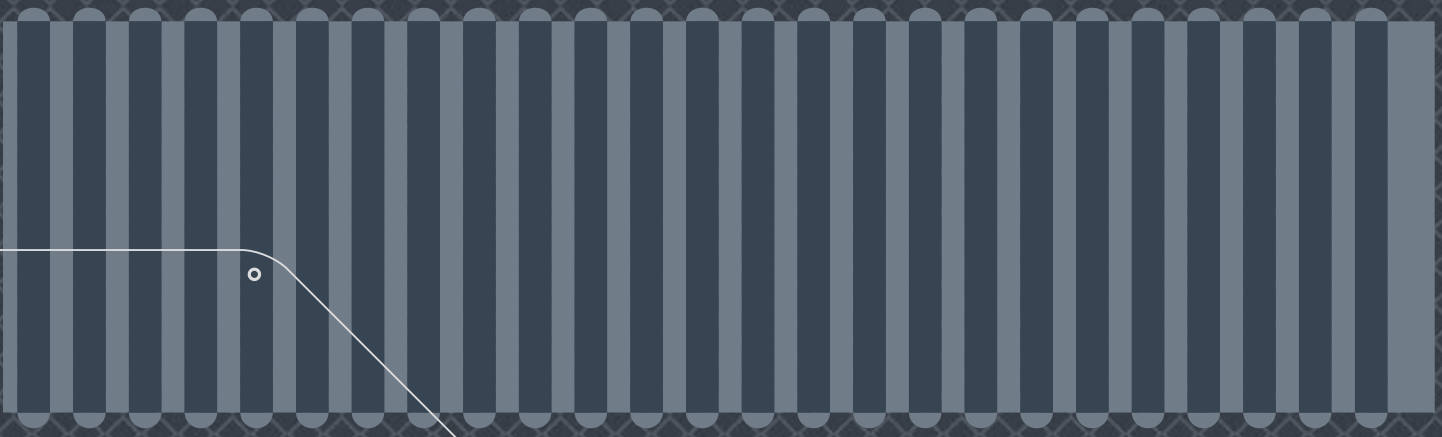
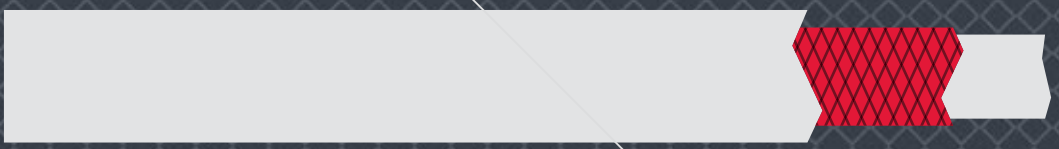
APACHE
Think *Forward.*





HOSE & ACCESSORIES CATALOG

Agricultural, Consumer, and Industrial Products

ISO 9001:2008

HOSE

We are Apache ... an organization owned and run by hard-working people dedicated to helping you succeed. Our goal is to work as your partner to add value to your bottom line. Whether it's providing a product off the shelf or developing a custom solution, we're committed to delivering the best quality products and service – anytime and anywhere.

After more than 50 years in business, we've grown from a small Midwestern distributor to a highly driven, global organization providing the hoses, belts, and cut and molded rubber products that keep your business moving forward. We source solutions from around the globe, which means we always stay on top of growing trends and new products.

As a 100% employee-owned company, we also have the distinct advantage that each and very employee is directly tied to the success of our business. Pride of ownership and pride in a job well done go into everything we do.

It's for these reasons and more that Apache can claim some of the lowest return rates in the industry. And that means more profit, and less headache, for you.

QUALITY
FROM BURST TESTS TO TENSION CHECKS, YOU CAN BE CONFIDENT THAT EVERY PRODUCT FROM OUR ISO-CERTIFIED FACILITIES WILL MEET THE ROUGHEST STANDARDS OF ALL – YOUR CUSTOMER'S.

TOUGH
OUR HOSES CAN TAKE THE PRESSURE. THEY'RE MADE OF HIGH-GRADE POLYMERS AND RUBBER WITH HIGH QUALITY COUPLINGS TO ENSURE MAXIMUM STRENGTH AND SAFETY.

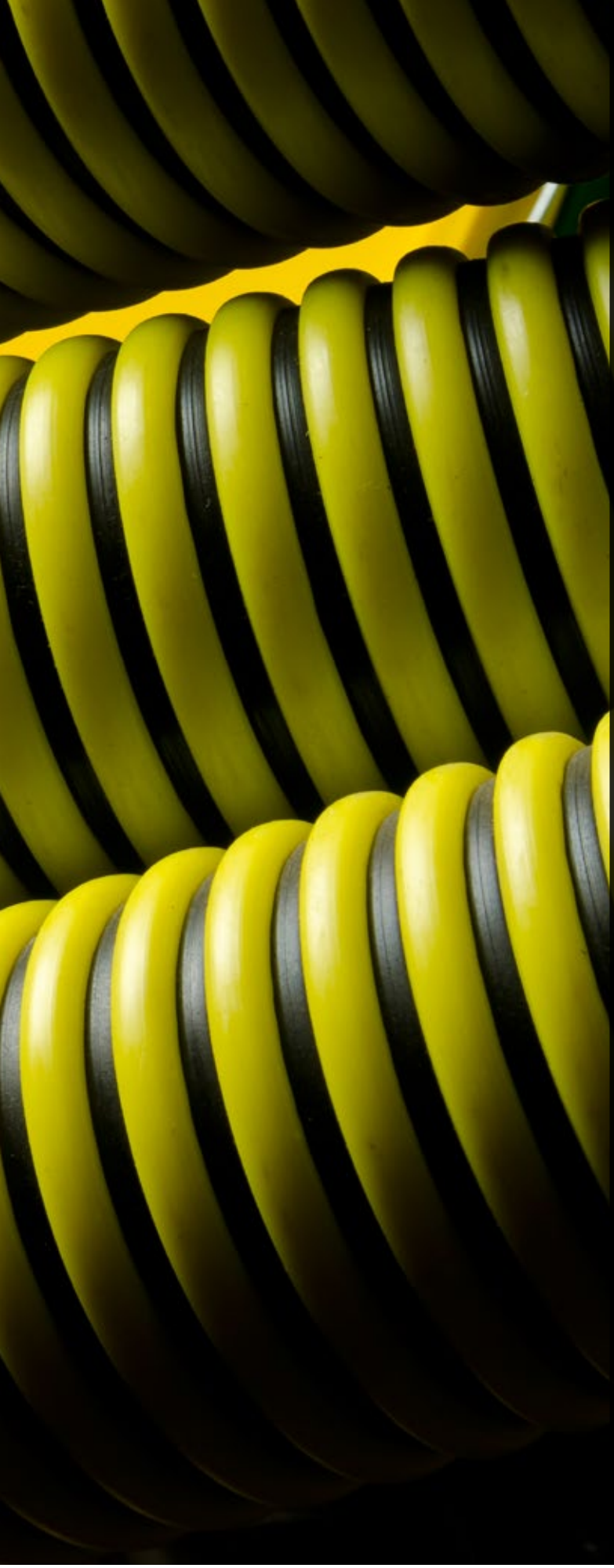
PROVEN
REGARDLESS OF WHETHER PRODUCTS COME FROM ACROSS THE STREET OR HALFWAY AROUND THE WORLD, NO PRODUCT EARNS THE RIGHT TO BE CALLED APACHE UNTIL IT'S BEEN TESTED TO ENSURE IT MEETS OUR RIGOROUS STANDARDS.

SERVICE
ONE LEAKING HOSE CAN BRING THINGS TO A HALT. WHEN STAKES ARE HIGH WE HAVE PRODUCT TO GET THINGS UP AND RUNNING.

AT APACHE, WE KNOW THE COST OF DOWNTIME AFFECTS YOUR BOTTOM LINE, THAT'S WHY WE'RE COMMITTED TO PROVIDING PRODUCTS THAT SIMPLY WORK.

Apache is a partner you can count on we use our experience in a range of industries to bring new ideas, new innovations, and new solutions. And it shows. We build our products tough and smart. Which means they can handle the toughest challenges, and strengthen your business.

We are is proud to be a participating distributor in the NAHAD Listed Members Program. As a NAHAD member, Apache utilizes and follows the association hose assembly guidelines to ensure safer and higher-quality assemblies. That's just one more reason why Apache is the premier provider of hose products.



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PRODUCT DIRECTORY

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Methylene

FEP = Fluorinated Ethylene Propylene

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Male Metric X Female Pipe Thread	

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DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Methylene

FEP = Fluorinated Ethylene Propylene

FPT = Female Pipe Thread

MPT = Male Pipe Thread

PTFE = Polytetra fluoroethylene

PVC = Poly Vinyl Chloride

SBR = Styrene Butadiene Rubber

SMBR = Static Minimum Bend Radius

NBR =Nitrile Butadiene Rubber (Buna-N)

GHT = Garden Hose Thread

FNPT = Female National Pipe Thread

MSHA = Mine, Safety, and Health Administration

NPSM = National Pipe Straight Mechanical

UFD = Urethane Flexible Ducting??

EVA = Ethyl Vinyl Acetate

CM = Chlorinated Polyethylene

HB = Hose Bend

NFPA = National Fire Protection Agency

UHMW = Ultra High Molecular Weight

RMA = Rubber Manufacturers Association

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AIR / WATER / MULTIPURPOSE HOSE & ACCESSORIES

200 PSI MULTIPURPOSE (AG 200) – BULK/UNCOUPLED

Versatile general purpose hose which is excellent for air, water, and many agricultural chemicals including LASSO® herbicide. The EPDM tube and cover resists heat, sunlight, ozone, and weathering. Its RMA Class C tube makes it suitable for oil mist lubricating air lines
Do not use for transferring petroleum products.

- Tube/Cover Material: EPDM
- Reinforcement: Spiral Textile Cord
- Max PSI: 200 (2" is only 150 PSI)
- Temperature: -40°F to 212°F
- Standard Reel: 500'

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	COVER COLOR	STANDARD REEL	WEIGHT (LBS/FT)	U/M
2 SPIRAL REINFORCEMENT									
10031600	1/4	6.4	0.5	12.7	2.5	Black	500'	0.09	FT
10031620	3/8	9.5	0.63	16	3.5	Black	500'	0.14	FT
10031630	1/2	12.7	0.813	20.64	4.5	Black	500'	0.21	FT
10031640	5/8	15.9	0.88	22.35	5.5	Black	500'	0.24	FT
10031650	3/4	19.1	1.125	28.58	6	Black	500'	0.32	FT
10031660	1	25.4	1.391	35.32	7	Black	500'	0.44	FT
10028300	1/4	6.4	0.5	12.7	2.5	Red	500'	0.09	FT
10028320	3/8	9.5	0.63	16	3.5	Red	500'	0.14	FT
10028330	1/2	12.7	0.813	20.64	4.5	Red	500'	0.21	FT
10028340	5/8	15.9	0.88	22.35	5.5	Red	500'	0.24	FT
10028350	3/4	19.1	1.125	28.58	6	Red	500'	0.32	FT
10028360	1	25.4	1.391	35.32	7	Red	500'	0.44	FT
4 SPIRAL REINFORCEMENT									
10040507	1-1/4	31.75	1.78	45.21	8.75	Black	250'	0.77	FT
10041007	1-1/2	38.1	2.03	51.56	10	Black	200'	0.86	FT
10041011	2	50.8	2.5	63.5	14	Black	300'	1.08	FT
10035007	1-1/4	31.8	1.78	45.21	8.8	Red	250'	0.78	FT
10035503	1-1/2	38.1	2.03	51.56	10	Red	200'	0.91	FT
10035506	2	50.8	2.5	63.5	14	Red	300'	1.08	FT

200 PSI MULTIPURPOSE (AG 200) – UPS SIZE REELS

Versatile general purpose hose which is excellent for air, water, and many agricultural chemicals including LASSO® herbicide. The EPDM tube and cover resists heat, sunlight, ozone, and weathering. Its RMA Class C tube makes it suitable for oil mist lubricating air lines
Do not use for transferring petroleum products.

- Tube/Cover Material: EPDM
- Reinforcement: Spiral Textile Cord
- Max PSI: 200
- Temperature: -40°F to 212°F
- Cover Color: Black

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	STANDARD REEL	WEIGHT (LBS)	U/M
98109016	1/4	6.4	0.5	12.7	2.5	150'	0.09	FT
10031663	1/4	6.4	0.5	12.7	2.5	400'	0.09	FT
98109018	3/8	9.5	0.63	16	3.5	100'	0.14	FT
10031664	3/8	9.5	0.63	16	3.5	400'	0.14	FT
10031665	1/2	12.7	0.81	20.64	4.5	250'	0.21	FT
10031666	5/8	15.9	0.88	22.35	5.5	225'	0.24	FT
10031667	3/4	19.1	1.13	28.58	6	150'	0.32	FT
10031668	1	25.4	1.39	35.32	7	125'	0.44	FT

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Monomer

200 PSI MULTIPURPOSE (AG 200) – BOXED

Versatile general purpose hose which is excellent for air, water, and many agricultural chemicals including LASSO® herbicide. The EPDM tube and cover resists heat, sunlight, ozone, and weathering. Its RMA Class C tube makes it suitable for oil mist lubricating air lines
Do not use for transferring petroleum products.

- Tube/Cover Material: EPDM
- Max PSI: 200
- Cover Color: Black
- Reinforcement: Spiral Textile Cord
- Temperature: -40°F to 212°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	COVER COLOR	STANDARD BOX	WEIGHT (LBS)	U/M
2 SPIRAL REINFORCEMENT									
10031800	1/4	6.4	0.5	12.7	2.5	Black	100'	9	BOX
10031820	3/8	9.5	0.63	16	3.5	Black	100'	14	BOX
10031830	1/2	12.7	0.81	20.64	4.5	Black	100'	21	BOX
10031840	5/8	15.9	0.88	22.35	5.5	Black	100'	24	BOX
10031850	3/4	19.1	1.13	28.58	6	Black	100'	32	BOX
10031860	1	25.4	1.39	35.32	7	Black	100'	44	BOX
4 SPIRAL REINFORCEMENT									
10041119	1-1/4	31.75	1.78	45.21	8.75	Black	10'	77.1	BOX
10041120	1-1/2	38.1	2.03	51.56	10	Black	25'	86.1	BOX

200 PSI MULTIPURPOSE (AG 200) – SHRINK-WRAP PACKAGED COILS

Versatile general purpose hose which is excellent for air, water, and many agricultural chemicals including LASSO® herbicide. The EPDM tube and cover resists heat, sunlight, ozone, and weathering. Its RMA Class C tube makes it suitable for oil mist lubricating air lines.
Do not use for transferring petroleum products.

- Tube/Cover Material: EPDM
- Max PSI: 200
- Cover Color: Black
- Reinforcement: Spiral Textile Cord
- Temperature: -40°F to 212°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	COIL LENGTH	WEIGHT (LBS)	U/M
2 SPIRAL REINFORCEMENT								
10031548	1/4	6.4	0.5	12.7	2.5	10'	0.9	EA
10031560	1/4	6.4	0.5	12.7	2.5	25'	2.3	EA
10031574	1/4	6.4	0.5	12.7	2.5	50'	4.5	EA
10031550	3/8	9.5	0.63	16	3.5	10'	1.4	EA
10031562	3/8	9.5	0.63	16	3.5	25'	3.5	EA
10031576	3/8	9.5	0.63	16	3.5	50'	7	EA
10031552	1/2	12.7	0.81	20.64	4.5	10'	2.1	EA
10031564	1/2	12.7	0.81	20.64	4.5	25'	5.3	EA
10031578	1/2	12.7	0.81	20.64	4.5	50'	10.5	EA
10031553	5/8	15.9	0.88	22.35	5.5	10'	2.4	EA
10031566	5/8	15.9	0.88	22.35	5.5	25'	6	EA
10031580	5/8	15.9	0.88	22.35	5.5	50'	12	EA
10031554	3/4	19.1	1.13	28.58	6	10'	3.2	EA
10031568	3/4	19.1	1.13	28.58	6	25'	8	EA
10031582	3/4	19.1	1.13	28.58	6	50'	16	EA
10031556	1	25.4	1.39	35.32	7	10'	4.4	EA
10031570	1	25.4	1.39	35.32	7	25'	11	EA
10031584	1	25.4	1.39	35.32	7	50'	22	EA
4 SPIRAL REINFORCEMENT								
10040520	1-1/4	31.75	1.78	45.21	8.75	10'	7.8	EA
10040522	1-1/4	31.75	1.78	45.21	8.75	25'	19.35	EA
10040524	1-1/4	31.75	1.78	45.21	8.75	50'	38.55	EA
10040528	1-1/2	38.1	2.03	51.56	10	10'	8.7	EA
10040530	1-1/2	38.1	2.03	51.56	10	25'	21.6	EA
10040532	1-1/2	38.1	2.03	51.56	10	50'	43.05	EA

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Monomer

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Monome

300 PSI MULTIPURPOSE (AG 300) – BULK UNCOUPLED

Versatile general purpose hose which is excellent for air, water, and many agricultural chemicals including LASSO® herbicide. The EPDM tube and cover resists heat, sunlight, ozone, and weathering. Its RMA Class C tube makes it suitable for oil mist lubricating air lines.
Do not use for transferring petroleum products.

- Tube/Cover Material: EPDM
- Reinforcement: Spiral Textile Cord
- Max PSI: 300
- Temperature: -40°F to 212°F
- Standard Reel: 500'

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	COVER COLOR	STANDARD REEL	WEIGHT (LBS)	U/M
2 SPIRAL REINFORCEMENT									
10031700	1/4	6.4	0.56	14.29	3.3	Black	500'	0.12	FT
10031720	3/8	9.5	0.72	18.29	4	Black	500'	0.17	FT
10035600	1/4	6.4	0.56	14.29	3.3	Red	500'	0.12	FT
10035620	3/8	9.5	0.72	18.29	4	Red	500'	0.17	FT
4 SPIRAL REINFORCEMENT									
10031730	1/2	12.7	0.84	21.43	5	Black	500'	0.25	FT
10031740	5/8	15.9	1.06	26.97	5.5	Black	500'	0.3	FT
10031750	3/4	19.1	1.16	29.37	6	Black	500'	0.37	FT
10031760	1	25.4	1.39	35.32	8	Black	500'	0.53	FT
10035630	1/2	12.7	0.84	21.43	5	Red	500'	0.25	FT
10035640	5/8	15.9	1.06	26.97	5.5	Red	500'	0.3	FT
10035650	3/4	19.1	1.16	29.37	6	Red	500'	0.37	FT
10035660	1	25.4	1.39	35.32	8	Red	500'	0.53	FT

300 PSI MULTIPURPOSE (AG 300) – UPS SIZE REELS

Versatile general purpose hose which is excellent for air, water, and many agricultural chemicals including LASSO® herbicide. The EPDM tube and cover resists heat, sunlight, ozone, and weathering. Its RMA Class C tube makes it suitable for oil mist lubricating air lines.
Do not use for transferring petroleum products.

- Tube/Cover Material: EPDM
- Reinforcement: Spiral Textile Cord
- Max PSI: 300
- Temperature: -40°F to 212°F
- Cover Color: Black

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	STANDARD REEL	WEIGHT (LBS)	U/M
2 SPIRAL REINFORCEMENT								
10031713	3/8	9.5	0.72	18.29	4	350'	0.17	FT
4 SPIRAL REINFORCEMENT								
10031714	1/2	12.7	0.84	21.43	5	200'	0.25	FT
10031715	5/8	15.9	1.06	26.97	5.5	200'	0.3	FT
10031716	3/4	19.1	1.16	29.37	6	150'	0.37	FT
10031717	1	25.4	1.39	35.32	8	100'	0.52	FT

300 PSI MULTIPURPOSE (AG 300) – BOXED

Versatile general purpose hose which is excellent for air, water, and many agricultural chemicals including LASSO® herbicide. The EPDM tube and cover resists heat, sunlight, ozone, and weathering. Its RMA Class C tube makes it suitable for oil mist lubricating air lines.
Do not use for transferring petroleum products.

- Tube/Cover Material: EPDM
- Max PSI: 300
- Cover Color: Black
- Reinforcement: 4 Spiral Textile Cord
- Temperature: -40°F to 212°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	STANDARD BOX	WEIGHT (LBS)	U/M
2 SPIRAL REINFORCEMENT								
10031900	1/4	6.4	0.56	14.29	3.3	100'	12	BOX
10031920	3/8	9.5	0.72	18.29	4	100'	17	BOX
4 SPIRAL REINFORCEMENT								
10031930	1/2	12.7	0.84	21.43	5	100'	25	BOX
10031940	5/8	15.9	1.06	26.97	5.5	100'	30	BOX
10031950	3/4	19.1	1.16	29.37	6	100'	37	BOX
10031960	1	25.4	1.39	35.32	8	100'	53	BOX

300 PSI MULTIPURPOSE (AG 300) – SHRINK-WRAP PACKAGED COILS

Versatile general purpose hose which is excellent for air, water, and many agricultural chemicals including LASSO® herbicide. The EPDM tube and cover resists heat, sunlight, ozone, and weathering. Its RMA Class C tube makes it suitable for oil mist lubricating air lines.
Do not use for transferring petroleum products.

- Tube/Cover Material: EPDM
- Max PSI: 300
- Cover Color: Black
- Reinforcement: 4 Spiral Textile Cord
- Temperature: -40°F to 212°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	COIL LENGTH	WEIGHT (LBS)	U/M
2 SPIRAL REINFORCEMENT								
10031670	1/4	6.4	0.56	14.29	3.3	10'	1.2	EA
10031676	1/4	6.4	0.56	14.29	3.3	25'	3	EA
10031689	1/4	6.4	0.56	14.29	3.3	50'	6	EA
10031671	3/8	9.5	0.72	18.29	4	10'	1.7	EA
10031678	3/8	9.5	0.72	18.29	4	25'	4.3	EA
10031690	3/8	9.5	0.72	18.29	4	50'	8.5	EA
4 SPIRAL REINFORCEMENT								
10031672	1/2	12.7	0.84	21.43	5	10'	2.6	EA
10031682	1/2	12.7	0.84	21.43	5	25'	6.3	EA
10031692	1/2	12.7	0.84	21.43	5	50'	12.5	EA
10031673	5/8	15.9	1.06	26.97	5.5	10'	3	EA
10031684	5/8	15.9	1.06	26.97	5.5	25'	7.5	EA
10031694	5/8	15.9	1.06	26.97	5.5	50'	15	EA
10031674	3/4	19.1	1.16	29.37	6	10'	3.8	EA
10031686	3/4	19.1	1.16	29.37	6	25'	9.3	EA
10031696	3/4	19.1	1.16	29.37	6	50'	18.2	EA
10031675	1	25.4	1.39	35.32	8	10'	5.3	EA
10031688	1	25.4	1.39	35.32	8	25'	13.3	EA
10031698	1	25.4	1.39	35.32	8	50'	26.5	EA

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Monomer

DESCRIPTION ABBREVIATION KEY

MOR = Moderate Oil Resistance

NBR = Acrylonitrile Butadiene Rubber (BUNA-N)

PVC = Poly Vinyl Chloride

SBR = Styrene Butadiene Rubber

MSHA = Mine, Safety, and Health Administration

OIL RESISTANT MULTIPURPOSE – BULK/UNCOUPLED

Mainliner® is designed to handle the oily mists used to lubricate pneumatic tools. It features a medium oil-resistant tube, reinforced with multiple polyester spirals that keeps it flexible in extreme temperatures. The durable EPDM cover resists abrasion, cracking, and affects of ozone. Do not use for handling petroleum products.

- Tube Material: MOR/EPDM/Class C
- Cover Material: EPDM
- Cover Color: Red
- Reinforcement: 2 Spiral Polyester Yarn
- Temperature: -40°F to 200°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	STANDARD REEL	WEIGHT (LBS)	U/M
2-SPIRAL REINFORCEMENT									
10019508	1/4	6.4	0.5	12.7	200	1.5	700'	0.09	FT
10020506	3/8	9.5	0.68	17.27	200	2.25	700'	0.15	FT
10021006	1/2	12.7	0.81	20.57	200	3	700'	0.19	FT
4-SPIRAL REINFORCEMENT									
10022010	3/4	19.1	1.15	29.21	250	4.5	700'	0.37	FT
10022002	1	25.4	1.37	34.8	200	7	700'	0.42	FT
10024609	1-1/4	31.8	1.75	44.45	200	8.75	500'	0.81	FT
10024633	1-1/2	38.1	2	50.8	200	10.5	400'	0.94	FT
10022509	1/4	6.4	0.563	14.3	300	1.5	500'	0.15	FT
10023009	3/8	9.5	0.71	18.03	300	2.25	700'	0.18	FT
10023505	1/2	12.7	0.84	21.34	300	3	700'	0.25	FT
10024005	3/4	19.1	1.15	29.21	300	4.5	700'	0.37	FT
10024501	1	25.4	1.43	36.32	300	7	700'	0.5	FT

500 PSI MULTIPURPOSE HOSE – BULK/UNCOUPLED

This 500 PSI hose is engineered for extra heavy-duty pneumatic use or for transferring oils, fats, kerosene, and many petroleum based products. Its fluorescent yellow carboxylated nitrile cover is super abrasion resistant and static conductive.

- Tube Material: NBR/PVC/Nitrile
- Cover Material: Carboxylated Nitrile
- Cover Color: Yellow
- Reinforcement: 4 Spiral Polyester Cord
- Temperature: -40°F to 212°F
- MSHA Approved

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	STANDARD REEL	WEIGHT (LBS/FT)	U/M
10041150	3/8	9.5	0.75	19.05	500	2.25	700'	0.12	FT
10041152	1/2	12.7	0.91	23.11	500	3	650'	0.12	FT
10041156	3/4	19.1	1.19	30.23	500	4.5	600'	0.17	FT
10041158	1	25.4	1.5	38.1	500	7	500'	0.17	FT

500 PSI MULTIPURPOSE HOSE – ASSEMBLIES

This 500 PSI hose assembly is constructed specifically for use as a flexible connector between an air supply and an air tool. It includes a universal hose fitting on one end and a bent stem on the other, both attached with two smooth I.D. preformed clamps. Its fluorescent yellow carboxylated nitrile cover is super abrasion resistant and non-conductive.

- Tube Material: NBR/PVC/Nitrile
- Temperature: -40°F to 212°F
- Max PSI: 500
- Reinforcement: 4 Spiral Polyester Cord
- Cover Color: Yellow
- Minimum Ben Radius (in): 3
- Cover Material: Carboxylated Nitrile
- MSHA Approved

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	LENGTH	FITTINGS	WEIGHT (LBS)	U/M
97108072	1/2	12.7	0.91	23.11	10'	Universal x 3/8" Male Pipe Thread Bent Tube	0.24	EA
97108071	1/2	12.7	0.91	23.11	10'	Universal x 1/2" Male Pipe Thread Bent Tube	0.24	EA
97108070	1/2	12.7	0.91	23.11	10'	Universal x 7/8"-24 Thread Bent Tube	0.24	EA

WIRE BRAID AIR HOSE – BULK/UNCOUPLED

A premium grade air hose specifically designed for the most severe applications in mining, quarries, and heavy construction. It has a specially compounded oil resistant black nitrile tube, reinforced with a high tensile wire braid, and an abrasion resistant yellow SBR cover.

- Tube Material: Nitrile
- Cover Material: SBR
- Cover Color: Yellow
- Reinforcement: High Tensile Wire Braid
- Temperature: -20°F to 212°F
- Standard Reel: 100'

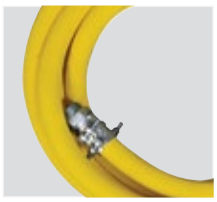
PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	WEIGHT (LBS/FT)	U/M
11003506	1/2	12.7	1	25.4	1000	5	0.35	FT
11003508	3/4	19.1	1.25	31.75	1000	6	0.5	FT
11004008	1	25.4	1.5	38.1	800	8	0.75	FT
11004504	1-1/4	31.75	1.75	44.45	600	12	0.83	FT
11005500	1-1/2	38.1	2.19	55.63	500	14	1.25	FT
11006000	2	50.8	2.75	69.85	500	18	1.6	FT
11006507	2-1/2	63.5	3.25	82.55	500	32	1.89	FT
11007007	3	76.2	3.75	95.25	500	36.5	2.52	FT
11007503	4	101.6	4.75	120.65	400	48	4	FT

WIRE BRAID AIR HOSE – ASSEMBLIES

A premium-grade air hose specifically designed for the most severe applications in mining, quarries, and heavy construction. It has a specially compounded, oil resistant, black, nitrile tube, reinforced with a high tensile wire braid. Hose fittings attached with 2 or 4-bolt boss clamps.

- Tube Material: Nitrile
- Cover Material: SBR
- Cover Color: Yellow
- Reinforcement: High Tensile Wire Braid
- Temperature: -20°F to 212°F
- Length: 50'

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	FITTINGS	WEIGHT (LBS)	U/M
2-BOLT CLAMPS									
98118450	3/4	19.1	1.25	31.75	1000	6	Universal 2-Bolt	28	EA
98118455	1	25.4	1.5	38.1	800	8	Universal 2-Bolt	41	EA
4-BOLT CLAMPS									
98118474	2	50.8	2.75	69.85	500	18	Female x Female Boss 4-Bolt	101	EA
98118472	2	50.8	2.75	69.85	500	18	Male x Female Boss 4-Bolt	99	EA
98118470	2	50.8	2.75	69.85	500	18	Male x Male Boss 4-Bolt	98	EA



DESCRIPTION ABBREVIATION KEY

SBR = Styrene Butadiene Rubber

JACKHAMMER AIR HOSE

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Methylene

SBR = Styrene Butadiene Rubber

300 PSI RUBBER JACKHAMMER AIR HOSE – ASSEMBLIES

The red jackhammer hose is our most popular jackhammer hose assembly. Its synthetic reinforcement provides a 300 PSI working pressure, while its EPDM cover is abrasion resistant. Universal couplings are either permanently crimped on both ends or attached with double bands for easier fitting replacement.

- Tube Material: EPDM
- Reinforcement: 4 Spiral Textile Cord
- Temperature: -40°F to 212°F
- Cover Color: Red
- Fittings: Universal Air
- Length: 50'

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MIN. BEND RADIUS (IN)	WEIGHT (LBS/FT)	U/M
CRIMPED									
10239595-PLUS	3/4	19.10	1.16	29.37	0.203	5.16	6	18.7	EA
DOUBLE BANDS									
98108859	3/4	19.10	1.16	29.37	0.205	5.21	6	20	EA

1000 PSI PREMIUM JACKHAMMER AIR HOSE – ASSEMBLIES

This jackhammer hose assembly is specifically designed for the most severe applications in mining, quarries, and heavy construction. It has a specially compounded oil resistant black nitrile tube, reinforced with a high tensile wire braid, and an abrasion resistant yellow SBR cover. Universal couplings are attached with reusable bolt-on clamps.

- Tube Material: Nitrile
- Reinforcement: High Tensile Wire Braid
- Cover Material: SBR
- Temperature: -20°F to 212°F
- Cover Color: Yellow
- Fittings: Universal Air

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MIN. BEND RADIUS (IN)	LENGTH	WEIGHT (LBS/FT)	U/M
98118450	3/4	19.10	1.25	31.75	0.250	6.35	6	50'	28	EA

PVC AIR HOSE

300 PSI PREMIUM PVC AIR HOSE – BULK/UNCOUPLED

Premium red PVC air hose features an oil resistant tube and cover, flexible kink-proof construction, and a good temperature range. An assortment of brass fittings and ferrules are available for custom sized hose assemblies.

- Tube/Cover Material: PVC
- Reinforcement: Synthetic Spiral Cord
- Temperature: -40°F to 150°F
- Cover Color: Red

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	STANDARD REEL	WEIGHT (LBS/FT)	U/M
98109002	3/8	9.5	0.63	15.88	150'	0.11	FT
10130010	3/8	9.5	0.63	15.88	300'	0.11	FT

300 PSI PREMIUM PVC AIR HOSE – ASSEMBLIES

Premium PVC air hoses feature an oil resistant tube and cover, flexible kink proof construction, and a good temperature range. Assemblies come complete with 1/4" Male National Pipe Thread machined brass fittings.

- Tube/Cover Material: PVC
- Reinforcement: Synthetic Spiral Cord
- Temperature: -40°F to 150°F
- Fittings: 1/4" Male National Pipe Thread x 1/4" Male National Pipe Thread

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	COVER COLOR	ASSEMBLY LENGTH	WEIGHT (LBS/FT)	U/M
98108760	1/4	6.4	0.5	12.7	Blue	25'	2.3	EA
98108765	1/4	6.4	0.5	12.7	Blue	50'	4.3	EA
98108775	3/8	9.5	0.63	16	Red	25'	3.3	EA
98108780	3/8	9.5	0.63	16	Red	50'	6.1	EA
98108781	3/8	9.5	0.63	16	Red	100'	9.8	EA
10130330	3/8	9.5	0.63	16	Yellow	50'	6.1	EA
98108792	1/2	12.7	0.84	21.43	Orange	50'	7.1	EA

300 PSI AIR HOSE EXTENSION/PIGTAIL – ASSEMBLIES

Extension/pigtail assemblies are constructed of our premium blue PVC air hose, which features an oil resistant tube and cover, flexible kink-proof construction, and a good temperature range. Assemblies come complete with 1/4" Male National Pipe Thread machined brass fittings. Ideal as a portable air tank replacement hose, or for a workbench/short hose extension.

- Tube/Cover Material: PVC
- Reinforcement: Synthetic Spiral Cord
- Temperature: -40°F to 150°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	COVER COLOR	LENGTH	WEIGHT (LBS/FT)	U/M
1/4" MALE NATIONAL PIPE THREAD X 1/4" MALE NATIONAL PIPE THREAD								
98108747	1/4	6.4	0.5	12.7	Blue	4'	0.4	EA
98108750	1/4	6.4	0.5	12.7	Blue	6'	0.6	EA
98108755	1/4	6.4	0.5	12.7	Blue	15'	1.8	EA
1/4" MALE NATIONAL PIPE THREAD X BRASS TIRE CHUCK								
98108753	1/4	6.4	0.5	12.7	Red	4'	0.4	EA

200 PSI REINFORCED ROOFING URETHANE AIR HOSE – ASSEMBLIES

Reinforced urethane roofing/framing assemblies are lightweight, weather resistant, kink resistant, and stay extremely flexible in sub-zero temperatures. For prolonged service life, assemblies are coupled with reusable brass swivel fittings and bend restrictors on both ends. Ideal hose for pneumatic nailers, staplers, and portable air compressors.

- Tube/Cover Material: Urethane
- Reinforcement: 2 Spiral Textile Cord
- Temperature: -40°F to 165°F
- Cover Color: Blue
- Fittings: 1/4" Male National Pipe Thread x 1/4" Male National Pipe Thread

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	LENGTH	WEIGHT (LBS/FT)	U/M
15026301	1/4	6.4	0.38	9.65	25'	1.1	EA
15026302	1/4	6.4	0.38	9.65	50'	2.1	EA
15026303	1/4	6.4	0.38	9.65	100'	4.3	EA

DESCRIPTION ABBREVIATION KEY

PVC = Poly Vinyl Chloride

URETHANE AIR HOSE

RUBBER AIR HOSE

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Monomer

300 PSI PREMIUM RUBBER AIR HOSE – ASSEMBLIES

This premium quality rubber air hose has an all rubber hose with machined brass Male National Pipe Thread fittings and bend restrictors on both ends. Its EPDM tube and cover make the hose weather resistant, abrasion resistant, and keeps it flexible at low temperatures.

- Tube/Cover Material: EPDM
- Reinforcement: Spiral Textile Cord
- Temperature: -40°F to 212°F
- Cover Color: Red
- Fittings: Male National Pipe Thread x Male National Pipe Thread

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	LENGTH	FITTINGS	WEIGHT (LBS/FT)	U/M
2-SPIRAL									
98108938	1/4	6.4	0.56	14.29	3.3	25'	1/4" x 1/4"	4.4	EA
98108940	1/4	6.4	0.56	14.29	3.3	50'	1/4" x 1/4"	8.2	EA
98108942	3/8	9.5	0.72	18.29	4	25'	1/4" x 1/4"	5.2	EA
98108943	3/8	9.5	0.72	18.29	4	50'	1/4" x 1/4"	10.1	EA
98108944	3/8	9.5	0.72	18.29	4	100'	1/4" x 1/4"	19.8	EA
4-SPIRAL									
98108952	1/2	12.7	0.84	21.43	5	25'	3/8" x 3/8"	5	EA
98108953	1/2	12.7	0.84	21.43	5	50'	3/8" x 3/8"	10.2	EA
98108955	1/2	12.7	0.84	21.43	5	50'	1/2" x 1/2"	10.4	EA

300 PSI RUBBER WHIP AIR HOSE WITH BALL SWIVEL – ASSEMBLIES

Our whip hose assembly is constructed of our premium rubber air hose, and is coupled with a 1/4" Male National Pipe Thread 360° Ball Swivel and 1/4" Female National Pipe Thread Swivel. Assembly is commonly used between a supply hose and a pneumatic tool to relieve stress at the hose fittings, while improving operator comfort. The 360° Ball Swivel allows the operator to freely move the tool in all directions without twisting and kinking the hose.

- Tube/Cover Material: EPDM
- Reinforcement: 2 Spiral Textile Cord
- Temperature: -40°F to 212°F
- Cover Color: Red
- Fittings: 1/4" Male National Pip Thread 360˚ Ball Swivel x 1/4" Female National Pipe Thread Swivel

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	LENGTH	WEIGHT (LBS/FT)	U/M
10130400	1/4	6.35	0.56	14.29	3.3	24'	0.529	EA
10130401	1/4	6.35	0.56	14.29	3.3	60'	0.97	EA
10130402	3/8	9.5	0.72	18.29	4	24'	0.637	EA
10130403	3/8	9.5	1.72	43.69	4	60'	1.235	EA

XTREMEFLEX PLASTIC AIR HOSE

300 PSI XTREMEFLEX LOW TEMPERATURE AIR HOSE – ASSEMBLIES

XtremeFlex air hoses with XtremeFlex technology are constructed of a specially formulated thermoplastic compound which provides extreme flexibility in severely cold weather, and it is non-marking. Tighter fabric reinforcement provides a stronger wall and greater kink resistance, while retaining great flexibility. Assemblies come complete with Male National Pipe Thread fittings and molded bend restrictors on both ends.

- Tube/Cover Material: Thermoplastic
- Reinforcement: Tightly Woven Synthetic
- Temperature: -40°F to 150°F
- Cover Color: Blue
- Fittings: Male National Pipe Thread x Male National Pipe Thread

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	LENGTH	FITTINGS	WEIGHT (LBS/FT)	U/M
1/4" X 1/4" FITTINGS										
10130348	3/8	9.5	0.57	14.48	300	1.2"	25'	1/4" x 1/4"	3.2	EA
10130350	3/8	9.5	0.57	14.48	300	1.2"	50'	1/4" x 1/4"	4.8	EA
3/8" X 3/8" FITTINGS										
10130353	1/2	12.7	0.7	17.65	300	1.7"	50'	3/8" x 3/8"	N/A	EA

165 PSI NYLON RECOIL – ASSEMBLIES

Yellow nylon recoil assemblies are self-retracting with 4" pigtails*, reusable 1/4" male national pipe thread brass swivel fittings, and spring guards. Used in horizontal and vertical applications to remove the hazard of hoses sprawling across work areas.

- Tube/Cover Material: Nylon
- Reinforcement: Non-Reinforced
- Temperature: -40°F to 176°F
- Cover Color: Yellow
- Fittings: 1/4" Male National Pipe Thread x 1/4" Male National Pipe Thread

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	ASSEMBLY LENGTH	WEIGHT (LBS/FT)	U/M
15025018	1/4	6.4	0.308	7.82	165	12'	0.3	EA
15025995	1/4	6.4	0.308	7.82	165	25'	0.5	EA
15026021	3/8	9.5	0.470	11.94	165	25'	0.9	EA

*Part # 15025018 does not include 4" pigtails.

PUSH-ON HOSE – BULK/UNCOUPLED

Push-on hose is constructed with a unique fabric reinforcement that "locks" onto the barb of push-on style fittings without the use of tools or clamps. This hose has a high quality oil resistant tube and cover, allowing the hose to be flexible, kink resistant, and abrasion resistant. Ideal for applications involving petroleum based oils, water, glycol anti-freeze, hot lubricating oils, or air. Do not recommend for unleaded gasoline or diesel fuels. Use with push-on fittings only.

- Tube Material: Nitrile/RMA Class A
- Reinforcement: 2 Polyester Plies
- Cover Material: Nitrile/PVC
- Temperature: -20°F to 180°F
- Cover Color: Black

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	STANDARD REEL	WEIGHT (LBS/FT)	U/M
39001300	1/4	6.35	0.5	12.70	250	1.50	250' / 700'	0.09	EA
39001350	3/8	9.53	0.63	15.88	250	2.25	250' / 700'	0.12	EA
39001400	1/2	12.7	0.75	19.05	250	3.00	250' / 700'	0.16	EA

BRASS PUSH-ON FITTINGS – HOSE BARB X HOSE BARB MENDER

Push-on brass hose menders are designed specifically for use in push-on hose, and are used to replace damaged areas of hose. Their larger than normal directional hose barbs will insert easily into your hose, but will not back out under pressure. No hose clamp is required when used in combination with push-on hose.

PART#	HOSE BARB (IN)	WEIGHT (LBS)	U/M
44066138	1/4	0.02	EA
44066140	3/8	0.03	EA
44066142	1/2	0.04	EA

BRASS PUSH-ON FITTINGS – MALE PIPE THREAD X HOSE BARB

Push-on brass hose fittings are designed specifically for use in push-on hose. Their larger than normal directional hose barbs will insert easily into your hose, but will not back out under pressure. No hose clamp is required when used in combination with push-on hose. Available in many thread and barb combinations.

PART#	MALE PIPE THREAD (IN)	HOSE BARB (IN)	WEIGHT (LBS)	U/M
44065002	1/4	1/4	0.02	EA
44065010	1/4	3/8	0.02	EA
44065012	3/8	1/4	0.03	EA
44065015	3/8	3/8	0.03	EA
44065025	1/2	3/8	0.04	EA
44066009	1/2	1/2	0.04	EA
2 PACK				
97448100	1/4	3/8	0.035	EA

AUTO-REWIND POLY HOSE REEL WITH PVC AIR HOSE

Completely enclosed poly hose reel is the lightweight version of hose reels. The reel can be mounted in any direction, and the auto-rewind mechanism automatically locks the hose at one's desired working length.

- Single bracket mounting
- 3-ft lead-in/connection hose
- 3/8" x 30' PVC Air Hose
- 1/4" Female Standard Pipe Thread Inlet
- Stationary mounting bracket with hose guide arm & hose stop

PART#	HOSE ID (IN)	HOSE LENGTH	HOSE MAX PSI	MALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
99023409	3/8	30'	300	1/4	16	EA

AUTO-REWIND STEEL HOSE REEL WITH RUBBER AIR HOSE

This heavy-duty reel is all-steel constructed and has a corrosion resistant black powder coated finish. Its maintenance free rewind mechanism holds hose at desired length. It comes complete with a 300 PSI rated 3/8" x 50' reinforced rubber hose with 1/4" Male Pipe Thread brass fittings, a bend restrictor, and an adjustable hose stop. Also includes a 36" connection hose.

- 3/8" x 50' Rubber Air Hose
- 1/4" Male Pipe Thread Brass Fittings
- Bend Restrictor
- Adjustable hose stop
- 36" Connection Hose

PART#	HOSE ID (IN)	HOSE LENGTH	HOSE MAX PSI	MALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
99023961	3/8	50'	300	1/4	47.4	EA

See p. 24 for more on our Apache Air Hose with XtremeFlex technology

AUTO-REWIND STEEL HOSE REEL WITH XTREME FLEX AIR HOSE

This heavy-duty, high quality reel is all-steel constructed and has a corrosion resistant black powder coated finish. Its ratcheted auto-retracting feature will hold the hose at any extended length.

- 3/8" x 50' Air Hose
- 1/4" Male Pipe Thread Brass Fittings
- Bend Restrictor
- Adjustable Hose Stop
- 1/4" x 36" Connection Hose

PART#	HOSE ID (IN)	HOSE LENGTH	HOSE MAX PSI	MALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
99023315	3/8	50'	300	1/4	47	EA

MANUAL REWIND STEEL HOSE REEL WITH RUBBER AIR HOSE

This manual, heavy-duty all-steel hose reel has a corrosion resistant black powder coated finish, an easy-to-turn hand crank for quick hose rewinding, and a spring tension brake to prevent extra hose from unwinding.

- 3/8" Rubber Hose Air
- 1/4" Male Pipe Thread Brass Fittings
- Bend Restrictor
- 1/4" x 36" Connection Hose

PART#	HOSE ID (IN)	HOSE LENGTH	HOSE MAX PSI	MALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
99023955	3/8	50'	300	1/4	17.6	EA
99023957	3/8	100'	300	1/4	28	EA

QUICK DISCONNECT SOCKET – BRASS SOCKET X FEMALE PIPE THREAD

Brass, quick disconnect sockets provide an efficient means of connecting hoses to tools and air compressors. The full brass body is rust proof and corrosion resistant, and will operate up to 300 PSI. Shuts off completely when disconnected.

PART#	SOCKET (IN)	FEMALE PIPE THREAD (IN)	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
51040072	1/4	1/4	250˚F	300	0.19	EA
51040074	1/4	3/8	250˚F	300	0.20	EA
51040088	3/8	1/4	250˚F	300	0.306	EA
51040090	3/8	3/8	250˚F	300	0.30	EA
51040092	3/8	1/2	250˚F	300	0.349	EA

QUICK DISCONNECT SOCKET – BRASS SOCKET X MALE PIPE THREAD

Brass, quick disconnect sockets provide an efficient means of connecting hoses to tools and air compressors. The full brass body is rust proof and corrosion resistant, and will operate up to 300 PSI. Shuts off completely when disconnected.

