A competitive oil and weather resistant sheet

Duro Meter Tensile PSI Elong %

60±5 1000 250

	Available Thickness							
	1/16	1/8	3/16	1/4	3/8	1/2	3/4	1
Avg Ft / RL	100	50	40	40	30	30	30	30
Avg Lbs / RL	130	130	156	210	234	312	468	624

SGR
Pure Gum-Smooth
Float Stock
Cut Widths to 36"
High Flexibility & Resilience
High Abrasion & Cut Resistance

Duro Meter Tensile PSI Elong %

35±5 3200 600

	Available Thickness							
	1/64	1/16	1/8	3/16	1/4	5/16	3/8	1/2
Avg Ft / RL	180	100	50	30	25	19	16	12
Avg Lbs / RL	50	100	100	100	100	100	100	100

SWN
Food Grade-Smooth
White FDA
Cut Widths to 36"
Made with FDA approved ingredients for use with food.
Cleans with soap and water.

Duro Meter Tensile PSI Elong %

80±5 600 350

	Available Thickness						
	1/16	1/8	3/16	1/4	5/16	3/8	1/2
Avg Ft / RL	100	50	30	25	19	16	12
Avg Lbs / RL	140	140	140	140	140	140	140

SSI
Silicone-Red
Commercial Grade
Temp. Range (-) 65° F to 500° F
Cut Widths to 36"

Duro Meter Tensile PSI Elong %

60±5 N/A N/A

	Available Thickness			
	1/16	1/8	3/16	1/4
Avg Ft / RL	100	50	30	25
Avg Lbs / RL	150	150	150	150

SNI
Nitrile (Buna-N)
Oil & Gasoline Resistant
Cut Widths to 36"

Duro Meter Tensile PSI Elong %

60±5 N/A N/A

	Available Thickness			
	1/16	1/8	3/16	1/4
Avg Ft / RL	100	50	40	40
Avg Lbs / RL	130	130	156	210

SKIRT BOARD RUBBER - SBR Compound for High Abrasion Resistance.

Lubricants



Hydraulic Oil
AW-68



General Purpose Grease Gun

A hard working entry-level model with professional features. 2-way loading: 14oz. cartridge or suction. Durable finish. Includes 5-3/8" pipe and coupler. Develops up to 6,000 psi. Delivers 1.6 oz./40 strokes

Adhesives



Adhesive
AW-68

Technical Specifications

Colors: Clear, Black, White, Gray
Hardness: 75 to 85 Shore A
Elongation: 700%
Recovery at 300%: 95%
Temperature Range: -120°F to 210°F
Tensile Strength: 2,900 p.s.i.
Viscosity: Self Leveling
(various grades available)
Tack Free Time: 10 minutes (outer surface)
Cure time: 8 hours as a sealant—24 hours as
an adhesive at 70°F. Curing time may be affected
by temperature fluctuations. Material will cure faster at temper-
atures above 70°F and will cure slower at temperatures below
70°F.
Thinner and Cleaner: Eclesolv
Shelf Life (unopened tube): 5 years
Chemical Resistance: Excellent

Resistivity and Dielectric Properties

Surface Resistance: 3.7×10^9 ohms
Dielectric Constant Strength (ASTM D 149):
400 V/mil

Adhesion Data (Peel) (ASTM D 903)

Glass	34 p.l.i
Aluminum	32 p.l.i
Steel	34 p.l.i
Concrete	26 p.l.i
Fiberglass	34 p.l.i
PVC	31 p.l.i
Neoprene	32 p.l.i
Pine Wood	32 p.l.i
Brass	32 p.l.i
Polycarbonate	30 p.l.i

Note: Shear adhesion results on the above substrates range from 400 to 600 p.s.i.

E-6000 outperforms all other adhesives.

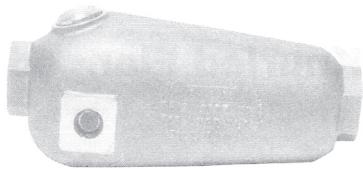
Peel Resistance of Cotton Tape Bonded To Various Substrates* (p.l.i.—Summary of Averages)

	Concrete	Glass	Wood	ABS	Lexan	PVC	Urethane
E-6000	26.8	33.7	32.2	31.4	35.8	30.9	43.8
Devcon Cement	2.0	1.0	5.4	15.1	2.3	0.4	13.2
Dow Silicone	15.3	13.6	9.8	9.9	13.4	2.0	11.7
Duro Cement	4.5	0.2	2.2	22.3	5.8	15.4	21.9
GE Silicone	3.8	13.3	3.2	1.4	0.2	0.4	2.6
Permatex	3.3	0.2	0.9	7.8	8.3	11.2	21.4
3M	6.8	17.7	20.5	17.9	15.7	15.0	11.0

Filters and Regulators



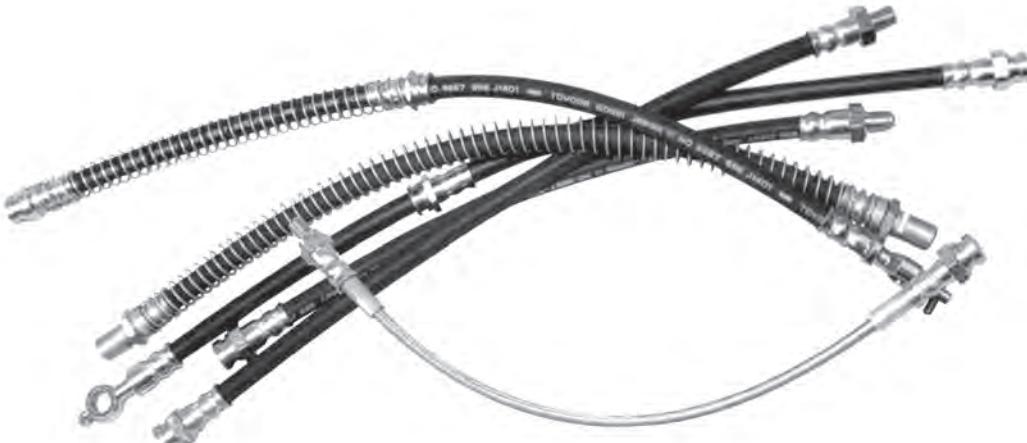
In-Line Lubricators



In-Line Lubricators

Designed to protect portable or stationary air tools by efficiently oiling the tool mechanisms. Each time an air tool is operated, a fine mist of oil is injected into it along with the air from the compressor. Installation is recommended within 25 feet of the tool to be lubricated. Refer to the arrow for proper air flow direction. Transparent sight disc allows visual inspection of oil level. Oil flow regulated by screwdriver screw adjustment. Not recommended for constant flow applications. For reciprocating tools only. Minimum flow rate is 30 SCFM.

Flexible Brake Assemblies



BRAKE HOSES CAN BE AN INVISIBLE SAFETY HAZARD

SOME FACTS ABOUT BRAKE HOSES:

- Any hydraulic brake and clutch to suit any type vehicle (In some cases a sample will be needed).
- All hoses comply to DOT Standard FMVSS106.
- Every hose is pressure tested to 3000 PSI.
- Original Equipment Quality.
- The average life of a brake hose is six years
- Brake hoses deteriorate from the inside as well as the outside
- Moisture is absorbed into brake fluid systems through brake hoses
- Contaminants in brake fluid act abrasively on the inner wall of brake hoses
- The brake hose reinforcing fabric deteriorates through expansion and moisture
- High operating temperatures in brake systems contribute to the deterioration of hoses
- Brake hoses swell with age and restrict flow

Generally all brake hoses on a vehicle deteriorate at the same rate...

ALL HOSES SHOULD BE REPLACED IF ONE IS FOUND TO BE FAULTY

Spring Retractable Reels 1/4" thru 1" up to 50 ft.**Model#
RSLP****Low Pressure**

SIZE ID	SIZE OD	Reel Capacity	Rated WP
Inches	Inches	Length in Ft.	PSI
1/2"	1/2"	60'	250
3/8"	21/32"	50'	250
3/8"	21/32"	60'	250
1/2"	27/32"	35'	250
1/2"	27/32"	40'	250
1/2"	27/32"	50'	250
3/4"	1 5/32"	25'	250

Medium Pressure**Model#
RSMP**

SIZE ID	SIZE OD	Reel Capacity	Rated WP
Inches	Inches	Length in Ft.	PSI
3/8"	5/8"	40'	3000
3/8"	5/8"	50'	3000
1/2"	3/4"	35'	2500
1/2"	3/4"	40'	2500
1/2"	3/4"	50'	2500

High Pressure**Model#
RSHP**

SIZE ID	SIZE OD	Reel Capacity	Rated WP
Inches	Inches	Length in Ft.	PSI
1/4"	17/32"	40'	5000
1/4"	17/32"	50'	5000
1/4"	17/32"	60'	5500
3/8"	43/64"	35'	4000
3/8"	43/64"	40'	4000
3/8"	43/64"	50'	4000

These heavy duty hose reels are built to outlast the toughest environments. Air, water, oils, lubricating fluids, heavy greases and solvents are effectively used with these models. Available with and without hose.

Features Include:

- Heavy duty 1/4" plate steel support post and mounting plate
- Double support points to the center shaft
- 1" oil-lite self-lubricating bearing
- Solid 1" steel center support shaft
- Full flow swivel joint
- Adjustable arm guide (wall, floor, ceiling and pit)
- Cartridge style spring motor
- 4 roller non-snag hose guide
- Eight position locking ratchet

Hand Crank Reels 1/4" thru 1 1/2" up to 300 ft.**Model#
RM****Features Include:**

- Discs: Heavy gauge steel with rolled edges to add strength and eliminate hose damage
- Rewind hand crank: Solid steel with a roller hand grip
- Solid frame: All steel
- 3000 psi
- Swivel joint: Permits reel to rotate smoothly while connected to the fluid source. Brass and steel are used as standard for swivel joint inlets. Stainless steel and other alloys can be supplied to meet special requirements.
- Bearing: Self-aligning pillow block bearings support the drum assembly
- Drum assembly: All steel
- Axle/riser assembly: Provides full flow through the internal plumbing

CHEMICAL RECOMMENDATIONS
By Courtesy of
The Rubber Manufacturers Association

The kinds of materials being handled by flexible rubber hose are constantly increasing in number and diversity. To assist in the selection of the proper elastomer for the service conditions encountered, the following table has been prepared. The reader is cautioned that it is only a guide and should be used as such as the degree of resistance of an elastomer with a particular fluid depends upon such variables as temperature, concentration, pressure, velocity of flow, duration of exposure, aeration, stability of the fluid, etc. Also variations in elastomer types and special compounding of stocks to meet specific service conditions have considerable influence on the results obtained. When in doubt, it is always advisable to test the tube compound under actual service conditions. If this is not practical, tests should be devised that simulate service conditions, or the hose manufacturer contracted for recommendations.

The following table lists the more commonly used materials, chemicals, solvents, oils, etc. The recommendations are based on room temperature and pressure conditions normally recommended for the particular type of hose being used. Where conditions beyond this can be readily met, they have been so indicated; where conditions are not normal and cannot be readily met, the hose manufacturer should always be consulted. The table does not imply conformance to the Food & Drug Administration requirements or Federal or State Laws when handling food products.

Table Of Chemical, Oil and Solvent Resistance of Hose

WARNING: The following data has been compiled from generally available sources and should not be relied upon without consulting and following the hose manufacturer's specific chemical recommendation. Neglecting to do so might result in failure of the hose to fulfill its intended purpose, and may result in possible damage to property and serious bodily injury.

Resistance-Rating

A – Good
F – Fair
C – Depends on Conditions
X – Unsuitable
T – No Data-Normally likely to be satisfactory

NR
IR
SBR
CR
NBR
IIR
CSM

Isoprene, natural rubber
 Isoprene, synthetic
 Styrene-butadiene, GRS
 Chloroprene, Neoprene
 Nitrile-butadiene, Buna-N
 Isobutene-isoprene, butyl
 Chloro-sufonylpolyethylene
 Polyethylene, hypalon

Elastomers

EPDM	Ethylene-propylene-diene terpolymer
FMQ	Dimethyl-polysiloxane
FPM	Fluorocarbon rubber, viton
CM	Chlorinated polyethylene
ECO/CO	Epichlorohydrin
XLPE	Cross-Linked polyethylene

Most Commonly Used Elastomers

Material	NR or IR	SBR	CR	NBR	IIR	CSM	EPDM	FMQ	FPM	CM	ECO CO	XLPE
(Maximum Temperature 100°F (38°C) Unless Otherwise Specified)												
Acetic Acid, Dilute, 10% .....	.F	C	C	C	A	C	A	A	X	A	F	A
Glacial .....	.C	X	X	F	C	F	F	X	A	X	X	A
Anthydride .....	.C	C	F	F	A	T	C	X	A	X	X	A
Acetone .....	.A	A	F	X	A	F	A	X	A	X	X	A
Acetylene .....	.A	A	F	A	A	F	A	C	T	T	T	A
Air	150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A
Aluminum Chloride	150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A
Aluminum Fluoride	150°F (65°C)	A	A	A	A	A	A	F			A	A
Aluminum Sulfate	150°F (65°C)	A	A	A	A	A	A	A	T	A	T	A
Alums	150°F (65°C)	A	A	A	A	A	A	A	A	A	T	A
Ammonia Gas .....	.A	A	A	A	A	A	A	A	X	A	T	A