PART#	SOCKET (IN)	MALE PIPE THREAD (IN)	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
51040066	1/4	1/4	250˚F	300	0.19	EA
51040068	1/4	3/8	250˚F	300	0.195	EA
51040082	3/8	1/4	250˚F	300	0.27	EA
51040084	3/8	3/8	250˚F	300	0.28	EA
51040086	3/8	1/2	250˚F	300	0.305	EA

QUICK DISCONNECT SOCKET – BRASS SOCKET X HOSE BARB

Brass, quick disconnect sockets provide an efficient means of connecting hoses to tools and air compressors. The full brass body is rust proof and corrosion resistant, and will operate up to 300 PSI. Shuts off completely when disconnected.

PART#	SOCKET (IN)	HOSE BARB (IN)	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
51040076	1/4	1/4	250˚F	300	0.18	EA
51040080	1/4	3/8	250˚F	300	0.19	EA
51040094	3/8	1/4	250˚F	300	0.29	EA
51040096	3/8	3/8	250˚F	300	0.275	EA
51040098	3/8	1/2	250˚F	300	0.285	EA

QUICK DISCONNECT PLUG – STEEL PLUG X FEMALE PIPE THREAD

Steel, quick disconnect plugs have a plated, solid-steel construction for durability and corrosion resistance. Contains a maximum 300 PSI pressure rating.

PART#	PLUG (IN)	FEMALE PIPE THREAD (IN)	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
51040018	1/4	1/4	250˚F	300	0.06	EA
51040020	1/4	3/8	250˚F	300	0.08	EA
51040034	3/8	1/4	250˚F	300	0.065	EA
51040036	3/8	3/8	250˚F	300	0.094	EA
51040038	3/8	1/2	250˚F	300	0.14	EA

QUICK DISCONNECT PLUG – STEEL PLUG X MALE PIPE THREAD

Steel, quick disconnect sockets have a plated, solid-steel construction for durability and corrosion resistance. Contains a maximum 300 PSI pressure rating.

PART#	PLUG (IN)	MALE PIPE THREAD (IN)	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
51040012	1/4	1/4	250˚F	300	0.05	EA
51040014	1/4	3/8	250˚F	300	0.078	EA
51040028	3/8	1/4	250˚F	300	0.08	EA
51040030	3/8	3/8	250˚F	300	0.094	EA
51040032	3/8	1/2	250˚F	300	0.15	EA

QUICK DISCONNECT PLUG – STEEL PLUG X HOSE BARB

Steel, quick disconnect plugs have a plated, solid-steel construction for durability and corrosion resistance. Contains a maximum 300 PSI pressure rating.

PART#	PLUG (IN)	HOSE BARB (IN)	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
51040022	1/4	1/4	250˚F	300	0.047	EA
51040026	1/4	3/8	250˚F	300	0.05	EA
51040040	3/8	1/4	250˚F	300	0.075	EA
51040042	3/8	3/8	250˚F	300	0.06	EA
51040044	3/8	1/2	250˚F	300	0.084	EA

QUICK DISCONNECT PLUG – LINCOLN STYLE PLUG X FEMALE PIPE THREAD

Lincoln style quick disconnect plug has a plated, solid-steel construction, and is compatible with long stem lincoln quick disconnect sockets.

PART#	PLUG (IN)	FEMALE PIPE THREAD (IN)	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
51040302	1/4" Plug	1/4" Female Pipe Thread	250˚F	300	0.06	EA

QUICK DISCONNECT PLUG – LINCOLN STYLE PLUG X MALE PIPE THREAD

Lincoln style quick disconnect plug has a plated, solid-steel construction, and is compatible with long stem lincoln quick disconnect sockets.

PART#	PLUG (IN)	MALE PIPE THREAD (IN)	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
51040300	1/4" Plug	1/4" Male Pipe Thread	250˚F	300	0.06	EA

QUICK DISCONNECT SOCKET – LINCOLN STYLE SOCKET X FEMALE PIPE THREAD

Lincoln style quick disconnect socket has have a full brass body, which is rust and corrosion resistance. It will operate up to 300 PSI, and is compatible with long stem lincoln quick disconnect plugs.

PART#	SOCKET (IN)	FEMALE PIPE THREAD (IN)	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
51040306	1/4" Socket	1/4" Female Pipe Thread	250˚F	300	0.24	EA

AIR HOSE REPAIR KIT

Make emergency repairs to an air hose while you're in the shop or on the road. Kit includes:

PART#	HOSE ID (IN)	WEIGHT (LBS)	U/M
99019340	1/4	0.42	EA
99019342	3/8	0.46	EA

- 1/4 Male Pipe Thread x 1/4 Hose Bend
- 1/4 Female Pipe Thread x 1/4 Hose Bend
- 1/4 Male Pipe Thread x 1/4 Hose Bend
- 3/8 Female Pipe Thread x 3/8 Hose Bend
- 3/8 Female Pipe Thread x 3/8 Hose Bend
- Worm-gear Clamp
- Hose Bend to Hose Barb

IN-LINE LUBRICATOR

The in-line lubricator protects air powered tools by injecting a predetermined amount of oil into the air source before entering the tool. The lubricator has a sight gauge for oil level visibility, a screw adjustment to vary the oil injection, and has a minimum flow rate. Do not recommend for constant flow applications.

PART#	FEMALE PIPE THREAD (IN)	FLOW RATE	MAX. PSI@ 70 F	WEIGHT (LBS)	U/M
43128652	1/2"	30 SCFM @ 70 PSI	500	0.82	EA
43128654	3/4"	70 SCFM @ 70 PSI	200	1.63	EA
43128656	3/4"	71 SCFM @ 70 PSI	300	2.38	EA
43128658	1"	100 SCFM @ 70 PSI	250	4.53	EA

HEAVY-DUTY INDUSTRIAL RUBBER WATER HOSE – ASSEMBLIES

Industrial quality water hose assemblies are built to last in tough environments. The hose is constructed with an EPDM tube and cover, which gives it resistance to abrasion, heat, sunlight, ozone, and weathering. It is coupled with high quality machined brass garden hose thread fittings and has a bend restrictor on the inlet end to prevent damage from kinking at the coupling. Do not use to transport pressurized steam. Do not use to transport water for human consumption.

- Tube/Cover Material: EPDM
- Cover Color: Black
- Max. PSI: 200
- Reinforcement: Spiral Textile Cord
- Temperature: -40°F to 185°F
- Fittings: Male x Female brass GHT

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	LENGTH	WEIGHT (LBS)	U/M
98108797	5/8	15.90	0.88	22.35	5.5	25'	6.6	EA
98108798	5/8	15.90	0.88	22.35	5.5	50	12.8	EA
98108799	5/8	15.90	0.88	22.35	5.5	75'	14.1	EA
98108800	5/8	15.90	0.88	22.35	5.5	100'	25.3	EA
98108802	3/4	19.10	1.13	28.58	6	25'	9.2	EA
98108804	3/4	19.10	1.13	28.58	6	50	18.1	EA
98108806	3/4	19.10	1.13	28.58	6	75'	27	EA
98108809	3/4	19.10	1.13	28.58	6	100'	35.8	EA

INDUSTRIAL WATER HOSE

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Monomer

GHT = Garden Hose Thread

GARDEN HOSE ADAPTERS – QUICK DISCONNECT

Brass garden hose quick disconnect socket. Used to convert garden hose to a quick disconnect system to allow for faster adapter change-outs.

WATER ACCESSORIES

SOCKET

PART#	THREAD	MAX PSI	WEIGHT (LBS)	U/M
44048660	3/4" Garden Hose Thread	100	0.08	EA

PLUG

PART#	THREAD	MAX PSI	WEIGHT (LBS)	U/M
44048663	3/4" Garden Hose Thread	100	0.05	EA

GARDEN HOSE ADAPTERS – QUICK DISCONNECT SET

Brass garden hose quick disconnect set includes a brass socket with recessed washer for no-leak fit, and a brass plug.

PART#	THREAD	MAX PSI	WEIGHT (LBS)	U/M
44048664	3/4" Garden Hose Thread	100	0.125	EA

GARDEN HOSE GASKETS

Garden hose gaskets fit all 3/4" garden hose threaded connections. Use to provide a tight seal between connectors.

PART#	MAX PSI	WEIGHT (LBS)	U/M
44029965	100	0.05	PKG of 10
44030000	100	0.002	EA

See p. 48 for additional fire suppression accessories.

100 PSI FIRE HOSE NOZZLE

Fire hose style nozzle is constructed of red polycarbonate with a rubber bumper guard and brass stem. It adjusts from straight stream to fog and has a 100 PSI maximum working pressure (water only) at 70°F. FM approved for fire applications; also used for washdown, construction, industrial, agricultural, and municipal applications.

PART#	THREAD	GALLONS PER MINUTE	SPRAY	WEIGHT (LBS)	U/M
46045013	3/4" Female Garden Hose Thread	25.1 @ 100 PSI	45°	0.3	EA

100 PSI CONSTANT FLOW FOG NOZZLE

Constant flow fog nozzle is constructed of red polycarbonate with black plastic and steel stem, and includes a rubber bumper guard. The tip twist adjustment provides consistent volume at any spray angle and adjusts from straight stream to fog. 100 PSI maximum working pressure (water only) at 70°F. FM approved for fire applications; also used for washdown, construction, industrial, agricultural, and municipal applications.

PART#	THREAD	GALLONS PER MINUTE	SPRAY	WEIGHT (LBS)	U/M
46045506	1-1/2" National Pipe Straight Hose	75 @ 100 PSI	90°	0.44	EA
46045507	2" National Pipe Straight Hose	75 @ 100 PSI	90°	0.44	EA

100 PSI PISTOL GRIP WATER NOZZLE

Pistol grip water nozzle is constructed of a heavy-duty zinc metallized body, brass valve and adjusting nut, stainless steel spring with lifetime packing, and rubber handle guard. Its easy squeeze on/off lever clip locks to any spray pattern.

PART#	THREAD	MAX. TEMP	WEIGHT (LBS)	U/M
44048596	3/4" Garden Hose Thread	180°	0.47	EA

100 PSI INSULATED PISTOL GRIP WATER NOZZLE

Insulated pistol grip water nozzle is constructed of a chrome plated all-zinc body, heavy-duty brass valve and adjusting nut, industrial strength nylon handle, a rubber handle guard, and rubber covered head with garden hose thread. Its easy squeeze on/off lever clip locks to any spray pattern. For use with water up to 180°F.

PART#	THREAD	MAX. TEMP	WEIGHT (LBS)	U/M
44048631	3/4" Garden Hose Thread	180°	0.48	EA

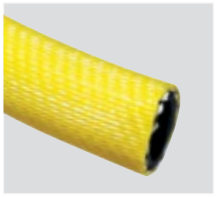
ACID & CHEMICAL HOSE

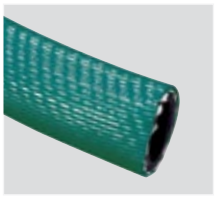
HIGH PRESSURE SPRAY

HIGH PRESSURE PVC SPRAY HOSE

High pressure PVC spray hose for fertilizers, herbicides, and insecticides in the agricultural and lawn care industries. Lightweight PVC cover is compounded for abrasion resistance for long life and low friction for easy handling.

- Tube Material: PVC
- Reinforcement: 1 Braid Synthetic Cord
- Cover Material: Ribbed PVC
- Temperature: 25°F to 150°F





PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 68°F	MIN. BEND RADIUS (IN)	COVER COLOR	STANDARD REEL	WEIGHT (LBS)	U/M
15010002	3/8	9.5	0.65	16.51	600	3	Yellow	300'	0.13	FT
15010006	1/2	12.7	0.79	20.07	600	4	Yellow	300'	0.18	FT
15010008	5/8	15.9	0.96	24.38	600	5	Yellow	300'	0.26	FT
15010009	3/4	19.1	1.14	28.96	600	6	Yellow	300'	0.35	FT
15010016	3/8	9.5	0.69	17.45	800	4	Green	300'	0.14	FT
15010017	1/2	12.7	0.84	21.44	800	5	Green	300'	0.18	FT
15010020	5/8	15.9	1.03	26.16	800	6	Green	300'	0.32	FT
15010019	3/4	19.1	1.14	28.96	800	7	Green	300'	0.35	FT

ANHYDROUS AMMONIA HOSE

ANHYDROUS AMMONIA (NH3)

ANHYDROUS AMMONIA HOSE

Apache wants to ensure all anhydrous ammonia (NH3) assemblies shipped to our customers are of the highest quality, and provide the greatest level of safety and reliability for this demanding service. As a leader in offering innovative performance products to the agricultural industry, we have raised the bar with products designed to improve both performance and safety.

PREASSEMBLED FOR YOUR SAFETY

Many accidents involving NH3 have occurred by using the wrong hose or using an improperly installed fitting.

The preferred method for coupling NH3 hose is a permanent, crimped-on fitting, which is the safest method and requires the least amount of maintenance. Reusable fittings have been used on NH3 hose assemblies, however they are inherently unsafe unless the clamp bolt holding these fittings is retightened regularly.

Apache has partnered with Parker to introduce a program where only pre-coupled NH3 hoses are sold. All assemblies are fabricated using Parker hoses and couplings that are permanently crimped with manufacturer certified coupling procedures.

PRODUCT DISTINCTIONS

- Seven year warranty – the longest in the industry
- All Apache NH3 hose is coupled at our ISO 9001:2008 certified production facility
- Apache is an audited Parker Certified Coupler ensuring a safe and consistent system (only Parker couplings are installed on Parker anhydrous ammonia hoses, using Parker coupling machines)
- High-quality, synthetic construction ensures safety by reducing permeation and offering better resistance to oil, weather aging, and abrasion
- Nylon or stainless wire braids embedded between rubber plies create a higher safety factor (hose won't delaminate due to low adhesion)
- Prep equipment ensures uniform pin-pricking, with 6 uniform rows around the hose, spaced every 1/2". Pin pricking prevents cover separation.
- All hose meets or exceeds RMA IP11-2/TFI standards as well as ANSI K61.1 and CGA G-2.1
- Precise record keeping by Apache and Parker ensure complete traceability of every assembly

PRECAUTIONS WHEN IN USE

Due to potential dangers involved in handling NH3, special care is required to ensure the safety of those working with it. Education about the procedures and personal protective equipment required to safely handle this product – including the hoses used to transport it – is extremely important.

Contact with anhydrous ammonia will burn skin, and is especially damaging to the eyes and lungs. This is true in either its liquid or gas/vapor state.

NH3 hose has a limited life and the user must be alert to signs of impending failure. Periodic inspection and testing is recommended to detect signs indicating hose deterioration or loss of performance before conditions leading to malfunction or failure are reached.

All new hose assemblies should be inspected prior to use to determine if they have been damaged in storage or shipment. Hose subjected to severe usage – for example: dragged over sharp rock surfaces, sharply bent in storage or continually exposed to weather– will deteriorate more rapidly than carefully handled hose. The hose should be visually inspected each day before use.

ANHYDROUS AMMONIA (NH3) NYLON BRAID REINFORCED – ASSEMBLIES

Designed to handle anhydrous ammonia to 350 PSI working pressure with a 5:1 safety factor (1750 PSI minimum burst). Degradation resistant, nylon reinforcement provides flexibility with high tensile strength. High quality synthetic compound cover provides excellent ozone and abrasion resistance. Compatible with N-Serve® when used in recommended concentrations. All assemblies have crimped and certified male pipe thread fittings attached to both ends, plus pin-pricked covers to prevent delamination. Meets or exceeds RMA/TFI/ANSI. Do not use Anhydrous Ammonia hose in LP Gas, Natural Gas, or refrigeration applications.

- Tube/Cover Material: EPDM
- Temperature: -40°F to 180°F
- Reinforcement: 2 Nylon Braids (2" has 3 Nylon Braids)
- Fittings: Male Pipe Thread x Male Pipe Thread Crimped

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Monomer

NH3 = Anhydrous Ammonia

Apache is an authorized Parker NH3 Coupler / Assembler.

See p. 37 for Anhydrous Ammonia Care & Maintenance instructions.

See p. 176 for Anhydrous Ammonia Pressure Gauge

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	COVER COLOR	LENGTH	WEIGHT (LBS)	U/M
98108005	1/2	12.7	0.94	23.8	350	5	Black	2'	1.03	EA
98108015	1/2	12.7	0.94	23.8	350	5	Black	3'	1.32	EA
98108020	1/2	12.7	0.94	23.8	350	5	Black	4'	1.61	EA
98108025	1/2	12.7	0.94	23.8	350	5	Black	5'	1.9	EA
98108030	1/2	12.7	0.94	23.8	350	5	Black	6'	2.19	EA
98108035	1/2	12.7	0.94	23.8	350	5	Black	8'	2.77	EA
98108045	1/2	12.7	0.94	23.8	350	5	Black	10'	3.35	EA
98108050	1/2	12.7	0.94	23.8	350	5	Black	12'	3.93	EA
98108060	1/2	12.7	0.94	23.8	350	5	Black	14'	4.51	EA
98108065	1/2	12.7	0.94	23.8	350	5	Black	15'	4.8	EA
98108070	1/2	12.7	0.94	23.8	350	5	Black	16'	5.09	EA
98108080	1/2	12.7	0.94	23.8	350	5	Black	18'	5.67	EA
98108085	1/2	12.7	0.94	23.8	350	5	Black	20'	6.25	EA
98108090	1/2	12.7	0.94	23.8	350	5	Black	25'	7.7	EA
98108095	1/2	12.7	0.94	23.8	350	5	Black	30'	9.15	EA
98108100	1/2	12.7	0.94	23.8	350	5	Black	50'	14.95	EA
98108115	3/4	19.1	1.25	31.75	350	8	Black	3'	2.12	EA
98108120	3/4	19.1	1.25	31.75	350	8	Black	4'	2.59	EA
98108125	3/4	19.1	1.25	31.75	350	8	Black	5'	3.06	EA
98108130	3/4	19.1	1.25	31.75	350	8	Black	6'	3.53	EA
98108135	3/4	19.1	1.25	31.75	350	8	Black	8'	4.47	EA
98108140	3/4	19.1	1.25	31.75	350	8	Black	9'	4.94	EA
98108145	3/4	19.1	1.25	31.75	350	8	Black	10'	5.41	EA
98108150	3/4	19.1	1.25	31.75	350	8	Black	12'	6.35	EA
98108155	3/4	19.1	1.25	31.75	350	8	Black	12.5'	6.59	EA
98108160	3/4	19.1	1.25	31.75	350	8	Black	14'	7.29	EA
98108165	3/4	19.1	1.25	31.75	350	8	Black	15'	7.76	EA
98108170	3/4	19.1	1.25	31.75	350	8	Black	16'	8.23	EA
98108180	3/4	19.1	1.25	31.75	350	8	Black	18'	9.17	EA
98108185	3/4	19.1	1.25	31.75	350	8	Black	20'	10.11	EA
98108190	3/4	19.1	1.25	31.75	350	8	Black	25'	12.46	EA
98108195	3/4	19.1	1.25	31.75	350	8	Black	30'	14.81	EA
98108202	3/4	19.1	1.25	31.75	350	8	Black	50'	24.21	EA
98108208	1	25.4	1.5	38.1	350	10	Black	1.66'	2.04	EA
98108214	1	25.4	1.5	38.1	350	10	Black	1.83'	2.14	EA
98108205	1	25.4	1.5	38.1	350	10	Black	2'	2.22	EA
98108207	1	25.4	1.5	38.1	350	10	Black	2.3'	2.39	EA
98108210	1	25.4	1.5	38.1	350	10	Black	2.5'	2.51	EA
98108211	1	25.4	1.5	38.1	350	10	Black	2.7'	2.62	EA
98108212	1	25.4	1.5	38.1	350	10	Black	2.8'	2.79	EA
98108215	1	25.4	1.5	38.1	350	10	Black	3'	3.08	EA
98108218	1	25.4	1.5	38.1	350	10	Black	3.5'	3.22	EA
98108219	1	25.4	1.5	38.1	350	10	Black	3.75'	3.22	EA
98108220	1	25.4	1.5	38.1	350	10	Black	4'	3.36	EA
98108223	1	25.4	1.5	38.1	350	10	Black	4.5'	3.65	EA
98108225	1	25.4	1.5	38.1	350	10	Black	5'	3.93	EA
98108230	1	25.4	1.5	38.1	350	10	Black	6'	4.5	EA

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	COVER COLOR	LENGTH	WEIGHT (LBS)	U/M
98108233	1	25.4	1.5	38.1	350	10	Black	7'	5.07	EA
98108235	1	25.4	1.5	38.1	350	10	Black	8'	5.64	EA
98108236	1	25.4	1.5	38.1	350	10	Black	8.7'	6.04	EA
98108240	1	25.4	1.5	38.1	350	10	Black	9'	6.21	EA
98108245	1	25.4	1.5	38.1	350	10	Black	10'	6.78	EA
98108247	1	25.4	1.5	38.1	350	10	Black	10.5'	7.07	EA
98108250	1	25.4	1.5	38.1	350	10	Black	12'	7.92	EA
98108255	1	25.4	1.5	38.1	350	10	Black	12.5'	8.21	EA
98108258	1	25.4	1.5	38.1	350	10	Black	13'	8.49	EA
98108260	1	25.4	1.5	38.1	350	10	Black	14'	9.06	EA
98108265	1	25.4	1.5	38.1	350	10	Black	15'	9.63	EA
98108270	1	25.4	1.5	38.1	350	10	Black	16'	10.2	EA
98108275	1	25.4	1.5	38.1	350	10	Black	17'	10.77	EA
98108203	1	25.4	1.5	38.1	350	10	Black	17.5'	11.06	EA
98108280	1	25.4	1.5	38.1	350	10	Black	18'	11.34	EA
98108283	1	25.4	1.5	38.1	350	10	Black	19'	11.91	EA
98108204	1	25.4	1.5	38.1	350	10	Black	19.5'	12.2	EA
98108285	1	25.4	1.5	38.1	350	10	Black	20'	12.48	EA
98108290	1	25.4	1.5	38.1	350	10	Black	25'	15.33	EA
98108295	1	25.4	1.5	38.1	350	10	Black	30'	18.18	EA
98108305	1-1/4	31.8	1.75	44.45	350	12	Black	2'	3.49	EA
98108310	1-1/4	31.8	1.75	44.45	350	12	Black	2.5'	3.83	EA
98108315	1-1/4	31.8	1.75	44.45	350	12	Black	2.7'	3.97	EA
98108317	1-1/4	31.8	1.75	44.45	350	12	Black	2.8'	4.03	EA
98108320	1-1/4	31.8	1.75	44.45	350	12	Black	3'	4.17	EA
98108325	1-1/4	31.8	1.75	44.45	350	12	Black	4'	4.85	EA
98108330	1-1/4	31.8	1.75	44.45	350	12	Black	5'	5.53	EA
98108332	1-1/4	31.8	1.75	44.45	350	12	Black	5.8'	6.07	EA
98108335	1-1/4	31.8	1.75	44.45	350	12	Black	6'	6.21	EA
98108336	1-1/4	31.8	1.75	44.45	350	12	Black	6.5'	6.55	EA
98108337	1-1/4	31.8	1.75	44.45	350	12	Black	7'	6.89	EA
98108340	1-1/4	31.8	1.75	44.45	350	12	Black	8'	7.57	EA
98108350	1-1/4	31.8	1.75	44.45	350	12	Black	9'	8.25	EA
98108355	1-1/4	31.8	1.75	44.45	350	12	Black	10'	8.93	EA
98108360	1-1/4	31.8	1.75	44.45	350	12	Black	12'	10.29	EA
98108365	1-1/4	31.8	1.75	44.45	350	12	Black	12.5'	10.63	EA
98108370	1-1/4	31.8	1.75	44.45	350	12	Black	14'	11.65	EA
98108375	1-1/4	31.8	1.75	44.45	350	12	Black	15'	12.33	EA
98108380	1-1/4	31.8	1.75	44.45	350	12	Black	16'	13.01	EA
98108390	1-1/4	31.8	1.75	44.45	350	12	Black	18'	14.37	EA
98108395	1-1/4	31.8	1.75	44.45	350	12	Black	20'	15.73	EA
98108400	1-1/4	31.8	1.75	44.45	350	12	Black	25'	19.13	EA
98108405	1-1/4	31.8	1.75	44.45	350	12	Black	30'	22.53	EA
98118005	1-1/2	38.1	2	50.8	350	14	Black	12'	12.68	EA
98118020	1-1/2	38.1	2	50.8	350	14	Black	15'	15.11	EA
98118025	1-1/2	38.1	2	50.8	350	14	Black	18'	17.54	EA
98118030	1-1/2	38.1	2	50.8	350	14	Black	20'	19.16	EA
98118045	2	50.8	2.75	69.85	350	16	Black	12'	26.06	EA
98118060	2	50.8	2.75	69.85	350	16	Black	15'	31.04	EA
98118065	2	50.8	2.75	69.85	350	16	Black	18'	36.02	EA
98118067	2	50.8	2.75	69.85	350	16	Black	19'	37.68	EA
98118070	2	50.8	2.75	69.85	350	16	Black	20'	39.34	EA
98118075	2	50.8	2.75	69.85	350	16	Black	30'	55.94	EA

Apache is an authorized Parker NH3 Coupler / Assembler.

2" hose is reinforced with 3 nylon braids.

ANHYDROUS AMMONIA (NH3) STAINLESS STEEL BRAID REINFORCED – ASSEMBLIES

Designed to handle anhydrous ammonia to 350 PSI working pressure with a 5:1 Safety Factor. Its corrosion resistant, high tensile stainless steel braid provides strong and flexible reinforcement while its high quality synthetic cover provides excellent ozone and abrasion resistance. This hose meets or exceeds RMA/TFI/ANSI specifications. All assemblies have crimped and certified male pipe thread fittings attached to both ends, plus pin-pricked covers to prevent delamination. Do not use Anhydrous Ammonia hose in LP Gas, Natural Gas, or refrigeration applications.

- Tube/Cover Material: EPDM
- Temperature: -40°F to 180°F
- Reinforcement: Stainless Wire Braid (2" has 2 Stainless Wire Braids)
- Fittings: Male Pipe Thread x Male Pipe Thread Crimped

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Monomer

Apache is an authorized Parker NH3 Coupler / Assembler.

See p. 37 for Anhydrous Ammonia Care & Maintenance instructions.

See p. 172 for Anhydrous Ammonia Pressure Gauge

2" hose is reinforced with 2 stainless wire braids.

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	COVER COLOR	LENGTH	WEIGHT (LBS)	U/M
98118085	1	25.4	1.5	38.1	350	12	Black	2'	2.6	EA
98118090	1	25.4	1.5	38.1	350	12	Black	2.5'	2.99	EA
98118095	1	25.4	1.5	38.1	350	12	Black	3'	3.38	EA
98118100	1	25.4	1.5	38.1	350	12	Black	4'	4.16	EA
98118105	1	25.4	1.5	38.1	350	12	Black	5'	4.94	EA
98118110	1	25.4	1.5	38.1	350	12	Black	6'	5.72	EA
98118115	1	25.4	1.5	38.1	350	12	Black	8'	7.28	EA
98118120	1	25.4	1.5	38.1	350	12	Black	9'	8.06	EA
98118125	1	25.4	1.5	38.1	350	12	Black	10'	8.84	EA
98118128	1	25.4	1.5	38.1	350	12	Black	11'	9.62	EA
98118130	1	25.4	1.5	38.1	350	12	Black	12'	10.4	EA
98118135	1	25.4	1.5	38.1	350	12	Black	12.5'	10.79	EA
98118140	1	25.4	1.5	38.1	350	12	Black	14'	11.96	EA
98118145	1	25.4	1.5	38.1	350	12	Black	15'	12.74	EA
98118150	1	25.4	1.5	38.1	350	12	Black	16'	13.52	EA
98118155	1	25.4	1.5	38.1	350	12	Black	17'	14.3	EA
98118160	1	25.4	1.5	38.1	350	12	Black	18'	15.08	EA
98118165	1	25.4	1.5	38.1	350	12	Black	20'	16.64	EA
98118170	1	25.4	1.5	38.1	350	12	Black	25'	20.54	EA
98118192	1-1/4	31.8	1.78	45.24	350	16.5	Black	3'	5.19	EA
98118195	1-1/4	31.8	1.78	45.24	350	16.5	Black	3'	5.19	EA
98118200	1-1/4	31.8	1.78	45.24	350	16.5	Black	4'	6.24	EA
98118205	1-1/4	31.8	1.78	45.24	350	16.5	Black	5'	7.29	EA
98118210	1-1/4	31.8	1.78	45.24	350	16.5	Black	6'	8.34	EA
98118215	1-1/4	31.8	1.78	45.24	350	16.5	Black	8'	10.44	EA
98118220	1-1/4	31.8	1.78	45.24	350	16.5	Black	9'	11.49	EA
98118225	1-1/4	31.8	1.78	45.24	350	16.5	Black	10'	12.54	EA
98118230	1-1/4	31.8	1.78	45.24	350	16.5	Black	12'	14.64	EA
98118235	1-1/4	31.8	1.78	45.24	350	16.5	Black	12.5'	15.16	EA
98118240	1-1/4	31.8	1.78	45.24	350	16.5	Black	14'	16.74	EA
98118245	1-1/4	31.8	1.78	45.24	350	16.5	Black	15'	17.79	EA
98118250	1-1/4	31.8	1.78	45.24	350	16.5	Black	16'	18.84	EA
98118260	1-1/4	31.8	1.78	45.24	350	16.5	Black	18'	20.94	EA
98118265	1-1/4	31.8	1.78	45.24	350	16.5	Black	20'	23.04	EA
98118270	1-1/4	31.8	1.78	45.24	350	16.5	Black	25'	28.29	EA
98118275	1-1/4	31.8	1.78	45.24	350	16.5	Black	30'	33.54	EA
98118300	1-1/2	38.1	2.03	51.61	350	20	Black	4'	7.43	EA
98118310	1-1/2	38.1	2.03	51.61	350	20	Black	6'	9.71	EA
98118335	1-1/2	38.1	2.03	51.61	350	20	Black	12.5'	17.12	EA
98118345	1-1/2	38.1	2.03	51.61	350	20	Black	15'	19.97	EA
98118350	1-1/2	38.1	2.03	51.61	350	20	Black	16'	21.11	EA
98118365	1-1/2	38.1	2.03	51.61	350	20	Black	20'	25.67	EA
98118370	1-1/2	38.1	2.03	51.61	350	20	Black	25'	31.37	EA
98118375	1-1/2	38.1	2.03	51.61	350	20	Black	30'	37.07	EA
98118383	2	50.8	2.65	67.36	350	25	Black	8'	20.27	EA
98118385	2	50.8	2.65	67.36	350	25	Black	12'	27.35	EA
98118400	2	50.8	2.65	67.36	350	25	Black	15'	32.66	EA
98118403	2	50.8	2.65	67.36	350	25	Black	16'	34.43	EA
98118405	2	50.8	2.65	67.36	350	25	Black	18'	37.97	EA
98118410	2	50.8	2.65	67.36	350	25	Black	20'	41.51	EA
98118412	2	50.8	2.65	67.36	350	25	Black	25'	50.36	EA

ANHYDROUS AMMONIA (NH3) NYLON REINFORCED SMART-HOSE™ – ASSEMBLIES

The Smart-Hose™ safety system features a unique, patented design that eliminates the potential for catastrophic consequences resulting from the uncontrolled release of product due to coupling ejection, hose stretching to an unsafe condition, and/or hose separation. Every Smart-Hose™ assembly utilizes a plunger, wedge, or flapper valve to shut off the flow of product instantly in both directions during the above instances.

- Tube/Cover Material: EPDM
- Reinforcement: Nylon Braids
- Temperature: -40°F to 180°F
- Fittings: Female Pipe Thread x Female Pipe Thread Crimped

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	COVER COLOR	LENGTH	WEIGHT (LBS)	U/M
11035509	1-1/4	31.75	1.75	44.45	350	12	Black	19'	30	EA
11035650	2	50.8	2.75	69.85	350	16	Black	18'	46	EA

HOSE SAFETY

The Parker Circle of Safety program was the first to recognize and address the exorbitant costs of industrial hose litigation. Although organizations such as NAHAD, in cooperation with Parker and other industry leaders, have established basic hose assembly design and fabrication training programs, there are few comprehensive industrial hose assembly safety standards similar to those established for high-pressure hydraulic hose applications. Since many suppliers in this industry manufacture only one hose assembly component—hose, couplings, or attachment devices—there is great risk for a hose assembly failure due to mismatched or unqualified components. The innovative Parker Circle of Safety program was the first to build a tested and validated link between the component supplier (Parker), the distributor/fabricator and the end-user of the industrial hose assembly. No more mixing and matching of components means no more worries. Parker is the preferred single-source for safe and reliable hose assembly solutions in a wide range of applications and markets.

ANHYDROUS AMMONIA (NH3) HOSE CARE & MAINTENANCE

Important – Read Carefully

Anhydrous Ammonia (NH3) hose has a limited life and the user must be alert to signs of impending failure. Periodic inspection and testing, as described in the Association for Rubber Products Manufacturers (ARPM) publication: IP-11-2, Anhydrous Ammonia Hose Manual for Maintenance, Testing, and Inspection, is recommended to detect signs indicating hose deterioration or loss of performance before conditions leading to malfunction or failure are reached.

All new hose assemblies should be inspected prior to use to determine if they have been damaged in storage or shipment. Hose subjected to severe usage - for example, dragged over sharp rock surfaces, or sharply bent in storage or continually exposed to weather - will deteriorate more rapidly than carefully handled hose. The hose should be visually inspected each day before use.

Inspection Procedure

Lay out the full length of the hose in a clean and preferably dry area. Inspect the outside cover of the hose for blistering, excessive abrasion or cuts, and coupling slippage. This inspection should be made when the hose is not under pressure.

- Cuts in hose cover, which expose or damage the reinforcement are cause for immediate replacement. Small cuts, nicks, or gouges in the cover which do not go completely through the cover are not cause for replacement of the hose. Hose strength is controlled by the plies of reinforcement, and for this reason, damage in this area cannot be tolerated.

  Note: *Pricking the hose cover is necessary for satisfactory hose performance. A uniformly pricked cover should not be viewed with alarm.*
- Damage to the textile or wire braid is cause for immediate hose replacement. Wire braid reinforced hose that has been kinked or flattened, so as to permanently deform the wire braid in the depressurized state, should be removed from service.
- Blistering or loose outer cover is cause for immediate hose replacement.
- Examine couplings for slippage. Only permanently attached fittings are to be used with anhydrous ammonia hose. Bolt on or clamp on type fittings must not be used. Slippage is evidenced by the misalignment of the hose and coupling and/or the scored or exposed area where slippage has occurred. Any evidence of slippage is cause for immediate hose replacement.

WARNING: A failure in service can result in injury to personnel or damage to property. Do not use at temperatures or pressures above those recommended by Parker . Anhydrous ammonia is extremely volatile - and poisonous - in both liquid and gaseous (vapor) states. Contact with either state of anhydrous ammonia will burn skin, and is especially damaging to the eyes and lungs. Improper hose applications or failure to inspect the hose may lead to life-threatening situations - poisonous gas leakages, fires, or explosions. Do not use anhydrous ammonia hose for LP gas, natural gas or refrigeration applications. Do not use with male swivel couplings. Do not use LP gas hose for anhydrous ammonia applications.

Assemblies are available with stainless steel or nylon reinforcement, and come with 2 male x male crimp-on fittings. Apache coupled hoses carry a prorated warranty.

Note: Warranty on bulk anhydrous ammonia hose is valid ONLY when coupled by a Parker certified coupler, using Parker specified couplings.

Visit www.apache-inc.com/NH3Safety for additional Anhydrous Ammonia Hose Care & Maintenance instructions.

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Monomer

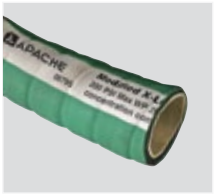
Apache is an authorized Parker NH3 Coupler / Assembler.

XLPE CHEMICAL HOSE

MODIFIED XLPE CHEMICAL HOSE – BULK/UNCOUPLED

This hose is great for cleaning with open end 50 PSI steam or in a bath containing 10% Sodium Hydroxide at 212°F. Its modified cross-linked polyethylene tube is "Best in Class" for maintaining a tight seal with stainless steel crimped fittings.

- Tube Material: Modified XLPE
- Cover Material: Corrugated EPDM
- Negative Pressure (in/HG): 30
- Reinforcement: 2 Textile Plies with Dual Steel Helix Wires
- Temperature: -40°F to 250°F*
- Apache Branded



PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	COVER COLOR	STANDARD LENGTH	WEIGHT (LBS/FT)	U/M
12096050	1	25.4	1.5	38.1	200	5	Black	100'	0.56	FT
12096051	1-1/2	38.1	2.19	55.58	200	8	Black	100'	0.87	FT
12096052	2	50.8	2.81	71.45	200	9	Black	100'	1.1	FT
12096054	3	76.2	3.91	99.21	150	18	Black	100'	1.79	FT
12096400	3/4	19.1	1.25	31.75	200	4	Green	100'	0.45	FT
12096401	1	25.4	1.5	38.1	200	5	Green	100'	0.56	FT
12096402	1-1/4	31.75	1.94	49.28	200	6	Green	100'	0.68	FT
12096403	1-1/2	38.1	2.19	55.58	200	8	Green	100'	0.87	FT
12096404	2	50.8	2.81	71.45	200	9	Green	100'	1.1	FT
12096405	3	76.2	3.91	99.21	150	18	Green	100'	1.79	FT

*Contact customer service for applications above 125°F.

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Monome

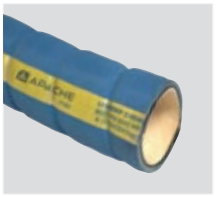
XLPE = Cross Link Polyethylene

UHMW CHEMICAL HOSE

UHMW CHEMICAL HOSE – BULK/UNCOUPLED

A durable corrugated cover makes this hose the most flexible chemical hose on the market. This hose will handle 98% of the common chemicals without leaching/contamination.

- Tube Material: UHMW
- Cover Material: Corrugated EPDM
- Negative Pressure (in/HG): 30
- Reinforcement: 2 Textile Plies with Dual Steel Helix Wires
- Temperature: -40°F to 250°F
- Apache Branded



PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	COVER COLOR	STANDARD LENGTH	WEIGHT (LBS/FT)	U/M
12096001	1	25.4	1.52	38.61	200	3.5	Blue	100'	0.63	FT
12096002	1-1/2	38.1	2.13	54.1	200	4	Blue	100'	1.03	FT
12096003	2	50.8	2.64	67.06	200	6	Blue	100'	1.33	FT
12096004	2-1/2	63.5	3.13	79.5	200	7	Blue	100'	1.78	FT
12096005	3	76.2	3.73	94.74	200	9	Blue	100'	2.12	FT
12096006	4	101.6	4.68	118.87	150	10	Blue	100'	2.83	FT

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Monome

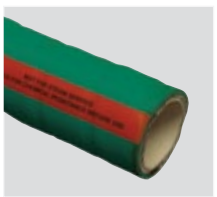
UHMW = Ultra High Molecular Weight

Negative pressure also commonly referred to as vacuum rating.

UHMW CRUSH RESISTANT CHEMICAL HOSE BULK/UNCOUPLED

This special kink and crush resistant UHMW suction and discharge hose utilizes multiplies of tire cord, dual monofilament helix rods, and a static dissipating wire. Excellent for use in demanding abusive transfer applications.

- Tube Material: UHMW
- Cover Material: EPDM
- Negative Pressure (in/HG): 30
- Reinforcement: Textile Plies with Dual Monofilament Helix
- Temperature: -40°F to 250°F
- Apache Branded



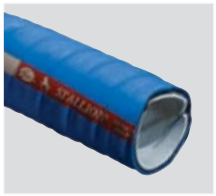
PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	COVER COLOR	STANDARD LENGTH	WEIGHT (LBS/FT)	U/M
12095600	1	25.4	1.5	38.1	200	4	Green	100'	0.49	FT
12095601	1-1/2	38.1	2	50.8	200	5	Green	100'	0.64	FT
12095602	2	50.8	2.66	67.56	200	7	Green	100'	1.28	FT
12095604	3	76.2	3.67	93.22	200	10	Green	100'	1.92	FT

TEFLON® CHEM MASTER™ STALLION – BULK/UNCOUPLED

This hose has a PTFE or FEP tube for resistance to most chemicals, and is backed by Gates Gatron™ which improves flex fatigue at the coupling. Its monofilament helix makes it crush resistant, so it is excellent for abusive applications.

- Tube Material: PTFE/FEP Teflon™
- Cover Material: Corrugated EPDM
- Negative Pressure (in/HG): 30
- Temperature: -40°F to 300°F
- Reinforcement: Textile Plies with Monofilament Helix

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	COVER COLOR	STANDARD LENGTH	WEIGHT (LBS/FT)	U/M
12094002	1	25.4	1.59	40.39	200	5	Blue	100'	0.63	FT
12094005	1-1/2	38.1	2.05	52.07	200	8	Blue	100'	0.93	FT
12094007	2	50.8	2.55	64.77	200	9	Blue	100'	1.18	FT
12094011	3	76.2	3.59	91.19	150	18	Blue	100'	1.83	FT
12094013	4	101.6	4.66	118.36	125	24	Blue	100'	2.74	FT



DESCRIPTION ABBREVIATION KEY

EDPM = Ethylene Propylene Diene Monome

FEP = Fluorinated Ethylene Propylene

PTFE = Polytetrafluro-ethylene

EPDM CHEMICAL TRANSFER PUMP HOSE – ASSEMBLIES

General purpose EPDM chemical transfer pump hose assemblies are for agricultural chemicals and pesticides. Male Pipe Thread x Male Pipe Thread polyethylene fittings attached with smooth bore preformed clamps, and Male Pipe Thread x Male Pipe Thread die cast steel fittings are crimped with aluminum ferrules as designated. Below are the industries most common sizes.

- Tube/Cover Material: EPDM
- Reinforcement: Spiral Textile Cords
- Temperature: -40°F to 212°F
- Black Hose Fittings: Crimped Metal Male Pipe Thread x Male Pipe Thread
- Red Hose Fittings: Banded Poly Male Pipe Thread x Male Pipe Thread

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	COVER COLOR	LENGTH	WEIGHT (LBS)	U/M
2-SPIRAL										
98108743	1	25.4	1.39	35.33	200	7	Black	12'	6.6	EA
4-SPIRAL										
98108990	3/4	19.05	1.16	29.36	300	6	Red	12'	6.5	EA
98108991	3/4	19.05	1.16	29.36	300	6	Red	14'	6.9	EA
98108992	1	25.4	1.39	35.33	300	8	Red	12'	6.5	EA
98108993	1	25.4	1.39	35.33	300	8	Red	14'	7.6	EA

NYLON TUBE CHEMICAL TRANSFER HOSE – BULK/UNCOUPLED

Chemical hose for medium pressure transfer of liquid agricultural chemicals and pesticides, ketone solvents, lacquers, and high aromatic paints and thinners.

- Tube Material: Nylon
- Cover Material: Oil Resistant Neoprene
- Cover Color: Black
- Reinforcement: Multiple Polyester Plies
- Temperature: -40°F to 150°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	STANDARD REEL LENGTH	WEIGHT (LBS)	U/M
10075202	1/4	6.35	0.49	12.4	500	3	500'	0.09	FT
10075204	3/8	9.53	0.68	17.27	500	4	500'	0.16	FT
10075206	1/2	12.7	0.88	22.23	500	5	750'	0.25	FT
10075208	3/4	19.05	1.15	29.21	500	7	500'	0.4	FT
10075505	1	25.4	1.5	38.1	500	9	500'	0.56	FT

DUCTING & VACUUM HOSE

DUST COLLECTION

Negative Pressure also commonly referred to as Vacuum Rating

30 in/HG = Full Vacuum

NEOPRENE COATED FABRIC WITH WIRE HELIX (CW-GP) – BULK/UNCOUPLED

This rubber ducting hose is constructed of a 2-ply, black neoprene coated, polyester fabric reinforced with a steel spring wire. The neoprene coating provides excellent flexibility, durability, abrasion resistance, chemical resistance, and weather resistance, while the steel spring wire provides crush resistance. This hose handles both positive and negative pressures, and is listed as UL 94V-0 flame retardant. It is a great low pressure hose for air handling, dust collection, fume control, and ventilation.

- Tube Material: Neoprene
- Reinforcement: 2-ply Fabric with Steel Spring Wire
- Cover Material: Neoprene
- Temperature: -40°F to 250°F
- UL 94V-0 Flame Retardant
- Standard Length: 25'
- Cover Color: Black

PART#	ID (IN)	ID (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M	NEGATIVE PRESSURE (IN/HG)
14001018	1-1/2	38.1	30	1.7	0.17	FT	29
14002006	2	50.8	30	2	0.25	FT	29
14003002	2-1/2	63.5	30	2.25	0.29	FT	29
14003509	3	76.2	30	2.5	0.34	FT	29
14004505	4	101.6	30	3.1	0.56	FT	29
14005501	5	114.3	17	3.5	0.75	FT	17
14006508	6	152.4	11	4.5	0.95	FT	21
14007008	7	177.8	8	5	0.99	FT	14
14007504	8	203.2	7	6	1.1	FT	12
14007524	9	228.6	6	6.5	1.2	FT	9
14008004	10	254	5	7.5	1.3	FT	7
14008500	12	304.8	4	8	1.5	FT	4
14009002	14	355.6	4	10	2.2	FT	3.7
14009015	16	406.4	3	12	2.5	FT	2.5
14009016	18	457.2	3	13	2.8	FT	1.8
14009025	20	508	3	14	3.1	FT	1.3
14009028	24	609.6	2	17	3.8	FT	0.75

MANHOLE VENTILATION DUCTING HOSE – WITH CUFFS

This ducting hose is designed for transferring large volumes of low pressure air for ventilation. It is constructed from 1-ply neoprene coated synthetic fabric, with an enclosed wire helix, vinyl wearstrip, and a built-in sleeve on both ends for ease of connecting to equipment.