Chemical Recommendations

Table of Chemical, Oil and Solvent Resistance of Hose

Material	NR or IR	Most Commonly Used Elastomers							Special Elastomers			
		SBR	CR	NBR	IIR	CSM	EPDM	FMQ	FPM	CM	ECO CO	XLPE
(Maximum Temperature 100°F (38°C) Unless Otherwise Specified)												
Ammonium Chloride	A	A	A	A	A	A	A	C	T	A	A	A
Ammonium Hydroxide	C	F	F	A	A	A	A	A	A	A	T	A
Ammonium Nitrate	A	A	A	A	A	A	A	A	T	T	A	A
Ammonium Phosphate, monobasic	A	A	A	A	A	A	A	A		A	T	A
dibasic	A	A	A	A	A	A	A	A		T	T	A
tribasic	A	A	A	A	A	A	A	A		T	T	A
Ammonium Sulfate	A	A	A	A	A	A	A	A	T	A	T	A
Amyl Acetate	F	X	X	X	F	X	A	A	X	C	T	X
Amyl Alcohol	A	A	A	A	A	A	A	A	A	A	A	A
Aniline, Aniline Oil	X	X	C	X	A	X	C	C	A	C	X	A
Aniline Dyes	F	F	F	F	A	F	C	C			T	A
Asphalt	X	X	F	F	X	F	X		A		A	X
Barium Chloride	150°F (65°C)	A	A	A	A	A	A	A		A	A	A
Barium Hydroxide	150°F (65°C)	A	A	A	A	A	A	A	T	A	A	A
Barium Sulfide	150°F (65°C)	A	A	A	A	A	A	A		T	A	A
Beer	A	A	A	A	A	A	A	A		T	A	A
Beet Sugar Liquors	A	A	A	A	A	A	A	A		T	T	A
Benzene, Benzol	X	X	X	C	X	X	X	C	A	C	T	A
Benzine, petroleum ether and Benzine, petroleum naphtha	X	X	C	F	X	F	X	C			T	A
Black Sulfate Liquor	A	A	A	A	A	A	A	A			T	A
Blast Furnace Gas	C	C	A	C	C	C	C	C	T		T	A
Borax	A	A	A	A	A	A	A	A	T	T	T	A
Boric Acid	A	A	A	A	A	A	A	A		T	A	A
Bromine	X	X	X	X	X	A	X	F	A	C	A	F
Butane	X	X	F	A	X	A	X	A	A	T	A	A
Butyl Acetate	C	X	X	X	F	X	A	F	A	X	A	X
Butyl alcohol, butanol	A	A	A	A	A	A	A	A	A	X	F	A
Calcium bisulfate	C	C	A	A	A	F	A	F	C	T	A	A
Calcium chloride	A	A	A	A	A	A	A	A	A	T	A	A
Calcium hydroxide	A	A	A	A	A	A	A	A	A	T	A	A
Calcium hypochlorite	X	X	X	X	A	A	F	A			A	F
Caliche liquors	A	A	A	A	A	A	A	A			A	A
Cane sugar liquors	A	A	A	A	A	A	A	A			A	A
Carbolic acid, phenol	C	C	C	C	C	C	C	A			A	A
Carbon dioxide, dry/wet	A	A	A	A	A	A	A	A			A	A
Carbon disulfide	X	X	X	X	X	X	X	C	A	A	C	A
Carbon monoxide	150°F (65°C)	C	C	C	C	C	F	C	A	T	T	A
Carbon tetrachloride	X	X	X	C	X	X	X	C	A	C	A	A
Castor oil	A	A	A	A	A	A	A	A	A	T	A	A
Cellosolve acetate	F	F	X	X	A	A	A	A	C	C	A	A
China wood oil, tung oil	X	X	F	A	A	F	A	A	A	C	T	A
Chlorine, dry/wet	X	X	X	X	X	X	X	X	A	X	X	F
Chlorinates solvents	X	X	X	X	X	X	X	C		C		A
Chloroacetic acid	X	C	C	C	X	A	T	C		X		A
Chlorosulfonic acid	X	X	C	C	X	X	X	C		X		F
Chromic Acid	X	X	X	X	C	A	T	C		A		F
Citric acid	A	A	A	F	A	A	A	A	A	T	A	A
Coke oven gas	C	C	C	C	C	A	A	A	A	X	A	C
Copper chloride	150°F (65°C)	C	A	F	A	A	F	A	A	T	A	A
Copper sulfate	150°F (65°C)	C	A	A	F	A	F	A	A	T	A	A
Corn oil	X	C	F	A	A	A	F	C	A	A	A	A
Cottonseed oil	X	C	F	A	A	F	C	C	A	A	A	A
Creosote, coal tar wood	X	X	F	A	X	F	X	C	C	F		A
Creosols, cresylic acid	C	X	X	C	C	C	F	X	X	F	A	A
Ethers	C	C	C	C	C	C	F	X	X	X		A
Ethyl acetate	F	X	X	X	X	F	X	F	X	F		A

Table of Chemical, Oil and Solvent Resistance of Hose

Material	NR or IR	Most Commonly Used Elastomers						Special Elastomers				
		SBR	CR	NBR	IIR	CSM	EPDM	FMQ	FPM	CM	ECO CO	XLPE
(Maximum Temperature 100°F (38°) Unless Otherwise Specified)												
Ethyl alcohol	A	A	A	A	A	A	A	A	A	A	A	A
Ethyl cellulose	F	F	F	F	F	A	F	C	F	F	A	A
Ethyl chloride	A	F	F	X	A	F	A	C	F	F	F	A
Ethylene glycol	A	A	A	A	A	A	A	A	A	A	A	A
Ferric chloride	150°F (65°C)	A	A	A	A	A	A	A	T	A	A	A
Ferric Sulfate	150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A
Formaldehyde	A	A	C	A	A	A	A	A	A	A	F	F
Formic acid	A	A	C	F	A	A	A	A	X	A	F	F
Freon #12 (liquid)	X	X	A	F	F	F	F	X	A	A	A	A
Fuel oil	X	X	F	A	X	F	X	C	T	F	F	A
Furfural	X	C	C	X	A	F	C	C	X	A	X	A
Gasoline, Non Leaded	X	X	X	A	X	X	X	A	A	C	A	A
Gasoline, Reg. Leaded	X	X	X	A	X	X	X	C	A	C	A	A
Hi Test-Leaded	X	X	X	A	X	X	X	C	A	C	A	F
Gelatin	A	A	A	A	A	A	A	A	A	A	A	A
Glucose	A	A	A	A	A	A	A	A	A	A	A	A
Glue	F	F	A	A	F	A	A	A	A	A	A	A
Glycerine, glycerol	A	A	A	A	A	A	A	A	A	A	A	A
Green sulfate liquor	A	A	A	A	A	A	A	A	A	A	A	A
Hydraulic fluids												
Petroleum	X	X	A	A	X	F	X	X		A	A	A
Phosphate ester alkyl	X	X	C	X	A	X	A	C		C	X	X
Phosphate ester aryl	X	X	X	X	C	X	X	C		C	C	C
Phostate ester blends	X	X	X	X	X	X	X	C		C	C	C
Silicate ester	X	X	C	C	X	C	X	X		C	C	C
Water-Glycol	A	A	A	A	A	A	A	A		A	A	A
Hydrobromic acid	C	X	C	C	A	A	A	C		A	A	T
Hydrochloric acid	A	X	X	X	C	C	A	C		A	A	A
Hydrocyanic acid	F	F	C	F	C	C	A	C		T	A	A
Hydrofluoric acid	X	X	X	X	C	A	A	C		A	A	A
Hydrofluosilicic	A	F	F	F	A	A	A	A		A	A	T
Hydrogen gas	F	F	F	A	A	C	A	A		A	A	A
Hydrogen peroxide	X	X	C	C	C	C	C	C		T	A	A
Hydrogen sulfide, dry	C	C	F	C	A	A	A	C		T	F	A
wet	C	C	F	C	A	A	A	C		A	A	A
Kerosene	X	X	F	X	A	X	C	X		A	A	A
Lacquers	X	X	X	X	X	C	X	X		X	F	X
Lacquers solvents	X	X	X	X	X	C	X	X		T	A	X
Lactic acid	C	C	C	C	C	C	A	C		A	A	A
Linseed oil	C	X	F	A	A	A	A	A		A	A	A
Lubricating oil, crude	X	X	F	A	A	X	C	X		A	A	A
refined	X	X	F	A	A	X	C	X		A	A	A
Magnesium chloride	150°F (65°C)	A	A	A	A	A	A	A		T	A	A
Magnesium hydroxide	150°F (65°C)	A	F	F	A	A	A	A		T	A	A
Magnesium sulfate	150°F (65°C)	A	A	A	A	A	A	A		A	T	A
Mercuric Chloride	F	F	C	F	A	A	A	A		T	A	A
Mercury	A	A	A	A	A	A	A	A		T	A	A
Methyl alcohol, methanol	A	A	A	A	A	A	A	A		C	A	A
Methyl chloride	C	C	C	C	C	C	X	C		X	F	A
Methyl ethyl ketone	X	X	X	X	X	F	C	A		C	X	A
Methyl Isopropyl Ketone	X	X	X	X	F	C	C	C		X	F	A
Milk	C	C	F	F	A	X	F	A		A	A	A
Mineral oils	X	C	F	A	A	X	F	X		T	A	A
Natural gas	C	C	A	A	A	C	A	X		A	A	A
Nickel chloride	150°F (65°C)	A	A	A	A	A	A	A		A	A	A
Nickel sulfate	150°F (65°C)	A	A	A	A	A	A	A		A	T	A
Nitric acid, crude	X	X	X	X	X	C	C	X		A	X	X
Diluted 10%	X	X	C	X	X	C	A	X		C	F	F
Concentrated 70%	X	X	X	X	X	C	C	X		X	X	X
Nitrobenzene	X	X	X	X	X	X	X	X		C	C	A



Table of Chemical, Oil and Solvent Resistance of Hose

Material	NR or IR	Most Commonly Used Elastomers							Special Elastomers			ECO CO	XPLE
		SBR	CR	NBR	IIR	CSM	EPDM	FMQ	FPM	CM			
(Maximum Temperature 100°F (38°) Unless Otherwise Specified)													
Oleic acid	X	F	C	F	F	F	F	A	T	A		A	
Oleum spirits	X	C	C	C	A	A	T	C	C	A		T	A
Oxalic acid	F	C	F	F	A	A	A	A				F	A
Oxygen	F	C	A	C	A	A	A	C				F	A
Palmitic acid	X	F	A	A	F	F	F	C	T	A		F	A
Perchloroethylene	X	X	X	C	X	X	X	C				F	A
Petroleum oils and crude	200°F (95°C)	X	X	F	A	X	X	C				A	A
Phosphoric Acid, crude	A	C	C	C	C	A	C	C				A	A
pure 45%	A	C	C	C	C	A	C	C				A	A
Picric acid, molten	C	C	C	C	C		T					T	
water solution	A	C	F	F	A	A	A	A	T			A	
Potassium chloride	A	A	A	A	A	A	A	A	A	A		A	
Potassium cyanide	A	A	A	A	A	A	A	A	A	A		A	
Potassium hydroxide	F	F	C	C	A	A	A	A	T	A		A	
Potassium sulfate	A	A	A	A	A	A	A	A	A	A		A	
Propane	X	X	F	A	X	F	X	A		A		A	
Sewage	C	C	F	A	C	A	C	A		A		T	A
Soap solutions	A	A	F	A	A	A	A	A	T	A		A	
Soda ash, sodium carbonate	A	A	A	A	A	A	A	A		A		A	
Sodium bicarbonate, baking soda	A	A	A	A	A	A	A	A		A		A	
Sodium bisulfate	A	A	A	A	A	A	A	A		A		A	
Sodium chloride	A	A	A	A	A	A	A	A		A		A	
Sodium cyanide	A	A	A	A	A	A	A	A		A		A	
Sodium hydroxide	F	F	C	C	A	C	A	A		A		F	A
Sodium hypochlorite	X	X	X	X	A	F	A	A	T	A		F	
Sodium metaphosphate	A	A	C	A	A	F	A	A		A		T	A
Sodium nitrate	C	C	C	C	A	A	A	A		A		A	
Sodium perborate	C	C	C	C	A	A	A	A		A		A	
Sodium peroxide	C	C	C	C	A	A	A	A		A		A	
Sodium phosphate, monobasic	A	F	C	F	A	A	A	A		A		A	
dibasic	A	F	C	F	A	A	A	A		A		A	
tribasic	A	F	C	F	A	A	A	A		A		A	
Sodium silicate	A	A	A	A	A	A	A	A		A		T	A
Sodium sulfate	A	A	A	A	A	A	A	A		A		A	
Sodium sulfide	A	A	A	A	A	A	A	A		A		T	A
Sodium thiosulfate, "hypo"	A	A	A	A	A	A	A	A		A		T	A
Soybean oil	X	C	F	A	A	A	A	A		A		T	A
Stannic chloride	A	A	A	A	A	A	A	A		A		X	A
Steam	450°F (230°C)	C	C	C	C	C	C	F	T	T		X	X
Stearic acid	X	X	C	F	F	F	C	F	T			F	A
Sulfur	F	F	A	F	A	A	A	A				C	
Sulfur chloride	X	X	C	C	C	C	C	A				T	
Sulfur dioxide, dry	C	C	C	C	C	C	C	C				T	
Sulfur trioxide, dry	X	C	C	C	C	C	C	A				T	
Sulfuric acid, 10%	A	A	A	A	A	A	A	A		A		A	
11%-75%	C	C	C	C	C	F	A	C				F	
76%-95%	X	X	X	X	X	X	X	X				X	
fuming	X	X	X	X	X	X	X	X				X	
Sulfurous acid	C	C	C	C	C	C	C	A				C	
Tannic acid	A	C	A	C	C	A	A	A				T	
Tar	X	X	C	C	C	X	C	X				F	
Tartaric acid	A	C	C	C	C	F	A	X				X	
Toluene, toluol	X	X	X	X	X	X	X	X				X	
Trichloroethylene	X	X	X	X	X	X	X	X				X	
Turpentine	X	X	X	X	F	X	X	X				X	
Vinegar	C	C	C	C	A	A	A	A				A	
Water, acid mine	A	A	C	A	A	A	A	A				T	
Water, fresh	A	A	C	A	A	A	A	A				A	
distilled	A	A	C	A	A	A	A	A				A	
Whiskey and wines	A	A	A	C	A	A	A	A				A	
Xylene, xylol	X	X	X	C	X	X	X	X				X	
Zinc chloride	C	C	C	C	A	A	A	A				T	
Zinc sulfate	A	A	A	A	A	A	A	A				T	

Table of Corrosion Resistance of Coupling Materials**Corrosion Resistance of Coupling Materials
By Courtesy of The Rubber Manufacturers Association**

CAUTION: The following data has been compiled from generally available sources and should not be relied upon without consulting and following the specific recommendations of the manufacturer regarding particular coupling materials.