- Tube Material: Neoprene
- Reinforcement: 1-ply Fabric with Steel Spring Wire
- Cover Material: Neoprene
- Temperature: -40°F to 250°
- Cover Color: Yellow

PART#	ID (IN)	ID (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	LENGTH	WEIGHT (LBS)	U/M	NEGATIVE PRESSURE (IN/HG)
14010700	8	203.2	132	4.6	15'	26.22	EA	30
14010706	8	203.2	132	4.6	25'	39.36	EA	30

POLYETHYLENE DUCTING HOSE – BULK/UNCOUPLED

This lightweight, very flexible polyethylene hose is reinforced with an integral polyethylene helix. It is most suitable for light vacuum applications, fume extraction, and low pressure air movement. Its crush resistance and moderate abrasion resistance also makes it an economical choice for woodworking and dust collection applications.

- Tube Material: Polyethylene
- Reinforcement: Integral Polyethylene Helix
- Cover Material: Polyethylene
- Temperature: -40°F to 140°F
- Cover Color: Black

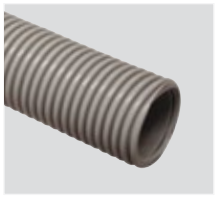
PART#	ID (IN)	ID (MM)	MAX. PSI @ 75°F	MIN. BEND RADIUS @ 68°F	WEIGHT (LBS)	U/M	NEGATIVE PRESSURE (IN/HG)
14010313	2-1/2	63.50	11	3	0.22	FT	16
14010314	3	76.20	11	4	0.27	FT	10
14010315	4	101.60	10	7	0.36	FT	8

CBS VACUUM HOSE – BULK/UNCOUPLED

This vacuum hose is a highly flexible Ethylene Vinyl Acetate (EVA) hose constructed of an interlocking, self supporting design created for maximum crush resistance and durability. This hose works well for vacuum cleaning, dust collection, chemical venting, and light material handling.

- Tube Material: EVA
- Reinforcement: EVA Helix
- Cover Material: EVA
- Temperature: -65°F to 140°F
- Cover Color: Gray

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS @ 68°F	WEIGHT (LBS)	U/M	NEGATIVE PRESSURE (IN/HG)
12041500	1-1/4	31.75	1.58	40.13	22	3.5	0.26	FT	20
12042000	1-1/2	38.10	1.90	48.26	20	4	0.32	FT	18
12042507	2	50.80	2.40	60.96	14	4.3	0.56	FT	18



PVC MOLDED CUFFS (CBS)

PVC molded cuffs screw onto CBS vacuum hose to create a smooth end that easily attaches to vacuum systems. Clamps are not required.

PART#	SIZE (IN)	SIZE (MM)	MAX.TEMP	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
12043503	1-1/4	31.75	140°F	140	0.04	EA
12044003	1-1/2	38.10	140°F	140	0.045	EA
12045506	2	50.80	140°F	140	0.55	EA

DESCRIPTION ABBREVIATION KEY

EVA = Ethyl Vinyl Acetate

PVC = Poly Vinyl Chloride

For heavy-duty applications see additional material handling hose on p. 74

LAWN & LEAF

URETHANE DUCTING – BULK/UNCOUPLED

This urethane ducting hose provides excellent resistance to abrasion, chemicals, ozone, and weathering, while the steel spring wire helix provides crush resistance and helps the hose hold its shape during operation. A great low pressure hose for more demanding applications like lawn/leaf/dust collection, straw blowing, fertilizer broadcasting, and bulk material handling.

- Tube Material: Urethane
- Reinforcement: Steel Spring Wire Helix
- Cover Material: Urethane
- Temperature: -65°F to 200°F
- Cut Piece Available: No
- Standard Length: 25'
- Wall: 0.035in / 0.89mm

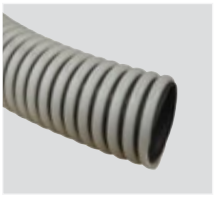
PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 68°F	MIN. BEND RADIUS @ 68°F	WEIGHT (LBS)	NEGATIVE PRESSURE (IN/HG)	U/M
BLACK											
14010640	2	50.8	2.29	58.17	0.035	0.89	33	2.5	0.28	29	FT
14010642	3	76.2	3.32	84.33	0.035	0.89	27	3.5	0.53	29	FT
14010644	4	101.6	4.34	110.24	0.035	0.89	18	4.5	0.69	28	FT
14010645	5	127	5.34	135.64	0.035	0.89	16	5.5	0.81	26	FT
14010646	6	152.4	6.37	161.80	0.035	0.89	14	6.25	1.23	23.5	FT
CLEAR											
14010588	2	50.8	2.29	58.17	0.035	0.89	33	2.5	0.28	29	FT
14010593	3	76.2	3.32	84.33	0.035	0.89	27	3.5	0.53	29	FT
14010595	4	101.6	4.34	110.24	0.035	0.89	18	4.5	0.69	28	FT
14010597	5	127.0	5.34	135.64	0.035	0.89	16	5.5	0.81	26	FT
14010598	6	152.4	6.37	161.80	0.035	0.89	14	6.25	1.23	23.5	FT

AIR SEEDER

AIR SEEDER DUCTING – BULK/UNCOUPLED

This ducting hose is commonly used on air seeder applicator equipment in the agricultural industry. Its EPDM tube gives it more abrasion resistance than most air seeder hoses, and the rigid external poly helix provides excellent protection from machine vibration.

- Tube Material: EPDM
- Reinforcement: External Poly Spiral Helix
- Cover Material: Polyethylene
- Temperature: -30°F to 140°F
- Cover Color: Gray/Black



PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS @ 68°F	WEIGHT (LBS)	U/M
12026190	2	50.8	2.42	61.47	128	4	0.45	FT
12026191	2-1/2	63.5	3	76.2	129	5	0.65	FT
12026192	3	76.2	3.59	91.19	130	6	0.89	FT
12026193	4	101.6	4.68	118.87	131	7	1.27	FT

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Methylene

FIRE SUPPRESSION

SINGLE JACKET – ASSEMBLIES

A 100% polyester woven, single jacket hose with a single-ply extruded EPDM rubber lining. Hose comes coupled with internally expanded male and female, national standard thread, aluminum rocker lug couplings. This hose meets NFPA 1961 requirements and is good for Emergency Fire Protection when your water source does not exceed 135# pressure. It coils tight for easy storage and is mildew resistant.

- Tube Material: EPDM
- Reinforcement: 100% Polyester Fabric
- Meets NFPA 1961 requirements
- Cover Material: 100% Polyester Jacket
- Temperature: -40°F to 200°F
- Max PSI: 135
- Fittings: Male x Female Aluminum Rocker Lug

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	SERVICE TEST PSI	COVER COLOR	LENGTH	ACCEPTANCE TEST PSI	WEIGHT (LBS)	U/M
16003522	1-1/2	38.1	1.75	44.45	150	White	50'	600	10.5	EA
16004014	2-1/2	63.5	2.81	71.45	150	White	50'	600	19	EA

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Monomer

NFPA 1961 requirements apply to attack hose, supply hose, occupant use hose, forestry hose, and suction hose. Types of tests include kink, burst, adhesion, ozone resistance, cold bending, as well as flexibility and compressibility.

DOUBLE JACKET – ASSEMBLIES

The best 100% polyester woven double jacket hose with a high grade single-ply extruded EPDM rubber lining. Hose comes coupled with internally expanded, male and female, national standard threads extruded, aluminum rocker lug couplings. This hose meets NFPA 1961 requirements for attack grade fire hose, and is therefore a great choice for Emergency Fire Protection. It coils tight for easy storage and is mildew resistant.

- Tube Material: EPDM
- Reinforcement: 100% Polyester Fabric
- Meets NFPA 1961 requirements
- Cover Material: 100% Polyester Jacket
- Temperature: -40°F to 200°F
- Max PSI: 270
- Fittings: Male x Female Aluminum Rocker Lug

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	SERVICE TEST PSI	COVER COLOR	LENGTH	ACCEPTANCE TEST PSI	WEIGHT (LBS)	U/M
16018007	1-1/2	38.1	1.75	44.45	300	Yellow	50'	600	15	EA
16018503	2-1/2	63.5	2.81	71.44	300	Yellow	50'	600	28	EA

NITRILE COVER HOSE – ASSEMBLIES

See p. 130 for layflat washdown hoses

A rubber industrial fire suppression or washdown hose with 100% synthetic reinforcement. This hose provides abrasion, oil, and heat resistance, as well as long service life. It is coupled with internally expanded, male and female, national standard thread extruded, aluminum rocker lug couplings.

- Tube Material: Nitrile Rubber
- Reinforcement: 100% Synthetic Fabric
- Cover Material: Nitrile Rubber
- Temperature: -40°F to 200°F
- Max PSI: 270
- Fittings: Male x Female Aluminum Rocker Lug

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	COVER COLOR	LENGTH	ACCEPTANCE TEST PSI	WEIGHT (LBS)	U/M
16014050	1-1/2	38.1	1.75	44.45	250	Red	50'	500	11	EA
16014052	2-1/2	63.5	2.75	69.85	250	Red	50'	500	20	EA

BRASS HYDRANT ADAPTERS

Brass hydrant adapters are machined from solid brass castings. They are designed to adapt standard fire hydrants to smaller fire hose couplings, and to couplings with other thread types, like national pipe thread and garden hose thread. Other styles and sizes are available upon request.

PART#	THREAD	WEIGHT (LBS)	U/M
46036523	1-1/2" Female National Standard Thread x 1-1/2" Male National Pipe Thread	1.15	EA
46038550	2-1/2" Female National Standard Thread x 3/4" Male Garden Hose Thread	1.31	EA
46036018	2-1/2" Female National Standard Thread x 1-1/2" Male National Standard Thread	1.25	EA
46038509	2-1/2" Female National Standard Thread x 1-1/2" Male National Pipe Thread	1.25	EA
46041011	2-1/2" Female National Standard Thread x 2" Male National Pipe Thread	1.38	EA
46039118	2-1/2" Female National Standard Thread x 2-1/2" Male National Pipe Thread	1.61	EA
46040007	2-1/2" Female National Standard Thread x 3" Male National Pipe Thread	2.58	EA

HYDRANT WRENCHES

Hydrant wrenches are multi-functional tools designed specifically for the fire protection industry. They have:

- Durable, malleable iron head
- Steel handle
- Plated finish that resists rust and corrosion

The standard wrench is lightweight and will adjust 3/4" through 3" rocker and pin lug fittings. The heavy-duty wrench will adjust 1-1/2" through 6" rocker and pin lug fittings, pentagon hydrant nuts up to 1-3/4", and is notched to fit 1-1/4" square hydrant nuts.

PART#	STYLE	WEIGHT (LBS)	U/M
46045715	Standard Wrench	2.7	EA
46040007	Heavy-Duty Wrench	4.7	EA

See p. 30 for additional water nozzles

THERMOPLASTIC FOG NOZZLE

The thermoplastic fog nozzle is lightweight and fully adjustable from fog to stream. This nozzle has a rubber bumper to protect it from damage if dropped, and comes complete with a gasket.

PART#	THREAD	MAX PSI (LBS)	GALLONS PER MINUTE	SPRAY	WEIGHT (LBS)	U/M
46045007	3/4" Female National Straight Hose	100	30.9 @ 100 PSI	120°	0.33	EA
46045008	1" Female National Straight Hose	100	11.4 @ 100 PSI	120°	0.48	EA
46045505	1-1/2" Female National Straight Hose	100	83.6 @ 100 PSI	90°	0.57	EA
46045009	1-1/2" Female National Standard Thread	100	83 @ 100 PSI	90°	0.57	EA

BRASS FOG NOZZLE

This brass industrial fog nozzle is the best choice when a highly durable, adjustable nozzle is needed. It shuts off completely, and will deliver a fog pattern of 30/60/90 degree or a straight stream. FM Approved

PART#	THREAD	MAX PSI (LBS)	GALLONS PER MINUTE	SPRAY	WEIGHT (LBS)	U/M	U/L LISTED
46045574	1" Female National Pipe Straight Hose	175	36 @ 100 PSI	90°	1.2	EA	Yes
46045578	1" Female National Standard Thread	175	36 @ 100 PSI	90°	1.2	EA	Yes
46045576	1-1/2" Female National Pipe Straight Hose	175	85 @ 100 PSI	90°	1.5	EA	Yes
46045579	1-1/2" Female National Standard Thread	175	85 @ 100 PSI	90°	1.5	EA	Yes
46045509	2" Female National Pipe Straight Hose	175	108 @ 100 PSI	90°	2.4	EA	No
46045580	2-1/2" Female National Standard Thread	175	205 @ 100 PSI	90°	3.3	EA	No

ALUMINUM FORESTRY FOG NOZZLE

This aluminum forestry fog nozzle is fully adjustable from fog to stream. Contains a flow rate of 25 to 70 gallons per minute (GPM).

PART#	THREAD	MAX PSI (LBS)	GALLONS PER MINUTE	WEIGHT (LBS)	U/M
46045511	1-1/2" Female National Standard Thread	600	12 & 25 @ 100 PSI	0.91	EA

FOOD SERVICE HOSE

RUBBER

DESCRIPTION ABBREVIATION KEY

NBR = Nitrile Butadiene Rubber (Buna-N)

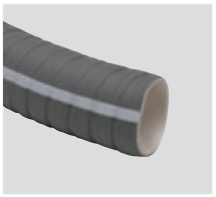
PVC = Poly Vinyl Chloride

SBR = Styrene Butadiene Rubber

FOOD SUCTION – BULK/UNCOUPLED

This gray food hose is designed for transferring liquid food products, including edible oils. Its constructed of multiple synthetic fabric plies, smooth FDA approved NBR tube, and abrasion resistant NBR/PVC cover. Its dual wire helix and corrugated cover make it very flexible compared to similar products.

- Tube Material: NBR
- Cover Material: NBR/PVC
- Cover Color: Gray
- Reinforcement: Synthetic Textile with Dual Helix Wire
- Temperature: -30°F to 200°F

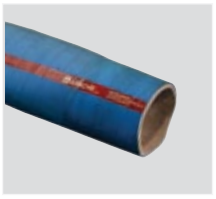


PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
12096996	1-1/2	38.1	2.19	55.63	150	3	1.2	FT
12096998	2	50.8	2.69	68.33	150	4	1.6	FT
12097000	3	76.2	3.72	94.49	150	6	2.3	FT
12097002	4	101.6	7.8	198.12	150	8	3.4	FT

FLOUR DISCHARGE – BULK/UNCOUPLED

Our dry food discharge hose is constructed of a white FDA approved natural rubber tube, making it ideal for the transfer of flour, sugar, and other dry edible food products. It has an abrasion resistant and weather resistant SBR cover. An internal static-dissipating wire prevents electrical shock and explosion when grounded properly.

- Tube Material: Natural Rubber
- Cover Material: SBR
- Cover Color: Blue
- Reinforcement: Polyester Tire Cord
- Temperature: -40°F to 160°F

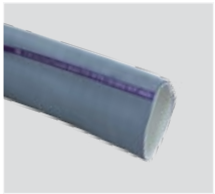


PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
12100200	4	101.6	4.69	119.13	125	48	3.76	FT

BULK COMMODITY DISCHARGE (610W) – BULK/UNCOUPLED

The bulk commodity hose is designed for pneumatic transfer of flour and other dry food products requiring a sanitary FDA tube. It has a high tensile synthetic reinforcement with static conductor, a 3/16" thick natural rubber tube for long service life, and a gray non-marking natural rubber cover for abrasion resistance.

- Tube Material: Natural Rubber
- Cover Material: Natural Rubber
- Cover Color: Gray
- Reinforcement: High Tensile Synthetic Cord with Static Conductor
- Temperature: -40°F to 150°F



PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
13030238	4	101.6	4.56	115.82	40	48	2.22	FT
13030240	5	127	5.56	141.22	30	60	2.73	FT
13030242	6	152.4	6.56	166.62	25	72	3.25	FT

DAIRY WASHDOWN – BULK/UNCOUPLED

Food washdown hose is designed for washdown service in dairies, creameries, packing houses, and food processing plants. It has a white EPDM cover that is abrasion resistant and scuff resistant. Its black EPDM tube will handle 200°F water up to 50 PSI.

- Tube Material: EPDM
- Cover Material: EPDM
- Cover Color: White
- Reinforcement: Spiral Polyester Yarn
- Temperature: -40°F to 180°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	REEL LENGTH	WEIGHT (LBS)	U/M
10059000	1/2	12.70	0.91	23.02	250	3.00	700'	0.29	FT
10059001	3/4	19.05	1.25	31.75	250	4.50	600'	0.5	FT

DAIRY WASHDOWN – ASSEMBLIES

Food washdown hose is designed for washdown service in dairies, creameries, packing houses, and food processing plants. It has a white EPDM cover that is abrasion resistant and scuff resistant. Its black EPDM tube will handle 200°F water up to 50 PSI.

- Tube Material: EPDM
- Cover Material: EPDM
- Cover Color: White
- Reinforcement: Spiral Polyester Yarn
- Temperature: -40°F to 180°F
- Fittings: Male x Female Brass GHT

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	LENGTH	WEIGHT (LBS)	U/M
97103790	3/4	19.05	1.25	31.75	250	4.5	25'	13.1	EA
97103795	3/4	19.05	1.25	31.75	250	4.5	50'	25.1	EA
97103800	3/4	19.05	1.25	31.75	250	4.5	100'	50.1	EA

OIL-RESISTANT WASHDOWN – ASSEMBLIES

Food washdown hose is designed for washdown service in dairies, creameries, packing houses, and food processing plants. It has a white NBR/PVC cover that is oil resistant and scuff resistant. Its black SBR tube stands up to hot water and steam. It also resists saturated steam pressure up to 287°F at 40 PSI or less, in open end service.

- Tube Material: SBR
- Cover Material: NBR/PVC
- Cover Color: White
- Reinforcement: Multiple Fabric Plies
- Temperature: -40°F to 160°F
- Fittings: Male x Female Brass GHT

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	LENGTH	WEIGHT (LBS)	U/M
97103305	3/4	19.05	1.16	29.46	125	4.5	25'	10.1	EA
97103310	3/4	19.05	1.16	29.46	125	4.5	50'	20.1	EA

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Methylene

GHT = Garden Hose Thread

NBR = Nitrile Butadiene Rubber (Buna-N)

PVC = Poly Vinyl Chloride

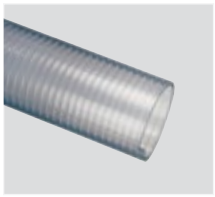
SBR = Styrene Butadiene Rubber

PVC

CLEAR FOOD HOSE – BULK/UNCOUPLED

The heavy-duty clear PVC food hose is constructed of an extruded PVC tube and cover with a rigid polypropylene helix. Its clear wall allows visibility of product flow and works well in milk handling or other food processing applications. This hose is 3A and FDA compliant and is acceptable in USDA inspection environments.

- Tube/Cover Material: PVC
- Reinforcement: Rigid PVC Helix
- Temperature: -4°F to 130°F
- Cover Color: Clear
- Negative Pressure (in/HG) 30@68˚F



PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 68°F	MIN. BEND RADIUS (IN) @ 68°F	WEIGHT (LBS)	U/M
12110006	1-1/2	38.1	1.82	46.23	90	5	0.47	FT
12112705	2	50.8	2.36	59.94	70	6	0.66	FT
12111509	3	76.2	3.44	87.38	60	9	1.25	FT
12112009	4	101.6	4.52	114.81	50	13	1.87	FT

DESCRIPTION ABBREVIATION KEY

PVC = Poly Vinyl Chloride

Negative Pressure also commonly referred to as Vacuum Rating

30 in/HG = Full Vacuum

HYDRAULIC HOSE & ACCESSORIES

100R1AT & 100R2AT HYDRAULIC HOSE – BULK/UNCOUPLED

High pressure hydraulic lines meet SAE standards.

- Tube Material: NBR
- Cover Material: SBR/CR/BR
- Cover Color: Black
- Reinforcement: High Tensile Steel Braids
- Temperature: -40°F to 212°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX PSI	MIN. END RADIUS (IN)	SAE	WEIGHT (LBS)	U/M
SAE 100R1at									
39000683	1/4	6.35	0.53	13.46	2750	3.94	100R1AT	0.15	FT
39000692	3/8	9.53	0.69	17.53	2250	5.12	100R1AT	0.21	FT
39000687	1/2	12.7	0.81	20.57	2000	7.09	100R1AT	0.27	FT
39000694	3/4	19.05	1.09	27.69	1250	9.45	100R1AT	0.38	FT
SAE 100RZAT									
39000654	1/4	6.35	0.59	15.09	5000	3.94	100R2AT	0.24	FT
39000658	3/8	9.53	0.75	19.1	4000	5.12	100R2AT	0.32	FT
39000660	1/2	12.7	0.88	22.3	3500	7.09	100R2AT	0.4	FT
39000664	3/4	19.05	1.16	29.39	2250	9.45	100R2AT	0.57	FT

DESCRIPTION ABBREVIATION KEY

BR = Butadiene Rubber

CR = Chloroprene Rubber

NBR =Nitrile Butadiene Rubber (Buna-N)

SBR = Styrene Butadiene Rubber

SAE standard provides general, dimensional, and performance specifications for the most common hoses and couplings used in hydraulic systems.

2-WIRE 100R2A7 HYDRAULIC HOSE – ASSEMBLIES

Assemblies meet SAE 100R2AT standards. They are coiled and sleeved for easy storage, and labeled with size and specification for easy identification.

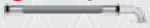
- Tube Material: NBR
- Cover Material: SBR/CR/BR
- Temperature: -40°F to 212°F
- Reinforcement: 2 High Tensile Steel Braids
- Fittings: Male Pipe Thread x Male Pipe Thread
- Cover Color: Black

PACKAGED PART#	UNPACKAGED PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	LENGTH	WEIGHT (LBS)	U/M
5000 MAX PSI									
98399062	98399062-C	1/4	6.35	0.59	15.09	3.94	12"	0.8	EA
98399064	98399064-C	1/4	6.35	0.59	15.09	3.94	18"	0.89	EA
98399065	98399065-C	1/4	6.35	0.59	15.09	3.94	24"	0.98	EA
98399066	98399066-C	1/4	6.35	0.59	15.09	3.94	30"	1.07	EA
98398162	98398162-C	1/4	6.35	0.59	15.09	3.94	36"	1.3	EA
98399070	98399070-C	1/4	6.35	0.59	15.09	3.94	48"	1.5	EA
98399072	98399072-C	1/4	6.35	0.59	15.09	3.94	60"	1.72	EA
98399074	98399074-C	1/4	6.35	0.59	15.09	3.94	72"	1.91	EA
98399075	98399075-C	1/4	6.35	0.59	15.09	3.94	84"	2.09	EA
98399076	98399076-C	1/4	6.35	0.59	15.09	3.94	96"	2.27	EA
98399077	98399077-C	1/4	6.35	0.59	15.09	3.94	108"	2.45	EA
98399078	98399078-C	1/4	6.35	0.59	15.09	3.94	120"	2.63	EA
98399079	98399079-C	1/4	6.35	0.59	15.09	3.94	132"	4.43	EA
98399080	98399080-C	1/4	6.35	0.59	15.09	3.94	144"	4.61	EA
98399081	98399081-C	1/4	6.35	0.59	15.09	3.94	156"	4.79	EA
98399083	98399083-C	1/4	6.35	0.59	15.09	3.94	168"	4.97	EA
4000 MAX PSI									
98398220	98398220-C	3/8	9.53	0.75	19.1	5.12	12"	0.72	EA
98398221	98398221-C	3/8	9.53	0.75	19.1	5.12	15"	0.98	EA
98398223	98398223-C	3/8	9.53	0.75	19.1	5.12	18"	1.17	EA
98398226	98398226-C	3/8	9.53	0.75	19.1	5.12	24"	1.2	EA
98398229	98398229-C	3/8	9.53	0.75	19.1	5.12	30"	1.48	EA
98398232	98398232-C	3/8	9.53	0.75	19.1	5.12	36"	1.65	EA
98398235	98398235-C	3/8	9.53	0.75	19.1	5.12	42"	1.72	EA

PACKAGED PART#	UNPACKAGED PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	LENGTH	WEIGHT (LBS)	U/M
4000 MAX PSI									
98398238	98398238-C	3/8	9.53	0.75	19.1	5.12	48"	1.9	EA
98398241	98398241-C	3/8	9.53	0.75	19.1	5.12	60"	2.15	EA
98398244	98398244-C	3/8	9.53	0.75	19.1	5.12	72"	2.65	EA
98398247	98398247-C	3/8	9.53	0.75	19.1	5.12	84"	2.9	EA
98398250	98398250-C	3/8	9.53	0.75	19.1	5.12	96"	3.4	EA
98398253	98398253-C	3/8	9.53	0.75	19.1	5.12	108"	3.85	EA
98398256	98398256-C	3/8	9.53	0.75	19.1	5.12	120"	4.3	EA
98398259	98398259-C	3/8	9.53	0.75	19.1	5.12	132"	4.87	EA
98398262	98398262-C	3/8	9.53	0.75	19.1	5.12	144"	5.35	EA
3500 MAX PSI									
98398300	98398300-C	1/2	12.7	0.88	22.3	7.09	12"	0.92	EA
98398303	98398303-C	1/2	12.7	0.88	22.3	7.09	18"	1.46	EA
98398305	98398305-C	1/2	12.7	0.88	22.3	7.09	15"	1.2	EA
98398306	98398306-C	1/2	12.7	0.88	22.3	7.09	24"	1.55	EA
98398309	98398309-C	1/2	12.7	0.88	22.3	7.09	30"	1.72	EA
98398312	98398312-C	1/2	12.7	0.88	22.3	7.09	36"	1.96	EA
98398315	98398315-C	1/2	12.7	0.88	22.3	7.09	42"	2.15	EA
98398318	98398318-C	1/2	12.7	0.88	22.3	7.09	48"	2.35	EA
98398321	98398321-C	1/2	12.7	0.88	22.3	7.09	60"	2.75	EA
98398324	98398324-C	1/2	12.7	0.88	22.3	7.09	72"	3.2	EA
98398327	98398327-C	1/2	12.7	0.88	22.3	7.09	84"	4.1	EA
98398330	98398330-C	1/2	12.7	0.88	22.3	7.09	96"	4.4	EA
98398333	98398333-C	1/2	12.7	0.88	22.3	7.09	108"	4.85	EA
98398336	98398336-C	1/2	12.7	0.88	22.3	7.09	120"	5.25	EA
98398339	98398339-C	1/2	12.7	0.88	22.3	7.09	132"	5.5	EA
98398342	98398342-C	1/2	12.7	0.88	22.3	7.09	144"	5.85	EA
98398345	98398345-C	1/2	12.7	0.88	22.3	7.09	156"	6.18	EA
98398351	98398351-C	1/2	12.7	0.88	22.3	7.09	168"	6.57	EA
98398354	98398354-C	1/2	12.7	0.88	22.3	7.09	180"	7.2	EA
98398357	98398357-C	1/2	12.7	0.88	22.3	7.09	192"	7.89	EA
2250 MAX PSI									
98398367	98398367-C	3/4	19.05	1.16	29.39	9.45	18"	2.22	EA
98398368	98398368-C	3/4	19.05	1.16	29.39	9.45	24"	2.31	EA
98398372	98398372-C	3/4	19.05	1.16	29.39	9.45	30"	2.4	EA
98398374	98398374-C	3/4	19.05	1.16	29.39	9.45	36"	2.88	EA
98398378	98398378-C	3/4	19.05	1.16	29.39	9.45	48"	3.66	EA
98398380	98398380-C	3/4	19.05	1.16	29.39	9.45	60"	4.33	EA
98398382	98398382-C	3/4	19.05	1.16	29.39	9.45	72"	4.51	EA
98398386	98398386-C	3/4	19.05	1.16	29.39	9.45	96"	4.87	EA
98398388	98398388-C	3/4	19.05	1.16	29.39	9.45	120"	5.23	EA

LENGTH CHANGE TIPS

Wrong



Right

When hose installation is straight, allow enough slack in hose line to provide for length changes which will occur when pressure is applied.

No pressure

High pressure

To allow for length changes when the hose is pressurized, do not clamp at bends so that curves will absorb changes. Do not clamp high and low pressure lines together.

2-WIRE 100R2AT HYDRAULIC HOSE WITH SWIVEL – ASSEMBLIES

Assemblies meet SAE 100R2AT standards. They are coiled and sleeved for easy storage, and labeled with size and specification for easy identification. Male swivels are used when the application calls for connecting to a non-swivel female port.

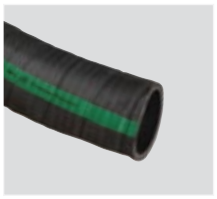
- Tube Material: NBR
- Cover Material: SBR/CR/BR
- Temperature: -40°F to 212°F
- Reinforcement: 2 High Tensile Steel Braids
- Fittings: Male Pipe Thread x Male Swivel
- Cover Color: Black

PACKAGED PART#	UNPACKAGED PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	LENGTH	WEIGHT (LBS)	U/M
4000 MAX PSI									
98398502	98398502-C	3/8	9.53	0.75	19.1	5.12	12"	0.69	EA
98398505	98398505-C	3/8	9.53	0.75	19.1	5.12	18"	0.81	EA
98398510	98398510-C	3/8	9.53	0.75	19.1	5.12	24"	0.97	EA
98398515	98398515-C	3/8	9.53	0.75	19.1	5.12	30"	1.12	EA
98398520	98398520-C	3/8	9.53	0.75	19.1	5.12	36"	1.27	EA
98398527	98398527-C	3/8	9.53	0.75	19.1	5.12	48"	1.59	EA
98398530	98398530-C	3/8	9.53	0.75	19.1	5.12	60"	1.83	EA
98398535	98398535-C	3/8	9.53	0.75	19.1	5.12	72"	2.13	EA
98398540	98398540-C	3/8	9.53	0.75	19.1	5.12	84"	2.43	EA
98398545	98398545-C	3/8	9.53	0.75	19.1	5.12	96"	2.73	EA
98398547	98398547-C	3/8	9.53	0.75	19.1	5.12	108"	3.04	EA
98398550	98398550-C	3/8	9.53	0.75	19.1	5.12	120"	3.34	EA
98398553	98398553-C	3/8	9.53	0.75	19.1	5.12	132"	3.64	EA
98398555	98398555-C	3/8	9.53	0.75	19.1	5.12	144"	3.94	EA
98398558	98398558-C	3/8	9.53	0.75	19.1	5.12	168"	4.54	EA
3500 MAX PSI									
98398583	98398583-C	1/2	12.7	0.88	22.3	7.09	18"	1.25	EA
98398585	98398585-C	1/2	12.7	0.88	22.3	7.09	24"	1.33	EA
98398590	98398590-C	1/2	12.7	0.88	22.3	7.09	30"	1.45	EA
98398595	98398595-C	1/2	12.7	0.88	22.3	7.09	36"	1.59	EA
98398600	98398600-C	1/2	12.7	0.88	22.3	7.09	42"	1.45	EA
98398605	98398605-C	1/2	12.7	0.88	22.3	7.09	48"	2.01	EA
98398610	98398610-C	1/2	12.7	0.88	22.3	7.09	60"	2.43	EA
98398615	98398615-C	1/2	12.7	0.88	22.3	7.09	72"	2.81	EA
98398620	98398620-C	1/2	12.7	0.88	22.3	7.09	84"	3.21	EA
98398625	98398625-C	1/2	12.7	0.88	22.3	7.09	96"	3.62	EA
98398630	98398630-C	1/2	12.7	0.88	22.3	7.09	108"	4.02	EA
98398635	98398635-C	1/2	12.7	0.88	22.3	7.09	120"	4.20	EA
98398640	98398640-C	1/2	12.7	0.88	22.3	7.09	144"	5.00	EA
98398644	98398644-C	1/2	12.7	0.88	22.3	7.09	168"	5.79	EA
98398650	98398650-C	1/2	12.7	0.88	22.3	7.09	192"	6.58	EA

HYDRAULIC RETURN LINE – BULK/UNCOUPLED

Hydraulic return line hose is designed for petroleum and water-based hydraulic fluids in suction lines, and low pressure return lines. It meets MSHA flame resistance.

- Tube Material: Nitrile
- Cover Material: Neoprene
- Cover Color: Black
- Reinforcement: Double Spiral Textile with Helical Spiral Wire
- Negative Pressure (in/HG): 25
- Temperature: -40°F to 275°F

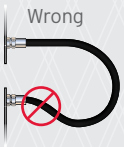


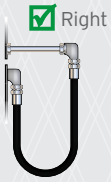
PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX PSI	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
38001536	3/4	19.05	1.18	29.97	300	2.5	0.45	FT
38001537	1	25.4	1.45	36.83	212	3	0.54	FT
38001539	1-1/4	31.75	1.7	43.18	200	4	0.77	FT
38001541	1-1/2	38.1	2.01	51.05	162	5	0.91	FT
38001543	2	50.8	2.51	63.75	112	6	1.16	FT

TWIST TIPS

Prevent twisting and distortion by bending hose in same plane as the motion of the port to which hose is connected.

Use proper angle adapters to avoid tight bend in hose.





When radius is below the required minimum, use an angle adapter to avoid sharp bends.

DESCRIPTION ABBREVIATION KEY

MSHA = Mine, Safety, and Health Administration

LOW PRESSURE HYDRAULIC RETURN LINE KIT

Hydraulic return line kit includes a 5' length of low pressure non-conductive hose and two stainless steel worm gear clamps. The fabric reinforced hose can easily be cut to length and is an ideal replacement hose for wood splitters and other hydraulic powered equipment.

- Tube Material: Nitrile Blend
- Reinforcement: Spiral Polyester
- Cover Material: Nitrile Blend/RMA
- Cover Color: Red
- Temperature: -20°F to 160°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX PSI	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
98392245	3/4	19.05	1.15	29.210	300	4.5	2.5	EA
98392250	1	25.4	1.43	36.322	300	7	2.95	EA

GREASE WHIP HOSE – ASSEMBLIES

Grease whip hoses meet SAE 100R7 standards. They are lightweight and flexible, which makes them ideal for dispensing grease on hand and air powered grease guns.

- Tube Material: NBR
- Reinforcement: 2 Braid High Tensile Textile Reinforcement
- Cover Material: SBR/CR/BR
- Fittings: 1/8 Male Pipe Thread x 1/8 Male Pipe Thread
- Temperature: -40°F to 212°F
- Cover Color: Black

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX PSI	MIN. BEND RADIUS (IN)	LENGTH	WEIGHT (LBS)	U/M
98398403	3/16	4.76	0.42	10.54	3000	3.5	12"	0.11	EA
98398409	3/16	4.76	0.42	10.54	3000	3.5	18"	0.13	EA
98398412	3/16	4.76	0.42	10.54	3000	3.5	24"	0.16	EA

SNOW PLOW HOSE – ASSEMBLIES

Hydraulic snow plow assemblies meet SAE 100R2AT standards. They are coiled and sleeved for easy storage, and are labeled with size and specification for easy identification. Replacement hose for Meyer® Snowplows. Replaces OEM P/N: 21856. Fits standard blades 6.5' to 7.5' wide and Husky Series 7.5' to 9' wide.

- Tube Material: NBR
- Reinforcement: 2 High Tensile Steel Braids
- Cover Material: SBR/CR/BR
- Fittings: Male Pipe Thread x 90° Male Swivel
- Temperature: -40°F to 212°F
- Cover Color: Black

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX PSI	MIN. BEND RADIUS (IN)	LENGTH	WEIGHT (LBS)	U/M
98399090	1/4	6.35	0.59	15.09	5000	3.94	45"	3.82	EA
98399095	1/4	6.35	0.59	15.09	5000	3.94	70"	4.65	EA

DESCRIPTION ABBREVIATION KEY

BR = Butadiene Rubber

CR = Chloroprene Rubber

NBR =Nitrile Butadiene Rubber (Buna-N)

SBR = Styrene Butadiene Rubber

MOVEMENT / FLEXING TIPS

Wrong

☑ Right

Adequate hose length is necessary to distribute movement on flexing applications and to avoid abrasion.

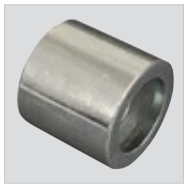
MALE PIPE THREAD FITTING

Hydraulic fitting stem for standard 100R1AT and 100R2AT hydraulic hose. Requires steel hydraulic ferrule.

PART#	MALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
39032152	1/4	0.062	EA
39032153	3/8	0.086	EA
39032154	1/2	0.16	EA
39032155	3/4	0.26	EA

FERRULES

Hydraulic ferrule for standard 100R1AT and 100R2AT hydraulic hose.



PART#	SIZE (IN)	WEIGHT (LBS)	U/M
39032012	1/4	0.053	EA
39032013	3/8	0.06	EA
39032014	1/2	0.086	EA
39032015	3/4	0.2	EA

MALE X FEMALE STRAIGHT ADAPTERS

Hydraulic adapters are key components in any hydraulic system. They create an effective means of connecting hydraulic hoses to control valves, cylinders, and other stationary components. Proper use of adapters will reduce system costs by reducing space requirements, allowing shorter hose lengths, and improving the availability of replacement parts.

MALE PIPE X FEMALE PIPE SWIVEL (STYLE 1404)

PACKAGE PART#	BULK PART#	TYPE	MP	FPX	WEIGHT (LBS)	U/M
39004148	39004148-C	1404-2MP-2FPX	1/8"	1/8"	0.07	EA
39004200	39004200-C	1404-4MP-4FPX	1/4"	1/4"	0.11	EA
39004210	39004210-C	1404-4MP-4FPX R1/32	1/4"	1/4" with 1/32" restrictor	0.17	EA
39004225	39004225-C	1404-4MP-6FPX	1/4"	3/8"	0.15	EA
39004250	39004250-C	1404-6MP-4FPX	3/8"	1/4"	0.14	EA
39004275	39004275-C	1404-6MP-6FPX	3/8"	3/8"	0.16	EA
39004276	39004276-C	1404-6MP-6FPX R1/32	3/8"	3/8" with 1/32" restrictor	0.18	EA
39004277	39004277-C	1404-6MP-6FPX R1/16	3/8"	3/8" with 1/16" restrictor	0.17	EA
39004300	39004300-C	1404-6MP-8FPX	3/8"	1/2"	0.21	EA
39004325	39004325-C	1404-8MP-4FPX	1/2"	1/4"	0.18	EA
39004350	39004350-C	1404-8MP-6FPX	1/2"	3/8"	0.22	EA
39004375	39004375-C	1404-8MP-8FPX	1/2"	1/2"	0.23	EA
39004378	39004378-C	1404-8MP-8FPX R1/32	1/2"	1/2" with 1/32" restrictor	0.25	EA
39004380	39004380-C	1404-8MP-8FPX R1/16	1/2"	1/2" with 1/16" restrictor	0.25	EA
39004400	39004400-C	1404-8MP-12FPX	1/2"	3/4"	0.33	EA
39004425	39004425-C	1404-12MP-8FPX	3/4"	1/2"	0.27	EA
39004450	39004450-C	1404-12MP-12FPX	3/4"	3/4"	0.38	EA
39004525	39004525-C	1404-16MP-16FPX	1"	1"	0.55	EA

MALE JIC X FEMALE PIPE (STYLE 2405)

PACKAGE PART#	BULK PART#	TYPE	MJ	FP	WEIGHT (LBS)	U/M
39036058	39036058-C	2405-4MJ-4FP	1/4"	1/4"	0.11	EA
39036068	39036068-C	2405-6MJ-4FP	3/8"	1/4"	0.12	EA
39036070	39036070-C	2405-6MJ-6FP	3/8"	3/8"	0.15	EA
39036072	39036072-C	2405-6MJ-8FP	3/8"	1/2"	0.28	EA
39036076	39036076-C	2405-8MJ-6FP	1/2"	3/8"	0.17	EA
39036078	39036078-C	2405-8MJ-8FP	1/2"	1/2"	0.29	EA
39036080	39036080-C	2405-10MJ-6FP	5/8"	3/8"	0.22	EA
39036081	39036081-C	2405-10MJ-8FP	5/8"	1/2"	0.22	EA
39036083	39036083-C	2405-12MJ-8FP	3/4"	1/2"	0.34	EA
39036084	39036084-C	2405-12MJ-12FP	3/4"	3/4"	0.46	EA

MALE O-RING BOSS X FEMALE JIC (STYLE 6402)

PACKAGE PART#	BULK PART#	TYPE	MB	FJX	WEIGHT (LBS)	U/M
39038898	39038898-C	6402-8MB-8FJX	1/2"	1/2"	0.17	EA

DESCRIPTION ABBREVIATION KEY

1 = 1/16"
2 = 1/8"
3 = 3/16"
4 = 1/4"
5 = 5/16"
6 = 3/8"
7 = 7/16"
8 = 1/2"
9 = 9/16"
10 = 5/8"
11 = 11/16"
12 = 3/4"
13 = 13/16"
14 = 7/8"
15 = 15/16"
16 = 1"
20 = 1-1/4"
24 = 1-1/2"
32 = 2"
MJ = Male JIC
FJ = Female JIC
MP = Male Pipe
FP = Female Pipe
X = Swivel
90 = 90° Degree
ORB/B = O-ring Boss

FEMALE O-RING BOSS X MALE PIPE (STYLE 6404)

PACKAGE PART#	BULK PART#	TYPE	FORB	MP	WEIGHT (LBS)	U/M
	39038952	6404-4FORB-4MP	1/4"	1/4"	0.11	EA
	39038956	6404-6FORB-4MP	3/8"	1/4"	0.12	EA
39038958	39038958-C	6404-6FORB-6MP	3/8"	3/8"	0.15	EA
39038964	39038964-C	6404-8FORB-6MP	1/2"	3/8"	0.28	EA
39038966	39038966-C	6404-8FORB-8MP	1/2"	1/2"	0.17	EA
39038972	39038972-C	6404-10FORB-8MP	5/8"	1/2"	0.29	EA

MALE O-RING BOSS X FEMALE PIPE THREAD (STYLE 6405)

PACKAGE PART#	BULK PART#	TYPE	MB	FP	WEIGHT (LBS)	U/M
39036136	39036136-C	6405-4MB-4FP	1/4"	1/4"	0.41	EA
39036144	39036144-C	6405-6MB-4FP	3/8"	1/4"	0.12	EA
39036146	39036146-C	6405-6MB-6FP	3/8"	3/8"	0.13	EA
39036148	39036148-C	6405-8MB-4FP	1/2"	1/4"	0.133	EA
39036154	39036154-C	6405-8MB-6FP	1/2"	3/8"	0.16	EA
39036156	39036156-C	6405-8MB-8FP	1/2"	1/2"	0.28	EA
39036164	39036164-C	6405-10MB-8FP	5/8"	1/2"	0.28	EA
39036170	39036170-C	6405-12MB-8FP	3/4"	1/2"	0.4	EA
39036172	39036172-C	6405-12MB-12FP	3/4"	3/4"	0.37	EA

MALE O-RING BOSS X FEMALE O-RING (STYLE 6410)

PACKAGE PART#	BULK PART#	TYPE	MB	FORB	WEIGHT (LBS)	U/M
39039062	39039062-C	6410-8MB-6FORB	1/2"	3/8"	0.19	EA
39039064	39039064-C	6410-8MB-10FORB	1/2"	5/8"	0.22	EA
39039074	39039074-C	6410-10MB-8FORB	5/8"	1/2"	0.19	EA
	39039082	6410-12MB-8FORB	3/4"	1/2"	0.2	EA

MALE PIPE X FEMALE JIC SWIVEL (STYLE 6505)

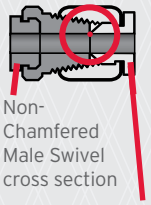
PACKAGE PART#	BULK PART#	TYPE	MP	FJX	WEIGHT (LBS)	U/M
	39039192	6505-4MP-4FJX	1/4"	1/4"	0.1	EA
	39039196	6505-4MP-6FJX	1/4"	3/8"	0.12	EA
39039198	39039198-C	6505-6MP-6FJX	3/8"	3/8"	0.14	EA
	39039200	6505-6MP-8JFX	3/8"	1/2"	0.15	EA
39039202	39039202-C	6505-8MP-8FJX	1/2"	1/2"	0.19	EA
39039206	39039206-C	6505-8MP-10FJX	1/2"	5/8"	0.27	EA
39039212	39039212-C	6505-12MP-12FJX	3/4"	3/4"	0.4	EA

MALE BOSS X FEMALE PIPE SWIVEL (STYLE 6900)

PACKAGE PART#	BULK PART#	TYPE	MB	FPX	WEIGHT (LBS)	U/M
39005650	39005650-C	6900-4MB-4FPX	1/4"	1/4"	0.09	EA
39005675	39005675-C	6900-6MB-4FPX	3/8"	1/4"	0.11	EA
39005700	39005700-C	6900-6MB-6FPX	3/8"	3/8"	0.13	EA
39005725	39005725-C	6900-6MB-8FPX	3/8"	1/2"	0.18	EA
39005775	39005775-C	6900-8MB-6FPX	1/2"	3/8"	0.17	EA
39005800	39005800-C	6900-8MB-8FPX	1/2"	1/2"	0.19	EA
39005825	39005825-C	6900-8MB-12FPX	1/2"	3/4"	0.28	EA
39005850	39005850-C	6900-10MB-6FPX	5/8"	3/8"	0.19	EA
39005875	39005875-C	6900-10MB-8FPX	5/8"	1/2"	0.2	EA
39005950	39005950-C	6900-12MB-12FPX	3/4"	3/4"	0.39	EA

SOLID / SWIVEL TO SWIVEL CONNECTIONS

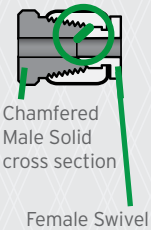
WRONG
Do not connect a non-chamfered male pipe thread to a female NPSM. Small contact area will not seal.



Non-Chamfered Male Swivel cross section

Female Swivel cross section

RIGHT
Chamfered male pipe thread to a female NPSM. Large contact area will seal



Chamfered Male Solid cross section

Female Swivel cross section

FEMALE X FEMALE STRAIGHT ADAPTERS

Hydraulic adapters are key components in any hydraulic system. They create an effective means of connecting hydraulic hoses to control valves, cylinders, and other stationary components. Proper use of adapters will reduce system costs by reducing space requirements, allowing shorter hose lengths, and improving the availability of replacement parts.