RATINGS: 1. Excellent 2. Good 3. Fair or conditional x. Not satisfactory
NOTE: No rating indicates no data available

AGENT	Mall. Iron Steel	Brass	Bronze	Aluminum	Glass	Stainless 410, 416, 430	Stainless 302, 303, 304, 308	Stainless 316	Monel
Acetate, Solvents, Crude		3				2	—	—	2
Acetate, Solvents, Pure		1	1	1		1	1	1	1
Acetic Acid	X	X	X	2	1	X	2	2	2
Acetic Acid Vapors	X	X		3		X	2	2	3
Acetic Anhydride	X	X		2		X	2	2	2
Acetone	1	1	1	1	1	1	1	1	1
Acetylene	1	2		1		1	1	1	2
Alcohols	1	2		1		1	1	1	2
Aluminum Sulfate	X		3	3	1	X	3	2	2
Alums	X	3	2	3	1	X	3	2	2
Ammonia Gas	1	X	3	1	3	1	1	1	X
Ammonium Chloride	1	3		1		3	3	1	1
Ammonium Hydroxide	2	X		2		1	1	1	3
Ammonium Nitrate	1	X		2		1	1	1	3
Ammonium Phosphate (Ammoniacal)		X				1	1	1	3
Ammonium Phosphate (Neutral)		3				1	1	1	2
Ammonium Phosphate (Acid)		3				3	2	1	2
Ammonium Sulfate	1	3				2	1	1	2
Asphalt	1	2				2	1	1	1
Beer	2	2	1	1		X	1	1	1
Beet Sugar Liquors	1	2				2	1	1	1
Benzene, Benzol	1	1				1	1	1	1
Benzine (petroleum-naphtha)	1	1				1	1	1	1
Borax	2	2				1	1	1	1
Boric Acid	X	3				3	2	1	1
Butane, Butylene	1	1	1	1	1	1	1	1	1
Butadiene		1				1	1	1	1
Calcium Bisulphite		X				X	2	1	x
Calcium Hypochlorite	3	3	3	X	3	X	3	2	3
Cane Sugar Liquors	1	2		1		2	1	1	1
Carbon Dioxide (Dry)	1	1				1	1	1	1
Carbon Dioxide (Wet & Aqueous Sol)	2	3		2		2	1	1	2
Carbon Disulfide	2	3		2		2	1	1	3
Carbon Tetrachloride	3	1	2	3	1	1	1	1	1
Chlorine (Dry)	2	2	2	1	2	2	2	2	2
Chlorine (Wet)	X	X	3	X	2	X	3	2	3
Chromic Acid		X	X	X	1	3	2	2	3
Citric Acid	X	3			1	3	X	1	2
Coke Oven Gas	1	3			2	1	1	1	2
Copper Sulfate	X	X			X	1	1	1	3
Core Oils		1		1		1	1	1	1
Cottonseed Oil	1	1		1	1	1	1	1	1
Creosote	2	3			1	1	1	1	1
Ethers	2	1				1	1	1	1
Ethylene Glycol	2	2				1	1	1	1
Ferric Chloride	X	X	X		X	X	X	X	X
Ferric Sulfate	X	X			X	1	1	1	3
Formaldehyde	2	2			2	1	1	1	1
Formic Acid	X	2			X	X	2	1	2
Freon	3	1		1	1	1	1	1	1
Furfural		2				1	1	1	1
Gasoline (Sour)	3	3			3	3	1	1	X
Gasoline (Refined)	1	1	1	1	1	1	1	1	1
Gelatin	1	3			1	1	1	1	1
Glucose	1	1			1	1	1	1	1
Glue	1	3			1	1	1	1	1
Glycerine or Glycerol	1	2			1	1	1	1	1
Hydrochloric Acid	X	X	X		X	1	X	X	X
Hydrocyanic Acid	3	X			1	3	1	1	2
Hydrofluoric Acid	X	3	3	X	X	X	X	X	1
Hydrogen Fluoride		3				X	X	X	3
Hydrogen	1	1			1	1	1	1	1
Hydrogen Peroxide	X	X			1	1	2	1	2
Hydrogen Sulfide (Dry)	3	3		2	2	3	2	1	2



Corrosion Resistance

AGENT	Mall. Iron Steel	Brass	Bronze	Aluminum	Glass	Stainless 410, 416, 430	Stainless 302, 303, 304, 308	Stainless 316	Monel
Hydrogen Sulfide (Wet)	3	3		2		3		2	3
Lacquers and Lacquer Solvents	3	2		1		1		1	1
Lactic Acid	X			3			3	2	1
Lime-Sulfur	2	X				2	1	1	2
Linseed Oil	1	1				3	2	1	1
Magnesium Chloride	3	3		X		1	1	1	1
Magnesium Hydroxide	1	2		X		1	1	1	1
Magnesium Sulfate	2	2		3		X	1	1	1
Mercuric Chloride	3	X		X		1	X	3	X
Mercury	1	X		X		1	1	1	2
Milk	3	3		1		2	1	1	3
Molasses	2	X		2		2	1	1	1
Natural Gas	1	2		1		1	1	1	1
Nickel Chloride		X		X		X	3	2	2
Nickel Sulfate		3		X		3	2	1	1
Nitric Acid	X	X	X	3	1	2	2	2	X
Oleic Acid	2	3		1		2	2	1	1
Oxalic Acid	3	3		2		3	2	1	1
Oxygen	1	1	1	1		1	1	1	1
Palmitic Acid	1	3		1		2	2	1	1
Petroleum Oils (Sour)		3				3	1	1	X
Petroleum Oils (Refined)	1	1		1		1	1	1	1
Phosphoric Acid – 25%	3	X		3		X	3	1	2
Phosphoric Acid – 25-50%	X	X		X		X	X	2	2
Phosphoric Acid – 50-85%	X	X		X		X	X	2	2
Picric Acid	3	X		3		2	1	1	X
Potassium Chloride	2	3		3		3	2	1	1
Potassium Hydroxide	3	X		X		1	1	1	1
Potassium Sulfate	2	2		1		1	1	1	1
Propane	1	1				1	1	1	1
Rosin (Dark)	1	2				1	1	1	1
Rosin (Light)		X				1	1	1	2
Shellac		2				1	1	1	1
Sludge Acid		X				X	X	3	2
Soda Ash (Sodium Carbonate)	1	2				1	1	1	1
Sodium Bicarbonate	3	1				1	1	1	1
Sodium Bisulfate	X	3				X	1	1	1
Sodium Chloride	2	3		2		3	2	1	1
Sodium Cyanide	2	X				1	1	1	2
Sodium Hydroxide	3	X		3		X	2	2	1
Sodium Hypochlorite	X	X				X	3	2	3
Sodium Metaphosphate	X	3				2	1	1	1
Sodium Nitrate	1	3				1	1	1	1
Sodium Perborate	3	3				1	1	1	1
Sodium Peroxide	3	3				1	1	1	1
Sodium Phosphate							1	1	1
(Alkaline)			3				1	1	1
(Neutral)			2				1	2	1
(Acid)			2				X	1	1
Sodium Silicate	1	3				X	1	1	1
Sodium Sulfate	1	2				3	1	1	1
Sodium Sulfide	1	X					1	1	2
Sodium Thiosulfate (Hypo)	3	X				X	1	1	2
Stearic Acid	3	3				3	2	1	1
Sulfate Liquors		X					1	1	2
Sulfur	2	X				2	2	2	3
Sulfur Chloride	X	X				X	3	2	2
Sulfur Dioxide (Dry)	2	1				1	1	1	1
Sulfur Dioxide (Wet)		X				X	2	1	X
Sulfuric Acid – 10%	X	X		3		3	X	2	2
Sulfuric Acid – 10-75%	X	X		X		X	X	X	2
Sulfuric Acid – 75-95%	3	X		X		X	3	3	3
Sulfuric Acid – 95%	2	X		X			2	2	X
Sulfurous Acid	X	X				X	X	3	2
Tannic Acid	3	3		1		X	1	1	1
Tar	1	2					2	1	1
Toluene, Toluol	1	1				1	1	1	1
Trichlorethylene	3	1				3	1	1	1
Turpentine		3				1	3	1	1
Varnish	2	2					1	1	1
Vegetable Oils	1	2					1	1	1
Vinegar	3	3				3	3	2	2
Water (Acid Mine Water)	3	X				3	2	1	3
Water (Fresh)	3	1				1	1	1	1
Water (Salt)	3	3		2		X	3	2	1
Whiskey	X	2					3	1	2
Wines	X	2					3	1	2
Xylene, Xylol	2	1					1	1	1
Zinc Chloride	X	X				X	3	2	1
Zinc Sulfate	3	3				3	3	2	1

Friction Loss of Pressure in Air Hose (Pulsating Pressure Flow)

By Courtesy of The Rubber Manufacturers Association

I.D. of Hose	Gauge Pressure	CUBIC FEET AIR PER MINUTE THROUGH 100 FT. HOSE LINES										130	140	150
		40	50	60	70	80	90	100	110	120	LOSS OF PRESSURE IN LBS. PER SQ. INCH.			
1/2" Hose (Coupled)	50	20.2	36.2											
	60	16.8	29.6	46.8										
	70	14.0	24.8	40.0	56.8									
	80	12.0	21.6	34.8	50.4	69.2								
	90	10.8	19.0	29.6	44.0	61.0	82.0							
	100	9.6	16.8	26.6	38.6	54.4	73.3							
	110	8.6	15.2	24.0	35.2	49.2	66.6	89.0						
3/4" Hose (Coupled)	50	3.0	4.8	7.0	8.8	13.0	17.0	22.8	28.4					
	60	2.4	3.8	5.6	7.6	10.4	13.6	17.2	22.4	28.2				
	70	1.8	3.0	4.6	6.4	8.4	11.0	14.0	17.6	22.0				
	80	1.6	2.6	3.8	5.6	7.2	9.4	11.6	14.4	17.6	21.2			
	90	1.4	2.2	3.2	4.6	6.2	8.0	10.0	12.4	15.0	18.0	21.6		
	100	1.2	2.0	2.8	4.0	5.4	7.0	8.8	10.8	13.2	15.8	18.8	22.2	
	110	1.0	1.8	2.6	3.6	4.8	6.2	7.8	9.8	11.8	14.2	16.8	19.8	
1" Hose (Coupled)	50	0.6	1.0	1.6	2.2	3.0	4.0	5.2	7.0	9.6	14.0			
	60	0.6	0.8	1.2	1.6	2.4	3.0	4.0	5.2	6.6	8.2	11.0	14.4	
	70	0.4	0.8	1.0	1.4	2.0	2.6	3.2	4.0	5.0	6.2	7.6	9.4	
	80	0.4	0.6	1.0	1.4	1.6	2.2	2.8	3.4	4.0	4.8	5.4	7.0	
	90	0.4	0.6	0.8	1.2	1.4	1.8	2.4	2.8	3.4	4.0	4.8	5.6	
	100	0.4	0.4	0.8	1.0	1.2	1.6	2.0	2.4	3.0	3.6	4.2	4.8	
	110	0.4	0.4	0.6	0.8	1.2	1.4	1.8	2.2	2.6	3.0	3.6	4.2	
1 1/4" Hose (Coupled)	50		0.4	0.4	0.6	0.8	1.0	1.4	2.0					
	60		0.2	0.4	0.6	0.6	1.0	1.2	1.6	2.0	2.4	3.0		
	70			0.4	0.4	0.6	0.8	0.8	1.2	1.4	1.6	2.0	2.6	
	80			0.2	0.4	0.4	0.6	0.8	1.0	1.2	1.4	1.6	2.0	
	90				0.4	0.4	0.6	0.6	0.8	1.0	1.2	1.4	1.6	
	100				0.2	0.4	0.4	0.6	0.8	0.8	1.0	1.2	1.4	
	110				0.2	0.4	0.4	0.6	0.6	0.8	1.0	1.0	1.2	
1 1/2" Hose (Coupled)	50					0.4	0.4	0.6	0.8	0.8	1.0	1.2		
	60					0.2	0.4	0.4	0.4	0.6	0.6	0.8	1.0	
	70						0.2	0.4	0.4	0.6	0.6	0.6	0.8	
	80							0.2	0.4	0.4	0.4	0.6	0.8	
	90								0.2	0.4	0.4	0.4	0.6	
	100									0.4	0.4	0.4	0.4	
	110									0.4	0.4	0.4	0.4	

Water Discharge Straight-Smooth Bore

FLOW OF WATER THROUGH 100 FOOT HOSE LENGTHS • U.S. GALLONS PER MINUTE

PSI at Hose Inlet	Nominal Hose Diameter - Inches										6	8
	1/2	5/8	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4		
20	4	8	12	26	47	76	161	290	468	997	2895	6169
30	5	9	15	32	58	94	200	360	582	1240	3603	7679
40	6	11	18	38	68	110	234	421	680	1449	4209	8970
50	7	12	20	43	77	124	264	475	767	1635	4748	10118
60	8	14	22	47	85	137	291	524	846	1804	5239	11165
75	9	15	25	53	95	154	329	591	955	2035	5910	12595
100	10	18	29	62	112	180	384	690	1115	2377	6904	14712
125	11	20	33	70	126	203	433	779	1258	2681	7788	16595
150	12	22	36	77	139	224	478	859	1388	2958	8593	18313
200	15	26	42	90	162	262	558	1004	1621	3455	10038	21390

Figures are to be used as a guide since the hose inside diameter tolerance, the type of fittings used, and orifice restrictions all influence the actual discharge. Thus, variations plus or minus from the table may be obtained in actual service.