DESCRIPTION ABBREVIATION KEY

1 = 1/16"
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6 = 3/8"
7 = 7/16"
8 = 1/2"
9 = 9/16"
10 = 5/8"
11 = 11/16"
12 = 3/4"
13 = 13/16"
14 = 7/8"
15 = 15/16"
16 = 1"
20 = 1-1/4"
24 = 1-1/2"
32 = 2"
MJ = Male JIC
FJ = Female JIC
MP = Male Pipe
FP = Female Pipe
X = Swivel
90 = 90° Degree
ORB/B = O-ring Boss

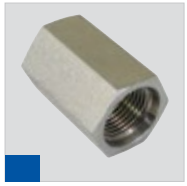
FEMALE PIPE X FEMALE PIPE SWIVEL (STYLE 1405)

PACKAGE PART#	BULK PART#	TYPE	FP	FPX	WEIGHT (LBS)	U/M
39004625	39004625-C	1405-4FP-4FPX	1/4"	1/4"	0.12	EA
39004650	39004650-C	1405-4FP-6FPX	1/4"	3/8"	0.148	EA
	39004675	1405-6FP-4FPX	3/8"	1/4"	0.148	EA
39004700	39004700-C	1405-6FP-6FPX	3/8"	3/8"	0.19	EA
39004775	39004775-C	1405-8FP-6FPX	1/2"	3/8"	0.27	EA
39004800	39004800-C	1405-8FP-8FPX	1/2"	1/2"	0.24	EA
	39004825	1405-12FP-8FPX	3/4"	1/2"	0.244	EA
39004850	39004850-C	1405-12FP-12FPX	3/4"	3/4"	0.38	EA
39004925	39004925-C	1405-12FP-16FPX	3/4"	1"	0.42	EA

FEMALE PIPE X FEMALE PIPE (STYLE 5000)

PACKAGE PART#	BULK PART#	TYPE	FP END 1	FP END 2	WEIGHT (LBS)	U/M
39035404	39035404-C	5000-4FP-4FP	1/4"	1/4"	0.12	EA
39035413	39035413-C	5000-6FP-4FP	3/8"	1/4"	0.29	EA
39035408	39035408-C	5000-6FP-6FP	3/8"	3/8"	0.3	EA
39035415	39035415-C	5000-8FP-4FP	1/2"	1/4"	0.26	EA
39035412	39035412-C	5000-8FP-6FP	1/2"	3/8"	0.41	EA
39035414	39035414-C	5000-8FP-8FP	1/2"	1/2"	0.34	EA
39035416	39035416-C	5000-12FP-8FP	3/4"	1/2"	0.22	EA
39035418	39035418-C	5000-12FP-12FP	3/4"	3/4"	0.22	EA

FEMALE O-RING BOSS X FEMALE PIPE (STYLE 6420)



PACKAGE PART#	BULK PART#	TYPE	FORB	FP	WEIGHT (LBS)	U/M
39039130	39039130-C	6420-8FORB-6FP	1/2"	3/8"	0.3	EA
39039132	39039132-C	6420-8FORB-8FP	1/2"	1/2"	0.28	EA
39039134	39039134-C	6420-10FORB-8FP	5/8"	1/2"	0.35	EA

FEMALE O-RING BOSS X FEMALE O-RING BOSS (STYLE 6425)

PACKAGE PART#	BULK PART#	TYPE	FORB END 1	FORB END 2	WEIGHT (LBS)	U/M
39039138	39039138-C	6425-8FORB-8FORB	1/2"	1/2"	0.2	EA

FEMALE JIC SWIVEL X FEMALE PIPE (STYLE 6506)

PACKAGE PART#	BULK PART#	TYPE	FJX	FP	WEIGHT (LBS)	U/M
39006153	39006153-C	6506-4FJX-4FP	1/4"	1/4"	0.15	EA
	39006154	6506-6FJX-4FP	3/8"	1/4"	0.118	EA
39006150	39006150-C	6506-6FJX-6FP	3/8"	3/8"	0.16	EA
39006174	39006174-C	6506-8FJX-6FP	1/2"	3/8"	0.19	EA
39006175	39006175-C	6506-8FJX-8FP	1/2"	1/2"	0.23	EA
39006196	39006196-C	6506-10FJX-6FP	5/8"	3/8"	0.25	EA
39006200	39006200-C	6506-10FJX-8FP	5/8"	1/2"	0.34	EA
39006225	39006225-C	6506-12FJX-12FP	3/4"	3/4"	0.53	EA

MALE X MALE STRAIGHT ADAPTERS

Hydraulic adapters are key components in any hydraulic system. They create an effective means of connecting hydraulic hoses to control valves, cylinders, and other stationary components. Proper use of adapters will reduce system costs by reducing space requirements, allowing shorter hose lengths, and improving the availability of replacement parts.

MALE JIC X MALE JIC (STYLE 2403)

PACKAGE PART#	BULK PART#	TYPE	MJ END 1	MJ END 2	WEIGHT (LBS)	U/M
39035004	39035004-C	2403-6MJ-6MJ	3/8"	3/8"	0.08	EA
39035005	39035005-C	2403-8MJ-8MJ	1/2"	1/2"	0.15	EA
39035007	39035007-C	2403-12MJ-12MJ	3/4"	3/4"	0.33	EA

MALE JIC X MALE PIPE (STYLE 2404)

PACKAGE PART#	BULK PART#	TYPE	MJ	MP	WEIGHT (LBS)	U/M
39006250	39006250-C	2404-4MJ-4MP	1/4"	1/4"	0.563	EA
39006400	39006400-C	2404-6MJ-4MP	3/8"	1/4"	0.787	EA
39006425	39006425-C	2404-6MJ-6MP	3/8"	3/8"	0.1	EA
39006450	39006450-C	2404-6MJ-8MP	3/8"	1/2"	0.15	EA
39006500	39006500-C	2404-8MJ-6MP	1/2"	3/8"	0.13	EA
39006525	39006525-C	2404-8MJ-8MP	1/2"	1/2"	0.18	EA
	39006575	2404-10MJ-6MP	5/8"	3/8"	0.16	EA
39006600	39006600-C	2404-10MJ-8MP	5/8"	1/2"	0.2	EA
39006650	39006650-C	2404-12MJ-8MP	3/4"	1/2"	0.3	EA
39006675	39006675-C	2404-12MJ-12MP	3/4"	3/4"	0.29	EA
39006700	39006700-C	2404-12MJ-16MP	3/4"	1"	0.39	EA

MALE PIPE X MALE PIPE (STYLE 5404)

PACKAGE PART#	BULK PART#	TYPE	MP END 1	MP END 2	WEIGHT (LBS)	U/M
39035442	39035442-C	5404-4MP-4MP	1/4"	1/4"	0.09	EA
39035444	39035444-C	5404-6MP-4MP	3/8"	1/4"	0.12	EA
39035446	39035446-C	5404-6MP-6MP	3/8"	3/8"	0.12	EA
39035450	39035450-C	5404-8MP-6MP	1/2"	3/8"	0.18	EA
39035452	39035452-C	5404-8MP-8MP	1/2"	1/2"	0.18	EA
39035454	39035454-C	5404-12MP-8MP	3/4"	1/2"	0.26	EA
39035456	39035456-C	5404-12MP-12MP	3/4"	3/4"	0.26	EA

MALE JIC X MALE O-RING BOSS (STYLE 6400)

PACKAGE PART#	BULK PART#	TYPE	MJ	MB	WEIGHT (LBS)	U/M
39036825	39036825-C	6400-6MJ-6MB	3/8"	3/8"	0.09	EA
39036830	39036830-C	6400-6MJ-8MB	3/8"	1/2"	0.15	EA
39036840	39036840-C	6400-8MJ-6MB	1/2"	3/8"	0.14	EA
39036845	39036845-C	6400-8MJ-8MB	1/2"	1/2"	0.16	EA
39036850	39036850-C	6400-8MJ-10MB	1/2"	5/8"	0.22	EA
39036855	39036855-C	6400-8MJ-12MB	1/2"	3/4"	0.33	EA
	39036861	6400-10MJ-8MB	5/8"	1/2"	0.18	EA
39036865	39036865-C	6400-10MJ-10MB	5/8"	5/8"	0.2	EA
39036890	39036890-C	6400-12MJ-12MB	3/4"	3/4"	0.37	EA

MALE O-RING BOSS X MALE PIPE (STYLE 6401)

PACKAGE PART#	BULK PART#	TYPE	MB	MP	WEIGHT (LBS)	U/M
39038856	39038856-C	6401-6MB-6MP	3/8"	3/8"	0.11	EA
39038860	39038860-C	6401-8MB-6MP	1/2"	3/8"	0.14	EA
39038862	39038862-C	6401-8MB-8MP	1/2"	1/2"	0.16	EA
39038866	39038866-C	6401-10MB-8MP	5/8"	1/2"	0.21	EA

DESCRIPTION ABBREVIATION KEY

1 = 1/16"
2 = 1/8"
3 = 3/16"
4 = 1/4"
5 = 5/16"
6 = 3/8"
7 = 7/16"
8 = 1/2"
9 = 9/16"
10 = 5/8"
11 = 11/16"
12 = 3/4"
13 = 13/16"
14 = 7/8"
15 = 15/16"
16 = 1"
20 = 1-1/4"
24 = 1-1/2"
32 = 2"
MJ = Male JIC
FJ = Female JIC
MP = Male Pipe
FP = Female Pipe
X = Swivel
90 = 90° Degree
ORB/B = O-ring Boss

90° ADAPTERS

Hydraulic adapters are key components in any hydraulic system. They create an effective means of connecting hydraulic hoses to control valves, cylinders, and other stationary components. Proper use of adapters will reduce system costs by reducing space requirements, allowing shorter hose lengths, and improving the availability of replacement parts.

MALE PIPE X FEMALE PIPE 90° SWIVEL (STYLE 1501)

PACKAGE PART#	BULK PART#	TYPE	MP	FPX	WEIGHT (LBS)	U/M
39005000	39005000-C	1501-4MP-4FPX90	1/4"	1/4"	0.14	EA
39005025	39005025-C	1501-4MP-6FPX90	1/4"	3/8"	0.24	EA
39005050	39005050-C	1501-6MP-4FPX90	3/8"	1/4"	0.24	EA
39005075	39005075-C	1501-6MP-6FPX90	3/8"	3/8"	0.25	EA
39005100	39005100-C	1501-6MP-8FPX90	3/8"	1/2"	0.32	EA
39005150	39005150-C	1501-8MP-6FPX90	1/2"	3/8"	0.32	EA
39005175	39005175-C	1501-8MP-8FPX90	1/2"	1/2"	0.34	EA
39005200	39005200-C	1501-8MP-12FPX90	1/2"	3/4"	0.52	EA
39005250	39005250-C	1501-12MP-8FPX90	3/4"	1/2"	0.51	EA
39005275	39005275-C	1501-12MP-12FPX90	3/4"	3/4"	0.53	EA
39005325	39005325-C	1501-16MP-12FPX90	1"	3/4"	1.19	EA

FEMALE PIPE X FEMALE PIPE 90° SWIVEL (STYLE 1502)

PACKAGE PART#	BULK PART#	TYPE	FP	FPX	WEIGHT (LBS)	U/M
	39005368	1502-2FP-2FPX90	1/8"	1/8"	0.19	EA
39005353	39005353-C	1502-4FP-4FPX90	1/4"	1/4"	0.2	EA
39005354	39005354-C	1502-6FP-6FPX90	3/8"	3/8"	0.28	EA
39005355	39005355-C	1502-8FP-8FPX90	1/2"	1/2"	0.46	EA
39005357	39005357-C	1502-8FP-6FPX90	1/2"	3/8"	0.43	EA
39005360	39005360-C	1502-12FP-12FPX90	3/4"	3/4"	0.68	EA

MALE JIC X MALE PIPE 90° (STYLE 2501)

PACKAGE PART#	BULK PART#	TYPE	MJ	MP	WEIGHT (LBS)	U/M
39006825	39006825-C	2501-4MJ-4MP90	1/4"	1/4"	0.12	EA
39006850	39006850-C	2501-4MJ-6MP90	1/4"	3/8"	0.2	EA
39007025	39007025-C	2501-6MJ-6MP90	3/8"	3/8"	0.19	EA
39007050	39007050-C	2501-6MJ-8MP90	3/8"	1/2"	0.29	EA
39007100	39007100-C	2501-8MJ-6MP90	1/2"	3/8"	0.22	EA
39007125	39007125-C	2501-8MJ-8MP90	1/2"	1/2"	0.3	EA
39007150	39007150-C	2501-8MJ-12MP90	1/2"	3/4"	0.43	EA
	39007200	2501-10MJ-8MP90	5/8"	1/2"	0.29	EA
	39007225	2501-10MJ-12MP90	5/8"	3/4"	0.464	EA
39007275	39007275-C	2501-12MJ-12MP90	3/4"	3/4"	0.48	EA
	39007375	2501-16MJ-16MP90	1"	1"	0.833	EA

MALE PIPE X MALE PIPE 90° (STYLE 5500)

PACKAGE PART#	BULK PART#	TYPE	MP END 1	MP END 2	WEIGHT (LBS)	U/M
39035804	39035804-C	5500-4MP-4MP90	1/4"	1/4"	0.13	EA
39035808	39035808-C	5500-6MP-6MP90	3/8"	3/8"	0.2	EA
39035814	39035814-C	5500-8MP-8MP90	1/2"	1/2"	0.3	EA
	39035822	5500-12MP-8MP90	3/4"	1/2"	0.37	EA

MALE PIPE X FEMALE PIPE 90° (STYLE 5502)

PACKAGE PART#	BULK PART#	TYPE	MP	FP	WEIGHT (LBS)	U/M
39007421	39007421-C	5502-2MP-4FP90	1/8"	1/4"	0.14	EA
39007424	39007424-C	5502-4MP-4FP90	1/4"	1/4"	0.17	EA
39007427	39007427-C	5502-6MP-6FP90	3/8"	3/8"	0.22	EA
39007432	39007432-C	5502-8MP-6FP90	1/2"	3/8"	0.25	EA
39007430	39007430-C	5502-8MP-8FP90	1/2"	1/2"	0.27	EA
39007434	39007434-C	5502-12MP-12FP90	3/4"	3/4"	0.34	EA

FEMALE PIPE X FEMALE PIPE 90° (STYLE 5504)

PACKAGE PART#	BULK PART#	TYPE	FP END 1	FP END 2	WEIGHT (LBS)	U/M
	39035844	5504-4FP-4FP90	1/4"	1/4"	0.163	EA
	39035852	5504-6FP-4FP90	3/8"	1/4"	0.238	EA
	39035848	5504-6FP-6FP90	3/8"	3/8"	0.24	EA
39035854	39035854-C	5504-8FP-8FP90	1/2"	1/2"	0.39	EA

MALE JIC X FEMALE JIC 90° SWIVEL (STYLE 6500)

PACKAGE PART#	BULK PART#	TYPE	MJ	FJX	WEIGHT (LBS)	U/M
39035544	39035544-C	6500-6MJ-6FJX90	3/8"	3/8"	0.14	EA
39035546	39035546-C	6500-6MJ-8FJX90	3/8"	1/2"	0.228	EA
39035548	39035548-C	6500-10MJ-10FJX90	5/8"	5/8"	0.325	EA
39035550	39035550-C	6500-12MJ-12FJX90	3/4"	3/4"	0.48	EA

MALE JIC X MALE O-RING BOSS 90° (STYLE 6801)

PACKAGE PART#	BULK PART#	TYPE	MJ	MB	WEIGHT (LBS)	U/M
39006136	39006136-C	6801-4MJ-4MB90	1/4"	1/4"	0.13	EA
39006138	39006138-C	6801-6MJ-6MB90	3/8"	3/8"	0.14	EA
39006148	39006148-C	6801-6MJ-8MB90	3/8"	1/2"	0.26	EA
39006152	39006152-C	6801-8MJ-6MB90	1/2"	3/8"	0.23	EA
39006139	39006139-C	6801-8MJ-8MB90	1/2"	1/2"	0.28	EA
39006140	39006140-C	6801-8MJ-10MB90	1/2"	5/8"	0.4	EA
39039260	39039260-C	6801-8MJ-12MB90	1/2"	3/4"	0.42	EA
39039264	39039264-C	6801-10MJ-10MB90	5/8"	5/8"	0.45	EA
	39039274	6801-12MJ-12MB90	3/4"	3/4"	0.66	EA
	39039284-C	6801-12MJ-16MB90	3/4"	1"	0.7	EA

MALE O-RING BOSS X FEMALE PIPE 90° SWIVEL (STYLE 6901)

PACKAGE PART#	BULK PART#	TYPE	MB	FPX	WEIGHT (LBS)	U/M
39006100	39006100-C	6901-4MB-4FPX90	1/4"	1/4"	0.17	EA
39006103	39006103-C	6901-6MB-6FPX90	3/8"	3/8"	0.19	EA
39006126	39006126-C	6901-8MB-6FPX90	1/2"	3/8"	0.3	EA
39006125	39006125-C	6901-8MB-8FPX90	1/2"	1/2"	0.31	EA
39006128	39006128-C	6901-10MB-6FPX90	5/8"	3/8"	0.41	EA
39006127	39006127-C	6901-10MB-8FPX90	5/8"	1/2"	0.42	EA
39006130	39006130-C	6901-10MB-12FPX90	5/8"	3/4"	0.54	EA
39006142	39006142-C	6901-12MB-12FPX90	3/4"	3/4"	0.69	EA

DESCRIPTION ABBREVIATION KEY

1 = 1/16"
2 = 1/8"
3 = 3/16"
4 = 1/4"
5 = 5/16"
6 = 3/8"
7 = 7/16"
8 = 1/2"
9 = 9/16"
10 = 5/8"
11 = 11/16"
12 = 3/4"
13 = 13/16"
14 = 7/8"
15 = 15/16"
16 = 1"
20 = 1-1/4"
24 = 1-1/2"
32 = 2"
MJ = Male JIC
FJ = Female JIC
MP = Male Pipe
FP = Female Pipe
X = Swivel
90 = 90° Degree
ORB/B = O-ring Boss

45° ADAPTERS

Hydraulic adapters are key components in any hydraulic system. They create an effective means of connecting hydraulic hoses to control valves, cylinders, and other stationary components. Proper use of adapters will reduce system costs by reducing space requirements, allowing shorter hose lengths, and improving the availability of replacement parts.

MALE PIPE X FEMALE PIPE 45° SWIVEL (STYLE 1503)

PACKAGE PART#	BULK PART#	TYPE	MP	FPX	WEIGHT (LBS)	U/M
39005400	39005400-C	1503-4MP-4FPX45	1/4"	1/4"	0.16	EA
	39005450	1503-6MP-4FPX45	3/8"	1/4"	0.17	EA
39005475	39005475-C	1503-6MP-6FPX45	3/8"	3/8"	0.19	EA
39005500	39005500-C	1503-6MP-8FPX45	3/8"	1/2"	0.25	EA
39005525	39005525-C	1503-8MP-6FPX45	1/2"	3/8"	0.331	EA
39005550	39005550-C	1503-8MP-8FPX45	1/2"	1/2"	0.26	EA
39005575	39005575-C	1503-12MP-8FPX45	3/4"	1/2"	0.57	EA
39005600	39005600-C	1503-12MP-12FPX45	3/4"	3/4"	0.41	EA

FEMALE PIPE X FEMALE PIPE 45° SWIVEL (STYLE 1504)

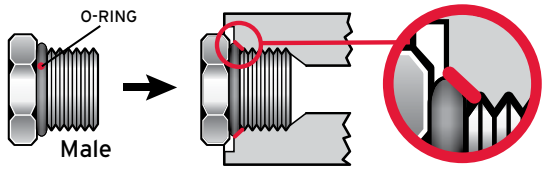
PACKAGE PART#	BULK PART#	TYPE	FP	FPX	WEIGHT (LBS)	U/M
	39005629	1504-6FP-6FPX45	3/8"	3/8"	0.252	EA
39005630	39005630-C	1504-8FP-8FPX45	1/2"	1/2"	0.367	EA
39005635	39005635-C	1504-12FP-12FPX45	3/4"	3/4"	0.59	EA

MALE JIC X MALE PIPE 45° (STYLE 2503)

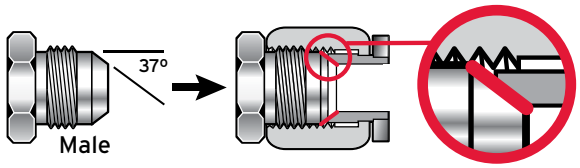
BULK PART#	TYPE	MJ	MP	WEIGHT (LBS)	U/M
39035024	2503-6MJ-6MP45	3/8"	3/8"	0.14	EA
39035028	2503-8MJ-8MP45	1/2"	1/2"	0.26	EA
39035032	2503-12MJ-12MP45	3/4"	3/4"	0.35	EA

MALE O-RING BOSS X FEMALE PIPE 45° SWIVEL (STYLE 6902)

PACKAGE PART#	BULK PART#	TYPE	MB	FPX	WEIGHT (LBS)	U/M
39039472	39039472-C	6902-4MB-4FPX45	1/4"	1/4"	0.12	EA
39036230	39036230-C	6902-6MB-6FPX45	3/8"	3/8"	0.17	EA
39036236	39036236-C	6902-8MB-6FPX45	1/2"	3/8"	0.27	EA
39036238	39036238-C	6902-8MB-8FPX45	1/2"	1/2"	0.28	EA



O-RING BOSS seals at the O-ring seat at the base of the threads shown in red. Note: No thread sealant required.



37° FLARE (JIC) seals at the 37° angle of the male and female fittings shown in red Note: No thread sealant required.

T ADAPTERS

Hydraulic adapters are key components in any hydraulic system. They create an effective means of connecting hydraulic hoses to control valves, cylinders, and other stationary components. Proper use of adapters will reduce system costs by reducing space requirements, allowing shorter hose lengths, and improving the availability of replacement parts.

MALE PIPE T X FEMALE PIPE SWIVEL X FEMALE PIPE SWIVEL (STYLE 1601)

PACKAGE PART#	BULK PART#	TYPE	M	FPX END 1	FPX END 2	WEIGHT (LBS)	U/M
39035884	39035884-C	1601-4MP-4FPX-4FPX	1/4"	1/4"	1/4"	0.19	EA
39035888	39035888-C	1601-6MP-6FPX-6FPX	3/8"	3/8"	3/8"	0.32	EA
39035896	39035896-C	1601-8MP-8FPX-8FPX	1/2"	1/2"	1/2"	0.47	EA

FEMALE PIPE T X FEMALE PIPE SWIVEL X FEMALE PIPE SWIVEL (STYLE 1602)

PACKAGE PART#	BULK PART#	TYPE	FP	FPX END 1	FPX END 2	WEIGHT (LBS)	U/M
39035910	39035910-C	1602-4FP-4FPX-4FPX	1/4"	1/4"	1/4"	0.27	EA
39035912	39035912-C	1602-6FP-6FPX-6FPX	3/8"	3/8"	3/8"	0.39	EA
39035915	39035915-C	1602-8FP-8FPX-8FPX	1/2"	1/2"	1/2"	0.57	EA

FEMALE PIPE SWIVEL T X FEMALE PIPE SWIVEL X FEMALE PIPE SWIVEL (STYLE 1603)

PACKAGE PART#	BULK PART#	TYPE	FPX END 1	FPX END 2	FPX END 3	WEIGHT (LBS)	U/M
	39035923	1603-4FPX-4FPX-4FPX	1/4"	1/4"	1/4"	0.08	EA
39035924	39035924-C	1603-6FPX-6FPX-6FPX	3/8"	3/8"	3/8"	0.15	EA
39035925	39035925-C	1603-8FPX-8FPX-8FPX	1/2"	1/2"	1/2"	0.33	EA

FEMALE PIPE T X FEMALE PIPE X MALE PIPE (STYLE 5602)

PACKAGE PART#	BULK PART#	TYPE	M	FP END 1	FP END 2	WEIGHT (LBS)	U/M
39038792	39038792-C	5602-4MP-4FP-4FP	1/4"	1/4"	1/4"	0.21	EA
	39038794	5602-6MP-6FP-6FP	3/8"	3/8"	3/8"	0.26	EA

FEMALE PIPE T (STYLE 5605)

PACKAGE PART#	BULK PART#	TYPE	FP END 1	FP END 2	FP END 3	WEIGHT (LBS)	U/M
39006000	39006000-C	5605-4FP-4FP-4FP	1/4"	1/4"	1/4"	0.21	EA
39006025	39006025-C	5605-6FP-6FP-6FP	3/8"	3/8"	3/8"	0.28	EA
39006050	39006050-C	5605-8FP-8FP-8FP	1/2"	1/2"	1/2"	0.5	EA

FEMALE JIC SWIVEL T X MALE JIC X MALE JIC (STYLE 6600)

PACKAGE PART#	BULK PART#	TYPE	MJ END 1	MJ END 2	FJX	WEIGHT (LBS)	U/M
39036016	39036016-C	6600-8MJ-8MJ-8FJX	1/2"	1/2"	1/2"	0.32	EA

DESCRIPTION ABBREVIATION KEY

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13 = 13/16"
14 = 7/8"
15 = 15/16"
16 = 1"
20 = 1-1/4"
24 = 1-1/2"
32 = 2"
MJ = Male JIC
FJ = Female JIC
MP = Male Pipe
FP = Female Pipe
X = Swivel
90 = 90° Degree
ORB/B = O-ring Boss

REDUCER BUSHINGS

Hydraulic adapters are key components in any hydraulic system. They create an effective means of connecting hydraulic hoses to control valves, cylinders, and other stationary components. Proper use of adapters will reduce system costs by reducing space requirements, allowing shorter hose lengths, and improving the availability of replacement parts.

MALE PIPE X FEMALE PIPE HEX STRAIGHT REDUCER (STYLE 5405)

PACKAGE PART#	BULK PART#	TYPE	MP	FP	WEIGHT (LBS)	U/M
39040014	39040014-C	5405-4MP-6FP	1/4"	3/8"	0.21	EA
39040024	39040024-C	5405-6MP-8FP	3/8"	1/2"	0.25	EA
	39040034	5405-8MP-12FP	1/2"	3/4"	0.39	EA

MALE PIPE X FEMALE PIPE HEX REDUCER BUSHING (STYLE 5406)

PACKAGE PART#	BULK PART#	TYPE	MP	FP	WEIGHT (LBS)	U/M
39035470	39035470-C	5406-4MP-2FP	1/4"	1/8"	0.06	EA
39035474	39035474-C	5406-6MP-4FP	3/8"	1/4"	0.07	EA
	39035475	5406-8MP-2FP	1/2"	1/8"	0.13	EA
39035476	39035476-C	5406-8MP-4FP	1/2"	1/4"	0.13	EA
39035478	39035478-C	5406-8MP-6FP	1/2"	3/8"	0.11	EA
39035479	39035479-C	5406-12MP-4FP	3/4"	1/4"	0.122	EA
39035480	39035480-C	5406-12MP-6FP	3/4"	3/8"	0.142	EA
39035482	39035482-C	5406-12MP-8FP	3/4"	1/2"	0.17	EA
39035486	39035486-C	5406-16MP-12FP	1"	3/4"	0.35	EA
39035490	39035490-C	5406-20MP-12FP	20	3/4"	0.51	EA
39035492	39035492-C	5406-20MP-16FP	20	1"	0.56	EA

PLUGS

Hydraulic adapters are key components in any hydraulic system. They create an effective means of connecting hydraulic hoses to control valves, cylinders, and other stationary components. Proper use of adapters will reduce system costs by reducing space requirements, allowing shorter hose lengths, and improving the availability of replacement parts.

MALE JIC PLUG (STYLE 2408)

PACKAGE PART#	BULK PART#	TYPE	END	WEIGHT (LBS)	U/M
39036300	39036300-C	2408-4MJ	1/4"	0.05	EA
39036303	39036303-C	2408-6MJ	3/8"	0.05	EA
39036306	39036306-C	2408-8MJ	1/2"	0.11	EA
39036308	39036308-C	2408-12MJ	3/4"	0.16	EA
39036310	39036310-C	2408-12MJ	3/4"	0.25	EA
39036314	39036314-C	2408-16MJ	1"	0.36	EA

MALE PIPE X FEMALE PIPE HEX REDUCER BUSHING (STYLE 5406)

PACKAGE PART#	BULK PART#	TYPE	END	WEIGHT (LBS)	U/M
39035534	39035534-C	5406-4MP	1/4"	0.07	EA
39035535	39035535-C	5406-6MP	3/8"	0.072	EA
39035537	39035537-C	5406-12MP	3/4"	0.25	EA
39035513	39035513-C	5406-2MP	2	0.01	EA
39035514	39035514-C	5406-4MP	1/4"	0.03	EA
39035515	39035515-C	5406-6MP	3/8"	0.03	EA
39035516	39035516-C	5406-8MP	1/2"	0.09	EA

HEX HEAD PLUG (STYLE 6408)

PACKAGE PART#	BULK PART#	TYPE	END	WEIGHT (LBS)	U/M
39039000	39039000-C	6408-8MB	1/2"	0.25	EA
39039004	39039004-C	6408-12MB	3/4"	0.27	EA

3000 PSI SET WITH FEMALE THREADS

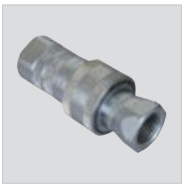
These high quality, quick disconnect sets have a poppet style valve and a one-way sleeve design which allows implement break-away when the coupling is clamp mounted. Interchangeable half-for-half with: Parker/Pioneer 4000, Aeroquip® FD42, and Snap-tite™ 60 series couplers.

PART#	MAX PSI	WEIGHT (LBS)	U/M
39042900	3000	0.35	EA
39042905	3000	0.58	EA
39042910	3000	0.81	EA
39042915	3000	1.52	EA

ONE-WAY SLEEVE/DOUBLE SHUT-OFF (S20 SERIES)

Sets have an ISO 5675 body and include a coupler/plug combination primarily used on agricultural and construction equipment. If the coupler is permanently mounted, the one-way sleeve design allows implement break-away without hose damage. The double shut-off design is available with either a rugged ball valve or leak-free, high flow poppet valve. Critical parts are hardened for long service life, and all poppet valve models are 100% leak tested prior to leaving the factory. Couplers interchangeable with Parker/Pioneer 4200 Series.

PART#	TYPE	END 1	END 2	VALVE STYLE	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39040900	S20A-2	1/4" Female Pipe Thread	1/4" Female Pipe Thread	Ball Valve	250°F	3	3000	0.35	EA
39040910	S20-3	3/8" Female Pipe Thread	3/8" Female Pipe Thread	Ball Valve	250°F	6	3000	0.60	EA
39040920	S20-4	1/2" Female Pipe Thread	1/2" Female Pipe Thread	Ball Valve	250°F	12	3000	0.80	EA
39040955	S20F-6	3/4" Female Pipe Thread	3/4" Female Pipe Thread	Ball Valve	250°F	28	3000	1.45	EA
39040915	S20-3P	3/8" Female Pipe Thread	3/8" Female Pipe Thread	Poppet Valve	250°F	6	3000	0.6	EA
39040925	S20-4P	1/2" Female Pipe Thread	1/2" Female Pipe Thread	Poppet Valve	250°F	12	3000	0.8	EA



TWO – WAY SLEEVE/DOUBLE SHUT-OFF (S40 SERIES)

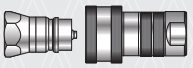
Sets have an ISO 5675 body and includes a S75 coupler and a S71 plug combination used on agricultural and construction equipment. If the coupler is permanently mounted, the one-way sleeve design allows implement break-away without hose damage. The double shut-off design is available with either a rugged ball valve or leak-free, high flow poppet valve. Critical parts are hardened for long service life, and all poppet valve models are 100% leak tested prior to leaving the factory. Couplers interchangeable with Parker/Pioneer 4200 Series. Allows one hand hook up under full pressure.

PART#	TYPE	END 1	END 2	VALVE STYLE	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39041235	S40-4	1/2" Female Pipe Thread	1/2" Female Pipe Thread	Ball Valve	250°F	12	3000	0.8	EA

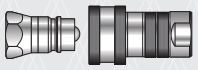
ONE HAND HOOK-UP – TWO-WAY SLEEVE/DOUBLE SHUT-OFF (S70 SERIES)

Sets have an ISO 5675 body and include a coupler/plug combination. The unique internal valving automatically opens the hydraulic circuit after connection, if the system is in operating mode. When mounted to a bulkhead, the two-way double acting sleeve allows one-hand operation, and implement break-away. The double shut-off design is available with either a rugged ball valve or leak-free, high flow poppet valve. Critical parts are hardened for long service life, and all poppet valve models are 100% leak tested prior to leaving the factory. Interchangeable with Parker/Pioneer 8200 Series.

PART#	TYPE	END 1	END 2	VALVE STYLE	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39041400	S70-4	1/2" Female Pipe Thread	1/2" Female Pipe Thread	Ball Valve	250°F	12	3000	0.95	EA
39041425	S70-16	7/8-14 Female O-ring Boss	7/8-14 Female O-ring Boss	Ball Valve	250°F	12	3000	0.95	EA



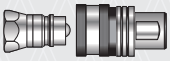
One way quick coupler set (Poppet)



One way quick coupler set (Ball)

RESTRICTED FLOW FITTINGS

Restricted flow fittings have a small opening on one end of the fitting. This small hole reduces the amount of fluid running through the line. By reducing the amount of fluid, the flow is slowed down, which gives the hydraulic system a smoother, and more controlled response.



Two way sleeve quick coupler set (ball)

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24 = 1-1/2"
32 = 2"
MJ = Male JIC
FJ = Female JIC
MP = Male Pipe
FP = Female Pipe
X = Swivel
90 = 90° Degree
ORB/B = O-ring Boss

ISO BALL AND POPPET VALVE STYLE TIPS (S70 SERIES)

Connect under pressure hydraulic plug meets dimensional requirements of ISO 5675, and are available in a rugged ball valve or leak-free, high flow poppet valve. Critical parts are hardened for long service life, and all poppet valve models are 100% leak tested prior to leaving the factory. Interchangeable with Parker/Pioneer 8200 Series.

PART#	TYPE	END 1	END 2	VALVE STYLE	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39041055	S71-4	1/2" ISO Male Tip	1/2" Female Pipe Thread	Ball Valve	250°F	12	3000	0.23	EA
39041070	S71-15	1/2" ISO Male Tip	3/4" Female O-ring Boss	Ball Valve	250°F	12	3000	0.23	EA
39041060	S71-4P	1/2" ISO Male Tip	1/2" Female Pipe Thread	Poppet Valve	250°F	12	3000	0.22	EA

JOHN DEERE REPLACEMENT FEMALE COUPLER (S25 SERIES)

Adapter is a direct interchange with John Deere AR47331 female body, and Pioneer #VP4056-4. The one-way sleeve allows implement break-away when mounted to a break-away clamp.

PART#	TYPE	END 1	END 2	VALVE STYLE	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39041500	S25-4-20	John Deere Old Style Coupler	1/2" Female Pipe Thread	Ball Valve	250°F	12	3000	0.75	EA

JOHN DEERE OLD STYLE CONE MALE TIP (S11 SERIES)

John Deere "old style" cone male adapter is a direct interchange with the John Deere AR30210 male tip, and Pioneer #VP5060-4. Features a rugged ball style valving with plating, and is hardened for durability.

PART#	TYPE	END 1	END 2	VALVE STYLE	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39041510	S11-4	John Deere Old Style Cone Tip	1/2" Female Pipe Thread	Ball Valve	250°F	12	3000	0.26	EA
39041515	S11-15	John Deere Old Style Cone Tip	3/4" Female O-ring Boss	Ball Valve	250°F	12	3000	0.27	EA

INTERNATIONAL HARVESTER OLD STYLE MALE TIP (S12 SERIES)

International Harvester "old style" adapter is a direct interchange for the International Harvester tip 544787R91. Features a rugged ball style valving with plating, and is hardened for durability.

PART#	TYPE	END 1	END 2	VALVE STYLE	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39041530	S12-4	International Harvester Old Style Male Tip	1/2" Female Pipe Thread	Ball Valve	250°F	12	3000	0.27	EA
39041535	S12-16	International Harvester Old Style Male Tip	7/8" Female O-ring Boss	Ball Valve	250°F	12	3000	0.35	EA

J.I. CASE OLD STYLE MALE TIP (S13 SERIES)

Adapter is a direct interchange for the J.I. Case® tip A160884. Features a rugged ball style valving with plating, and is hardened for durability.

PART#	TYPE	END 1	END 2	VALVE STYLE	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39041540	S13-4	JI Case Old Style Male Tip	1/2" Female Pipe Thread	Ball Valve	250°F	12	3000	0.26	EA

ISO MALE TIP TO JOHN DEERE CONE STYLE (AGRICULTURAL COUPLER - S25 SERIES)

Adapters provide an effective way to connect multiple brands of equipment to your tractor without changing the hose ends. Replaces Pioneer #VP4060-4.

PART#	TYPE	END 1	END 2	VALVE STYLE	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39041600	S25-4-1	ISO 5675 Coupler	John Deere Old Style Cone Tip	Ball Valve	250°F	12	3000	0.54	EA

ISO MALE TIP TO INTERNATIONAL HARVESTER FEMALE (AGRICULTURAL COUPLER - S25 SERIES)

Adapters provide an effective way to connect multiple brands of equipment to your tractor without changing the hose ends. Replaces Pioneer #VP4070-4.

PART#	TYPE	END 1	END 2	VALVE STYLE	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39041605	S25-4-2	ISO 5675 Coupler	International Harvester Old Style Male Tip	Ball Valve	250°F	12	3000	0.62	EA

JOHN DEERE CONE STYLE TIP TO ISO FEMALE (AGRICULTURAL COUPLER - S25 SERIES)

Adapters provide an effective way to connect multiple brands of equipment to your tractor without changing the hose ends. Replaces Pioneer #VP4065-4.

PART#	TYPE	END 1	END 2	VALVE STYLE	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39041610	S25-4-3	John Deere Old Style Coupler	John Deere New Style ISO 5675 Male Tip	Ball Valve	250°F	12	3000	0.56	EA

JOHN DEERE CONE STYLE TIP TO NEW STYLE JOHN DEERE/FORD (AGRICULTURAL COUPLER - S25 SERIES)

Adapters provide an effective way to connect multiple brands of equipment to your tractor without changing the hose ends. Replaces Pioneer #VP4065-4L.

PART#	TYPE	END 1	END 2	VALVE STYLE	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39041615	S25-4-3D	John Deere Old Style Coupler	John Deere New Style ISO 5675 Male Tip	Ball Valve	250°F	12	3000	1.05	EA

JOHN DEERE CONE STYLE TIP TO INTERNATIONAL HARVEST FEMALE (AGRICULTURAL COUPLER - S25 SERIES)

Adapters provide an effective way to connect multiple brands of equipment to your tractor without changing the hose ends. Replaces Pioneer #VP4067-4.

PART#	TYPE	END 1	END 2	VALVE STYLE	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39041620	S25-4-4	John Deere Old Style Coupler	International Harvester Old Style Male Tip	Ball Valve	250°F	12	3000	0.70	EA

INTERNATIONAL HARVESTER MALE TIP TO JOHN DEERE NEW STYLE (AGRICULTURAL COUPLER – S25 SERIES)

Adapters provide an effective way to connect multiple brands of equipment to your tractor without changing the hose ends. Replaces Pioneer #VP4075-4L.

PART#	TYPE	END 1	END 2	VALVE STYLE	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39041640	S25-4-7D	International Harvester Old Style Coupler	John Deere New Style ISO 5675 Male Tip	Ball Valve	250°F	12	3000	1.15	EA

JOHN DEERE CONE STYLE TIP TO INTERNATIONAL HARVEST OLD STYLE

Adapters provide an effective way to connect multiple brands of equipment to your tractor without changing the hose ends. Replaces Pioneer #VP4076-4.

PART#	TYPE	END 1	END 2	VALVE STYLE	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39041625	S25-4-5	International Harvester Old Style Coupler	John Deere Old Style Cone Tip	Ball Valve	250°F	12	3000	0.85	EA

SKID STEER ADAPTERS

FLAT FACE FEMALE O-RING BOSS X MALE PIPE (STYLE 6404FF)

Hydraulic adapters are key components in any hydraulic system. They create an effective means of connecting hydraulic hoses to control valves, cylinders, and other stationary components. Proper use of adapters will reduce system costs by reducing space requirements, allowing shorter hose lengths, and improving the availability of replacement parts.

PART#	TYPE	FORB	MP	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
39040708	FF6404-10FORB-8MP	5/8" Female O-ring Boss	1/2" Male Pipe	250°F	5000	0.25	EA
39040709	FF6404-12FORB-8MP	3/4" Female O-ring Boss	1/2" Male Pipe	250°F	5000	0.43	EA

FLAT FACE BULKHEAD FITTING & LOCK NUT (STYLE 2706FF)

Bulkhead fitting and lock nut is a stationary mounting adapter. Combine this adapter with either the FE491 or FE495-4 to replace the following fittings: Pioneer Coupler FEM-501-10BMF NL; Pioneer Nipple/Tip FEM-502-10BMF-NL; Case® 410, 420, 430, 435, 440, 445, 450, 465; GEHL® 4640, 4840, 5640, 6640; New Holland® LS140, LS150, LS160, LS170, LS180, LS185, LS190.

PART#	TYPE	MJ	MP	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
39040706	FF2706-10MJ-8MP	5/8" Male JIC	1/2" Male Pipe	250°F	5000	0.4	EA

FLAT FACE MALE O-RING X MALE PIPE (STYLE 2404FF)

Hydraulic adapters creates versatility in adapting your equipment to different quick disconnect ends and hoses. This adapter replaces the following fittings: Pioneer FEM-501-10BMS Nipple/Tip; Pioneer FEM-501-10BMS NL Coupler; Caterpillar® 216B, 226B, 232B, 236B, 242B, 246B, 248B, 252B, 262B, 268B; John Deere® 317,320.

PART#	TYPE	MB	MP	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
39040707	FF2404-10MB-8MP	5/8" Male O-ring Boss	1/2" Male Pipe	250°F	5000	0.27	EA

FLAT FACE FEMALE COUPLER (FFE 49 SERIES)

Non-spill female coupler is a push-to-connect coupler that can be connected and disconnected under pressure without fluid loss. Commonly found on skid steer loaders, construction equipment, and hydraulic power tools.

PART#	TYPE	END 1	END 2	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39040676	FFE495-5	1/2" Flat Face ISO 16028 Coupler	1/2" Female Pipe Thread	250°F	12	4000	1	EA

FLAT FACE MALE TIP (FFE 49 SERIES)

Non-spill male tip is a push-to-connect coupler that can be connected and disconnected under pressure without fluid loss. Commonly found on skid steer loaders, construction equipment, and hydraulic power tools.

PART#	TYPE	END 1	END 2	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39040696	FFE491-4	1/2" Flat Face ISO 16028 Male Tip	1/2" Female Pipe Thread	250°F	12	4000	0.6	EA

FLAT FACE MALE TIP ADAPTER (FAE SERIES)

Flat (flush) face coupler to ISO 5675 male tip adapter provides an effective method of interchanging agricultural and industrial machines and equipment.

PART#	TYPE	END 1	END 2	VALVE STYLE	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39040720	FAE49-56-4	1/2" ISO 5675 Male Tip	1/2" Flat Face ISO 16028 Female Coupler	Poppet/Flat Face Valve	250°F	12	3000	0.9	EA

FLAT FACE MALE TIP ADAPTER (FAE SERIES)

Flat (flush) face male tip to ISO 5675 adapter provides an effective method of interchanging agricultural and industrial machines and equipment.

PART#	TYPE	END 1	END 2	VALVE STYLE	MAX. TEMP	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
39040722	FAE56-49-4	1/2" Flat Face ISO 16028 Male Tip	1/2" ISO 5675 Female Coupler	Poppet/Flat Face Valve	250°F	12	3000	0.7	EA

QUICK DISCONNECT HEAVY-DUTY DOUBLE BREAK-AWAY CLAMP

Clamp allows one hand connections when used with two-way sleeve style, agricultural quick couplings. Allows implement break-away when used with either one-way or two-way sleeve designs. Double break-away clamps are available for 3/8" and 1/2" body size.

PART#	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
39041870	250°F	3000	0.83	EA

QUICK DISCONNECT REPLACEMENT BODY SEAL O-RING KIT

O-ring seal kit is a package of 5 O-rings sized to fit S20, S40, and other 1/2" Body ISO 5675 couplers. Prevents loss of expensive hydraulic oil environmental issues.

PART#	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
39041750	250°F	3000	0.03	EA

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1 = 1/16"
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32 = 2"
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FJ = Female JIC
MP = Male Pipe
FP = Female Pipe
X = Swivel
90 = 90° Degree
ORB/B = O-ring Boss

DESCRIPTION ABBREVIATION KEY

1 = 1/16"
2 = 1/8"
3 = 3/16"
4 = 1/4"
5 = 5/16"
6 = 3/8"
7 = 7/16"
8 = 1/2"
9 = 9/16"
10 = 5/8"
11 = 11/16"
12 = 3/4"
13 = 13/16"
14 = 7/8"
15 = 15/16"
16 = 1"
20 = 1-1/4"
24 = 1-1/2"
32 = 2"
MJ = Male JIC
FJ = Female JIC
MP = Male Pipe
FP = Female Pipe
X = Swivel
90 = 90° Degree
ORB/B = O-ring Boss

QUICK DISCONNECT DUST CAP

Dust caps have a molded rubber body. Cap keeps male tip clean, and protects your hydraulic system while not in use. Comes with two in a package.

PART#	END 1	MAX. TEMP	WEIGHT (LBS)	U/M
39041827	1/2" Body	250°F	0.75	EA

QUICK DISCONNECT DUST PLUG

Dust plug has a molded rubber body. Plug keeps female coupler clean, and protects your hydraulic system while not in use. Comes with two in a package.

PART#	END 1	MAX. TEMP	WEIGHT (LBS)	U/M
39041852	1/2" Body	250°F	0.13	EA

NYLON PROTECTIVE HOSE SLEEVE

Hose sleeve is constructed of tightly woven nylon filament and is resistant to abrasion, cuts, heat, and UV/Ozone deterioration. Sleeving extends hose life and safely deflects high pressure oil spray in the event of a hose leak. Sleeves are also commonly used to protect wiring, cables, and chain from external damage. Easy to install, and can be held in place with nylon cable ties or banding. Available in 15' lengths.

PART#	SIZE (IN)	MAX. TEMP	WEIGHT (LBS)	U/M
39020508	1.14	250°F	0.55	EA
39020518	1.59	250°F	0.6	EA

BRASS BREATHER VENT PLUGS

Breather vent plugs have a hex head brass body with male pipe threads, and a 40 micron filter end. It is designed to provide vacuum relief on gear boxes, oil tanks, and reservoirs. It is also used to convert double action cylinders into single action cylinders, and prevent foreign matter from entering the unused opening. This vent plug can be easily removed and cleaned.

- Max PSI: 3000

PART#	MALE PIPE THREAD (IN)	MAX. TEMP	WEIGHT (LBS)	U/M
99019237	0.38	250°F	0.75	EA
99019240	0.50	250°F	0.75	EA

FILTER SERVICE INDICATOR GAUGE

Filter service indicator gauge is a low pressure, return line oil gauge designed for 15 PSI and 25 PSI filter applications to show when a system needs service. The 1/8" back center mount fit return line filter head contains castings with a 1/8" FNPT gauge port. It has a color coded face for easy viewing:

PART#	SIZE (IN)	MAX. PSI	WEIGHT (LBS)	U/M
99019340	2	15	0.2	EA
99019342	2	25	0.2	EA

- Green means the system is operating normally
- Yellow means system will need service soon
- Red means filter and fluid need serviced or replaced

CYLINDER STROKE CONTROL STOP BLOCKS (ALUMINUM)

Cylinder control blocks are designed for cylinder rod. Blocks are constructed of a high grade, heat treated aluminum alloy, which makes it extremely durable. Designed for long, tough, durable use. Can be used on hydraulic or air operated cylinders.

PART#	TYPE	SHAFT SIZE	WIDTHS	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
5 PACK KITS							
39040850	Farm Kit A	1" to 1-1/2"	1/4", 3/8", 1/2", 3/4", 1"	250°F	3000	1.07	EA
39040851	Farm Kit B	1-1/2" to 2"	1/4", 3/8", 1/2", 3/4", 1"	250°F	3000	1.07	EA
39040852	Farm Kit B-HD	1-1/2" to 2"	3/4", 1-1/4", 1-1/2", 2"	250°F	3000	2.16	EA
INDIVIDUAL (ORDER MULTIPLE OF 5)							
39040862		1-1/2" to 2"	1/4"	250°F	3000	0.102	EA
39040861		1-1/2" to 2"	3/8"	250°F	3000	0.132	EA
39040855		1-1/2" to 2"	1/2"	250°F	3000	0.194	EA
39040860		1-1/2" to 2"	3/4"	250°F	3000	0.256	EA
39040859		1-1/2" to 2"	1"	250°F	3000	0.314	EA
39040858		1-1/2" to 2"	1-1/4"	250°F	3000	0.408	EA

MATERIAL HANDLING HOSE

POLY RUBBER

DESCRIPTION ABBREVIATION KEY

PVC = Poly Vinyl Chloride

SBR = Styrene Butadiene Rubber

BULK MATERIAL HANDLING HOSE – BULK/UNCOUPLED

This bulk material handling hose is constructed of an abrasion resistant, rubber compound that is also static-dissipative. Specifically designed for products that can be moved by air, such as rock wool, saw dust, and fiberglass, this hose is great for use in ventilation systems where dust is a work hazard, like grain elevators and cement plants. Hose is also ideal for material vacuuming applications like grain vacs.

- Tube Material: Static-dissipating Rubber
- Cover Material: PVC Corrugated
- Cover Color: Black
- Reinforcement: Black Rigid PVC Helix
- Temperature: -30°F to 140°F
- Negative Pressure (in/HG): 28

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
LIGHT WEIGHT								
12026740	2	50.8	2.37	60.2	35	4	0.49	FT
12026741	3	76.2	3.48	88.39	30	6	0.91	FT
12026742	4	101.6	4.55	115.57	25	9	1.45	FT
12026750	5	127	5.65	143.51	25	10	2.08	FT
12026752	6	152.4	6.78	172.21	25	12	2.86	FT
MEDIUM WEIGHT								
12026791	1-1/2	38.1	1.88	47.75	50	3	0.38	FT
12026792	2	50.8	2.41	61.21	40	4	0.54	FT
12026793	2.5	63.5	2.98	75.69	35	5	0.77	FT
12026794	3	76.2	3.54	89.92	35	6	1.05	FT
12026795	3-1/2	88.9	4.04	102.62	30	8	1.25	FT
12026796	4	101.6	4.65	118.11	30	8	1.68	FT
12026798	5	127	5.77	146.56	30	9	2.4	FT
12026800	6	152.4	6.86	174.24	25	12	3.21	FT
12026802	8	203.2	9.1	231.14	25	16	5.77	FT

RUBBER

BULK COMMODITY HOSE (688SB) – BULK/UNCOUPLED

The bulk commodity hose is designed for transferring bulk materials via suction, gravity, or pneumatic systems where abrasion-resistance is the primary requirement. Its 3/16" thick tube is not only abrasion resistant, but is also static conductive. Excellent for feed, grain, cement, sand, and slurries.

- Tube Material: 3/16" Static Conductive Natural Rubber
- Cover Material: Corrugated SBR Rubber
- Cover Color: Black
- Reinforcement: Synthetic High Tensile Textile with Steel Wire Helix
- Temperature: -40°F to 150°F

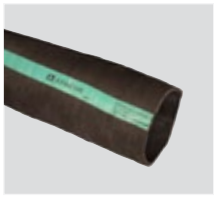
PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
12027095	2	50.8	2.77	70.36	60	16	1.65	FT
12027100	3	76.2	3.81	96.77	60	24	2.54	FT
12027105	4	101.6	4.77	121.16	45	32	3.21	FT
12027110	4-1/2	114.3	5.27	133.86	40	36	3.57	FT
12051005	5	127	5.77	146.56	40	40	3.93	FT
12051010	6	152.4	6.76	171.70	40	48	4.65	FT

CEMENT DISCHARGE HOSE – BULK/UNCOUPLED

Cement discharge hose is designed for pneumatic transfer of bulk cement and other dry bulk materials. Its SBR cover and natural rubber tube provide abrasion and ozone resistance.

- Tube Material: Natural Rubber
- Cover Material: SBR
- Cover Color: Black
- Reinforcement: Synthetic Fabric
- Temperature: -40°F to 150°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
13002580	4	101.6	4.48	113.79	60	48	1.55	FT
13001502	4	101.6	4.7	119.38	50	60	3.87	FT
13002836	5	127	5.47	138.94	30	60	2.09	FT



CONCRETE PUMP HOSE – ASSEMBLIES

Concrete pump hose is designed to provide the ultimate combination of handling ease, abuse resistance, and long service life required for plaster, grout, and concrete placement applications.

- Tube Material: SBR/Natural Rubber
- Cover Material: SBR
- Cover Color: Black
- Reinforcement: High Tensile Synthetic Cord
- Temperature: -40°F to 200°F
- Length: 50'

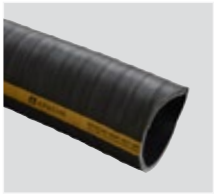
PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
MALE PIPE THREAD FITTINGS								
13002926	1-1/2	38.1	2.28	57.91	800	15.00	85	EA
13002930	2	50.8	2.81	71.37	800	15.00	95	EA
VICTAULIC FITTINGS								
13002932	1-1/2	38.1	2.28	57.91	800	20.00	87	EA
13002934	2	50.8	2.81	71.37	800	20.00	97	EA

HOT AIR BLOWER HOSE – BULK/UNCOUPLED

This high temperature and ultra-durable hose is ideal for transferring hot air between the tractor and trailer during product unloading. Superior grade EPDM tube will withstand temperatures up to 350°F, and the heavy-duty cover is heat and ozone resistant.

- Tube Material: Heat Resistant EPDM
- Cover Material: Heat Resistant EPDM
- Cover Color: Black
- Reinforcement: Textile Cord with Dual Wire Helix
- Temperature: -40°F to 350°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
12046815	3	76.2	3.5	88.9	125	12	1.75	FT
12046816	4	101.6	4.56	115.9	100	16	2.41	FT



DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Methylene

SBR = Styrene Butadiene Rubber

RUBBER DISCHARGE SLEEVES

DESCRIPTION ABBREVIATION KEY

SBR = Styrene Butadiene Rubber

NON-REINFORCED GUM RUBBER BOOT

Non-reinforced gum rubber discharge sleeves are designed for low pressure discharge of wet or dry materials. Its 1/4" gum rubber construction is abrasion resistant and stays flexible in low temperatures.

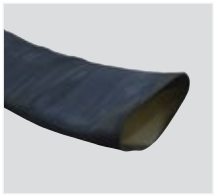
- Tube Material: Gum Rubber
- Cover Material: Gum Rubber
- Temperature: -20°F to 160°F
- Cover Color: Tan
- Wall: 0.25 in/6.35 mm

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	WEIGHT (LBS)	U/M
15040555	7	177.8	7.5	190.5	Open End	2.4	FT
15040560	8	203.2	8.5	215.9	Open End	2.8	FT
15040525	9	228.6	9.5	241.3	Open End	3.2	FT
15040570	10	254	10.5	266.7	Open End	3.5	FT
15040575	12	304.8	12.5	317.5	Open End	4.2	FT
15040577	16	406.4	16.5	419.1	Open End	5.5	FT
15040580	18	457.2	18.5	469.9	Open End	6.2	FT
15040585	20	508	20.5	520.7	Open End	7	FT
15040590	22	558.8	22.5	571.5	Open End	7.6	FT
15040595	24	609.6	24.5	622.3	Open End	8.3	FT

REINFORCED NATURAL RUBBER BOOT (ELEPHANT TRUNK)

Reinforced natural rubber discharge sleeves are designed for low pressure discharge of wet or dry materials. It has a 1/8" thick black, static dissipating natural rubber tube and SBR cover, making it abrasion-resistant as well as ozone resistant. Its multi-ply reinforcement adds strength and durability.

- Tube Material: Gum Rubber
- Reinforcement: 3 Synthetic Plies
- Cover Material: SBR Rubber
- Temperature: -20°F to 160°F
- Cover Color: Black



PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI	WEIGHT (LBS)	U/M
13003505	8	203.2	8.5	215.9	0.25	6.35	50	2.85	FT
13004005	10	254	10.5	266.7	0.25	6.35	45	3.48	FT
13004501	12	304.8	12.62	320.55	0.31	7.87	75	4.23	FT
13005001	14	355.6	14.62	371.35	0.31	7.87	65	5.5	FT

HOT TAR & ASPHALT

HOT ASPHALT RUBBER PATCHING HOSE – BULK/UNCOUPLED

This rugged rubber hose is designed specifically to withstand the harsh environment of transferring hot tar and asphalt. Its superior grade nitrile tube can withstand intermittent temperatures up to 350°F, and the high quality abrasion resistant nitrile cover will hold up to rough, abrasive surfaces.

- Tube Material: Nitrile
- Reinforcement: Multiple Poly Tire Cord Plies & Dual Helix Wire
- Cover Material: Nitrile
- Temperature: -40°F to 350°F
- Cover Color: Black

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
12049990	1	25.40	1.53	38.86	150	12.00	0.89	FT

HOT TAR & ASPHALT HOSE – BULK/UNCOUPLED

This rugged rubber hose is designed specifically to withstand the harsh environment of transferring hot tar and asphalt. Its superior grade nitrile tube can withstand intermitten temperatures up to 350°F, and the high quality abrasion resistant nitrile cover will hold up to rough, abrasive surfaces.

- Tube Material: Nitrile
- Reinforcement: Multiple Poly Tire Cord Plies & Dual Helix Wire
- Cover Material: Nitrile
- Temperature: -40°F to 350°F
- Cover Color: Black
- Apache Branded

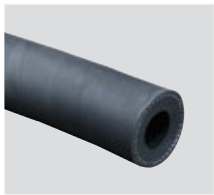
PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
12050010	2	50.8	2.57	65.28	150	6	1.18	FT
12050012	3	76.2	3.73	94.742	150	8	1.84	FT

SANDBLAST HOSE – BULK/UNCOUPLED

Our sandblast hose is constructed specifically for sandblasting, shot blasting, or wherever abrasive materials are carried at high velocity.

- Tube Material: Natural Rubber
- Reinforcement: Synthetic High Tensile Textile
- Cover Material: SBR
- Temperature: -40°F to 150°F
- Cover Color: Black
- Maximum PSI: 150 (1-1/2" has 135 Max. PSI)

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MIN. BEND RADIUS (IN)	NEGATIVE PRESSURE (IN/HG)	WEIGHT (LBS)	U/M
11028519	1/2	12.7	1.23	31.24	0.365	9.27	5	25	0.55	FT
11029000	3/4	19.1	1.5	38.1	0.375	9.53	8	15	0.7	FT
11029507	1	25.4	1.87	47.5	0.435	11.05	12	5	1.01	FT
11030009	1-1/4	31.75	2.16	54.86	0.455	11.56	12	5	1.22	FT
11030505	1-1/2	38.1	2.37	60.2	0.435	11.05	18	5	1.37	FT



ALUMINUM SANDBLAST COUPLINGS

The aluminum sandblast hose end attaches to sandblast hose and provides a gasket seal for connecting one hose to another, or to sandblast equipment.

THREADED COUPLING FEMALE PIPE THREAD X GASKET SEAL

PART#	THREAD	SIZE (IN)	WEIGHT (LBS)	U/M
43124035	Female National Pipe Thread	1-1/4	0.66	EA
43124518	Female National Pipe Thread	1-1/2	0.88	EA

QUICK COUPLING HOSE X GASKET SEAL

PART#	SIZE (IN)	WEIGHT (LBS)	U/M
43123009	3/4	0.36	EA
43123505	1	0.36	EA
43124005	1-1/4	0.66	EA
43124501	1-1/2	0.88	EA

DESCRIPTION ABBREVIATION KEY

SBR = Styrene Butadiene Rubber

SANDBLAST HOSE

SANDBLAST COUPLINGS & ACCESSORIES

ALUMINUM NOZZLE HOLDER

Aluminum nozzle holders provide a means of attaching a sandblast nozzle to a sandblast hose. This aluminum holder is designed to slide snuggly over the exterior of the sandblast hose end, and is held in place with small screws furnished with the holder.

PART#	THREAD	SIZE (IN)	WEIGHT (LBS)	U/M
43125506	1-1/4" National Pipe Straight Mechanical	3/4	0.3	EA
43125508	1-1/4" National Pipe Straight Mechanical	1	0.36	EA
43126008	1-1/4" National Pipe Straight Mechanical	1-1/4	0.52	EA
43126010	1-1/4" National Pipe Straight Mechanical	1-1/2	0.98	EA

SANDBLAST GASKETS

Rubber sandblast gasket presses into the end of sandblast couplings to provide an air-tight seal.

PART#	WEIGHT (LBS)	U/M
43127004	0.024	EA

METAL HOSE

ANNULAR CORRUGATED

DESCRIPTION ABBREVIATION KEY

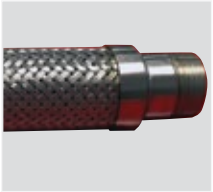
PTFE = Polytetra fluoroethylene

SMBR = Static Minimum Bend Radius

STAINLESS STEEL OVERBRAID METAL HOSE – ASSEMBLIES

Our high performance annular corrugated stainless hose assemblies are ideal for applications requiring greater flexibility, corrosion resistance, and extreme temperature resistance, or where permeation precludes the use of rubber, PTFE, or plastic hose. Its constructed of hydroformed 321 stainless steel, annular corrugation with a 304 stainless steel outer braid, and is coupled with carbon steel welded-on schedule 80 male pipe thread fittings. Pressure ratings are reduced as temperatures exceed 300°F. Contact us for assistance.

- Internal: 321 Stainless Steel Annular Corrugation
- Outer: 304 Stainless Annular Overbraid
- Max PSI: 300
- Temperature: -300°F to 1,200°F Intermittent
- Fittings: Male Pipe Thread x Male Pipe Thread Schedule 80



PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 300°F	MIN. BEND RADIUS (IN)	STATIC MIN. BEND RADIUS	LENGTH	WEIGHT (LBS)	U/M
SINGLE OVERBRAID										
17081301	3/4	19.05	1.22	30.988	898	8	2.1 - SMBR	12"	1	EA
17081302	3/4	19.05	1.22	30.988	898	8	2.1 - SMBR	18"	1.2	EA
17081303	3/4	19.05	1.22	30.988	898	8	2.1 - SMBR	24"	1.38	EA
17081304	1	25.4	1.53	38.862	718	9	2.7 - SMBR	12"	1.34	EA
17081305	1	25.4	1.53	38.862	718	9	2.7 - SMBR	18"	1.59	EA
17081306	1	25.4	1.53	38.862	718	9	2.7 - SMBR	24"	1.84	EA
17081307	1-1/4	31.5	1.83	46.482	645	10	3.1 - SMBR	12"	1.61	EA
17081308	1-1/4	31.5	1.83	46.482	645	10	3.1 - SMBR	18"	1.92	EA
17081309	1-1/4	31.5	1.83	46.482	645	10	3.1 - SMBR	24"	2.22	EA
17081313	1-1/2	38.1	2.16	54.864	531	11	3.9 - SMBR	12"	2.41	EA
17081314	1-1/2	38.1	2.16	54.864	531	11	3.9 - SMBR	18"	2.84	EA
17081315	1-1/2	38.1	2.16	54.864	531	11	3.9 - SMBR	24"	3.26	EA
17081319	2	50.8	2.69	68.326	449	13	5.1 - SMBR	12"	3.31	EA
17081320	2	50.8	2.69	68.326	449	13	5.1 - SMBR	18"	3.87	EA
17081321	2	50.8	2.69	68.326	449	13	5.1 - SMBR	24"	4.42	EA
DOUBLE OVERBRAID										
17081310	1-1/4	31.5	1.91	48.514	968	10	3.1 - SMBR	12"	1.93	EA
17081311	1-1/4	31.5	1.91	48.514	968	10	3.1 - SMBR	18"	2.4	EA
17081312	1-1/4	31.5	1.91	48.514	968	10	3.1 - SMBR	24"	2.86	EA
17081316	1-1/2	38.1	2.24	56.896	797	11	3.9 - SMBR	12"	2.79	EA
17081317	1-1/2	38.1	2.24	56.896	797	11	3.9 - SMBR	18"	3.41	EA
17081318	1-1/2	38.1	2.24	56.896	797	11	3.9 - SMBR	24"	4.02	EA
17081322	2	50.8	2.77	70.358	674	13	5.1 - SMBR	12"	3.83	EA
17081323	2	50.8	2.77	70.358	674	13	5.1 - SMBR	18"	4.65	EA
17081324	2	50.8	2.77	70.358	674	13	5.1 - SMBR	24"	5.46	EA
17081325	2-1/2	63.5	3.6	91.44	626	16	6.8 - SMBR	12"	4.76	EA
17081326	2-1/2	63.5	3.6	91.44	626	16	6.8 - SMBR	18"	5.98	EA
17081327	2-1/2	63.5	3.6	91.44	626	16	6.8 - SMBR	24"	7.2	EA
17081328	3	76.2	4.08	103.632	519	18	7.8 - SMBR	12"	6.24	EA
17081329	3	76.2	4.08	103.632	519	18	7.8 - SMBR	18"	7.71	EA
17081330	3	76.2	4.08	103.632	519	18	7.8 - SMBR	24"	9.18	EA

PETROLEUM HOSE

TRANSPORT HOSE

PETRO CORRUGATED – BULK/UNCOUPLED

Petro corrugated transport hose is constructed specifically for the transfer of gasoline up to 50% aromatic, petroleum based oils, and other petroleum based products. Its special rubber compounds and construction make it exceptionally lightweight and extremely flexible.

- Tube Material: High Grade Nitrile RMA Class A
- Reinforcement: Multiple Polyester Plies with Dual Carbon Steel Helix
- Cover Material: NBR/PVC, RMA Class B
- Temperature: -40°F to 200°F
- Maximum PSI: 150
- Negative Pressure (in/HG): 30
- Coil Length: 100'

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MIN. BEND RADIUS (IN)	COVER COLOR	WEIGHT (LBS)	U/M
12058995	1-1/2	38.1	2	50.8	0.25	6.35	4.5	Black	0.8	FT
12058996	2	50.8	2.44	61.98	0.22	5.59	6	Black	0.91	FT
12058997	3	76.2	3.5	88.9	0.25	6.35	9	Black	1.64	FT
12058998	4	101.6	4.5	114.3	0.25	6.35	12	Black	2.4	FT
12080560	2	50.8	2.44	61.98	0.22	5.59	4	Red	1.2	FT
12080562	3	76.2	3.5	88.9	0.25	6.35	5.5	Red	1.8	FT
12080563	4	101.6	4.5	114.3	0.25	6.35	8	Red	2.7	FT

DESCRIPTION ABBREVIATION KEY

NBR = Nitrile

PVC = Poly Vinyl Chloride

30 in/HG = Full Vacuum

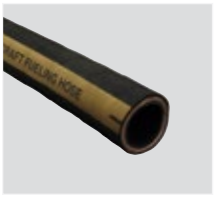
AVIATION REFUELING – BULK/UNCOUPLED

Aircraft refueling hose is a high pressure hose for top deck reel and platform type aircraft refueling equipment. The hose construction and materials provide a path for static electrical charge to ground for safety and minimizes permeation. The premium nitrile tube will not contaminate product going through the hose and the nitile cover is resistant to abrasion, oil, and weathering. This hose is also suitable for defueling service at low pressures (suction/vacuum rating to 8 in/HG). Meets industry standards API/IP 1529, NFPA 407, and BS EN 1361.

- Tube Material: Nitrile
- Reinforcement: Multiple Textile Plies
- Cover Material: Static Conductive Nitrile
- Temperature: -40°F to 180°F
- Maximum PSI: 300
- Standard Reel: 200'
- Negative Pressure (in/HG): 8

Apache is a certified coupler of aircraft refueling hose.

Negative pressure also commonly referred to as vacuum rating.

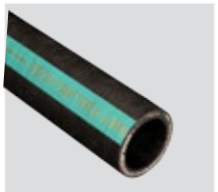


PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
12091400	1"	25.4	1.63	41.4	0.315	8	10	0.69	FT
12091409	1-1/4"	31.75	1.91	48.5	0.33	8.38	13	0.88	FT
12091403	1-1/2"	38.1	2.19	55	0.345	8.45	15	1.07	FT
12091412	2"	50.8	2.74	69.6	0.37	9.4	20	1.46	FT
12091418	2-1/2"	63.5	3.26	82.8	0.38	9.65	25	1.81	FT
12091424	3"	76.2	3.76	95.5	0.38	9.65	30	2.08	FT

COLD TEMPERATURE AVIATION REFUELING – BULK/UNCOUPLED

Cold temperature aircraft refueling hose is a high pressure hose for top deck reel and platform type aircraft refueling equipment. The hose construction and materials provide a path for static electrical charge to ground for safety and minimizes permeation. The premium nitrile tube will not contaminate product going through the hose and the nitile cover is resistant to abrasion, oil, and weathering. This hose is also suitable for defueling service at low pressures (suction/vacuum rating to 8 in/HG). Meets industry standards API/IP 1529, NFPA 407, and BS EN 1361.

- Tube Material: Nitrile
- Reinforcement: Multiple Textile Plies
- Cover Material: Static Conductive Nitrile
- Temperature: -55°F to 180°F
- Maximum PSI: 300
- Standard Reel: 200'
- Negative Pressure (in/HG): 8



PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
12091406	1-1/2"	38.1	2.19	55.0	0.345	8.45	15	0.97	FT
12091415	2"	50.8	2.74	69.6	0.37	9.4	20	1.23	FT
12091421	2-1/2"	63.5	3.26	82.8	0.38	9.65	25	1.40	FT

JAC-RISER AVIATION REFUELING – BULK/UNCOUPLED

Jac-Riser aircraft fueling hose is a flexible connector hose ideal for aviation fuel supplied through an adjustable elevated aircraft service platform, called a Jac-Riser, which is connected to a mobile dispenser cart supplied by an in-ground hydrant system. The hose construction and materials provide a path for static electrical charge to ground for safety, and the dual wire helix provides flexibility, kink resistance, and full suction capability for both fueling and defueling/unloading service. The premium nitrile tube will not contaminate product going through the hose, and the nitile cover is resistant to abrasion, oil, and weathering. Meets industry standards API/IP 1529, NFPA 407, and BS EN 1361.

- Tube/Cover Material: Nitrile
- Reinforcement: Multiple Textile Plies
- Temperature: -40°F to 180°F
- Maximum PSI: 300
- Negative Pressure (in/HG): 30
- Standard Reel: 200'

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
12091427	4"	101.6	4.98	126.49	0.49	12.44	16	2.01	FT

CURB PUMP HARDWALL – ASSEMBLIES

A high quality commercial grade fuel dispensing hose that is UL approved. It is crush resistant and excellent for hose reel applications. Its Hypalon® cover resists cuts, abrasion, sun and weather, and will not scratch or mark vehicle finishes.

- Tube Material: Nitrile
- Reinforcement: 1 Braid Steel Wire
- Cover Material: Hypalon®
- Temperature: -40°F to 180°F
- Cover Color: Black
- Max PSI: 150
- Fittings: Male Pipe Thread x Male Pipe Thread Crimped
- UL330/ULC Approved

PKG PART#	BULK PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	LENGTH	WEIGHT (LBS)	U/M
98108677	98108675	3/4	19.1	1.09	27.69	4	10'	4.8	EA
98108686	98108685	3/4	19.1	1.09	27.69	4	12'	5.7	EA
98108696	98108695	3/4	19.1	1.09	27.69	4	14'	6.6	EA
98108701	—	3/4	19.1	1.09	27.69	4	15'	7.05	EA
—	98108703	3/4	19.1	1.09	27.69	4	16'	7.4	EA
98108702	98108710	3/4	19.1	1.09	27.69	4	20'	9.2	EA
98108704	98108711	1	25.4	1.34	34.04	5	10'	5.6	EA
98108706	98108712	1	25.4	1.34	34.04	5	12'	6.7	EA
98108707	98108713	1	25.4	1.34	34.04	5	14'	7.6	EA
98108708	98108714	1	25.4	1.34	34.04	5	15'	8.1	EA
—	98108715	1	25.4	1.34	34.04	5	16'	8.6	EA
98108709	98108718	1	25.4	1.34	34.04	5	20'	10.6	EA

DESCRIPTION ABBREVIATION KEY

NBR = Nitrile Butadiene Rubber (Buna-N)

PVC = Poly Vinyl Chloride

FUEL TRANSFER HOSE

Need a composite petroleum transfer hose? Contact Apache customer service for details, or to order.

DESCRIPTION ABBREVIATION KEY

NBR =Nitrile Butadiene Rubber (Buna-N)

PVC = Poly Vinyl Chloride

CURB PUMP SOFTWALL – ASSEMBLIES

A high quality, softwall commercial grade fuel dispensing hose that is UL approved. It is excellent for dispensing diesel, unleaded, and oxygenated gasoline products. Its Hypalon® cover resists cuts, abrasion, sun and weather, and will not scratch or mark vehicle finishes. Contains built-in static wire and is UL330/ULC approved. Do not use in reel applications.

- Tube Material: Nitrile
- Reinforcement: Polyester Cord
- Cover Material: Hypalon®
- Temperature: -40°F to 180°F
- Cover Color: Black
- Max PSI: 150
- Fittings: Male Pipe Thread x Male Pipe Thread Crimped

PKG PART#	BULK PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	LENGTH	WEIGHT (LBS)	U/M
98108611	98108610	3/4	19.1	1.1	27.94	6	10'	3.7	EA
98108621	98108620	3/4	19.1	1.1	27.94	6	12'	4.4	EA
98108631	98108635	3/4	19.1	1.1	27.94	6	15'	5.3	EA
98108636	98108638	3/4	19.1	1.1	27.94	6	16'	5.7	EA
—	98108643	3/4	19.1	1.1	27.94	6	18'	6.2	EA
98108637	98108645	3/4	19.1	1.1	27.94	6	20'	6.9	EA
98108639	98108646	1	25.4	1.36	34.54	8	10'	5	EA
98108641	98108648	1	25.4	1.36	34.54	8	12'	5.8	EA
98108642	98108650	1	25.4	1.36	34.54	8	14'	6.6	EA
98108653	98108651	1	25.4	1.36	34.54	8	15'	7	EA
—	98108652	1	25.4	1.36	34.54	8	16'	7.5	EA
—	98108654	1	25.4	1.36	34.54	8	17'	7.92	EA
—	98108656	1	25.4	1.36	34.54	8	18'	8.3	EA
—	98108658	1	25.4	1.36	34.54	8	20'	9.2	EA
98108655	98108658	1	25.4	1.36	34.54	8	20'	9.2	EA

BIO-FUEL FARM TRANSFER HOSE – ASSEMBLIES

Bio-fuel farm transfer hose is designed for dispensing unleaded gasoline, E85 ethanol, B10/B20 bio-diesel, and kerosene. This high quality hose is constructed with a built in "static wire" to dissipate static electricity generated by 12 volt and 110 volt "electric" pumps. It is coupled with zinc chromate fittings on each end, as well as internal spring guards which prevent kinking at the fitting and dramatically extends the life of the assembly.

- Tube Material: NBR/RMA Class A
- Reinforcement: 2 Spiral Textile Cord
- Cover Material: NBR/PVC, RMA Class A
- Temperature: -20°F to 160°F
- Fittings: Male Pipe Thread x Male Pipe Thread Crimped

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	COVER COLOR	LENGTH	WEIGHT (LBS)	U/M
98108462	3/4	19.1	1.12	28.45	60	4.5	Green	14'	5.15	EA
98108463	3/4	19.1	1.12	28.45	60	4.5	Green	20'	7.25	EA
98108493	1	25.4	1.36	34.54	60	7	Green	15'	7.45	EA
98108496	1	25.4	1.36	34.54	60	7	Green	20'	9.87	EA

DIESEL EXHAUST FLUID (DEF) – BULK/UNCOUPLED

Diesel Exhaust Fluid (DEF) dispenser hose is designed specifically for the emerging segments of the mobile equipment and transportation markets. It is constructed of a specially compounded peroxide-cured EPDM tube that will not contaminate DEF. Available in full reels as well as factory assemblies with non-corrosive stainless steel fittings.

- Tube Material: EPDM
- Reinforcement: Multiple textile plies
- Temperature: -40°F to 212°F
- Maximum PSI: 150
- Negative Pressure (in/HG): Full
- Cover Color: Black
- Standard Reel: 200'

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
12180000	3/4	19.05	1.156	29.4	0.406	10.3	6	0.34	FT

FARM FUEL TRANSFER HOSE – ASSEMBLIES

Designed for use with 12 volt and 110 volt electric pumps to dispense gasoline, 15% ethanol, diesel, kerosene, and oil. This high quality hose is constructed with a built in static wire to dissipate static electricity associated with electric pumps. It is coupled with male fittings on each end and internal spring guards, which prevent kinking at the fittings and dramatically extends the life of the assembly. Do not use with bio-diesel.

- Tube/Cover Material: NBR
- Reinforcement: 2-Ply Synthetic Plies
- Temperature: -20°F to 160°F
- Fittings: Male Pipe Thread x Male Pipe Thread Crimped

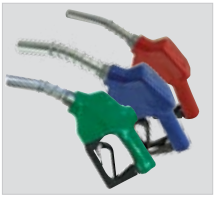
PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	LENGTH	WEIGHT (LBS)	U/M
98108445	3/4	19.05	1.13	28.58	60	8'	3.05	EA
98108450	3/4	19.05	1.13	28.58	60	10'	3.75	EA
98108455	3/4	19.05	1.13	28.58	60	12'	4.45	EA
98108460	3/4	19.05	1.13	28.58	60	14'	5.15	EA
98108465	3/4	19.05	1.13	28.58	60	15'	5.5	EA
98108468	3/4	19.05	1.13	28.58	60	20'	7.25	EA
98108470	1	25.40	1.38	34.93	60	8'	4.16	EA
98108475	1	25.40	1.38	34.93	60	10'	5.1	EA
98108480	1	25.40	1.38	34.93	60	12'	6.04	EA
98108485	1	25.40	1.38	34.93	60	14'	6.98	EA
98108490	1	25.40	1.38	34.93	60	15'	7.45	EA
98108495	1	25.40	1.38	34.93	60	20'	9.87	EA

DESCRIPTION ABBREVIATION KEY

NBR =Nitrile Butadiene Rubber (Buna-N)

AUTOMATIC SHUT-OFF FUEL NOZZLES

Automatic shut-off fuel dispensing nozzles are compatible with most fuel hoses without the use of adapter fittings. Their vinyl covered handles provide improved operator comfort and product identification. Units are UL approved. Nozzle designed for pump driven fuel systems with a minimum of 15 PSI and a maximum of 43 PSI. Do not use on gravity flow systems. A minimum of 15 PSI is required to operate the auto shut-off.



PART#	THREAD	SPOUT (IN)	SPOUT ID (IN)	SPOUT OD (IN)	COLOR	WEIGHT (LBS)	U/M
99000246	3/4" Female Pipe Thread	3/4	0.6	0.788	Red	2.6	EA
99000239	3/4" Female Pipe Thread	15/16	0.75	0.946	Blue	2.45	EA
99000247	1" Female Pipe Thread	1	0.964	1.19	Green	3.5	EA

MANUAL GRAVITY FLOW FUEL NOZZLES

Manual gravity flow nozzles with spout, hanging clip, and female pipe thread swivel inlet. The swivel inlet helps protect your hose from twisting and kinking, making it easier to dispense fuel. Units are UL approved.

PART#	THREAD	SPOUT (IN)	WEIGHT (LBS)	U/M
99000232	3/4" Female Pipe Thread	13/16	2.1	EA
99000229	1" Female Pipe Thread	15/16	2.15	EA

FUEL PRODUCTS KITS

These fuel dispensing kits have everything you need except a pump. The automatic nozzle kits come with a live swivel and the manual nozzle has a built-in swivel nut.

- Fuel nozzle
- Fuel swivel (Automatic only)
- Splash guard
- Swivel nut & guard
- 14' Static dissipating farm fuel hose with spring guard.

AUTOMATIC – RED

PART#	THREAD	SPOUT (IN)	WEIGHT (LBS)	U/M
99000278	3/4" Female Pipe Thread	Red	4.2	EA

AUTOMATIC – GREEN

PART#	THREAD	SPOUT (IN)	WEIGHT (LBS)	U/M
99000277	1" Female Pipe Thread	Green	11.68	EA

MANUAL – BLUE

PART#	THREAD	SPOUT (IN)	WEIGHT (LBS)	U/M
99000276	3/4" Female Pipe Thread	13/16	3.56	EA
99000275	1" Female Pipe Thread	15/16	11.32	EA

NOZZLE SPLASH GUARDS

Splash guard fits over fuel nozzles. It helps to prevent operator from fuel splash while dispensing product and also serves as a means of product identification.

PART#	NOZZLE OD (IN)	COLOR	WEIGHT (LBS)	U/M
99000245	3/4	Red	0.14	EA
99000244	1	Blue	0.14	EA
99000248	1-1/4	Green	0.14	EA

FUEL SWIVELS

Fuel dispenser hose swivels provide an effective way to protect your hose from kinking during fueling operations. The swivel is most effective when installed between the fuel dispenser and the fuel hose.

PART#	THREAD	WEIGHT (LBS)	U/M.
99000233	3/4" Male Pipe Thread x 3/4" Female Pipe Thread	1.05	EA
99000234	1" Male Pipe Thread x 1" Female Pipe Thread	1.22	EA

FUEL HOSE BREAKAWAYS (SINGLE USE)

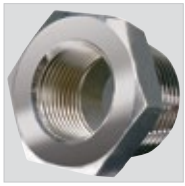
Fuel Saver - Safety Breakaways are an important part of any fuel dispensing system. They immediately stop fuel flow in case of drive off. They come complete with a 9" fuel hose assembly that installs between the dispenser and the breakaway. For one-time operation.

PART#	THREAD	SEPARATION FORCE RATING (LBS	U/M
99000235	3/4"	250	EA
99000236	1"	300	EA

FUEL NOZZLE HEX ADAPTER

Fuel nozzle hex reducer and bell bushing adapters connect fuel nozzles to fuel hoses.

PART#	THREAD	WEIGHT (LBS)	U/M
99000270	1" Male Pipe Thread x 3/4" Female Pipe Thread	0.31	EA



NOZZLE HOOKS

Fuel nozzle hooks are designed to attach to fuel nozzle spouts for easy storing when not in use. Secured with a set screw.

PART#	NOZZLE OD (IN)	WEIGHT (LBS)	U/M
99000241	3/4	0.08	EA
99000238	15/16	0.95	EA
99000249	1.2	0.1	EA

FUEL LINE HOSE

LP GAS

DESCRIPTION ABBREVIATION KEY

NBR =Nitrile Butadiene Rubber (Buna-N)

PVC = Poly Vinyl Chloride

RMA = Rubber Manufacturers Association

SAE 30R7 FUEL LINE HOSE – BULK/UNCOUPLED

This durable high quality hose is similar to SAE 30R7 specifications. It provides excellent service for original equipment manufacturers, wholesalers, and aftermarket packagers. The 100' option is packaged on a plastic reel making it perfect for retailers, while the 700' reel is available for cut-to-length pieces.

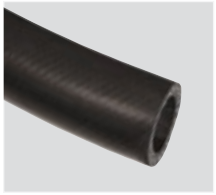
- Tube Material: NBR/RMA Class A
- Cover Material: NBR/PVC, RMA Class B
- Cover Color: Black
- Reinforcement: 2 Synthetic Plies
- Temperature: -29°F to 257°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	LENGTH	WEIGHT (LBS)	U/M
98108590	3/16	4.76	0.41	10.41	50	100'	0.07	FT
98108592	1/4	6.35	0.50	12.70	50	100'	0.09	FT
98108594	5/16	7.94	0.56	14.22	50	100'	0.11	FT
98108597	3/8	9.53	0.63	16.00	50	100'	0.12	FT
10115012	3/16	4.76	0.41	10.41	50	700'	0.07	FT
10115016	1/4	6.35	0.50	12.70	50	700'	0.09	FT
10115019	5/16	7.94	0.56	14.22	50	700'	0.11	FT
10115018	3/8	9.53	0.63	16.00	50	700'	0.12	FT

350 PSI SMALL DIAMETER LP GAS HOSE – BULK/UNCOUPLED

This hose is specifically designed for transferring liquefied propane gas. It has an abrasion resistant cover that is pin-pricked to permit gas diffusion and prevent cover separation, so it must be used in well-ventilated environments. Do not use reusable couplings on this hose.

- Tube Material: NBR/RMA Class A
- Cover Material: NBR/PVC, RMA Class B
- Temperature: -40°F to 180°F
- Reinforcement: 4 Spiral Textile Cord



PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	COVER COLOR	WEIGHT (LBS)	U/M
10080500	1/4	6.40	0.63	16.00	350	1.50	Black	0.14	FT
10081009	3/8	9.50	0.75	19.05	350	2.25	Black	0.18	FT
10081505	1/2	12.70	0.94	23.88	350	3.00	Black	0.29	FT
10082005	3/4	19.10	1.25	31.75	350	4.50	Black	0.37	FT
10082501	1	25.40	1.50	38.10	350	7.00	Black	0.58	FT

350 PSI LARGE DIAMETER LP GAS HOSE – BULK/UNCOUPLED

This hose is specifically designed for transferring liquefied propane gas. It has an abrasion resistant cover that is pin-pricked to permit gas diffusion and prevent cover separation, so it must be used in well-ventilated environments. Do not use reusable couplings on this hose.

- Tube Material: Nitrile
- Cover Material: Neoprene
- Temperature: -40°F to 180°F
- Reinforcement: 2 Synthetic Braids

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	COVER COLOR	WEIGHT (LBS)	U/M
11036007	1-1/4	31.75	1.81	46.02	350	12.00	Black	0.85	FT
11036503	1-1/2	38.10	2.16	54.76	350	14.00	Black	1.19	FT
11037003	2	50.80	2.75	69.85	350	16.00	Black	1.87	FT

350 PSI LP GAS HOSE – ASSEMBLIES

This hose is specifically designed for transferring liquefied propane gas. It has an abrasion resistant cover that is pin-pricked to permit gas diffusion and prevent cover separation so it must be used in well-ventilated environments.

- Tube Material: NBR/RMA Class A
- Reinforcement: Multi-Ply Textile Spirals
- Cover Material: NBR/PVC, RMA Class B
- Temperature: -40°F to 180°F
- Fittings: Male Pipe Thread x Male Pipe Thread Crimped

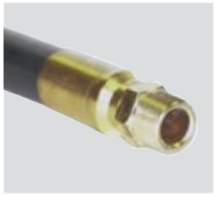
PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	COVER COLOR	LENGTH	WEIGHT (LBS)	U/M
98108578	3/8	9.53	0.63	16.00	350	2.25	Black	5'	1	EA
98108579	3/8	9.53	0.63	16.00	350	2.25	Black	10'	1.9	EA
98108580	3/8	9.53	0.63	16.00	350	2.25	Black	15'	2.8	EA
98108581	3/8	9.53	0.63	16.00	350	2.25	Black	20'	3.7	EA
98108582	1/2	12.70	0.94	23.88	350	3.00	Black	10'	3.1	EA
98108583	1/2	12.70	0.94	23.88	350	3.00	Black	25'	7.55	EA
98108584	1/2	12.70	0.94	23.88	350	3.00	Black	50'	14.7	EA
98108585	1/2	12.70	0.94	23.88	350	3.00	Black	100'	14.5	EA
11037020	1	25.40	1.50	38.10	350	7.00	Black	100'	65.2	EA
11037025	1	25.40	1.50	38.10	350	7.00	Black	125'	81.11	EA
11037030	1	25.40	1.50	38.10	350	7.00	Black	150'	97.03	EA

LOW TEMPERATURE LP GAS HOSE – ASSEMBLIES

This hose assembly is specifically designed for transferring liquefied propane gas, but is rated 10 degrees lower than most LP gas hoses. It has an abrasion resistant cover, and is coupled with non-sparking brass fittings on both ends. This hose must be used in well ventilated environments.

- Tube Material: NBR/RMA Class A
- Reinforcement: Multi-Ply Textile Spirals
- Cover Material: CM/RMA Class B
- Temperature: -50°F to 180°F
- Fittings: Male Pipe Thread x Male Pipe Thread Crimped - Non-Sparking Brass Fittings

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	COVER COLOR	LENGTH	WEIGHT (LBS)	U/M
11037031	1	25.40	1.50	38.10	350	7.00	Black	100'	61	EA
11037033	1	25.40	1.50	38.10	350	7.00	Black	125'	75.5	EA
11037035	1	25.40	1.50	38.10	350	7.00	Black	150'	90	EA



LP GAS SMART-HOSE™ – ASSEMBLIES

The Smart-Hose™ safety system makes this the safest method of transferring liquid propane gas to and from bulk storage tanks. It features a unique, patented design that eliminates the potential for catastrophic consequences resulting from the uncontrolled release of product due to coupling ejection, hose stretching to an unsafe condition, and/or hose separation. Every Smart-Hose™ assembly utilizes a plunger, wedge, or flapper valve to instantly shut off the flow of product in both directions should a problem occur.

- Tube Material: NBR/RMA Class A
- Reinforcement: 2 Synthetic Braids
- Cover Material: CM/RMA Class B
- Temperature: -40°F to 180°F
- Fittings: Female Pipe Thread x Female Pipe Thread Smart Fitting

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	COVER COLOR	LENGTH	WEIGHT (LBS)	U/M
11036010	1-1/4	31.75	1.81	46.02	350	12.00	Black	19'	12	EA
11037050	2	50.80	2.75	69.85	350	16.00	Black	18' 6"	16	EA

DESCRIPTION ABBREVIATION KEY

CM = Chlorinated Polyethylene

PVC = Poly Vinyl Chloride

NBR =Nitrile Butadiene Rubber (Buna-N)

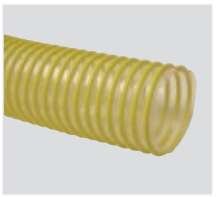
RMA = Rubber Manufacturers Association

VAPOR RECOVERY HOSE

URETHANE VAPOR RECOVERY HOSE

Urethane vapor recovery hose is constructed of non-permeable polyurethane and is compatible with gasoline, diesel, most biofuels, such as Ethanol (up to E98), and biodiesel vapors (B100 meeting ASTM D-6751). It has an external, rigid, yellow PVC helix for strength and ease of handling, plus an embedded anodized copper wire that provides static dissipation when grounded to fittings. Available in 3" and 4".

- Tube Material: Urethane
- Cover Material: Urethane with Spiral Helix
- Reinforcement: Rigid PVC Helix
- Temperature: -40°F to 150°F
- Cover Color: Clear/Yellow
- Negative Pressure (in/HG): 29.8



PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
12090180	3	76.2	3.5	88.9	0.25	6.35	13	3.5	0.77	FT

WELDING HOSE

TWIN LINE/TORCH WELDING HOSE – ASSEMBLIES

Our twin line oxygen/acetylene assemblies are designed for portable or production line welding in factories, construction, and agricultural applications. This hose meets or exceeds RMA and Compressed Gas Association specifications for Grade R welding hose. The green oxygen and red acetylene smooth cover hoses are vulcanized together, ensuring long life and easy handling.

- Tube Cover Material: EPDM
- Reinforcement: Multiple Textile Spirals
- Temperature: -20°F to 200°F
- Max. PSI: 200
- Cover Color: Red/Green
- Fittings: Female Brass Fittings

Grade R welding hoses used for acetylene fuel gas only. Tube and cover are not flame or oil resistant.