Useful Tables

Friction Loss in Water Hose Straight-Smooth Bore

By Courtesy of The Rubber Manufacturers Association
POUNDS PER SQUARE INCH PER 100 FOOT LENGTHS HOSE

Flow of Water in U.S. Gal. Per Minute	ACTUAL INTERNAL DIAMETER - INCHES													
	1/2	5/8	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10
1	1.41													
2	5.09	1.72	0.71											
5	27.7	9.36	3.85	0.95	0.32	0.13								
10	100	33.7	13.9	3.42	1.15	0.47	0.12							
15		71.4	29.4	7.24	2.44	1.00	0.25	0.08						
20		122	50.0	12.3	4.16	1.71	0.42	0.14						
25			75.6	18.6	6.28	2.59	0.64	0.21						
30			106	26.1	8.80	3.62	0.89	0.30	0.12					
35			141	34.7	11.7	4.82	1.19	0.40	0.16					
40				44.4	15.0	6.17	1.52	0.51	0.21					
45				55.3	18.6	7.67	1.89	0.64	0.26					
50				67.1	22.7	9.32	2.30	0.77	0.32					
60				94.1	31.7	13.1	3.22	1.09	0.45					
70				125	42.2	17.4	4.28	1.44	0.59					
80					54.0	22.2	5.48	1.85	0.76					
90					67.2	27.7	6.81	2.30	0.95	0.23				
100					81.7	33.6	8.28	2.79	1.15	0.28				
125					123	50.8	12.5	4.22	1.74	0.43				
150						71.1	17.5	5.91	2.43	0.60	0.20			
175						94.6	23.3	7.86	3.24	0.80	0.27			
200						121	29.8	10.1	4.14	1.02	0.34			
225							37.1	12.5	5.15	1.27	0.43			
250							45.1	15.2	6.26	1.54	0.52			
275							53.8	18.1	7.47	1.84	0.62			
300							63.2	21.3	8.77	2.16	0.73	0.30		
350							84.0	28.3	11.7	2.87	0.97	0.40		
400							108	36.3	14.9	3.68	1.24	0.51		
450								45.1	18.6	4.57	1.54	0.64		
500								54.8	22.6	5.56	1.88	0.77	0.19	
600								76.8	31.6	7.79	2.63	1.08	0.27	
700								102	42.1	10.4	3.49	1.44	0.35	0.12
800								131	53.8	13.3	4.47	1.84	0.45	0.15
1000									81.4	20.0	6.76	2.78	0.69	0.23
1200									114	28.1	9.47	3.90	0.96	0.32
1400									152	37.3	12.6	5.18	1.28	0.43
1600										47.8	16.1	6.64	1.64	0.55
1800										59.5	20.0	8.25	2.03	0.69
2000										72.2	24.4	10.0	2.47	0.83
2500											36.8	15.2	3.73	1.26
3000											51.6	21.2	5.23	1.76
														0.73

To convert PSI to Megapascals (MPa) multiply by 0.006895

To convert from PSI to feet of Hydraulic Head multiply by 2.309

To convert from U.S. gallons per minute to cubic feet per minute multiply by 0.1337

To convert from U.S. gallons per minute to cubic meters per second multiply by 6.309×10^{-5} .

NOTE: Friction loss can vary by 20% due to temperature. Bends can increase friction loss by 50%.

C value is the Hazen-Williams coefficient; smaller values must be used for rougher tube surfaces

where: ΔP = pressure loss in lbs. per square inch

Q = quantity in U.S. gallons per minute

L = 140 for clean, extremely smooth bore and straight hose

L = length of hose in feet

d = inside diameter of hose in inches

A Statement of Our Sales Policies

Terms

Net 30 days for accounts approved by our credit department. We reserve the right to withhold shipment to accounts with unpaid balances exceeding 30 days, or, alternatively, to require C.O.D. payment for new purchases until such time as the account is no longer delinquent and credit is re-approved.

Freight

All shipments are F.O.B. point of shipment.

Prices

All prices quoted are subject to change without notice and are omitted from this catalog due to the price volatility of the thousands of items we carry.

Taxes

Applicable sales taxes will be charged on all orders unless we have customer's exemption certificate on file.

Warranty

All merchandise is guaranteed against defects in material and workmanship. Merchandise believed to be defective must be authorized for return and must be return prepaid. Freight charges will be refunded if credit is allowed against warranty.

ALL CREDIT TO BE ISSUED AGAINST DEFECTIVE MATERIAL MUST BE AUTHORIZED BY THE MANUFACTURER.

Returned Goods

Prior approval is required before any merchandise can be returned. All returns must be accompanied by the invoice. Return of non-defective material, or material ordered incorrectly, may be subject to a 15% restocking charge.

Cut and/or assembled hose ordered incorrectly may not be returnable as the sale of such cut or fabricated material may negate its resale value.

Cancellations

On material not yet in process, no charge will be imposed. On material in process, a cancellation charge may be imposed. Orders for special non-stock materials cannot be cancelled without our permission. All such requests will be made to our manufacturers, and only on their approval can such cancellation be made.

Technical Data

Various tables and charts are included in this catalog. We offer these as guides and assume no responsibility for their accuracy.

Inventory

Some items are not stocked at all of our locations and may take a day or two longer to get to you.

Also, some items are not stocked even by our suppliers. In this case a minimum ordering quantity may be required.

Special Orders

We may require a firm non-cancellable order, plus a deposit to be determined at time of order.