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MIN. BEND RADIUS (IN)	LENGTH	WEIGHT (LBS)	U/M
10066850	3/16	4.8	0.44	11.13	0.249	6.33	2	25'	4	EA
10066855	3/16	4.8	0.44	11.13	0.249	6.33	2	50'	7	EA
10066875	1/4	6.4	0.53	13.49	0.279	7.09	2.5	25'	6	EA
10066880	1/4	6.4	0.53	13.49	0.279	7.09	2.5	50'	11	EA

PRESSURE WASHER HOSE

TPR HOSE

2600 PSI / 3700 PSI FEMALE METRIC X FEMALE METRIC ASSEMBLIES

Thermoplastic Rubber (TPR) pressure washer hose is 60% lighter weight and more flexible than rubber hoses, and works well in most cold water applications. It is constructed of a fabric reinforced, thermoplastic compound, which gives it increased strength, weather resistance, and chemical resistant. Both ends have permanently attached female metric couplings with bend restrictors for extended service life, and the assembly comes with a male metric adapter.

- Tube Material: Thermoplastic Rubber
- Reinforcement: High Tensile Synthetic Cord
- Cover Material: Thermoplastic Rubber
- Temperature: -4°F to 140°F
- Fittings: Female Metric x Female Metric
- Adapter: Male Metric

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	COLOR	LENGTH	WEIGHT (LBS)	U/M
2600 PSI									
10085582	1/4	6.35	0.47	11.99	5	Black	25'	2.45	EA
10085577	1/4	6.35	0.47	11.94	5	Black	35'	3.17	EA
3700 PSI									
10085590	5/16	7.94	0.55	13.97	5	Black	25'	3.05	EA
10085591	5/16	7.94	0.55	13.97	5	Black	50'	5.05	EA

XTREME FLEX HOSE

3100 PSI XTREME FLEX – FEMALE METRIC X FEMALE METRIC ASSEMBLIES

Apache pressure washer hose with XtremeFlex technology hose combines flexibility, durability, and reduced weight. Engineered as a hybrid polymer, it combines the best qualities of urethane and rubber. Xtreme Flex stays flexible when pressurized and offers minimal coil memory when depressurized, which allows the hose to lay flat. Its advanced formulation cover is twice as abrasion resistant as rubber or thermal plastic rubbers and is non-marking.

- Tube Material: Nylon Blend
- Reinforcement: Synthetic Fabric
- Cover Material: Engineered Polymer
- Temperature: -40°F to 140°F
- Fittings: Female Metric x Female Metric

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	COLOR	LENGTH	WEIGHT (LBS)	U/M
10085585	1/4	6.35	0.46	11.68	2	Blue	50'	4.1	EA

RUBBER HOSE

3000 PSI – MALE PIPE THREAD X MALE PIPE THREAD SWIVEL ASSEMBLIES

3000 PSI rubber pressure washer hose is designed for hot and cold water applications where a heavy-duty rugged hose is required. Its synthetic rubber cover is abrasion resistant and has medium oil resistance. Blue hose is also non-marking. This assembly is coupled with Male Pipe Thread x Male Pipe Thread swivel, and has one bend restrictor.

- Tube Material: Nitrile
- Reinforcement: 1 Steel Wire Braid
- Cover Material: Synthetic Rubber
- Temperature: -4°F to 200°F
- Fittings: Male Pipe Thread x Male Pipe Thread Swivel

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	COLOR	LENGTH	WEIGHT (LBS)	U/M
1/4" FITTINGS									
98388081	3/8	9.5	0.69	17.53	5	Blue	35'	7.2	EA
98388086	3/8	9.5	0.69	17.53	5	Blue	50'	11.9	EA
98388087	3/8	9.5	0.69	17.53	5	Blue	75'	16.1	EA
98388089	3/8	9.5	0.69	17.53	5	Blue	100'	23.8	EA
3/8" FITTINGS									
98388075	3/8	9.5	0.69	17.53	5	Black	25'	5.4	EA
98388080	3/8	9.5	0.69	17.53	5	Black	35'	7.2	EA
98388085	3/8	9.5	0.69	17.53	5	Black	50'	11.9	EA

4000 PSI – MALE PIPE THREAD X MALE PIPE THREAD SWIVEL ASSEMBLIES

4000 PSI rubber pressure washer hose is designed for hot and cold water applications where a heavy-duty rugged hose is required. Its synthetic rubber cover is abrasion resistant and has medium oil resistance. This assembly is coupled with Male Pipe Thread x Male Pipe Thread swivel, and has one bend restrictor.

- Tube Material: Nitrile
- Reinforcement: 1 Steel Wire Braid
- Cover Material: Synthetic Rubber
- Temperature: -4°F to 200°F
- Fittings: 3/8" Male Pipe Thread x 3/8" Male Pipe Thread Swivel

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	COLOR	LENGTH	WEIGHT (LBS)	U/M
10085560	3/8	9.5	0.71	18.03	6	Black	25'	7.25	EA
10085570	3/8	9.5	0.71	18.03	6	Black	50'	12.9	EA

4000 PSI – FEMALE METRIC X FEMALE METRIC ASSEMBLIES

4000 PSI rubber pressure washer hose is designed for hot and cold water applications where a heavy-duty rugged hose is required. Its synthetic rubber cover is abrasion resistant and has medium oil resistance. This assembly is coupled with female metric x female metric with bend restrictor.

- Tube Material: Nitrile
- Reinforcement: 1 Steel Wire Braid
- Cover Material: Synthetic Rubber
- Temperature: -4°F to 200°F
- Fittings: Female Metric x Female Metric
- Adapter: Male Metric

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	COLOR	LENGTH	WEIGHT (LBS)	U/M
10085563	3/8	9.5	0.71	18.03	6	Black	25'	7.25	EA
10085573	3/8	9.5	0.71	18.03	6	Black	50'	12.9	EA

4000 PSI – SOCKET X PLUG QUICK DISCONNECT ASSEMBLIES

4000 PSI rubber pressure washer hose is designed for hot and cold water applications where a heavy-duty rugged hose is required. Its synthetic rubber cover is abrasion resistant and has medium oil resistance. This assembly is coupled with 3/8" quick disconnect socket x plug, and one bend restrictor.

- Tube Material: Nitrile
- Reinforcement: 1 Steel Wire Braid
- Cover Material: Synthetic Rubber
- Temperature: -4°F to 200°F
- Fittings: 3/8" Quick Disconnect Socket x Plug

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MIN. BEND RADIUS (IN)	COLOR	LENGTH	WEIGHT (LBS)	U/M
10085564	3/8	9.5	0.71	18.03	6	Black	25'	7.25	EA
10085574	3/8	9.5	0.71	18.03	6	Black	50'	12.9	EA

2600 PSI GUN & VARIABLE WAND

The 2600 PSI gun kit adjusts from 0° to 80° for both low pressure soaping and high pressure cleaning. For use with most cold water pressure washers rated up to 2600 PSI. Kit Includes:

- Inlet: Male Metric
- Outlet: Female Metric

PACKAGED PART#	MAX. TEMP	GALLONS PER MINUTE	WEIGHT (LBS)	U/M
99023801	140°F	7	2.6	EA
– Metric gun with a detachable wand				
– Variable spray nozzle with male metric inlet				

2600 PSI GUN KIT

The 2600 PSI gun kit is for use with most gas and electric cold water pressure washers. Kit includes:

- Inlet: Male Metric
- Outlet: Female Metric

PACKAGED PART#	MAX. TEMP	GALLONS PER MINUTE	WEIGHT (LBS)	U/M
99023677	140°F	7	4.72	EA
– Metric gun with trigger lock				
– 1/4" x 25' 2600 PSI hose with female metric on both ends				
– Male metric x 4.0 variable nozzle (0-80) with soap function wand				
– Male metric x male metric adapter				

3000 PSI METRIC GUN

This gun is designed for use with metric pressure washers and metric accessories. The male metric inlet accepts hoses with female metric fittings, and the female metric outlet connects directly to metric wands. It has a safety trigger lock which helps prevent accidental spraying.

- Inlet: Male Metric
- Outlet: Female Metric

UNPACKAGED PART#	MAX. TEMP	GALLONS PER MINUTE	WEIGHT (LBS)	U/M
99023678	140°F	7	2.5	EA

3200 PSI ERGONOMIC GUN

This gun has a bottom hinged ergonomic trigger for improved operator comfort. It has a 3/8" female pipe thread inlet and a female metric outlet. The safety trigger lock helps prevent accidental spraying.

- Inlet: 3/8" Female Pipe Thread
- Outlet: Female Metric

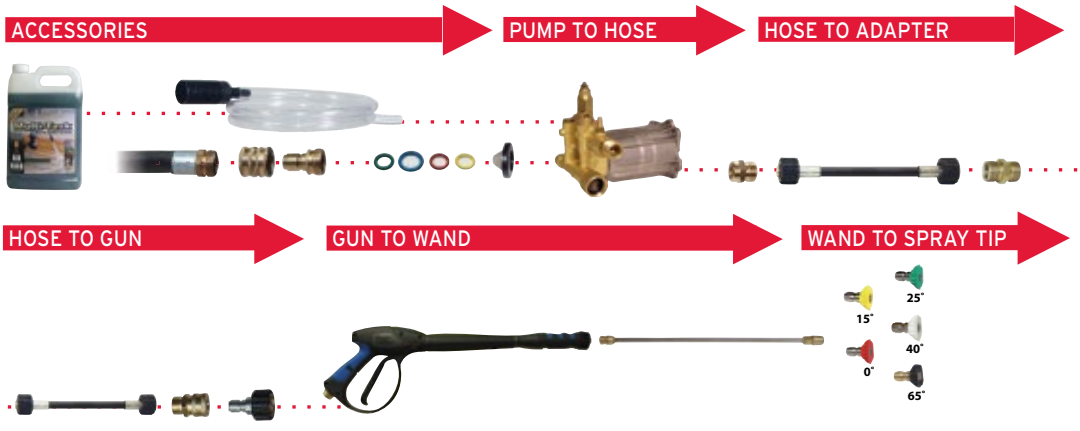
PART#	MAX. TEMP	GALLONS PER MINUTE	WEIGHT (LBS)	U/M
PACKAGED				
99030691	140°F	7	1.26	EA
– 3200 PSI Gun				
– 3/8" Male Pipe Thread x Male Metric Adapter				
UNPACKAGED				
99030691-C	140°F	7	1.26	EA
– 3200 PSI Gun Only				

CONNECTION MAP

WHAT TO KNOW BEFORE YOU BUY:

Apache pressure washer accessories are specifically designed to fit most makes and models of pressure washers and give you alternative products to maximize your pressure washer's cleaning capabilities.

- Connection Types
- Gas or Electric
- PSI Rating
- Application



3700 PSI GUN KIT

The 3700 PSI gun kit is for use with most gas and electric cold water pressure washers with standard metric connections. Kit includes:

- Inlet: Female Metric
- Outlet: Female Metric

PACKAGED PART#	MAX. TEMP	GALLONS PER MINUTE	WEIGHT (LBS)	U/M
99023676	140°F	7	6.4	EA
– 5/16" x 25' 3700 PSI hose with female metric fittings on both ends – 4000 PSI gun with female metric outlet & 3/8 female pipe thread inlet and safety trigger – Male metric x quick disconnect socket wand – Male metric x male adapter – Male metric x 3/8" quick disconnect socket adapter – Female x 3/8" quick disconnect plug adapter – 5 quick disconnect spray tips - 0°, 15°, 25°, 40°, and 65° low pressure soap/ chemical tip				

4000 PSI GUN KITS

The 4000 PSI gun is designed for use with metric pressure washers and metric accessories. This gun has a 3/8" female pipe thread inlet for easy adaptability and a safety trigger lock that helps to prevent accidental spraying.

- Inlet: 3/8" Female Pipe Thread
- Outlet: Female Metric

PART#	MAX. TEMP	GALLONS PER MINUTE	WEIGHT (LBS)	U/M
PACKAGED				
99023686	140°F	7	2.6	EA
– 4000 PSI Gun – Female Metric Adapter – 3/8" Quick Disconnect Socket Adapter – 1/4" Male Pipe Thread Adapter – 3/8" Male Pipe Thread Adapter				
99023802	140°F	7	2.6	EA
– 4000 PSI Gun – 18" Metric Wand – 5 Quick Disconnect Spray Tips - 0°, 15°, 25°, 40°, & 65° Low Pressure Soap/Chemical Tip – Quick Disconnect and Metric Adapter				
UNPACKAGED – REPLACEMENT GUN				
99023741	140°F	7	2.5	EA
– 4000 PSI Gun Only				

4500 PSI PISTOL GUN

This gun is designed for medium-duty pressure washers. It has a 3/8" female pipe thread inlet and a 1/4" female pipe thread outlet. The safety trigger lock helps prevent accidental spraying.

- Inlet: 3/8" Female Pipe Thread
- Outlet: 1/4" Female Pipe Thread

PART#	MAX. TEMP	GALLONS PER MINUTE	WEIGHT (LBS)	U/M
PACKAGED				
99023692	300°F	8	1.5	EA
– 4500 PSI Gun – Female metric adapter – 3/8" quick disconnect socket adapter – 1/4" male pipe thread adapter – 3/8" male pipe thread adapter				
UNPACKAGED				
99023462-C	300°F	8	1.25	EA
– 4500 PSI Gun Only				

BENT METRIC WAND

The bent metric wand contains a male metric inlet designed for metric guns, and has a 1/4" male pipe thread outlet to attach a quick disconnect socket.

- Length: 18"
- Male metric x 1/4 Male Pipe Thread

PART#	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
PACKAGED				
99023689	210°F	3600	0.65	EA
– Metric Wand				
– Female Metric Adapter				
UNPACKAGED				
99023754	210°F	3600	0.65	EA
– Metric Wand Only				

METRIC QUICK DISCONNECT WAND

The metric quick disconnect wand contains a male metric x 1/4" Easy-Lock QD socket for a quick and easy "tool free" connection to other wands and accessories. The Easy-Lock QD with lock down collar allows for "one-handed" quick disconnect connections.

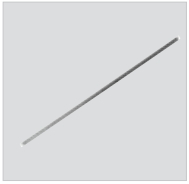
- Length: 19"

PART#	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
PACKAGED				
99034000	210°F	3600	0.9	EA
UNPACKAGED				
99034000-C	210°F	3600	0.9	EA

PLATED STEEL WAND

This wand consists of zinc plated steel with 1/4" male pipe thread threaded ends. It can be threaded directly into standard guns, and a quick disconnect can be added to create a "tool free" connection for nozzles and accessories.

- Length: 24"



PART#	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
UNPACKAGED				
99023543	210°F	3600	0.7	EA

TELESCOPING WAND

The telescoping wand extends from 6' to 18' for fast, easy access to those hard to reach places without using ladders. The main body is constructed of fiberglass with two aluminum telescoping extensions. Wand is coupled with a 3/8" male QD plug inlet and a female metric outlet, and includes a 15" extension wand coupled with male metric and 1/4" QD socket for quickly changing attachments.

- Length: 18"

PART#	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
PACKAGED				
99023768	140°F	4000	15	EA
UNPACKAGED				
99023768-C	140°F	4000	15	EA

INSULATED WAND

Insulated wand consists of zinc plated steel with an insulated grip. Wand can be threaded directly into standard guns, and a quick disconnect can be added to create a tool free connection for nozzles and accessories.

- Length: 36"
- Male Pipe Thread: 1/4"

PART#	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
PACKAGED				
99023687	210°F	4000	1.55	EA
– 36" Insulated Wand				
– 1/4" Female Pipe Thread x Male Metric Adapter				
– Adjustable Wand Handle				
UNPACKAGED				
99023464-C	210°F	4000	1.55	EA
– 36" Insulated Wand Only				

INSULATED WAND WITH HANDLE

Adjustable wand handle is insulated for increased comfort and control when using pressure washers for extended periods of time. It fits 1/4" wands and is fully adjustable so it can be easily positioned for maximum results.

- Length: 59"
- Male Pipe Thread: 1/4"

PART#	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
PACKAGED				
99023688	210°F	4000	2	EA
– 59" Insulated Wand				
– 1/4" Female Pipe Thread x Male Metric Adapter				
– Adjustable Wand Handle				
UNPACKAGED				
99023347	210°F	4000	0.9	EA
– 59" Insulated Wand Only				

ADJUSTABLE WAND HANDLE

Adjustable wand handle is insulated for increased comfort and control when using pressure washers for extended periods of time. It fits 1/4" wands and is fully adjustable so it can be easily positioned for maximum results.

PART#	WEIGHT (LBS)	U/M
UNPACKAGED		
99023341-C	0.2	EA

MULTI-TIP ADJUSTABLE WAND

3000 PSI multi-tip adjustable wand has a metric inlet and a 4-position rotating head which can be easily dialed to 0, 15, 40, and 65 degree spray patterns. This eliminates the need for individual spray tips.

PART#	MAX. TEMP	MAX. PSI	WEIGHT (LBS)	U/M
PACKAGED				
99023698	180°F	3000	0.9	EA
UNPACKAGED				
99023698-C	180°F	3000	0.9	EA

GUTTER CLEANER KIT – HOOKED

Gutter cleaner kits are a fast and easy way to blast debris from gutters, downspouts, and hard to reach places. Attach to telescoping wand for extra height.

PART#	MAX. PSI	WEIGHT (LBS)	U/M
PACKAGED			
99023766	3000	.65	EA
– Cleaner Hook with 1/4" Quick Disconnect Plug			
– 65° Spray Tip			
UNPACKAGED			
99023767-C	3000	.65	EA
– Cleaner Hook with 1/4" Quick Disconnect Plug Only			

GUTTER CLEANER KIT – CURVED

Gutter cleaner kits are a fast and easy way to blast debris from gutters, downspouts, and hard to reach places. Attach to telescoping wand for extra height.

PART#	MAX. PSI	WEIGHT (LBS)	U/M
PACKAGED			
99023764	3000	2.85	EA
– 29" Curved Wand with Female Quick Disconnect Outlet & Male Metric Inlet			
– 28" Metric Wand Extension			
– 65° Spray Tip			
– Detachable Wand Handle			

FLOW RATE CHART

PSI	1000	1500	2000	2500	3000	3500	4000	4500	5000
ORIFICE SIZE	GALLONS PER MINUTE								
2	1.1	1.2	1.4	1.6	1.7	1.9	2	2.1	2.2
2.5	1.3	1.5	1.8	2	2.2	2.3	2.5	2.7	2.8
3	1.5	1.8	2.1	2.4	2.6	2.8	3	3.2	3.4
3.5	1.8	2.1	2.5	2.8	3	3.3	3.5	3.7	3.9
4	2	2.4	2.8	3.2	3.5	3.7	4	4.2	4.5
4.5	2.3	2.8	3.2	3.6	3.9	4.2	4.5	4.8	5
5	2.5	3.1	3.5	4	4.3	4.7	5	5.3	5.6
5.5	2.8	3.4	3.9	4.3	4.8	5.1	5.5	5.8	6.1
6	3	3.7	4.2	4.7	5.2	5.6	6	6.4	6.7
6.5	3.3	4	4.6	5.1	5.6	6.1	6.5	6.9	7.3
7	3.5	4.3	4.9	5.5	6.1	6.5	7	7.4	7.8
7.5	3.8	4.6	5.3	5.9	6.5	7	7.5	8	8.4
8	4	4.9	5.7	6.3	6.9	7.5	8	8.5	8.9
8.5	4.3	5.2	6	6.7	7.4	8	8.5	9	9.5
9	4.5	5.5	6.4	7.1	7.8	8.4	9	9.5	10.1
10	5	6.1	7.1	7.9	8.7	9.4	10	10.5	11.2

QUICK DISCONNECT SPRAY TIPS

Individual quick disconnect, high pressure spray tips are constructed of a high quality stainless steel body with composite insert. They are available in four different spray patterns and are colored coded for easy identification. Tips are available in three common orifice sizes 3.0 GPM, 3.5 GPM, and 4.0 GPM @ 4000 PSI. The gallons per minute (GPM) output will increase or decrease based on the applied pressure rating. Refer to the flow rate chart.

PACKAGED PART#	UNPACKAGED PART#	SPRAY PATTERN	COLOR	ORIFICE SIZE	MAX. PSI	WEIGHT (LBS)	U/M
INDIVIDUAL							
99023788	99023788-C	0°	Red	3.5	5000	0.07	EA
99023789	99023789-C	15°	Yellow	3.5	5000	0.07	EA
99023790	99023790-C	25°	Green	3.5	5000	0.07	EA
99023791	99023791-C	40°	White	3.5	5000	0.07	EA
99023780	99023780-C	0°	Red	4	5000	0.07	EA
99023781	99023781-C	15°	Yellow	4	5000	0.07	EA
99023782	99023782-C	25°	Green	4	5000	0.07	EA
99023783	99023783-C	40°	White	4	5000	0.07	EA
5 PACK							
99023777	—	0°, 15°, 25°, 40°, 65°	Red, Yellow, Green, White, Black	3	5000	0.52	EA
99023778	—	0°, 15°, 25°, 40°, 65°	Red, Yellow, Green, White, Black	3.5	5000	0.52	EA
99023779	—	0°, 15°, 25°, 40°, 65°	Red, Yellow, Green, White, Black	4	5000	0.52	EA

QUICK DISCONNECT SOAP TIP

Low pressure soap tip is constructed for low pressure soap application. It has a large orifice with 65° angle designed to create a low pressure spray pattern, and is colored black for easy identification. Quick disconnect sockets are required on the wand end to complete the connection.

PACKAGED PART#	UNPACKAGED PART#	SPRAY PATTERN	COLOR	ORIFICE SIZE	WEIGHT (LBS)	U/M
99023499	99023499-C	65°	Black	3.5	0.52	EA

VARIABLE NOZZLE

The variable nozzle has a convenient push/pull mechanism which changes the spray pattern from low pressure soap dispensing to a high pressure fan pattern. The spray pattern can be adjusted by turning the nozzle body. Nozzle has a 1/4" female pipe thread that can be attached to a standard wand or female quick disconnect plug.

PACKAGED PART#	UNPACKAGED PART#	SPRAY PATTERN	COLOR	FEMALE PIPE THREAD (IN)	MAX. PSI	MAX. TEMP	ORIFICE SIZE	WEIGHT (LBS)	U/M
99023474	99023474-C	0°-40°	Black	1/4	3000	176°F	3.5	0.4	EA
—	99023465-C	0°-80°	Black	1/4	3000	176°F	4	0.4	EA
99023466	99023466-C	0°-80°	Black	1/4	3000	176°F	4.5	0.4	EA

VARIABLE NOZZLE WITH WAND

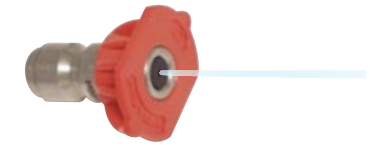
Variable nozzle and wand has a convenient push/pull mechanism which changes the spray pattern from low pressure soap dispensing to high pressure fan pattern. The spray pattern can be adjusted from 0 to 40° fan by turning the nozzle body. Includes permanently attached 21" wand with a male metric end that can be easily attached to bayonet wands.

UNPACKAGED PART#	SPRAY PATTERN	COLOR	THREAD	MAX. PSI	MAX. TEMP	ORIFICE SIZE	WEIGHT (LBS)	U/M
99023670-C	0°-40°	Black	Male	3000	300°F	3.5	0.8	EA

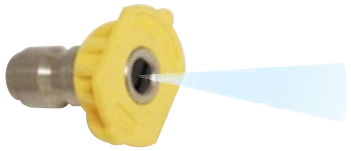
SPRAY TIPS

WHAT TO KNOW BEFORE YOU BUY:

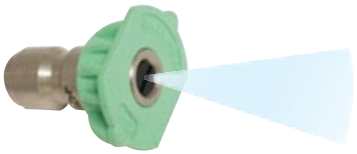
Spray tips connect directly to wands with 1/4" quick-disconnect sockets. Select the specific spray pattern for your application.



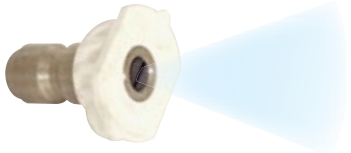
High/Hard to Reach 0˚



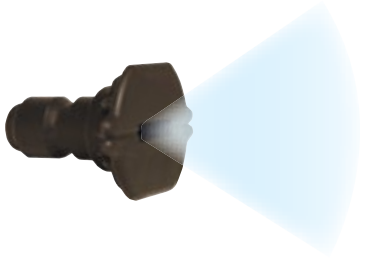
Concrete 15˚



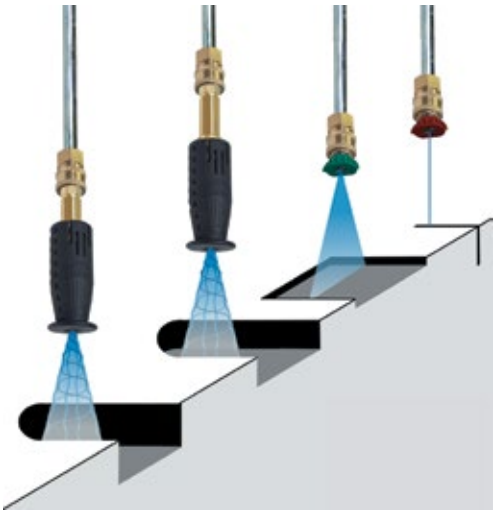
Barewood 25˚



Equipment 40˚



Soap Dispensing 65˚



3000 PSI – TURBO NOZZLE

Apache's turbo nozzles increase cleaning efficiency by 200% compared to standard spray tips, and can clean a larger area more quickly. This turbo nozzle has a 1/4" female pipe thread inlet that can be screwed directly onto a wand or it can be converted to a 1/4" quick disconnect plug. A turbo nozzle filter (99030576-C) is recommended for protection from debris damage.

- Max. Temp: 212˚F
- Orifice Size: 3.5

PART#	FEMALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
PACKAGED			
99023611 – 3000 PSI Turbo Nozzle – 1/4 Quick Disconnect Plug x 1/4 Male Pipe Thread	1/4	0.4	EA
UNPACKAGED			
99023611-C – 3000 PSI Turbo Nozzle Only	1/4	0.35	EA

4000 PSI – TURBO NOZZLE

Apache's turbo nozzles increase cleaning efficiency by 200% compared to standard spray tips, and can clean a larger area more quickly. This turbo nozzle connects directly to pressure washer gun wands with a 1/4" quick disconnect socket. Includes a turbo nozzle filter for protection from debris damage.

- Max. Temp: 200˚F
- Orifice Size: 3.5

PART#	PLUG (IN)	WEIGHT (LBS)	U/M
99023657	1/4	0.85	EA

3000 PSI – TURBO NOZZLE

Apache's turbo nozzles increase cleaning efficiency by 200% compared to standard spray tips, and can clean a larger area more quickly. This turbo nozzle has a 1/4" female pipe thread inlet that can be screwed directly onto a wand or it can be converted to a 1/4" quick disconnect plug. A turbo nozzle filter (99030576-C) is recommended for protection from debris damage.

- Max. Temp: 212˚F
- Orifice Size: 4.5

PART#	FEMALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
99023575	1/4	0.9	EA

TURBO WAND

Turbo wand combines the power of a 0° stream, and a 25° wide-angle spray pattern to improve cleaning efficiency up to 200%. It has a 14" built-on wand extension with a 1/4" male pipe thread that will screw into a pistol grip gun, or can be adapted to attach to a bayonet gun.

PART#	MALE PIPE THREAD (IN)	MAX. PSI	MAX. TEMP	WEIGHT (LBS)	U/M
PACKAGED					
99023516	1/4	3000	140°F	0.85	EA
– Wand & Nozzle					
– Metric Adapter					
– Large Bayonet Adapter					
– Small Bayonet Adapter					
– Karcher™ Adapter					
– FAIP™ Adapter					
UNPACKAGED					
99023516-C	1/4	3000	140°F	0.76	EA
– Wand & Nozzle Only					

TURBO WAND – 2400 PSI HIGH-LOW

High-low turbo wand combines the power of a 0° stream, and a 25° wide-angle spray pattern to improve cleaning efficiency up to 200%. The high-low pressure feature eliminates changing to a low pressure nozzle for soap and chemical application. It includes a 5 piece adapter set to fit most manufacturers.

PART#	MALE PIPE THREAD (IN)	MAX. PSI	MAX. TEMP	WEIGHT (LBS)	U/M
PACKAGED					
99023517	1/4	2400	140°F	2.11	EA
– Wand & Nozzle					
– Metric Adapter					
– Large Bayonet Adapter					
– Small Bayonet Adapter					
– Karcher™ Adapter					
– FAIP™ Adapter					
UNPACKAGED					
99023517-C	1/4	2400	140°F	1.35	EA
– Wand & Nozzle Only					

TURBO NOZZLE FILTER

Filter should be attached to the inlet of all turbo nozzles to filter debris particles and prevent damage to the nozzle. It has a 1/4" quick disconnect plug on one end, and a 1/4" male pipe thread on the other end that will screw into most turbo nozzles. The use of this filter requires a quick disconnect socket on the wand outlet. The filter is easily cleaned by unscrewing the quick disconnect plug and then unscrewing the filter.

UNPACKAGED PART#	MALE PIPE THREAD (IN)	QUICK DISCONNECT PLUG (IN)	MAX. TEMP	GALLONS PER MINUTE	WEIGHT (LBS)	U/M
99030576-C	1/4	1/4	325°F	8	1	EA

FEMALE METRIC X MALE PIPE THREAD

Adapter will connect hoses and accessories with 3/8" female pipe threads to a female metric connection. The O-ring seal and the easy-grip nut create a good seal, and can be easily changed without tools. Use Teflon™ tape or paste for a leak-free connection.

PART#	MALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
PACKAGED			
44048700	1/4	0.2	EA
44048705	3/8	0.2	EA
UNPACKAGED			
44048700-C	1/4	0.2	EA
44048705-C	3/8	0.2	EA

FEMALE METRIC X FEMALE PIPE THREAD

Adapter will connect hoses and accessories with male pipe threads to a female metric connection. The O-ring seal and the easy-grip nut create a good seal, and can be easily changed without tools.

PART#	FEMALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
PACKAGED			
44048715	1/4	0.15	EA
44048720	3/8	0.25	EA
UNPACKAGED			
44048715-C	1/4	0.15	EA
44048720-C	3/8	0.25	EA

FEMALE METRIC X QUICK DISCONNECT PLUG

Adapter will convert pressure washer guns with male metric inlets to the socket end of hoses with 3/8" quick disconnects, making the changing of hoses fast and easy. The O-ring seal and the easy-grip nut create a good seal, and can be easily changed without tools.

PART#	QUICK DISCONNECT PLUG (IN)	WEIGHT (LBS)	U/M
PACKAGED			
44048754	3/8	0.2	EA
UNPACKAGED			
44048754-C	3/8	0.2	EA

FEMALE METRIC X QUICK DISCONNECT SOCKET

Adapter will convert pressure washer pumps with male metric outlets to the plug end of hoses with 3/8" quick disconnects, making the changing of hoses fast and easy. The O-ring seal and the easy-grip nut create a good seal, and creates a tool-free change out.

PART#	QUICK DISCONNECT SOCKET (IN)	WEIGHT (LBS)	U/M
PACKAGED			
99030672	3/8	0.35	EA
UNPACKAGED			
99030672-C	3/8	0.35	EA

FEMALE METRIC X QUICK DISCONNECT SOCKET/PLUG SET

3/8" plug/socket combinations are used to convert metric gun and wand systems to quick disconnects for faster change-outs.

PACKAGED PART#	QUICK DISCONNECT SET (IN)	WEIGHT (LBS)	U/M
44048748	3/8	0.55	EA

FEMALE METRIC COUPLER

Female adapter is commonly used to connect multiple metric hoses, or any components with male metric connections. The O-ring seal and the easy-grip nut create a good seal, and can be easily changed without tools.

PACKAGED PART#	UNPACKAGED PART#	WEIGHT (LBS)	U/M
44048710	44048710-C	0.3	EA

MALE METRIC ADAPTER

Male adapter is commonly used to connect components with female metric connections.

PACKAGED PART#	UNPACKAGED PART#	WEIGHT (LBS)	U/M
44048712	44048712-C	0.15	EA

MALE METRIC X MALE PIPE THREAD

Adapter will convert hoses and accessories with female pipe threads to a male metric connection. The hex nut makes installation easy. Use Teflon™ tape or paste for a leak-free connection.

PART#	MALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
PACKAGED			
44048725	1/4	0.1	EA
44048730	3/8	0.1	EA
UNPACKAGED			
44048725-C	1/4	0.1	EA
44048730-C	3/8	0.1	EA

MALE METRIC X FEMALE PIPE THREAD

Adapter will convert hoses and accessories with male pipe threads to a male metric connection. The hex nut makes installation easy. Use Teflon™ tape or paste for a leak-free connection.

PART#	FEMALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
PACKAGED			
44048740	1/4	0.1	EA
44048745	3/8	0.1	EA
UNPACKAGED			
44048740-C	1/4	0.1	EA
44048745-C	3/8	0.1	EA

FEMALE/MALE METRIC X FEMALE PIPE THREAD SET

Female metric x 3/8" female pipe thread and male metric x 3/8" female pipe thread combinations can be used to convert hoses, guns, and wands from male pipe thread to metric systems.

PART#	FEMALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
PACKAGED			
98441028	3/8	0.35	EA

See p. 156 for thread seal tape.

MALE METRIC X QUICK DISCONNECT PLUG

Male metric x quick disconnect plug adapter will convert female metric hoses and accessories to a quick disconnect plug.

PART#	QUICK DISCONNECT PLUG (IN)	WEIGHT (LBS)	U/M
PACKAGED			
99030671	3/8	0.1	EA
UNPACKAGED			
99030671-C	3/8	0.1	EA

METRIC MALE X QUICK DISCONNECT SOCKET

Male metric x quick disconnect socket adapter will convert female metric hoses and accessories to a quick disconnect socket.

PART#	QUICK DISCONNECT SOCKET (IN)	WEIGHT (LBS)	U/M
PACKAGED			
44048749	3/8	0.35	EA
UNPACKAGED			
44048749-C	3/8	0.35	EA

QUICK DISCONNECT PLUG X MALE PIPE THREAD

Quick disconnect plug x male pipe thread adapter will convert pressure washer accessories with female pipe threads to a quick disconnect plug. Use Teflon™ tape or paste for a leak-free connection.

PACKAGED PART#	UNPACKAGED PART#	MALE PIPE THREAD (IN)	QUICK DISCONNECT PLUG (IN)	WEIGHT (LBS)	U/M
44048682	44048682-C	1/4	1/4	0.1	EA
44048686	44048686-C	3/8	3/8	0.1	EA

QUICK DISCONNECT PLUG X FEMALE PIPE THREAD

Quick disconnect plug x female pipe thread adapter will convert pressure hoses and accessories with male pipe threads to a quick disconnect plug. Use Teflon™ tape or paste for a leak-free connection.

PACKAGED PART#	UNPACKAGED PART#	FEMALE PIPE THREAD (IN)	QUICK DISCONNECT PLUG (IN)	WEIGHT (LBS)	U/M
44048680	44048680-C	1/4	1/4	0.1	EA
44048684	44048684-C	3/8	3/8	0.1	EA

See p. 156 for thread seal tape.

QUICK DISCONNECT SOCKET X MALE PIPE THREAD

Quick disconnect socket x male pipe thread adapter will convert pressure washer accessories with female pipe threads to a quick disconnect socket. Use Teflon™ tape or paste for a leak-free connection.

PACKAGED PART#	UNPACKAGED PART#	MALE PIPE THREAD (IN)	QUICK DISCONNECT SOCKET (IN)	WEIGHT (LBS)	U/M
44048688	44048688-C	1/4	1/4	0.2	EA
44048692	44048692-C	3/8	3/8	0.25	EA

QUICK DISCONNECT SOCKET X FEMALE PIPE THREAD

Quick disconnect socket x female pipe thread adapter will convert pressure hoses and accessories with male pipe threads to a quick disconnect socket. Use Teflon™ tape or paste for a leak-free connection.

PACKAGED PART#	UNPACKAGED PART#	FEMALE PIPE THREAD (IN)	QUICK DISCONNECT SOCKET (IN)	WEIGHT (LBS)	U/M
44048690	44048690-C	1/4	1/4	0.1	EA
44048694	44048694-C	3/8	3/8	0.1	EA

QUICK DISCONNECT SET

1/4" quick disconnect plug x 1/4" male pipe thread, with a 1/4" quick disconnect socket x 1/4" female pipe thread adapter set will convert 1/4" permanent pipe thread connections to 1/4" quick disconnect systems. Use Teflon™ tape or paste for a leak-free connection.

PACKAGED PART#	FEMALE PIPE THREAD (IN)	MALE PIPE THREAD (IN)	QUICK DISCONNECT PLUG (IN)	QUICK DISCONNECT PLUG (IN)	WEIGHT (LBS)	U/M
98441022	1/4	1/4	1/4	1/4	0.3	EA

QUICK DISCONNECT SET

3/8" quick disconnect plug x 3/8" male pipe thread, with a 3/8" quick disconnect socket x 3/8" female pipe thread adapter set will convert 3/8" permanent pipe thread connections to 3/8" quick disconnect systems. Use Teflon™ tape or paste for a leak-free connection.

PACKAGED PART#	FEMALE PIPE THREAD (IN)	MALE PIPE THREAD (IN)	QUICK DISCONNECT PLUG (IN)	QUICK DISCONNECT PLUG (IN)	WEIGHT (LBS)	U/M
98441024	3/8	3/8	3/8	3/8	0.35	EA

GARDEN HOSE ADAPTER SET

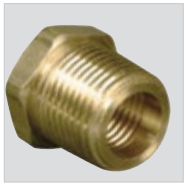
Quick disconnect set is used to convert pressure washer pump inlets and garden hoses to a quick disconnect system. Includes a brass socket with recessed washer for a no-leak fit, and a brass plug.

PART#	GARDEN HOSE THREAD (IN)	MAX. PSI	WEIGHT (LBS)	U/M
44048664	3/4	100	0.125	EA

REDUCER BUSHING

Converts accessories with 3/8" female pipe threads to 1/4" female pipe thread. Use Teflon™ tape or compound on both threads to ensure a leak-proof connection.

PART#	WEIGHT (LBS)	U/M
PACKAGED		
39038470	0.05	EA
UNPACKAGED		
39038470-C	0.05	EA



FEMALE PIPE THREAD BRASS COUPLER

Coupler has female pipe threads on both ends, and is an inexpensive way to connect multiple hoses or accessories with male threads. Use Teflon™ tape or paste for a leak-free connection.

- Thread: 1/4" Female Pipe Thread x 1/4" Female Pipe Thread

PART#	FEMALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
PACKAGED			
44048764	1/4 x 1/4	0.05	EA
UNPACKAGED			
44048764-C	1/4 x 1/4	0.05	EA

FEMALE PIPE THREAD X MALE PIPE THREAD BRASS COUPLER

Coupler has a female pipe thread on one end and a male pipe thread on the other. Often used to convert standard pressure washer gun inlets to 3/8" hose or quick disconnects. Use Teflon™ tape or paste for a leak-free connection.

PART#	FEMALE PIPE THREAD (IN)	MALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
UNPACKAGED				
44060130	3/8	1/4	0.6	EA

3000 PSI HIGH PRESSURE LIVE SWIVEL

Swivels convert solid pipe thread connections to a live swivel connection. Live swivels continue to swivel while under pressure, which helps prevent hoses from becoming twisted, tangled, and damaged. Use Teflon™ tape or paste for a leak-free connection.

PART#	FEMALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
PACKAGED			
44048760	1/4	0.05	EA
UNPACKAGED			
44048760-C	1/4	0.05	EA
44048762-C	3/8	0.25	EA
44048758-C	3/8 X 3/8	0.25	EA

BAYONET ADAPTER SET

Female pipe thread bayonet adapter set will thread onto 1/4" male pipe thread wands for a quick easy connection to brand pressure washer guns. Kit includes adapters to fit Karcher™, Lavor, Campbell Hausfeld™, Husky™, FAIP™, and other metric adapters.

PART#	MALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
99023752-C	1/4	0.75	EA

STEEL HOSE REEL

Steel pressure washer hose reel provides a convenient way to store hose on your pressure washer. It is constructed of solid steel with a durable powder coat paint, and has a full-flow brass swivel outlet. *Pressure Washer hose sold separately.*

- 5' pump to reel connecting hose
- Mounting brackets to fit most pressure washer carts.

PART#	LENGTH	MAX. PSI	WEIGHT (LBS)	U/M
99023586	50' Hose	3700	12.8	EA
99023587	100' Hose	3700	14	EA

ROTARY SURFACE CLEANER

Surface cleaner has a self-contained rotating spray arm that can clean up to 200 sq. ft. per minute. Ideal for cleaning driveways, sidewalks, and garages. It has a 24" wand with a male metric fitting to quickly attach to metric bayonet guns or metric wand extensions.

PART#	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
UNPACKAGED				
99023648-C	4	3000	8	EA

ROTARY SURFACE CLEANER

6.5" rotating brush is excellent for general purpose cleaning of siding, windows, cars, boats, and RVs. This chemical resistant brush has soft nylon bristles that have been flagged for extra softness. It comes with a 14" wand attached to the brush head, comes with a variety of fittings to attach to most units.

PART#	GALLONS PER MINUTE	MAX. PSI	WEIGHT (LBS)	U/M
PACKAGED				
99023731	3	2600	1.02	EA
UNPACKAGED				
99023731-C	3	2600	1.02	EA

WATER BROOM

Water broom has a horizontal spray bar with stationary spray tips and rollers for easy cleaning of flat surfaces like driveways, sidewalks, and decks.

PART#	# OF SPRAY TIPS	MAX. PSI	WEIGHT (LBS)	U/M
3-TIP PACKAGED BROOM				
PACKAGED				
99023750	3	4000	9	EA
– 24" wand with 1/4" quick disconnect socket				
– Male metric fitting				
UNPACKAGED				
99034010	3	4000	9	EA
– 24" wand only				

4-TIP PACKAGED BROOM INCLUDE				
PACKAGED				
99023860	4	4000	3.1	EA
– Spray deflector				
– Male quick disconnect plug				

ADJUSTABLE SOAP/CHEMICAL INJECTOR

Soap injector installs between the pressure washer pump and the pressure washer hose, injecting soap/chemical downstream from the pump to prevent seal damage. By simply turning the adjustable knob, the siphon rate adjusts from "off" to 10:1 ratio. Under low pressure the soap or chemical is drawn into the water flow, but is automatically shut off under high pressure.

PART#	MAX. PSI	WEIGHT (LBS)	U/M
PACKAGED			
44048770	3600	0.3	EA
UNPACKAGED			
44048770-C	3600	0.3	EA

HIGH PRESSURE SOAP APPLICATOR

The high pressure soap applicator provides high pressure soap at the turn of a dial. Soap is stored in the handle of the applicator. Just turn the dial for the needed amount of soap for the job. It has a female metric inlet and a 1/4" female pipe thread outlet so it adapts easily to your current system. Use as an attachment between gun and wand to draw soap in place of chemical tubing.

- Female Metric
- 1/4" Female Pipe Thread

PART#	MAX. PSI	WEIGHT (LBS)	U/M
PACKAGED			
99050050	4000	2.3	EA
UNPACKAGED			
99050050-C	4000	2.3	EA

SOAP/CHEMICAL TUBING KIT

Tubing kit attachs to the inlet of factory or aftermarket soap injectors. It comes with a 1/4" ID x 4' long vinyl tubing with polystrainer, to reduce clogging.

PART#	WEIGHT (LBS)	U/M
PACKAGED		
98023468	0.25	EA
UNPACKAGED		
98023468-C	0.25	EA

INLET FILTER & O-RING SET

The filter and O-ring set replaces worn or damaged parts that commonly fails on pressure washers.

PART#	WEIGHT (LBS)	U/M
PACKAGED		
99023468	0.05	EA

– A 50/60 mesh inlet water filter
– Yellow 14 mm O-ring for female metric fittings
– Blue O-ring for 3/8" quick disconnects
– Green O-ring for 1/4" quick disconnects

INLET WATER FILTER

Filter has male and female garden hose threads, and connects between the supply hose and the pressure washer pump to prevent damage from calcium or debris. The see-through plastic bowl can be easily separated to allow cleaning of the screen.

- 3/4" Male x Female Garden Hose Threads

PART#	MAX. PSI	WEIGHT (LBS)	U/M
PACKAGED			
99023699	100	1.1	EA

– Filter
– 3/4"x7" Female x Male Extension Hose

UNPACKAGED			
99023667-C	100	0.9	EA

– Filter Only

2700 PSI HORIZONTAL AXIAL PUMP

Pump is designed for industrial high pressure washing applications. It operates at 3400 RPM and mounts on 3/4" hollow diameter shafts found on most horizontal shaft gasoline engines. Pump features a female garden hose inlet and a male metric outlet. Key (stock = 3/16") is not included with pump comes with synthetic oil inside pump.

PART#	GALLONS PER MINUTE	WEIGHT (LBS)	U/M
99023597	2.5	8.55	EA

PUMP DEFENDER

Pump Defender is an engineered spray that protects, winterizes, and extends pressure washer pump life by removing mineral buildup, lubricating the piston and seals, and preventing freeze damage. The 4 oz. pressurized can will screw directly onto the water inlet fitting. Warning: Contents under pressure. Do not store in an area over 120°F. Keep out of the reach of children. Do not inhale contents as the risks could be fatal. Dispose of can according to local, state, and federal law. Do not burn or puncture during disposal. This product contains propylene glycol, mineral oil, propane, and butane.

PART#	WEIGHT (LBS)	U/M
99002125	0.45	EA

PUMP OIL

Pump oil is a 16 oz. bottle of 30W non-detergent ISO 100 lubricant engineered to keep your pressure washer pump operating at peak performance during high pressure, high RPM operation. It is specially formulated to resist foaming and aeration, protect against rust and oxidation, and prevent formation of sludge and varnish inside the pump. Warning: Avoid prolonged contact with used fluid. Thoroughly wash exposed areas with soap and water. This product is not for use with internal combustion engines. Keep out of the reach of children. Don't pollute. Conserve resources. Return used fluid to collection centers.

PART#	WEIGHT (LBS)	U/M
99002126	0.09	EA

READY-TO-USE CHEMICALS

MULTIPURPOSE DEGREASER

Penetrates grease, grime, and gunk commonly found on concrete buildings, driveways, walkways, and shop floors. No mixing or measuring required, simply insert your chemical injector tube in the bottle of cleaner, and you are ready to wash.

PART#	WEIGHT (LBS)	U/M
99002106	9	EA

DECK & SIDING

Cleans caked on dirt, dust, grime, mold, and mildew found on decks, siding, and fences. No mixing or measuring required, simply insert your chemical injector tube in the bottle of cleaner, and you are ready to wash.

PART#	WEIGHT (LBS)	U/M
99002108	9	EA

VEHICLE / BOAT WASH & WAX

Great for cleaning most motor vehicles found both over the road and off. Pre-mixed wax adds ultimate shine and protection to your vehicle. No mixing or measuring required, simply insert your chemical injector tube in the bottle of cleaner, and you are ready to wash.

PART#	WEIGHT (LBS)	U/M
99002110	9	EA

SUPER CONCENTRATE 1:5 CHEMICALS

MULTIPURPOSE DEGREASER

Penetrates grease, grime, and gunk commonly found on concrete buildings, driveways, walkways, and shop floors. One part cleaner and four parts water combine to make this cleaner ready to run through your pressure washer for the ultimate cleaning combination.

PART#	WEIGHT (LBS)	U/M
99002100	9	EA

DECK & SIDING

Cleans caked on dirt, dust, grime, mold, and mildew found on decks, siding, and fences. One part cleaner and four parts water combine to make this cleaner ready to run through your pressure washer for the ultimate cleaning combination.

PART#	WEIGHT (LBS)	U/M
99002102	9	EA

VEHICLE / BOAT WASH & WAX

Great for cleaning most motor vehicles found both over the road and off. Carnauba wax adds ultimate shine and protection to your vehicle. One part cleaner and four parts water combine to make this cleaner ready to run through your pressure washer for the ultimate cleaning combination.

PART#	WEIGHT (LBS)	U/M
99002104	9	EA

WOOD-AS-NEW

Cleans and brightens old wood, returning it to a new wood look. Great for unpainted nonwood posts, fences, decks, barns, siding, furniture, and more. One part cleaner and four parts water combine to make this cleaner ready to run through your pressure washer for the ultimate cleaning combination.

PART#	WEIGHT (LBS)	U/M
99002101	9	EA

MULTI-TASK CLEANER

A great all around cleaner for most exterior cleaning applications – works great on concrete, siding, decks, fences, tools, kennels, and more. One part cleaner and four parts water combine to make this cleaner ready to run through your pressure washer for the ultimate cleaning combination.

PART#	WEIGHT (LBS)	U/M
99002114	9.000	EA

SCRUBLESS CAR WASH

A true touchless car wash – simply spray the solution on, and rinse off. No scrubbing required during wash. One part cleaner and four parts water combine to make this cleaner ready to run through your pressure washer for the ultimate cleaning combination.

PART#	WEIGHT (LBS)	U/M
99002119	9.000	EA

AG & INDUSTRIAL EQUIPMENT WASH

The ultimate wash for use with household, agricultural, and industrial outdoor power equipment, including: lawnmowers, trimmers, tractors, combines, planters, skid steers, back hoes, log splitters, and more! One part cleaner and four parts water combine to make this cleaner ready to run through your pressure washer for the ultimate cleaning combination.

PART#	WEIGHT (LBS)	U/M
99002122	9.000	EA

WHERE DO YOU USE YOUR PRESSURE WASHER?

Whether your project is big or small, Apache's Pressure Washer Accessories are designed to fit most makes and models.

- Implements
- Vehicles & Engines
- Tools
- Exterior Maintenance
- Livestock Facilities
- Outbuildings
- Kennels
- Graffiti Removal

EQUIPMENT / IMPLEMENTS

- Tractors
- Plows
- Combines
- Mowers
- ATVs
- Tillers
- Backhoes
- Loaders
- Trucks
- Trailers

OUTBUILDINGS

- Barns
- Feed lots
- Livestock pens
- Machine sheds
- Stables
- Kennels
- Dairy barns
- Farrowing pens
- Shop floors

EXTERIOR MAINTENCE

- Siding
- Decks
- Retaining walls
- Driveways
- Fences
- Garage doors
- Steps
- Awnings
- Patio furniture
- Windows
- Gutters

STEAM HOSE

REFINERY STEAM HOSE

REFINERY STEAM HOSE – BULK/UNCOUPLED

This steam hose is designed for steam service to 406°F and super-heated service to 450°F. The cover has medium oil resistance and can be used in applications encountering petroleum products. This hose has an EPDM cover and is reinforced with two braids of carbon steel wire, providing flexibility and abrasion resistance.

- Tube/Cover Material: EPDM
- Reinforcement: Multiple Wire Braids
- Temperature: -40°F to 450°F
- Cover Color: Red or Black
- Max. PSI: 250
- Standard Length: 50' Coil

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Methylene

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
11013298	1/2	12.7	1.06	26.92	0.28	7.11	3	0.38	FT
11013449	3/4	19.1	1.28	32.51	0.265	6.73	4.5	0.52	FT
11013551	1	25.4	1.53	38.86	0.266	6.76	7	0.77	FT
11013588	1-1/4	31.75	1.88	47.75	0.315	8	8.75	1.1	FT
11013609	1-1/2	38.1	2.11	53.59	0.305	7.75	10.5	1.23	FT
11013692	2	50.8	2.66	67.56	0.33	8.38	14	1.62	FT

STEAM CLEANER HOSE

STEAM CLEANER HOSE

This hose is designed for tough, constant use in steam cleaning operations with oily environments, and for saturated steam applications. It has a maximum pressure rating of 150 PSI at 368°F.

- Tube/Cover Material: Nitrile/Neoprene
- Reinforcement: 1 Wire Braid
- Temperature: -20°F to 368°F
- Max. PSI: 150
- Cover Color: Red
- Standard Length: 50' Coil

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MIN. BEND RADIUS (IN)	WEIGHT (LBS)	U/M
11027001	3/8	9.53	0.78	19.84	0.203	5.14	5.00	0.28	FT
11027008	1/2	12.70	0.91	23.01	0.205	5.21	7.00	0.34	FT
11027005	3/4	19.05	1.19	30.15	0.220	5.59	9.50	0.51	FT
11027007	1	25.40	1.50	38.10	0.250	6.35	12.00	0.75	FT

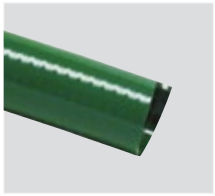
SUCTION & DISCHARGE HOSE

PVC SUCTION

STYLE G (GREEN) – BULK/UNCOUPLED

An economical and versatile general service suction and discharge hose used for pumping water and light chemical solutions in the construction, rental, agricultural and irrigation industries. The PVC helix increases flexibility and abrasion while the smooth interior provides maximum flow.

- Tube/Cover Material: PVC
- Reinforcement: Poly Helix
- Temperature: -10°F to 130°F
- Cover Color: Green
- Negative Pressure (in/HG): 30



PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX PSI @ 68°F	MIN BEND RADIUS @ 68°F	STANDARD LENGTH	WEIGHT (LBS)	U/M
12022501	1	25.4	1.25	31.75	90	3	100'	0.26	FT
12022505	1-1/4	31.75	1.51	38.35	70	4	100'	0.32	FT
12022506	1-1/2	38.1	1.81	45.97	70	5	100'	0.45	FT
12023006	2	50.8	2.34	59.44	60	7	100'	0.63	FT
12023502	2-1/2	63.5	2.88	73.15	60	8	100'	0.90	FT
12024002	3	76.2	3.42	86.87	50	10	100'	1.16	FT
12024509	4	101.6	4.49	114.05	45	14	100'	1.82	FT
12024512	5	127	5.58	141.73	45	23	100'	3.11	FT
12025009	6	152.4	6.8	172.72	45	28	100'	4.58	FT
12025505	8	203.2	8.94	227.08	40	40	100'	7.1	FT

DESCRIPTION ABBREVIATION KEY

PVC = Poly Vinyl Chloride

STYLE G (GREEN) – CUT LENGTH COILS

An economical and versatile general service suction and discharge hose used for pumping water and light chemical solutions in the construction, rental, agricultural and irrigation industries. The PVC helix increases flexibility and abrasion while the smooth interior provides maximum flow.

- Tube/Cover Material: PVC
- Reinforcement: Poly Helix
- Temperature: -10°F to 130°F
- Cover Color: Green
- Negative Pressure (in/HG): 30

Negative pressure also commonly referred as vacuum rating.

Negative pressure is measured in In/HG.

30 in/HG equals full vacuum.

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX PSI @ 68°F	MIN BEND RADIUS @ 68°F	LENGTH	WEIGHT (LBS)	U/M
12026016	1-1/2	38.1	1.81	45.97	70	5	20'	9	EA
12026018	1-1/2	38.1	1.81	45.97	70	5	25'	11.25	EA
12026022	2	50.8	2.34	59.44	60	7	15'	9.45	EA
12026024	2	50.8	2.34	59.44	60	7	20'	12.6	EA
12026026	2	50.8	2.34	59.44	60	7	25'	15.75	EA
12026030	3	76.2	3.42	86.87	50	10	15'	17.4	EA
12026032	3	76.2	3.42	86.87	50	10	20	23.2	EA

STYLE G (GREEN) – PIN LUG ASSEMBLIES

Complete assemblies with male x female aluminum pin lug short shank couplings with brass spinner nut. Attached with smooth ID preformed bands to insure a tight seal.

- Tube/Cover Material: PVC
- Reinforcement: Poly Helix
- Temperature: -10°F to 130°F
- Fittings: Male x Female Aluminum Pin Lug
- Cover Color: Green
- Negative Pressure (in/HG): 30

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 68°F	MIN. BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
98128005	1-1/2	38.1	1.81	45.97	70	5	15'	7.5	EA
98128010	1-1/2	38.1	1.81	45.97	70	5	20'	9.8	EA
98128015	1-1/2	38.1	1.81	45.97	70	5	25'	12	EA
98128035	2	50.8	2.34	59.44	60	7	15'	10.5	EA
98128040	2	50.8	2.34	59.44	60	7	20'	13.7	EA
98128045	2	50.8	2.34	59.44	60	7	25'	16.8	EA
98128046	2-1/2	63.5	2.88	73.15	60	7	20'	20.21	EA
98128053	3	76.2	3.42	86.87	50	10	15'	21	EA
98128055	3	76.2	3.42	86.87	50	10	20'	27	EA
98128057	3	76.2	3.42	86.87	50	10	25'	33	EA
98128058	4	101.6	4.49	114.05	45	14	15'	34	EA
98128059	4	101.6	4.49	114.05	45	14	20'	40.82	EA
98128140	6	152.4	6.8	172.72	45	28	20'	99.8	EA

STYLE G (GREEN) – CAM LOCK ASSEMBLIES

Complete assemblies with male x female cam and groove couplings with locking arms. Attached with smooth ID preformed bands to insure a tight seal.

- Tube/Cover Material: PVC
- Reinforcement: Poly Helix
- Temperature: -10°F to 130°F
- Cover Color: Green
- Fittings: Male x Female Cam Locks
- Negative Pressure (IN/HG): 30

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX PSI @ 68°F	MIN BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
ALUMINUM FITTINGS									
98128000	1	25.4	1.25	31.75	90	3	20'	7.2	EA
98128013	1-1/2	38.1	1.81	45.97	70	5	20'	8.02	EA
98128043	2	50.8	2.34	59.44	60	7	20'	14.36	EA
98128051	2-1/2	63.5	2.88	73.15	60	8	20'	21.8	EA
98128056	3	76.2	3.42	86.87	50	10	20'	27.8	EA
98128130	4	101.6	4.49	114.05	45	14	20'	41.62	EA
98128141	6	152.4	6.8	172.72	45	28	20'	102.3	EA
POLYPROPYLENE FITTINGS									
98121010	1	25.4	1.25	31.75	90	3	20'	5.7	EA
98128012	1-1/2	38.1	1.81	45.97	70	5	20'	11.12	EA
98128042	2	50.8	2.34	59.44	60	7	20'	14.6	EA
98128047	2	50.8	2.34	59.44	60	7	25'	17.75	EA

DESCRIPTION ABBREVIATION KEY

PVC = Poly Vinyl Chloride

DESCRIPTION ABBREVIATION KEY

PVC = Poly Vinyl Chloride

STYLE G (GREEN) – CAM LOCK X KING NIPPLE ASSEMBLIES

Complete assemblies with female "C" cam and groove coupling and plated steel nipple male pipe thread. Both attached with preformed bands for strength and durability.

- Tube/Cover Material: PVC
- Reinforcement: Poly Helix
- Cover Color: Green
- Fittings: Female Cam Lock X Male Pipe Thread
- Negative Pressure (in/HG): 30
- Temperature: -10°F to 130°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX PSI @ 68°F	MIN BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
98128500	1-1/2	38.1	1.81	45.97	70	5	20'	8.22	EA
98128505	2	50.8	2.34	59.44	60	7	20'	14.56	EA
98128509	2-1/2	63.5	2.88	73.15	60	8	20'	22.8	EA
98128510	3	76.2	3.42	86.87	50	10	20'	28.8	EA
98128515	4	101.6	4.49	114.05	46	14	20'	43.62	EA
98128519	6	152.4	6.8	172.72	45	28	20'	104.3	EA

STYLE K (CLEAR) – BULK/UNCOUPLED

This versatile general purpose suction/discharge hose is flexible and abrasion resistant, and is great for pumping water and light chemical solutions. Its smooth interior resists material blockage, while the clear PVC wall provides easy visibility of material flow.

- Tube/Cover Material: PVC
- Reinforcement: Rigid Poly Helix
- Temperature: -10°F to 130°F
- Cover Color: Clear/White
- Negative Pressure (in/HG): 30

Negative pressure also commonly referred as vacuum rating.

Negative pressure is measured in In/HG.

30 in/HG equals full vacuum.

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 68°F	MIN. BEND RADIUS (IN) @ 68°F	STANDARD LENGTH	WEIGHT (LBS)	U/M
12013590-50	3/4	19.1	1	25.4	100	2	50'	0.2	FT
12015003-50	1	25.4	1.25	31.75	90	3	50'	0.26	FT
12016506-50	1-1/4	31.75	1.52	38.48	70	4	50'	0.35	FT
12017006-50	1-1/2	38.1	1.81	45.97	70	5	50'	0.48	FT
12017502-50	2	50.8	2.34	59.44	70	7	50'	0.67	FT
12017507-50	2-1/2	63.5	2.88	73.15	60	8	50'	0.9	FT
12017515-50	3	76.2	3.42	86.87	50	10	50'	1.16	FT
12017516-50	4	101.6	4.49	114.05	45	14	50'	1.82	FT
12013590	3/4	19.1	1	25.4	100	2	100'	0.21	FT
12015003	1	25.4	1.25	31.75	90	3	100'	0.28	FT
12016506	1-1/4	31.75	1.52	38.48	70	4	100'	0.35	FT
12017006	1-1/2	38.1	1.81	45.97	70	5	100'	0.48	FT
12017502	2	50.8	2.34	59.44	70	7	100'	0.67	FT
12017507	2-1/5	63.5	2.88	73.15	60	8	100'	0.95	FT
12017515	3	76.2	3.42	86.87	50	10	100'	1.25	FT
12017516	4	101.6	4.49	114.05	45	14	100'	1.87	FT
12017517	5	127	5.58	141.73	45	21	100'	3.11	FT
12017518	6	152.4	6.8	172.72	45	24	100'	4.42	FT

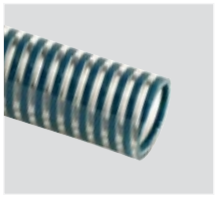
50' and 100' lengths are standard. Other lengths available upon request.

STYLE K (CLEAR) WITH GREEN HELIX – BULK/UNCOUPLED

This versatile general purpose suction/discharge hose is flexible and abrasion resistant, and is great for pumping water and light chemical solutions. Its smooth interior resists material blockage, while the clear PVC wall provides easy visibility of material flow.

- Tube/Cover Material: PVC
- Reinforcement: Rigid Poly Helix
- Temperature: -10°F to 130°F
- Cover Color: Clear/Green Spiral
- Negative Pressure (in/HG): 30

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 68°F	MIN. BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS) PER WEIGHT UNIT	U/M
12013520	3/4	19.1	1.01	25.65	100	2	100'	0.21	FT
12013525	1	25.4	1.27	32.26	90	3	100'	0.28	FT
12013530	1-1/4	31.75	1.53	38.86	70	4	100'	0.35	FT
12013535	1-1/2	38.1	1.82	46.23	70	5	100'	0.48	FT
12013540	2	50.8	2.36	59.94	60	7	100'	0.67	FT
12013543	2-1/2	63.5	2.90	73.66	60	8	100'	0.95	FT
12013545	3	76.2	3.44	87.38	50	10	100'	1.25	FT
12013548	4	101.6	4.52	114.81	45	14	100'	1.87	FT



LOW TEMPERATURE REINFORCED – BULK/UNCOUPLED

A low temperature PVC suction and discharge hose ideal for transferring liquid manure, sludge, light chemicals, and water. Widely used in agriculture, construction, marine, and irrigation industries. Its smooth bore provides maximum flow and its PVC helix gives it increased flexibility and abrasion resistance.

- Tube/Cover Material: Low Temp PVC
- Reinforcement: Rigid Poly Helix
- Temperature: -13°F to 140°F
- Cover Color: Clear/Orange
- Negative Pressure (in/HG): 29

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 68°F	MIN. BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
12026122	1-1/2	38.1	2.03	51.56	110	2.5	100'	0.61	FT
12026123	2	50.8	2.46	62.48	100	4	100'	0.75	FT
12026124	3	76.2	3.71	94.23	100	6	100'	1.37	FT
12026125	4	101.6	4.75	120.65	75	7	100'	1.85	FT
12026127	6	152.4	7.15	181.61	70	10	100'	4	FT

LOW TEMPERATURE REINFORCED – PIN LUG ASSEMBLIES

Complete assemblies with male x female aluminum pin lug short shank couplings with brass spinner nut. Attached with smooth ID preformed bands to insure a tight seal.

- Tube/Cover Material: Low Temp PVC
- Reinforcement: Rigid Orange Poly Helix
- Temperature: -13°F to 140°F
- Cover Color: Clear/Orange
- Fittings: Male x Female Aluminum Pin Lug
- Negative Pressure (in/HG): 29

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 68°F	MIN. BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
98127030	2	50.80	2.40	60.96	70	4.00	20'	17.28	EA
98127031	3	76.20	3.45	87.63	55	6.00	20'	28.9	EA
98127032	4	101.60	4.55	115.57	45	7.00	20'	47.6	EA
98127033	6	152.40	6.60	167.64	35	10.00	20'	93.6	EA

DESCRIPTION ABBREVIATION KEY

PVC = Poly Vinyl Chloride

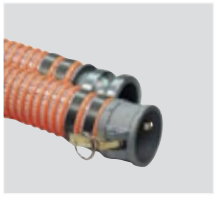
DESCRIPTION ABBREVIATION KEY

PVC = Poly Vinyl Chloride

LOW TEMPERATURE REINFORCED – CAM LOCK ASSEMBLIES

Complete assemblies with male x female aluminum cam and groove couplings with brass locking arms. Attached with smooth ID preformed bands to insure a tight seal.

- Tube/Cover Material: Low Temp PVC
- Reinforcement: Rigid Poly Helix
- Fittings: Male x Female Aluminum Cam Locks
- Temperature: -13°F to 140°F
- Cover Color: Clear/Orange
- Cover Color: Clear
- Negative Pressure (in/HG): 29



PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 68°F	MIN. BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
98127034	2	50.8	2.4	60.96	70	4	20'	17.88	EA
98127035	3	76.2	3.45	87.63	55	6	20'	27.08	EA
98127036	4	101.6	4.55	115.57	45	7	20'	43.92	EA
98127037	6	152.4	6.6	167.64	35	10	20'	91.52	EA

LOW TEMPERATURE REINFORCED – CAM LOCK X KING NIPPLE ASSEMBLIES

Complete assemblies with female "C" cam and groove coupling and plated steel nipple Male Pipe Thread. Both attached with preformed bands for strength and durability.

- Tube Material: Low Temp PVC
- Reinforcement: Rigid Poly Helix
- Fittings: Female Cam Lock x Male Pipe Thread
- Cover Material: PVC/Poly Helix
- Temperature: -13°F to 140°F
- Cover Color: Clear/Orange
- Negative Pressure (in/HG): 29

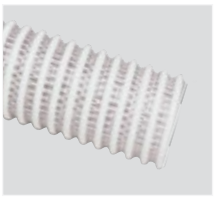
PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 68°F	MIN. BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
98127038	2	50.8	2.4	60.96	70	4	20'	18.38	EA
98127039	3	76.2	3.45	87.63	55	6	20'	28.94	EA
98127040	4	101.6	4.55	115.57	45	7	20'	47.3	EA
98127041	6	152.4	6.6	167.64	35	10	20'	95.2	EA

See p. 162 for spiral clamps.

6200 SERIES REINFORCED – BULK/UNCOUPLED

Our toughest braid reinforced PVC suction and discharge hose for pumping water, liquid animal waste, and sludge. Its clear PVC wall provides visibility of product flow and its external PVC helix gives it added flexibility and abrasion resistance. A good choice for the agricultural and constructions industries.

- Tube/Cover Material: PVC
- Reinforcement: Rigid PVC Helix/Fabric Braid
- Temperature: -4°F to 150°F
- Cover Color: Clear
- Negative Pressure (in/HG): 28



PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX WP @ 68°F	MIN BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
12026108	4	101.6	4.73	120.14	75	8	100'	1.74	FT
12026109	6	152.4	7.13	181.1	70	12	100'	3.81	FT
12026110	8	203.2	9.3	236.22	50	30	100'	5	FT
12026111	10	254	11.5	292.1	35	44	100'	7.48	FT

TIGER TAIL LIQUID SUCTION & PUMPING HOSE – ASSEMBLIES

This rugged, poly helix reinforced suction hose assembly has a smooth interior for maximum material flow, and an exterior that reduces drag for easy maneuverability. It is crush proof, will not kink, and remains highly flexible in sub-zero temperatures. A great hose for the removal of fluids and waste material in marine sanitation, septic cleaning, and municipal pumping.

- Tube Material: Polyethylene Copolymer
- Reinforcement: Integral Polyethylene Helix
- Fittings: Polyweld Cuffs
- Temperature: -40°F to 140°F
- Cover Color: Black
- Cover Color: Clear/Orange
- Negative Pressure (in/HG): 29

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
98128550	2	50.80	2.50	63.50	17	4.80	20'	13	EA
98128552	3	76.20	3.63	92.08	12	8.20	20'	23	EA
98128554	4	101.60	4.75	120.65	7	9.50	20'	33	EA

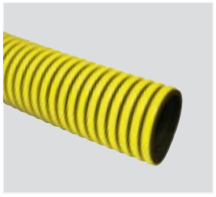
FERTILIZER SOLUTION – BULK/UNCOUPLED

A lightweight, flexible, rugged suction/discharge hose which has good chemical resistance and is excellent for transferring fertilizer solutions, septic solutions, pesticides, and is Lasso® resistant. Its corrugated polyethylene helix serves as a scuff strip making it durable and easy to handle.

- Tube/Cover Material: EPDM
- Reinforcement: Yellow Poly Helix
- Temperature: -30°F to 140°F
- Cover Color: Black/Yellow Spiral
- Negative Pressure (in/HG): 28

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 68°F	MIN. BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
12012795-50	1-1/4	31.75	1.61	40.89	70	5	50'	0.3	FT
12012797-50	1-1/2	38.1	1.96	49.78	60	6	50'	0.47	FT
12012800-50	2	50.8	2.49	63.25	60	9	50'	0.69	FT
12012805-50	2-1/2	63.5	3	76.2	50	11	50'	0.93	FT
12012807-50	3	76.2	3.6	91.44	50	12	50'	1.19	FT
12012810-50	4	101.6	4.69	119.13	45	17	50'	1.81	FT
12012815-50	1	25.4	1.34	34.04	80	4	50'	0.23	FT
12012795	1	25.40	1.34	34.04	80	4	100'	0.23	FT
12012797	1-1/4	31.75	1.61	40.89	70	5	100'	0.3	FT
12012800	1-1/2	38.1	1.96	49.78	60	6	100'	0.47	FT
12012805	2	50.8	2.49	63.25	60	9	100'	0.69	FT
12012807	2-1/2	63.5	3	76.2	50	11	100'	0.93	FT
12012810	3	76.2	3.6	91.44	50	12	100'	1.19	FT
12012815	4	101.6	4.69	119.13	45	17	100'	1.18	FT
12012928	6	152.40	6.86	174.24	35	27	100'	3.48	FT

50' and 100' lengths are standard. Other lengths available upon request.



FERTILIZER SOLUTION – COILS

A lightweight, flexible, rugged suction/discharge hose which has good chemical resistance and is excellent for transferring fertilizer solutions, septic solutions, pesticides, and is Lasso® resistant. Its corrugated polyethylene helix serves as a scuff strip making it durable and easy to handle.

- Tube/Cover Material: EPDM
- Reinforcement: Yellow Poly Helix
- Temperature: -30°F to 140°F
- Cover Color: Black/Yellow Spiral
- Negative Pressure (in/HG): 28

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 68°F	MIN. BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
12012934	1-1/4	31.75	1.61	40.89	70	5	10'	3.1	EA
12012942	1-1/2	38.1	1.96	49.78	60	6	10	4.8	EA
12012950	2	50.8	2.49	63.25	60	9	10'	6.95	EA
12012938	1-1/4	31.75	1.61	40.89	70	5	25'	7.7	EA
12012946	1-1/2	38.1	1.96	49.78	60	6	25	11.95	EA
12012954	2	50.8	2.49	63.25	60	9	25'	17.35	EA

50' and 100' lengths are standard. Other lengths available upon request.

POLY RUBBER SUCTION

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Methylene

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Methylene

FERTILIZER SOLUTION – PIN LUG ASSEMBLIES

Complete assemblies with male x female aluminum pin lug short shank couplings with brass spinner nut. Both attached with preformed bands for strength and durability.

- Tube/Cover Material: EPDM
- Reinforcement: Yellow Poly Helix
- Cover Color: Black/Yellow Spiral
- Fittings: Male x Female Aluminum Pin Lug
- Negative Pressure (in/HG): 28
- Temperature: -30°F to 140°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 68°F	MIN. BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
98128170	1-1/2	38.1	1.96	49.78	60	6	20'	10.3	EA
98128180	2	50.8	2.49	63.25	60	9	20'	14.9	EA
97128575	2	50.8	2.49	63.25	60	9	25'	14.9	EA
98128185	2-1/2	63.5	3	76.2	50	11	20'	20.3	EA
98128190	3	76.2	3.6	91.44	50	12	20'	27	EA
98128194	4	101.6	4.69	119.13	45	17	20'	43	EA
98128196	6	152.4	6.86	174.24	35	27	20'	79.3	EA

FERTILIZER SOLUTION – CAM LOCK ASSEMBLIES

Complete assemblies with male x female aluminum cam and groove couplings with brass locking arms. Both attached with preformed bands for strength and durability.

- Tube/Cover Material: EPDM
- Reinforcement: Yellow Poly Helix
- Cover Color: Black/Yellow Spiral
- Fittings: Male x Female Aluminum Cam Locks
- Negative Pressure (in/HG): 28
- Temperature: -30°F to 140°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 68°F	MIN. BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
98128161	1-1/2	38.1	1.96	49.78	60	6	20'	11	EA
98128162	2	50.8	2.49	63.25	60	9	20'	16	EA
97122202	2	50.8	2.49	63.25	61	9	25'	16	EA
98128163	2-1/2	63.5	3	76.2	50	11	20'	22	EA
98128164	3	76.2	3.6	91.44	50	12	20'	28.5	EA
98128165	4	101.6	4.69	119.13	45	17	20'	42.5	EA
98128166	6	152.4	6.86	174.24	35	27	20'	85	EA

FERTILIZER SOLUTION – CAM LOCK X KING NIPPLE ASSEMBLIES

Complete assemblies with female "C" cam and groove coupling and plated steel nipple Male Pipe Thread. Both attached with preformed bands for strength and durability.

- Tube/Cover Material: EPDM
- Reinforcement: Yellow Poly Helix
- Cover Color: Black/Yellow Spiral
- Fittings: Female Cam Lock x Male Pipe Thread
- Negative Pressure (in/HG): 28
- Temperature: -30°F to 140°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 68°F	MIN. BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
98128255	1-1/2	38.1	1.96	49.78	60	6	20'	11.5	EA
98128256	2	50.8	2.49	63.25	60	9	20'	16.5	EA
98128257	2-1/2	63.5	3	76.2	50	11	20'	22.5	EA
98128258	3	76.2	3.6	91.44	50	12	20'	29.5	EA
98128259	4	101.6	4.69	119.13	45	17	20'	44	EA
98128260	6	152.4	6.86	174.24	35	27	20'	92	EA

ENFORCER (REINFORCED FERTILIZER SOLUTION) – BULK/UNCOUPLED

A lightweight, flexible, rugged suction/discharge hose that is stronger and more dimensionally stable than Fertilizer Solution hose due to its polyester braided reinforcement. The EPDM tube has good chemical resistance, and is excellent for transferring fertilizer solutions, septic solutions, pesticides, and is Lasso® resistant. Its corrugated polyethylene helix serves as a scuff strip which makes it durable and easy to handle.

- Tube Material: EPDM
- Reinforcement: Black Poly Helix and Polyester Fabric Braid
- Cover Material: EPDM/Poly Spiral
- Temperature: -30°F to 140°F
- Cover color: Black
- Negative Pressure (in/HG): 29.8

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 68°F	MIN. BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
12012960-50	1-1/4	31.75	1.60	40.64	100	3	50'	0.55	FT
12012962-50	1-1/2	38.1	1.87	47.5	100	4	50'	0.55	FT
12012964-50	2	50.8	2.66	67.56	100	5	50'	0.88	FT
12012966-50	3	76.2	3.86	98.04	85	6	50'	1.48	FT
12012968-50	4	101.6	4.87	123.7	70	8	50'	2.29	FT
12012960	1-1/4	31.75	1.60	40.64	100	3	100'	0.34	FT
12012962	1-1/2	38.1	1.87	47.5	100	4	100'	0.55	FT
12012964	2	50.8	2.66	67.56	100	5	100'	0.88	FT
12012966	3	76.2	3.86	98.04	85	6	100'	1.48	FT
12012968	4	101.6	4.87	123.7	70	8	100'	2.3	FT

50' and 100' lengths are standard. Other lengths available upon request.

RUBBER SUCTION – BULK/UNCOUPLED

A tough, flexible, abrasion resistant, weather resistant hose for suction and discharge applications. It has a steel wire helix which makes it crush resistant and will handle full suction. Its EPDM tube makes it resistant to agricultural herbicides and other light chemical solutions.

- Tube Material: EPDM
- Reinforcement: Synthetic Cord/Dual Wire Helix
- Cover Material: SBR/EPDM
- Temperature: -22°F to 185°F
- Cover color: Black
- Negative Pressure (in/HG): 30

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	LENGTH	WEIGHT (LBS)	U/M
12003485	1	25.4	1.5	38.1	150	4	100'	0.6	FT
12003490	1-1/4	31.75	1.72	43.69	150	5	100'	0.67	FT
12003501	1-1/2	38.1	2	50.8	150	6	100'	0.9	FT
12004001	2	50.8	2.5	63.5	150	8	100'	1.1	FT
12004106	2-1/2	63.5	3	76.2	150	10	100'	1.6	FT
12004508	3	76.2	3.53	89.66	150	12	100'	1.8	FT
12005700	3-1/2	88.9	4	101.6	150	16	100'	2.37	FT
12005008	4	101.6	4.72	119.89	150	16	100'	3.5	FT
12005504	6	152.4	6.54	166.12	100	27	100'	4.5	FT
12005506	8	203.2	8.86	225.04	100	38	100'	8.46	FT
12005512	12	304.8	13.08	332.23	100	66	100'	15.1	FT

DESCRIPTION ABBREVIATION KEY

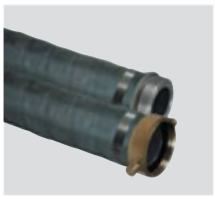
EPDM = Ethylene Propylene Diene Methylene

SBR = Styrene Butadiene Rubber

RUBBER SUCTION – PIN LUG ASSEMBLIES

Complete assemblies with male x female aluminum pin lug short shank couplings with brass spinner nut. Attached with smooth ID preformed bands to insure a tight seal.

- Tube Material: EPDM
- Reinforcement: Synthetic Cord/Dual Wire Helix
- Cover Material: SBR/EPDM
- Temperature: -22°F to 185°F
- Cover Color: Black
- Fittings: Male x Female Aluminum Pin Lug
- Negative Pressure (in/HG): 30



PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	LENGTH	WEIGHT (LBS)	U/M
98128195	1-1/2	38.1	2	50.8	150	4	20'	16.8	EA
98128300	2	50.8	2.5	63.5	150	5	20'	17.2	EA
98128310	2-1/2	63.5	2.5	63.5	150	10	20'	36.8	EA
98128320	3	76.2	3.54	89.92	150	12	20'	48.3	EA
98128332	4	101.6	4.75	120.65	150	16	20'	64.8	EA
98128344	6	152.40	6.78	172.21	100	27	20'	109.4	EA

Negative pressure also commonly referred as vacuum rating.

Negative pressure is measured in In/HG.

30 in/HG equals full vacuum.

RUBBER SUCTION – CAM LOCK ASSEMBLIES

Complete assemblies with male x female aluminum cam and groove couplings with brass locking arms. Attached with smooth ID preformed bands to insure a tight seal.

- Tube Material: EPDM
- Reinforcement: Synthetic Cord/Dual Wire Helix
- Cover Material: SBR/EPDM
- Temperature: -22°F to 185°F
- Cover Color: Black
- Fittings: Male x Female Aluminum Cam Locks
- Negative Pressure (in/HG): 30

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	LENGTH	WEIGHT (LBS)	U/M
98128198	1-1/2	38.1	2	50.8	150	4	20'	17.5	EA
98128301	2	50.8	2.5	63.5	150	5	20'	25	EA
98128311	2-1/2	63.5	2.5	63.5	150	10	20'	38	EA
98128321	3	76.2	3.54	89.92	150	12	20'	49.5	EA
98128333	4	101.6	4.75	120.65	150	16	20'	66.5	EA
98128345	6	152.4	6.78	172.21	100	27	20'	115.5	EA

RUBBER SUCTION – CAM LOCK X KING NIPPLE ASSEMBLIES

Complete assemblies with female "C" cam and groove coupling and plated steel nipple Male Pipe Thread. Both attached with preformed bands for strength and durability.

- Tube Material: EPDM
- Reinforcement: Synthetic Cord/Dual Wire Helix
- Cover Material: SBR/EPDM
- Temperature: -22°F to 185°F
- Cover Color: Black
- Fittings: Female Cam Lock x Male Pipe Thread
- Negative Pressure (in/HG): 30

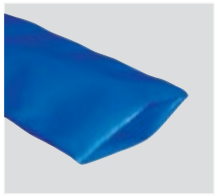
PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI	MIN. BEND RADIUS (IN)	LENGTH	WEIGHT (LBS)	U/M
98128199	1-1/2	38.1	2	50.8	150	4	20'	18	EA
98128299	2	50.8	2.5	63.5	150	5	20'	25.5	EA
98128309	2-1/2	63.5	2.5	63.5	150	10	20'	39	EA
98128322	3	76.2	3.54	89.92	150	12	20'	50.5	EA
98128331	4	101.6	4.75	120.65	150	16	20'	67.5	EA
98128343	6	152.4	6.78	172.21	100	27	20'	121.5	EA

STANDARD PVC LAYFLAT (BLUE)

General purpose lightweight flexible PVC hose for open end discharge of water in construction, agriculture, irrigation, marine, and rental applications. This hose is non-absorbing, mildew proof, abrasion resistant, and rolls up flat for easy storage and handling.

- Tube/Cover Material: PVC
- Reinforcement: Polyester plies
- Temperature: -5°F to 124°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 68°F	STANDARD REEL	WEIGHT (LBS)	U/M
13026500	1	25.4	1.31	33.274	0.055	1.4	80	300'	0.11	FT
13026504	1-1/4	31.75	1.31	33.27	0.055	1.4	80	300'	0.14	FT
13026505	1-1/2	38.1	1.56	39.62	0.055	1.4	75	300'	0.15	FT
13027005	2	50.8	2.06	52.32	0.055	1.4	70	300'	0.17	FT
13027501	2-1/2	63.5	2.56	65.02	0.059	1.5	60	300'	0.22	FT
13028001	3	76.2	3.06	77.8	0.063	1.6	55	300'	0.28	FT
13028508	4	101.6	4.06	103.2	0.063	1.6	45	300'	0.36	FT
13029008	6	152.4	6.07	154.2	0.071	1.8	40	300'	0.65	FT
13029504	8	203.2	8.07	205	0.071	1.8	35	300'	1.1	FT
13030006	10	254	10.08	256.03	0.08	2.03	35	300'	2	FT
13030008	12	304.8	12.08	306.83	0.08	2.03	35	300'	2.43	FT
13030007	14	355.6	14.09	357.86	0.089	2.26	30	300'	2.7	FT
13030009	16	406.4	16.09	408.66	0.089	2.26	30	300'	3.08	FT

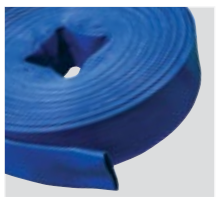


STANDARD PVC LAYFLAT (BLUE) – CUT LENGTH COILS

General purpose lightweight flexible PVC hose for open end discharge of water in construction, agriculture, irrigation, marine, and rental applications. This hose is non-absorbing, mildew proof, abrasion resistant, and rolls up flat for easy storage and handling.

- Tube/Cover Material: PVC
- Reinforcement: Polyester Plies
- Temperature: -5°F to 124°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 68°F	LENGTH	WEIGHT (LBS)	U/M
13026443	1-1/2	38.1	1.56	39.62	0.055	1.4	75	50'	7.5	EA
13026445	1-1/2	38.1	1.56	39.62	0.055	1.4	75	100'	0.17	FT
13026445-100	1-1/2	38.1	1.56	39.62	0.055	1.4	75	100'	15	EA
13026460	2	50.8	2.06	52.32	0.055	1.4	70	50'	8.5	EA
13026465	2	50.8	2.06	52.32	0.055	1.4	70	100'	0.17	FT
13026479	3	76.2	3.06	77.8	0.063	1.6	55	50'	0.14	EA
13026480	3	76.2	3.06	77.8	0.063	1.6	55	100'	0.28	FT
13026481	4	101.6	4.06	103.2	0.063	1.6	45	100'	0.36	FT



STANDARD PVC LAYFLAT (BLUE) – POLY COUPLING ASSEMBLIES

Coupled assemblies with male x female poly couplings, with swivel nut. Attached with smooth ID preformed bands to insure a tight seal.

- Tube/Cover Material: PVC
- Reinforcement: Polyester Plies
- Temperature: -5°F to 124°F
- Fittings: Poly Male Pipe Thread x Poly Female Pipe Thread/Swivel Nut

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 68°F	LENGTH	WEIGHT (LBS)	U/M
98131010	1	25.4	1.11	28.19	0.055	1.4	80	20'	2	EA
98131011	1	25.4	1.11	28.19	0.055	1.4	80	25'	2.5	EA
98131012	1	25.4	1.11	28.19	0.055	1.4	80	50'	5	EA
98131013	1	25.4	1.11	28.19	0.055	1.4	80	100'	15	EA

DESCRIPTION ABBREVIATION KEY

PVC = Poly Vinyl Chloride

DESCRIPTION ABBREVIATION KEY

PVC = Poly Vinyl Chloride

STANDARD PVC LAYFLAT (BLUE) – PIN LUG ASSEMBLIES

Coupled assemblies with male x female pin lug short shank couplings and brass spinner nut.

- Tube/Cover Material: PVC
- Reinforcement: Polyester Plies
- Temperature: -5°F to 124°F
- Fittings: Male x Female Aluminum Pin Lug

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 68°F	LENGTH	WEIGHT (LBS)	U/M
98138010	1-1/2	38.1	1.61	40.89	0.055	1.4	75	25'	4.2	EA
98138015	1-1/2	38.1	1.61	40.89	0.055	1.4	75	50'	8	EA
98138025	1-1/2	38.1	1.61	40.89	0.055	1.4	75	100'	15	EA
98138040	2	50.8	3.1	78.74	0.055	1.4	70	25'	5.3	EA
98138045	2	50.8	3.1	78.74	0.055	1.4	70	50'	10.2	EA
98138054	2	50.8	3.1	78.74	0.055	1.4	70	100'	18.5	EA
98138060	3	76.2	3.13	79.4	0.063	1.6	55	25'	10	EA
98138065	3	76.2	3.13	79.4	0.063	1.6	55	50'	19.5	EA
98138068	3	76.2	3.13	79.5	0.063	1.6	55	100'	32	EA
98138072	4	101.6	4.13	104.8	0.063	1.6	45	25'	13.9	EA
98138075	4	101.6	4.13	104.8	0.063	1.6	45	50'	26.4	EA
98131021	4	101.6	4.13	104.8	0.063	1.6	45	100'	42	EA
98138095	6	152.4	6.14	156.01	0.071	1.8	40	25'	25.2	EA
98138100	6	152.4	6.14	156.01	0.071	1.8	40	50'	49.8	EA
98131023	6	152.4	6.14	156.01	0.071	1.8	40	100'	75	EA

STANDARD PVC LAYFLAT (BLUE) – CAM LOCK ASSEMBLIES

Coupled assemblies with male x female cam and groove couplings, with locking arms.

- Tube/Cover Material: PVC
- Reinforcement: Polyester Plies
- Temperature: -5°F to 124°F
- Fittings: Male x Female Cam Locks

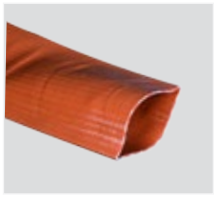
PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 68°F	LENGTH	WEIGHT (LBS)	U/M
ALUMINUM FITTINGS										
98138012	1-1/2	38.1	1.61	40.89	0.055	1.4	75	25'	6.25	EA
98138017	1-1/2	38.1	1.61	40.89	0.055	1.4	75	50'	11.5	EA
98138030	1-1/2	38.1	1.61	40.89	0.055	1.4	75	100'	16	EA
98138043	2	50.8	3.1	78.74	0.055	1.4	70	25'	6.5	EA
98138047	2	50.8	3.1	78.74	0.055	1.4	70	50'	11	EA
98138053	2	50.8	3.1	78.74	0.055	1.4	70	100'	17	EA
98138063	3	76.2	3.13	79.5	0.063	1.6	55	25'	11.5	EA
98138067	3	76.2	3.13	79.5	0.063	1.6	55	50'	18.5	EA
98138069	3	76.2	3.13	79.5	0.063	1.6	55	100'	33	EA
98138074	4	101.6	4.13	104.9	0.063	1.6	45	25'	15.5	EA
98138077	4	101.6	4.13	104.9	0.063	1.6	45	50'	24.5	EA
98138078	4	101.6	4.13	104.9	0.063	1.6	45	100'	43	EA
98138096	6	152.4	6.14	155.96	0.071	1.8	40	25'	32	EA
98138104	6	152.4	6.14	155.96	0.071	1.8	40	50'	48	EA
98138105	6	152.4	6.14	155.96	0.071	1.8	40	100'	81	EA
POLYPROPYLENE FITTINGS										
98138011	1-1/2	38.1	1.61	40.89	0.055	1.4	75	25'	6	EA
98138019	1-1/2	38.1	1.61	40.89	0.055	1.4	75	50'	11	EA
98138044	2	50.8	3.1	78.74	0.055	1.4	70	25'	6.2	EA
98138049	2	50.8	3.1	78.74	0.055	1.4	70	50'	10.2	EA
98138062	3	76.2	3.13	79.5	0.063	1.6	55	25'	10	EA
98138066	3	76.2	3.13	79.5	0.063	1.6	55	50'	18	EA

MEDIUM-DUTY PVC LAYFLAT (BROWN) – BULK/UNCOUPLED

Medium-duty flexible PVC hose for open end discharge of water in construction, agriculture, irrigation, marine, and rental applications. This hose is resistant to mildew, oils, grease, abrasion, and rolls up flat for easy storage and handling.

- Tube/Cover Material: PVC
- Reinforcement: Polyester Plies
- Temperature: -5°F to 124°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 68°F	STANDARD REEL	WEIGHT (LBS)	U/M
13030014	1-1/2	38.1	1.65	41.91	0.075	1.91	150	300'	0.21	FT
13030022	2	50.8	2.15	54.71	0.077	1.96	150	300'	0.28	FT
13030030	2-1/2	63.5	2.65	67.31	0.077	1.96	150	300'	0.39	FT
13030049	3	76.2	3.15	80.11	0.078	1.98	150	300'	0.52	FT
13030103	4	101.6	4.16	105.56	0.078	1.98	150	300'	0.75	FT
13030154	6	152.4	6.16	156.36	0.079	2.01	150	300'	1.25	FT
13030175	8	203.2	8.15	207.01	0.079	2.01	115	300'	1.88	FT



MEDIUM-DUTY PVC LAYFLAT (BROWN) – PIN LUG ASSEMBLIES

Coupled assemblies with male x female aluminum pin lug short shank couplings and brass spinner nut.