Glossary

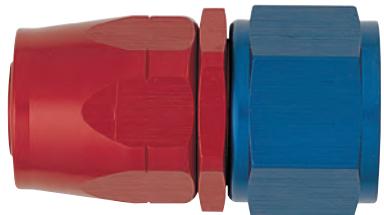
	A
A.N.S.I.	<i>American National Standards Institution, Inc.</i>
API Thread	<i>American Petroleum Institution Thread</i>
A.S.T.M.	<i>American Society for Testing and Materials</i>
	B
B.S.P.P.	<i>British Standard Pipe Parallel thread</i>
B.S.P.Tr.	<i>British Standard Pipe Taper thread</i>
Braid	<i>A continuous sleeve of interwoven single or multiple strands of material. In hose construction, these strands are usually textile or metal.</i>
Burst Pressure	<i>The pressure at which rupture occurs.</i>
	C
Carcass	<i>The fabric, cord and/or metal reinforcing section of hose as distinguished from the tube or cover.</i>
Cold Flow	<i>Continued deformation or movement under stress.</i>
Conductive	<i>Rubber designed to transmit electrical current; conducting static electricity.</i>
Compression Set	<i>The deformation which remains in rubber after it has been subjected to, and released from, stress such as a clamp. The longer the stress is maintained the more defined the deformation.</i>
Corrugated Hose	<i>Hose with an exterior that is radially or helically grooved to enhance flexibility and/or reduce weight.</i>
Coupling	<i>A devise at the end, or ends, of a length of hose that allows a connection to be made.</i>
Coupling Joint	<i>This leakproof connection is achieved by fastening together the mating surfaces of two couplings. The leakproof seal is obtained by any one of these methods:</i> <ul style="list-style-type: none"> 1. Washer seal 2. Mechanical seal 3. Thread seal
Cover	<i>The outermost part of the hose. The main purpose for the hose cover is to protect the hose reinforcement from physical and environmental abuse. Covers can have materials (rubber compounds) that are blended to produce characteristics such as ozone resistance, abrasion resistance or oil resistance.</i>
	D
	Date Code
	<i>Any combination of letters, numbers or symbols to identify the time of manufacturer.</i>
	Durometer
	Durometer Hardness
	<i>An instrument for measuring the hardness of rubber.</i>
	<i>A numerical value which indicates the resistance to indentation of the blunt indentor of the durometer.</i>
	F
	Ferrule
	<i>A collar placed over a hose end to attach the fitting to the hose. The ferrule may be crimped or swaged, forcing the hose against the shank of the coupling, or the shank may be expanded, forcing the hose out against the ferrule, or both.</i>
	G
	GHT
	<i>Garden Hose Thread.</i>
	H
	Helix
	<i>A wire or other reinforcement material spiraled around the cylindrical body of a hose.</i>
	Hose
	<i>A flexible conduit consisting of a tube, reinforcement and usually an outer cover.</i>
	Hose Assembly
	<i>A length of hose with a coupling attached to one or both ends.</i>
	I
	I.D.
	I.P.T.
	<i>Inside Diameter</i>
	<i>Iron Pipe Thread. Also known as N.P.T.: National Pipe Taper Thread.</i>
	Impulse
	<i>An application of force in a manner that produces sudden strain or motion such as pressure spikes.</i>
	L
	L.P.G.
	<i>Liquefied Petroleum Gas.</i>
	M
	Media
	<i>Any material being transported through a hose.</i>
	N
	N.H.
	N.P.S.
	<i>Fire hose thread</i>
	<i>American Standard Straight Pipe Thread For Free Mechanical Joints.</i>
	N.P.S.M.
	<i>Same as N.P.S.</i>
	N.S.T.
	<i>Same as N.H.</i>

Glossary

O.D.	O <i>Outside Diameter</i>	Torque	T <i>Amount of force required to turn an object. Usually measured in inch pounds (in. lbs.) or foot pounds (ft. lbs.)</i>
Operating Pressure	<i>The pressure at which a system functions. Also known as Working Pressure.</i>	Tube	<i>The inner most part of the hose that contains the media being transported. Usually, rubber compounds or plastics are blended to give the tube specific properties so that it is compatible with certain medias.</i>
P.S.I.	P <i>Pounds per square inch.</i>	U.N.	U <i>Unified National (Constant Pitch) thread</i>
P.S.I.G.	<i>Pounds per square inch gauge.</i>	U.N.C.	<i>Unified National Coarse thread</i>
Permanent Fitting	<i>The type of fitting which, after it is applied, cannot be removed for reuse.</i>	U.N.F.	<i>Unified National Fine Thread</i>
Polymer	<i>A macromolecular material formed by a chemical combination of monomers having the same or different chemical composition.</i>	Viscosity	V <i>A material's resistance to flow under pressure.</i>
R.M.A.	R <i>Rubber Manufacturers' Association.</i>	W.O.G.	W <i>Water, Oil, Gas pressure rating for valves handling these media. This does not include steam.</i>
Reinforcement	<i>The center part of the hose that gives it strength. The hose working pressure is dependent upon the type (or types) of reinforcement and the amount used in the hose construction.</i> <i>Reinforcement types are as follows:</i> <i>Wire Braid</i> <i>Helical Wire</i> <i>Textile Wire</i> <i>Wire Spiral</i> <i>Textile Spiral</i>	W.P.	<i>Working Pressure</i>
Reusable Fitting	<i>The type of fitting that is designed to be removed from a hose and recoupled on another hose.</i>		<i>The maximum pressure to which a hose assembly will be subjected, including pressure surges.</i>
Safety Factor	S <i>A ratio used to establish the working pressure of a hose based upon the burst pressure.</i> <i>Typical safety factors are as follows:</i> 1. Water hose up to 150 psi WP: 3 to 1 2. Hose for all other liquids, solid materials suspended in liquids or air and water hose over 150 psi WP: 4 to 1 3. Hose for compressed air and other gases: 4 to 1 4. Hose for liquid media that immediately changes into gas under standard atmosphere conditions: 5 to 1 5. Steam hose: 10 to 1		
Skive	<i>To remove or cut away part of the hose cover exposing the reinforcement, to permit the attachment of a coupling directly over.</i>		

Notes

Stocked in Tampa Location



Approved
ake Lines (250 PSI Oper. Press)
12 Sizes)



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HOSE & RUBBER COMPANY

1625 West Princeton St.
Orlando, Florida 32804

N TUBE

3/16	31/64	H213-4
1/4	35/64	H213-5
5/16	39/64	H213-6
13/32	47/64	H213-8
1/2	53/64	H213-10
5/8	61/64	H213-12
7/8	113/64	H213-16

Series Steel Hose Ends

Hose I.D.	Tube Size	Catalog No.
3/16	1/8	21304N-102
3/16	1/4	21304N-104
1/4	1/4	21305N-104
5/16	3/8	21306N-106
13/32	1/2	21308N-108
1/2	1/2	21310N-108
5/8	3/4	21312N-112
7/8	1	21316N-116

SAE 37° (JIC)
FEMALE SWIVEL

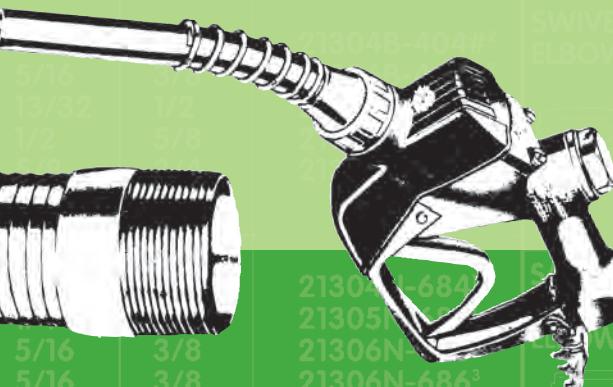


SAE 45° FLARE
FEMALE SWIVEL

BRASS



21316N-X



100R7)

COVER, NON-CONDUCTIVE

100R7)

COVER, PERFORATED BRAIDED NYLON



THANE COVER

NYLON TUBE

www.AmazonHose.com

Hose I.D. Ins.	Hose O.D. Ins.	Catalog Number
1/4	29/64	H436-4
5/16	9/16	H436-5
3/8	5/8	H436-6
1/2	13/16	H436-8
3/4	11/16	H436-12
1	13/8	H436-16 (or H435)

Hose I.D.	MIAMI Catalog
S	1001 Northwest 159th Dr. Miami Gardens, Florida 33169

Phone: 305-356-7258
Fax: 305-356-7308

Hose I.D.	ORLANDO Catalog
1/4	43604N-104

FEMALE SWIVEL	TAMPA Catalog
3/16	43604N-606 (3)
3/16	43604N-605
3/16	43604N-604

SAE 37° (JIC) FEMALE SWIVEL
SAE 45° TUBE