- Tube/Cover Material: PVC
- Reinforcement: Polyester Plies
- Temperature: -5°F to 124°F
- Fittings: Male x Female Aluminum Pin Lug

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 68°F	LENGTH	WEIGHT (LBS)	U/M
98138120	1-1/2	38.1	1.65	41.91	0.075	1.91	150	25'	6	EA
98138124	1-1/2	38.1	1.65	41.91	0.075	1.91	150	50'	11.6	EA
98138125	1-1/2	38.1	1.65	41.91	0.075	1.91	150	100'	22.5	EA
98138126	2	50.8	2.15	54.71	0.077	1.96	150	25'	8.2	EA
98138129	2	50.8	2.15	54.71	0.077	1.96	150	50'	15.6	EA
98138131	2	50.8	2.15	54.71	0.077	1.96	150	100'	30.5	EA
98138133	2-1/2	63.5	2.65	67.41	0.077	1.96	150	25'	11.5	EA
98138136	2-1/2	63.5	2.65	67.41	0.077	1.96	150	50'	21.7	EA
98138137	2-1/2	63.5	2.65	67.41	0.077	1.96	150	100'	42.5	EA
98138138	3	76.2	3.15	80.11	0.078	1.98	150	25'	16.2	EA
98138141	3	76.2	3.15	80.11	0.078	1.98	150	50'	29.7	EA
98138143	3	76.2	3.15	80.11	0.078	1.98	150	100'	56.5	EA
98138144	4	101.6	4.16	105.56	0.078	1.98	150	25'	23.6	EA
98138147	4	101.6	4.16	105.56	0.078	1.98	150	50'	41.9	EA
98138149	4	101.6	4.16	105.56	0.078	1.98	150	100'	81	EA
98138150	6	152.4	6.16	156.41	0.079	2.01	150	25'	40.3	EA
98138153	6	152.4	6.16	156.41	0.079	2.01	150	50'	72.2	EA
98138155	6	152.4	6.16	156.41	0.079	2.01	150	100'	135	EA

DESCRIPTION ABBREVIATION KEY

PVC = Poly Vinyl Chloride

DESCRIPTION ABBREVIATION KEY

NBR = Nitrile Butadiene Rubber

PVC = Poly Vinyl Chloride

MEDIUM-DUTY PVC LAYFLAT (BROWN) – CAM LOCK ASSEMBLIES

Coupled assemblies with male x female cam and groove couplings, with locking arms.

- Tube/Cover Material: PVC
- Reinforcement: Polyester Plies
- Temperature: -5°F to 124°F
- Fittings: Male x Female Aluminum Cam Locks

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 68°F	LENGTH	WEIGHT (LBS)	U/M
98138119	1-1/2	38.1	1.65	41.91	0.075	1.91	150	25'	7	EA
98138121	1-1/2	38.1	1.65	41.91	0.075	1.91	150	50'	12.5	EA
98138122	1-1/2	38.1	1.65	41.91	0.075	1.91	150	100'	23	EA
98138127	2	50.8	2.15	54.71	0.077	1.96	150	25'	9.5	EA
98138130	2	50.8	2.15	54.71	0.077	1.96	150	50'	16.5	EA
98138132	2	50.8	2.15	54.71	0.077	1.96	150	100'	30.5	EA
98138134	2-1/2	63.5	2.65	67.41	0.077	1.96	150	25'	13	EA
98138135	2-1/2	63.5	2.65	67.41	0.077	1.96	150	50'	23	EA
98138157	2-1/2	63.5	2.65	67.41	0.077	1.96	150	100'	43	EA
98138139	3	76.2	3.15	80.11	0.078	1.98	150	25'	18	EA
98138142	3	76.2	3.15	80.11	0.078	1.98	150	50'	31	EA
98138158	3	76.2	3.15	80.11	0.078	1.98	150	100'	57.5	EA
98138145	4	101.6	4.16	105.56	0.078	1.98	150	25'	25.5	EA
98138148	4	101.6	4.16	105.56	0.078	1.98	150	50'	44	EA
98138159	4	101.6	4.16	105.56	0.078	1.98	150	100'	81.5	EA
98138151	6	152.4	6.16	156.41	0.079	2.01	150	25'	47	EA
98138154	6	152.4	6.16	156.41	0.079	2.01	150	50'	78	EA
98138156	6	152.4	6.16	156.41	0.079	2.01	150	100'	141.5	EA

HEAVY-DUTY PVC LAYFLAT (BLACK) – BULK/UNCOUPLED

The ultimate heavy-duty nitrile/PVC blended hose designed to withstand the toughest discharge applications in construction, mining, jetting, agriculture, and industrial washdown. Its ribbed cover is resistant to oil, abrasion, and weathering.

- Tube Material: PVC/NBR
- Cover Material: Ribbed PVC/Nitrile Rubber
- Temperature: -20°F to 150°F
- Reinforcement: Synthetic Fabric

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 68°F	STANDARD LENGTH	WEIGHT (LBS)	U/M
13030323	4	101.6	4.2	106.68	0.1	2.54	150	100'	1.01	FT
13030327	6	152.4	6.24	158.5	0.12	3.05	150	100'	1.52	FT
13030330	8	203.2	8.24	209.3	0.12	3.05	115	100'	2.03	FT

HEAVY-DUTY PVC LAYFLAT (BLACK) – PIN LUG ASSEMBLIES

Coupled assemblies with male x female aluminum pin lug short shank couplings and brass spinner nut.

- Tube Material: PVC/NBR
- Cover Material: Ribbed PVC/Nitrile Rubber
- Temperature: -20°F to 150°F
- Reinforcement: Synthetic Fabric
- Fittings: Male x Female Aluminum Pin Lug

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 68°F	LENGTH	WEIGHT (LBS)	U/M
98138376	4	101.6	4.2	106.68	0.1	2.54	150	50'	68	EA
98138377	4	101.6	4.2	106.68	0.1	2.54	150	100'	130	EA
98138379	6	152.4	6.24	158.5	0.12	3.05	150	50'	105	EA
98138380	6	152.4	6.24	158.5	0.12	3.05	150	100'	199	EA

HEAVY-DUTY PVC LAYFLAT (BLACK) – CAM LOCK ASSEMBLIES

Coupled assemblies with male x female cam and groove couplings, with locking arms. Attached with smooth ID preformed bands to insure a tight seal.

- Tube Material: PVC/NBR
- Cover Material: Ribbed PVC/Nitrile Rubber
- Temperature: -20°F to 150°F
- Reinforcement: Synthetic Fabric
- Fittings: Male x Female Aluminum Cam Locks

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 68°F	LENGTH	WEIGHT (LBS)	U/M
98138394	4	101.6	4.2	106.68	0.1	2.54	150	50'	69	EA
98138395	4	101.6	4.2	106.68	0.1	2.54	150	100'	131	EA
98138397	6	152.4	6.24	158.5	0.12	3.05	150	50'	110	EA
98138398	6	152.4	6.24	158.5	0.12	3.05	150	100'	204	EA
98138400	8	203.2	8.24	209.3	0.12	3.05	115	50'	149	EA
98138401	8	203.2	8.24	209.3	0.12	3.05	115	100'	276	EA

HEAVY-DUTY PVC LAYFLAT (BLACK) – BALL & SOCKET ASSEMBLIES

Coupled assemblies with male x female galvanized steel ball and socket couplings, including lever locking ring and attached with smooth ID preformed bands to insure a tight seal. This quick locking coupling provides 30 degree socket flexibility in all directions.

- Tube Material: NBR
- Cover Material: Ribbed Nitrile Rubber
- Fittings: Male x Female Steel Ball/Socket
- Reinforcement: Synthetic Fabric
- Temperature: -20°F to 150°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 68°F	LENGTH	WEIGHT (LBS)	U/M
98138403	4	101.6	4.2	106.68	0.1	2.54	150	50'	75	EA
98138404	4	101.6	4.2	106.68	0.1	2.54	150	100'	137	EA
98138406	6	152.4	6.24	158.5	0.12	3.05	150	50'	118	EA
98138407	6	152.4	6.24	158.5	0.12	3.05	150	100'	212	EA
98138409	8	203.2	8.24	209.3	0.12	3.05	115	50'	169	EA
98138410	8	203.2	8.24	209.3	0.12	3.05	115	100'	297	EA

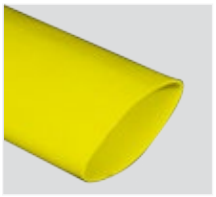
DESCRIPTION ABBREVIATION KEY

NBR = Nitrile Butadiene Rubber

MULTIPURPOSE POLYURETHANE LAYFLAT (SAFETY GREEN) – BULK/UNCOUPLED

This Parker Snap-tite® multipurpose standard-duty hose is used for the discharge and transfer of water in industrial applications. Hose resists abrasion, cracking, puncturing, and degradation from oil, ozone, petrochemicals, ultraviolet light and weathering. With exceptional performance and service life, this flexible layflat hose rolls up for easy storage and transportation.

- Tube/Cover Material: Polyurethane
- Reinforcement: Woven Polyester Ply
- Temperature: -40°F to 176°F



PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI	WEIGHT (LBS)	U/M
12026300	1-1/4	31.75	1.335	33.909	0.085	2.159	450	0.15	FT
12026301	1-1/2	38.1	1.585	40.259	0.085	2.159	450	0.22	FT
12026302	1-3/4	44.45	1.84	46.736	0.09	2.286	450	0.24	FT
12026303	2	50.8	2.09	53.086	0.09	2.286	450	0.27	FT
12026304	2-1/2	63.5	2.59	65.786	0.09	2.286	450	0.39	FT
12026305	3	76.2	3.13	79.502	0.13	3.302	350	0.5	FT
12026306	3-1/2	88.9	3.63	92.202	0.13	3.302	250	0.65	FT
12026307	4	101.6	4.13	104.902	0.13	3.302	270	0.76	FT
12026308	4-1/2	114.3	4.63	117.602	0.13	3.302	250	0.84	FT
12026309	5	127	5.13	130.302	0.13	3.302	250	1	FT
12026310	6	152.4	6.12	155.448	0.12	3.048	300	1.15	FT

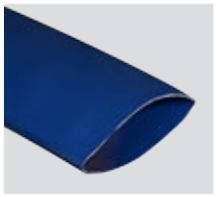
Parker Snap-tite Polyurethane Layflat Hose is exclusively available from Apache in North America. Apache is the exclusive North American distribution partner.

Snap-tite

MULTIPURPOSE POTABLE WATER POLYURETHANE LAYFLAT (BLUE) – BULK/UNCOUPLED

This Parker Snap-tite® potable water multipurpose hose is used to transfer large volumes of drinking water from tank trucks to major events or work sites. Hose resists abrasion, cracking, puncturing, and degradation from oil, ozone, petrochemicals, ultraviolet light and weathering. With exceptional performance and service life, this flexible layflat hose rolls up for easy storage and transportation. Meets and exceeds NSF61 standards.

- Tube/Cover Material: Polyurethane
- Reinforcement: Woven Polyester Ply
- Temperature: -40°F to 176°F

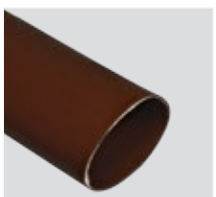


PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI	WEIGHT (LBS)	U/M
12026314	1-1/4	31.75	1.335	33.909	0.085	2.159	450	0.15	FT
12026315	1-1/2	38.1	1.585	40.259	0.085	2.159	450	0.22	FT
12026316	1-3/4	44.45	1.84	46.736	0.09	2.286	450	0.24	FT
12026317	2	50.8	2.09	53.086	0.09	2.286	450	0.27	FT
12026318	2-1/2	63.5	2.59	65.786	0.09	2.286	450	0.39	FT
12026319	3	76.2	3.13	79.502	0.13	3.302	350	0.5	FT
12026320	3-1/2	88.9	3.63	92.202	0.13	3.302	250	0.65	FT
12026321	4	101.6	4.13	104.902	0.13	3.302	270	0.76	FT
12026322	4-1/2	114.3	4.63	117.602	0.13	3.302	250	0.84	FT
12026323	5	127	5.13	130.302	0.13	3.302	250	1	FT
12026324	6	152.4	6.12	155.448	0.12	3.048	300	1.15	FT

SLURRY POLYURETHANE LAYFLAT (BROWN) – BULK/UNCOUPLED

This Parker Snap-tite® heavy-duty hose is ideal for rugged slurry transfer applications. Hose features a thick wall for additional abrasion resistance and durability. Also resists cracking, puncturing, and degradation from oil, ozone, petrochemicals, ultraviolet light and weathering. With exceptional performance and service life, this flexible layflat hose rolls up for easy storage and transportation.

- Tube/Cover Material: Polyurethane
- Reinforcement: Woven Polyester Ply
- Temperature: -40°F to 176°F



PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI	WEIGHT (LBS)	U/M
12026342	3	76.2	3.15	80.01	0.15	3.81	350	0.62	FT
12026343	4	101.6	4.15	105.41	0.15	3.81	250	0.89	FT
12026344	4-1/2	114.3	4.65	118.11	0.15	3.81	250	0.95	FT
12026345	5	127	5.15	130.81	0.15	3.81	250	1.07	FT
12026346	6	152.4	6.15	156.21	0.15	3.81	300	1.23	FT

IRRIGATION POLYURETHANE LAYFLAT (BLACK) – BULK/UNCOUPLED

This Parker Snap-tite® standard-duty irrigation hose is ideal for the transfer and discharge of water in agricultural applications. Hose resists abrasion, cracking, puncturing, and degradation from oil, ozone, petrochemicals, ultraviolet light and weathering. With exceptional performance and service life, this flexible layflat hose rolls up for easy storage and transportation.

- Tube/Cover Material: Polyurethane
- Reinforcement: Woven Polyester Ply
- Temperature: -40°F to 176°F

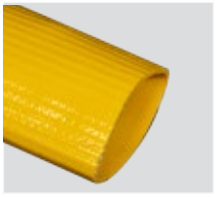
PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI	WEIGHT (LBS)	U/M
12026328	1-1/4	31.75	1.335	33.909	0.085	2.159	450	0.15	FT
12026329	1-1/2	38.1	1.585	40.259	0.085	2.159	450	0.22	FT
12026330	1-3/4	44.45	1.84	46.736	0.09	2.286	450	0.24	FT
12026331	2	50.8	2.09	53.086	0.09	2.286	450	0.27	FT
12026332	2-1/2	63.5	2.59	65.786	0.09	2.286	450	0.39	FT
12026333	3	76.2	3.13	79.502	0.13	3.302	350	0.50	FT
12026334	3-1/2	88.9	3.63	92.202	0.13	3.302	250	0.65	FT
12026335	4	101.6	4.13	104.902	0.13	3.302	250	0.76	FT
12026336	4-1/2	114.3	4.63	117.602	0.13	3.302	250	0.84	FT
12026337	5	127	5.13	130.302	0.13	3.302	250	1	FT
12026338	6	152.4	6.12	155.448	0.12	3.048	300	1.15	FT

ANTI-STATIC POLYURETHANE LAYFLAT (YELLOW) – BULK/UNCOUPLED

This Parker Snap-tite® dual anti-static wires that provide a path to conduct an electrical charge to ground, this discharge and transfer hose is ideal for fluids that develop an electrical charge. Hose resists abrasion, cracking, puncturing, and degradation from oil, ozone, petrochemicals, ultraviolet light and weathering. With exceptional performance and service life, this flexible layflat hose rolls up for easy storage and transportation.

- Tube/Cover Material: Polyurethane
- Reinforcement: Woven Polyester Ply with Dual Anti-Static Wires
- Temperature: -40°F to 176°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI	WEIGHT (LBS)	U/M
12026350	1-1/2	38.1	1.585	40.259	0.085	2.159	400	0.22	FT
12026351	2	50.8	2.09	53.086	0.09	2.286	450	0.27	FT
12026352	2-1/2	63.5	2.59	65.786	0.09	2.286	300	0.39	FT
12026353	3	76.2	3.13	79.502	0.13	3.302	300	0.5	FT
12026354	4	101.6	4.13	104.902	0.13	3.302	250	0.76	FT
12026355	6	152.4	6.12	155.448	0.12	3.048	300	1.15	FT

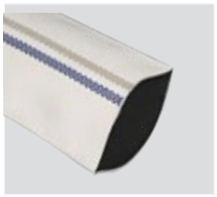


MILL WASHDOWN

MILL WASHDOWN – BULK/UNCOUPLED

A lightweight single jacket hose ideal for water washdown and discharge applications. Its tough 100% polyester cover will not mildew or decay with age and is very abrasion resistant.

- Tube Material: Natural Rubber
- Cover Material: Polyester Fabric
- Cover Color: White
- Reinforcement: Mildrew Resistant Polyester
- Temperature: -25°F to 185°F



PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI	STANDARD LENGTH	WEIGHT (LBS)	U/M
16000500	1-1/2	38.1	1.69	42.88	0.094	2.38	112	50'	0.1	FT
16000507	2	50.8	2.25	57.15	0.125	3.18	112	50'	0.12	FT
16001007	2-1/2	63.5	2.75	69.85	0.125	3.18	112	50'	0.17	FT
16001503	3	76.2	3.38	85.75	0.188	4.76	112	50'	0.21	FT
16002003	4	101.6	4.38	111.25	0.188	4.76	112	50'	0.4	FT
16002006	6	152.4	6.38	162.05	0.188	4.76	112	50'	0.75	FT

See p. 46 for NFPA rated fire suppression hoses.

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Monome

NBR = Nitrile

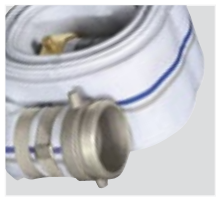
PVC = Poly Vinyl Chloride

MILL WASHDOWN – PIN LUG ASSEMBLIES

Coupled assemblies with male x female aluminum pin lug short shank couplings and brass spinner nut.

- Tube Material: Natural Rubber
- Cover Material: Polyester Fabric
- Fittings: Male x Female Aluminum Pin Lug
- Reinforcement: Mildew Resistant Polyester
- Temperature: -25°F to 185°F
- Cover color: White

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI	LENGTH	WEIGHT (LBS)	U/M
98168078	1-1/2	38.1	1.69	42.88	0.094	2.39	112	25'	6	EA
98168080	1-1/2	38.1	1.69	42.88	0.094	2.39	112	50'	11	EA
98168085	2	50.8	2.25	57.15	0.125	3.18	112	25'	7	EA
98168090	2	50.8	2.25	57.15	0.125	3.18	112	50'	13	EA
98168095	2-1/2	63.5	2.75	69.85	0.125	3.18	112	25'	11	EA
98168097	2-1/2	63.5	2.75	69.85	0.125	3.18	112	50'	19.5	EA
98168098	3	76.2	3.38	85.85	0.188	4.78	112	25'	14.5	EA
98168100	3	76.2	3.38	85.85	0.188	4.78	112	50'	25	EA
98168108	4	101.6	4.38	111.25	0.188	4.78	112	25'	26	EA
98168110	4	101.6	4.38	111.25	0.188	4.78	112	50'	46	EA
98168112	6	152.4	6.38	162.05	0.188	4.78	112	25'	48	EA
98168114	6	152.4	6.38	162.05	0.188	4.78	112	50'	86	EA



MILL WASHDOWN – CAM LOCK ASSEMBLIES

Coupled assemblies with male x female cam and groove couplings, with locking arms.

- Tube Material: Natural Rubber
- Cover Material: Polyester Fabric
- Fittings: Male x Female Aluminum Cam Locks
- Reinforcement: Mildew Resistant Polyester
- Temperature: -25°F to 185°F
- Cover color: White

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI	LENGTH	WEIGHT (LBS)	U/M
98168196	1-1/2	38.1	1.69	42.88	0.094	2.39	112	25'	7	EA
98168197	1-1/2	38.1	1.69	42.88	0.094	2.39	112	50'	12	EA
98168199	2	50.8	2.25	57.15	0.125	3.18	112	25'	8	EA
98168200	2	50.8	2.25	57.15	0.125	3.18	112	50'	14	EA
98168205	2-1/2	63.5	2.75	69.85	0.125	3.18	112	25'	12	EA
98168210	2-1/2	63.5	2.75	69.85	0.125	3.18	112	50'	21.5	EA
98168220	3	76.2	3.38	85.85	0.188	4.78	112	25'	15	EA
98168225	3	76.2	3.38	85.85	0.188	4.78	112	50'	25.5	EA
98168245	4	101.6	4.38	111.25	0.188	4.78	112	25'	26.5	EA
98168250	4	101.6	4.38	111.25	0.188	4.78	112	50'	46.5	EA
98168260	6	152.4	6.38	162.05	0.188	4.78	112	25'	53	EA
98168265	6	152.4	6.38	162.05	0.188	4.78	112	50'	91	EA

DESCRIPTION ABBREVIATION KEY

EPDM = Ethylene Propylene Diene Monome

MEDIUM-DUTY RUBBER DISCHARGE – BULK/UNCOUPLED

Medium-duty rubber discharge hose is designed for light industrial and agricultural applications where a thicker wall and external abrasion resistance is important. EPDM tube is great for transferring diluted chemicals.

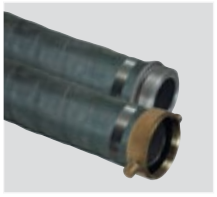
- Tube Material: EPDM
- Cover Material: EPDM
- Cover Color: Black
- Reinforcement: 2 Synthetic Plies
- Temperature: -40°F to 190°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI	STANDARD LENGTH	WEIGHT (LBS)	U/M
13021007	1-1/2	38.1	1.77	44.96	0.135	6.86	150	100'	1.22	FT
13021503	2	50.8	2.32	58.93	0.16	8.13	120	100'	1.46	FT
13022003	2-1/2	63.5	2.8	71.12	0.15	7.62	100	100'	1.7	FT
13023506	3	76.2	3.32	84.33	0.16	8.13	85	100'	2.19	FT
13023606	4	101.6	4.32	109.73	0.16	8.13	75	100'	3.48	FT

MEDIUM-DUTY RUBBER DISCHARGE – PIN LUG ASSEMBLIES

Coupled assemblies with male x female aluminum pin lug short shank couplings and brass spinner nut.

- Tube Material: EPDM
- Cover Material: EPDM
- Fittings: Male x Female Aluminum Pin Lug
- Reinforcement: 2 Synthetic Plies
- Temperature: -40°F to 190°F
- Cover color: Black



PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI	LENGTH	WEIGHT (LBS)	U/M
98138270	1-1/2	38.1	1.77	44.96	0.135	6.86	150	25'	6	EA
98138280	1-1/2	38.1	1.77	44.96	0.135	6.86	150	50'	11.6	EA
98131026	1-1/2	38.1	1.77	44.96	0.135	6.86	150	100'	22.5	EA
98138272	2	50.8	2.32	58.93	0.16	8.13	120	25'	8.2	EA
98138282	2	50.8	2.32	58.93	0.16	8.13	120	50'	15.6	EA
98131029	2	50.8	2.32	58.93	0.16	8.13	120	100'	30.5	EA
98138274	3	76.2	3.32	84.33	0.16	8.13	85	25'	11.5	EA
98138284	3	76.2	3.32	84.33	0.16	8.13	85	50'	21.7	EA
98131032	3	76.2	3.32	84.33	0.16	8.13	85	100'	42.5	EA
98138276	4	101.6	4.32	109.73	0.16	8.13	75	25'	16.2	EA
98138286	4	101.6	4.32	109.73	0.16	8.13	75	50'	29.7	EA
98131035	4	101.6	4.32	109.73	0.16	8.13	75	100'	56.5	EA

MEDIUM-DUTY RUBBER DISCHARGE – CAM LOCK ASSEMBLIES

Coupled assemblies with male x female aluminum cam and groove couplings with brass locking arms.

- Tube Material: EPDM
- Cover Material: EPDM
- Temperature: -40°F to 190°F
- Reinforcement: 2 Synthetic Plies
- Fittings: Male x Female Aluminum Cam Locks

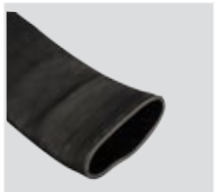
PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI	LENGTH	WEIGHT (LBS)	U/M
98138355	1-1/2	38.1	1.77	44.96	0.135	6.86	150	25'	6	EA
98138356	1-1/2	38.1	1.77	44.96	0.135	6.86	150	50'	11.6	EA
98138357	2	50.8	2.32	58.93	0.16	8.13	120	100'	22.5	EA
98138358	2	50.8	2.32	58.93	0.16	8.13	120	25'	8.2	EA
98138359	3	76.2	3.32	84.33	0.16	8.13	85	50'	15.6	EA
98138360	3	76.2	3.32	84.33	0.16	8.13	85	100'	30.5	EA
98138361	4	101.6	4.32	109.73	0.16	8.13	75	25'	11.5	EA
98138362	4	101.6	4.32	109.73	0.16	8.13	75	50'	21.7	EA

HEAVY-DUTY RUBBER DISCHARGE – BULK/UNCOUPLED

Heavy-duty rubber discharge hose with a high quality EPDM tube and cover that resists abrasion and weathering. Great for abusive applications in the construction, agricultural, mining, and industrial applications.

- Tube Material: EPDM
- Cover Material: EPDM
- Cover Color: Black
- Reinforcement: 4 Synthetic Plies
- Temperature: -40°F to 190°F

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI	STANDARD LENGTH	WEIGHT (LBS)	U/M
13024008	3	76.2	3.43	87.12	0.215	10.92	200	100'	1.46	FT
13024030	3-1/2	88.9	4	101.6	0.25	12.7	150	100'	2.3	FT
13024009	4	101.6	4.45	113.03	0.225	11.43	150	100'	2.19	FT
13024011	6	152.4	6.46	164.08	0.23	11.68	150	100'	3.89	FT
13024117	8	203.2	8.46	214.88	0.23	11.68	150	100'	5.1	FT



WATER TRANSFER KITS

For large volume transfer of water in agricultural, construction, industrial, municipal/government, and rental applications. Also used for dewatering excavations, flood water removal, trash applications, and field irrigation. Ideal for pumping out basements, and garden pond/swimming pool maintenance.

1" KIT WITH POLY FITTINGS & ADAPTER

PART#	WEIGHT (LBS)	U/M
98128609	9.25	EA

- 20' PVC (Green) suction hose with female standard pipe thread fittings
- 25' blue PVC layflat hose with poly male pipe thread x female standard pipe thread fittings
- Poly strainer

1-1/2" & 2" KITS WITH ALUMINUM FITTINGS & POLY ADAPTERS

PART#	WEIGHT (LBS)	U/M
1-1/2"		
98128612	19	EA
2"		
98128615	25	EA

- 20' PVC (Green) suction hose with aluminum male x female pin lug fittings
- 25' blue PVC layflat hose with aluminum male x female pin lug fittings
- Short poly male x male adapters (2)
- Poly strainer

2" KIT WITH ALUMINUM FITTINGS & POLY ADAPTERS

PART#	WEIGHT (LBS)	U/M
98128604	25	EA

- 20' PVC (Green) suction hose with aluminum male x female pin lug fittings
- 25' blue PVC layflat hose with aluminum male x female pin lug fittings
- Short male x male poly nipple
- 90˚ male x female poly elbow
- Poly strainer

2" KIT WITH POLY FITTINGS & ADAPTERS

PART#	WEIGHT (LBS)	U/M
98128600	25	EA

- 20' PVC (Green) suction hose with poly "C" female cam lock and king nipple
- 25' blue PVC layflat hose with poly female cam lock (one end only)
- Straight poly "F" adapter
- 90˚ poly "F" adapter
- Poly strainer

3" & 4" KITS WITH ALUMINUM FITTINGS & POLY ADAPTERS

PART#	WEIGHT (LBS)	U/M
3"		
98128660	42	EA
4"		
98128665	54	EA

- 15' PVC (Green) suction hose with aluminum male x female pin lug fittings
- 25' blue PVC layflat hose with aluminum male x female pin lug fittings
- Round hole steel strainer

TRASH TRANSFER KITS

For large volume transfer of water in agricultural, construction, industrial, municipal/government, and rental applications. Also used for dewatering excavations, flood water removal, trash applications, and field irrigation. Large square holes of strainer allow for larger items to pass through.

PART#	SIZE (IN)	WEIGHT (LBS)	U/M
98128652	1-1/2	14.8	EA
98128657	2	21.5	EA
98128662	3	38	EA

- 15' PVC-G suction hose with aluminum male x female pin lug fittings
- 20' blue PVC layflat hose with aluminum male x female pin lug fittings
- Plated square hole strainer

TUBING & ACCESSORIES

CLEAR VINYL TUBING

NON-REINFORCED CLEAR VINYL – REELS

Clear, flexible, and lightweight polyvinyl chloride tubing that provides full view of flowing product and is great for sight gauges on storage tanks. This compound is rated good to excellent for acids, fair to excellent for alkalies, and excellent for most solvents. Do not use for ketones, esters, and some aromatic hydrocarbons.

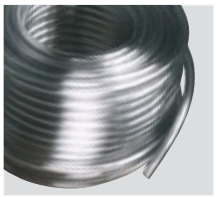
- Tube/Cover Material: Vinyl
- Temperature: -20°F to 150°F
- Cover Color: Clear

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 68°F	STANDARD REEL	WEIGHT (LBS)	U/M
1/16" WALL										
15005560	1/8	3.18	0.25	6.35	0.063	1.59	50	500'	0.02	FT
15005565	3/16	4.76	0.31	7.94	0.063	1.59	50	500'	0.025	FT
15005570	1/4	6.40	0.38	9.53	0.063	1.59	50	400'	0.03	FT
15005574	5/16	15.90	0.44	11.11	0.063	1.59	50	275'	0.038	FT
15005575	3/8	9.50	0.5	12.7	0.063	1.59	40	230'	0.045	FT
15005587	1/2	12.70	0.63	15.88	0.063	1.59	45	150'	0.058	FT
1/8" WALL										
15005572	1/4	6.40	0.5	12.7	0.125	3.18	50	230'	0.077	FT
15005580	3/8	9.50	0.63	15.88	0.125	3.18	40	150'	0.103	FT
15005585	1/2	12.70	0.75	19.05	0.125	3.18	45	75'	0.129	FT
15005590	5/8	15.90	0.88	22.23	0.125	3.18	40	75'	0.155	FT
15005593	5/8	15.90	0.88	22.35	0.125	3.18	40	100'	0.155	FT
15005595	3/4	19.10	1	25.4	0.125	3.18	35	50'	0.18	FT
15005600	1	25.40	1.25	31.75	0.125	3.18	25	40'	0.24	FT

NON-REINFORCED CLEAR VINYL – BOXED

Clear, flexible, and lightweight polyvinyl chloride tubing that provides full view of flowing product and is great for sight gauges on storage tanks. This compound is rated good to excellent for acids, fair to excellent for alkalies, and excellent for most solvents. Do not use for ketones, esters, and some aromatic hydrocarbons.

- Tube/Cover Material: Vinyl
- Temperature: -20°F to 150°F
- Cover Color: Clear



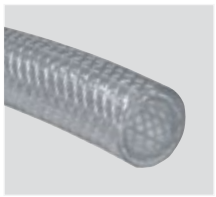
PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 68°F	LENGTH	WEIGHT (LBS)	U/M
1/32" WALL										
15009200	1/8	3.18	0.19	4.76	0.031	0.79	50	100'	1.7	EA
1/16" WALL										
15002018	1/8	3.18	0.25	6.35	0.063	1.59	50	100'	1.9	EA
15002506	3/16	4.76	0.31	7.94	0.063	1.59	50	100'	2.1	EA
15003006	1/4	6.40	0.38	9.53	0.063	1.59	50	100'	3.2	EA
15003500	8/16	15.9	0.44	11.11	0.063	1.59	50	100'	3.85	EA
15004002	3/8	9.5	0.5	12.70	0.063	1.59	40	100'	4.5	EA
15004509	1/2	12.7	0.63	15.88	0.063	1.59	25	100'	5.8	EA
1/8" WALL										
15005009	1/4	6.4	0.5	12.70	0.125	3.18	70	100'	7.7	EA
15005120	5/16	15.9	0.56	14.29	0.125	3.18	60	100'	9.1	EA
15005505	3/8	9.5	0.63	15.88	0.125	3.18	60	100'	10.3	EA
15006005	1/2	12.7	0.75	19.05	0.125	3.18	45	100'	12.9	EA
15006501	5/8	15.9	0.88	22.23	0.125	3.18	40	100'	15.5	EA
15007001	3/4	19.1	1	25.40	0.125	3.18	35	50'	9.2	EA
15007008	3/4	19.1	0.13	3.18	0.125	3.18	35	100'	18	EA
15007508	7/8	22.23	0.13	3.18	0.125	3.18	30	100'	22	EA
15008008	1	25.4	1.25	31.75	0.125	3.18	25	50'	12.1	EA
15008012	1	25.4	0.13	3.18	0.125	3.18	25	100'	24	EA
1/4" WALL										
15008055	1-1/4	31.75	0.25	6.35	0.25	6.35	40	100'	32	EA
15008910	1-1/2	38.1	0.25	6.35	0.25	6.35	35	100'	38	EA
15009027	2	50.8	0.25	6.35	0.25	6.35	30	100'	46	EA

REINFORCED CLEAR VINYL – BULK

Reinforced clear polyvinyl chloride tubing designed for applications that require full view of product flow and higher working pressures than non-reinforced tubing. This compound is rated good to excellent for acids, fair to excellent for alkalies, and excellent for most solvents. Do not use for ketones, esters, and some aromatic hydrocarbons.

- Tube/Cover Material: Vinyl
- Reinforcement: Braided Synthetic Cord
- Temperature: -20°F to 150°F
- Cover Color: Clear

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX PSI @ 68°F	MIN. BEND RADIUS (IN) @ 68°F"	STANDARD REEL	WEIGHT (LBS)	U/M
15011505	1/4	6.4	0.44	11.13	N/A	N/A	250	3	300'	0.056	FT
15012501	3/8	9.5	0.59	15.09	N/A	N/A	225	4	300'	0.092	FT
15013001	1/2	12.7	0.75	19.05	N/A	N/A	200	5	300'	0.135	FT
15013508	5/8	15.9	0.88	22.23	N/A	N/A	200	6	300'	0.162	FT
15014008	3/4	19.	1.03	26.04	N/A	N/A	150	7	300'	0.211	FT
15014504	1	25.40	1.31	33.32	N/A	N/A	150	9	200'	0.312	FT
15015004	1-1/4	31.75	1.66	42.06	N/A	N/A	100	12	100'	0.51	FT
15015500	1-1/2	38.1	1.94	49.2	N/A	N/A	100	15	100'	0.65	FT
15015608	2	50.8	2.5	63.5	N/A	N/A	75	18	100'	0.98	FT
SPECIAL 150#											
15005646	1/4	6.4	0.44	11.13	0.125	3.18	150	3	300'	0.056	FT
15005648	3/8	9.5	0.59	15.09	0.125	3.18	150	4	300'	0.092	FT
15005650	1/2	12.7	0.75	19.05	0.125	3.18	150	5	300'	0.135	FT



REINFORCED CLEAR VINYL – REELS

Reinforced clear polyvinyl chloride tubing designed for applications that require full view of product flow and higher working pressures than non-reinforced tubing. This compound is rated good to excellent for acids, fair to excellent for alkalies, and excellent for most solvents. Do not use for ketones, esters, and some aromatic hydrocarbons.

- Tube/Cover Material: Vinyl
- Reinforcement: Braided Synthetic Cord
- Temperature: -20°F to 150°F
- Cover Color: Clear

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX PSI @ 68°F	MIN BEND RADIUS @ 68°F	STANDARD REEL	WEIGHT (LBS)	U/M
15005610	1/4	6.4	0.5	12.7	0.125	3.18	250	3	200'	0.06	FT
15005615	3/8	9.5	0.63	15.88	0.125	3.18	225	4	150'	0.09	FT
15005620	1/2	12.7	0.75	19.05	0.125	3.18	200	5	75'	0.14	FT
15005625	5/8	15.9	0.88	22.23	0.125	3.18	200	6	75'	0.16	FT
15005630	3/4	19.1	1	25.4	0.125	3.18	150	7	75'	0.21	FT
15005635	1	25.4	1.25	31.75	0.125	3.18	150	9	30'	0.31	FT

REINFORCED CLEAR VINYL – COILS

Reinforced clear polyvinyl chloride tubing designed for applications that require full view of product flow and higher working pressures than non-reinforced tubing. This compound is rated good to excellent for acids, fair to excellent for alkalies, and excellent for most solvents. Do not use for ketones, esters, and some aromatic hydrocarbons.

- Tube/Cover Material: Vinyl
- Reinforcement: Braided Synthetic Cord
- Temperature: -20°F to 150°F
- Cover Color: Clear
- Standard Packaging: Shrinkwrapped

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 68°F	MIN. BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
15010978	3/8	9.5	0.59	15.09	225	4	25'	2.25	EA
15010979	3/8	9.5	0.59	15.09	225	4	50'	4.5	EA
15010980	3/8	9.5	0.59	15.09	225	4	100'	9	EA
15010983	1/2	12.7	0.75	19.05	200	5	25'	3.5	EA
15010984	1/2	12.7	0.75	19.05	200	5	50'	7	EA
15010985	1/2	12.7	0.75	19.05	200	5	100'	14	EA
15010988	5/8	15.9	0.88	22.23	200	6	25'	4	EA
15010989	5/8	15.9	0.88	22.23	200	6	50'	8	EA
15010990	5/8	15.9	0.88	22.23	200	6	100'	16	EA
15010998	3/4	19.1	1.03	26.04	150	7	25'	5.25	EA
15010999	3/4	19.1	1.03	26.04	150	7	50'	10.5	EA
15011000	3/4	19.1	1.03	26.04	150	7	100'	21	EA
15011003	1	25.4	1.31	33.32	125	9	25'	7.75	EA
15011004	1	25.4	1.31	33.32	125	9	50'	15.5	EA
15011005	1	25.4	1.31	33.32	125	9	100'	31	EA

EVA TUBING

DESCRIPTION ABBREVIATION KEY

EVA = Ethyl Vinyl Acetate

NON-REINFORCED NATURAL EVA – BULK

Ethyl Vinyl Acetate (EVA) plastic tubing is weather resistant and has a chemical resistance to most insecticides and herbicides including Monsanto's Lasso®. This tubing is most commonly used in the application of liquid fertilizers, phosphates, and the "open end" discharge of anhydrous ammonia. Do not use this tubing for anhydrous ammonia under pressure.

- Tube/Cover Material: EVA
- Temperature: -50°F to 125°F
- Cover Color: Natural Translucent

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 75°F	MIN. BEND RADIUS (IN) @ 68°F	WEIGHT (LBS)	U/M
15015610	1/4	6.40	0.5	12.7	0.125	3.18	120	1.75	0.04	FT
15016000	3/8	9.50	0.625	15.875	0.125	3.18	120	1.75	0.056	FT
15016507	7/16	11.11	0.688	17.463	0.125	3.18	120	2.75	0.062	FT
15017007	1/2	12.7	0.75	19.05	0.125	3.18	120	3	0.071	FT
15017252	5/8	15.9	0.875	22.225	0.125	3.18	120	3.5	0.078	FT
15017503	3/4	19.1	1	25.4	0.125	3.18	120	3.5	0.14	FT
15018003	1	25.4	1.25	31.750	0.125	3.18	120	6	0.24	FT

NON-REINFORCED NATURAL EVA – REELS

Ethyl Vinyl Acetate (EVA) plastic tubing is weather resistant and has a chemical resistance to most insecticides and herbicides including Monsanto's Lasso®. This tubing is most commonly used in the application of liquid fertilizers, phosphates, and the "open end" discharge of anhydrous ammonia. Do not use this tubing for anhydrous ammonia under pressure.

- Tube/Cover Material: EVA
- Temperature: -50°F to 125°F
- Cover Color: Natural Translucent

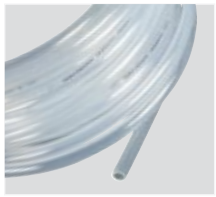
PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 75°F	MIN. BEND RADIUS (IN) @ 68°F	STANDARD REEL	WEIGHT (LBS)	U/M
15015630	3/8	9.5	0.625	15.875	0.125	3.18	120	1.75	250'	0.056	FT
15016002	3/8	9.5	0.625	15.875	0.125	3.18	120	1.75	500'	0.056	FT
15015635	1/2	12.7	0.75	19.05	0.125	3.18	120	3	250'	0.071	FT
15017009	1/2	12.7	0.75	19.05	0.125	3.18	120	3	350'	0.071	FT
15017505	3/4	19.1	1	25.4	0.125	3.18	120	3	200'	0.14	FT

NON-REINFORCED NATURAL EVA – BOXED

Ethyl Vinyl Acetate (EVA) plastic tubing is weather resistant and has a chemical resistance to most insecticides and herbicides including Monsanto's Lasso®. This tubing is most commonly used in the application of liquid fertilizers, phosphates, and the "open end" discharge of anhydrous ammonia. Do not use this tubing for anhydrous ammonia under pressure.

- Tube/Cover Material: EVA
- Temperature: -50°F to 125°F
- Cover Color: Natural Translucent
- Packaging: Box

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 75°F	MIN. BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
15018525	3/8	9.5	0.625	15.875	0.125	3.18	120	1.75	100'	8.5	EA
15018530	1/2	12.7	0.75	19.05	0.125	3.18	120	3	100'	10	EA
15018535	5/8	15.9	0.875	22.225	0.125	3.18	120	3.5	100'	12	EA
15018534	3/4	19.1	1	25.4	0.125	3.18	120	3.5	100'	14	EA
15018537	1	25.4	1.25	31.75	0.125	3.18	120	6	100'	24	EA
15018536	1	25.4	1.312	33.325	0.156	3.96	120	7	100'	30	EA

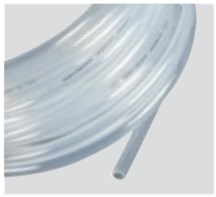


NON-REINFORCED NATURAL EVA – COILS

Ethyl Vinyl Acetate (EVA) plastic tubing is weather resistant and has a chemical resistance to most insecticides and herbicides including Monsanto's Lasso®. This tubing is most commonly used in the application of liquid fertilizers, phosphates, and the "open end" discharge of anhydrous ammonia. Do not use this tubing for anhydrous ammonia under pressure.

- Tube/Cover Material: EVA
- Temperature: -50°F to 125°F
- Cover Color: Natural Translucent

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 75°F	MIN. BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
15018610	3/8	9.5	0.625	15.875	0.125	3.18	120	1.75	10'	0.6	EA
15018622	3/8	9.5	0.625	15.875	0.125	3.18	120	1.75	25'	2.1	EA
15018632	3/8	9.5	0.625	15.875	0.125	3.18	120	1.75	50'	4.3	EA
15018612	1/2	12.7	0.75	19.05	0.125	3.18	120	3	10'	0.7	EA
15018624	1/2	12.7	0.75	19.05	0.125	3.18	120	3	25'	2.5	EA
15018634	1/2	12.7	0.75	19.05	0.125	3.18	120	3	50'	5	EA
15018614	5/8	15.9	0.875	22.225	0.125	3.18	120	5	10'	1.0	EA
15018625	5/8	15.9	0.875	22.225	0.125	3.18	120	5	25'	2.5	EA
15018635	5/8	15.9	0.875	22.225	0.125	3.18	120	5	50'	4.55	EA
15018616	3/4	19.1	1	25.4	0.125	3.18	120	3.5	10'	1.7	EA
15018626	3/4	19.1	1	25.4	0.125	3.18	120	3.5	25'	3.5	EA
15018636	3/4	19.1	1	25.4	0.125	3.18	120	3.5	50'	7	EA
15018628	1	25.4	1.25	31.75	0.125	3.18	120	6	25'	6	EA
15018638	1	25.4	1.25	31.75	0.125	3.18	120	6	50'	12	EA
15018050	1	25.4	1.25	31.75	0.156	3.96	120	7	100'	29.95	EA

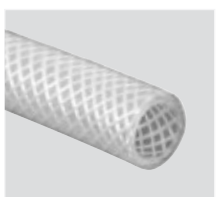


REINFORCED NATURAL EVA – BULK

Reinforced Ethyl Vinyl Acetate (EVA) plastic tubing has a higher working pressure, and is more kink resistant than non-reinforced EVA. All EVA is weather resistant and has a chemical resistance to most insecticides and herbicides, including Monsanto's Lasso®. This tubing is most commonly used in the application of liquid fertilizers, phosphates, and the "open end" discharge of anhydrous ammonia. Do not use this tubing for anhydrous ammonia under pressure.

- Tube/Cover Material: EVA
- Reinforcement: Braided Synthetic Cord
- Temperature: -50°F to 125°F
- Cover Color: Natural Translucent

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 75°F	MIN. BEND RADIUS (IN) @ 68°F	WEIGHT (LBS)	U/M
15018559	1/4	6.4	0.39	9.78	250	3	0.03	FT
15018560	3/8	9.5	0.59	15.06	250	4	0.101	FT
15018570	1/2	12.7	0.72	18.29	250	4	0.123	FT
15018572	5/8	15.9	0.87	22.1	200	5	0.118	FT
15018574	3/4	19.1	1	25.4	150	7	0.161	FT
15018576	1	25.4	1.31	33.32	150	9	0.247	FT



DESCRIPTION ABBREVIATION KEY

EVA = Ethyl Vinyl Acetate

DESCRIPTION ABBREVIATION KEY

EVA = Ethyl Vinyl Acetate

REINFORCED NATURAL EVA – COILS

Reinforced Ethyl Vinyl Acetate (EVA) plastic tubing has a higher working pressure, and is more kink resistant than non-reinforced EVA. All EVA is weather resistant and has a chemical resistance to most insecticides and herbicides, including Monsanto's Lasso®. This tubing is most commonly used in the application of liquid fertilizers, phosphates, and the "open end" discharge of anhydrous ammonia. Do not use this tubing for anhydrous ammonia under pressure.

- Tube/Cover Material: EVA
- Temperature: -50°F to 125°F
- Reinforcement: Braided Synthetic Cord
- Cover Color: Natural Translucent

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 75°F	MIN. BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
15018580	3/8	9.5	0.59	15.06	250	4	10'	1	EA
15018581	1/2	12.7	0.72	18.29	250	4	10'	1.2	EA
15018587	5/8	15.9	0.87	22.1	150	5	10'	1.4	EA
15018578	3/4	19.1	1	25.4	150	7	10'	1.6	EA
15018582	1	25.4	1.31	33.32	150	9	10'	2.5	EA
15018590	1/2	12.7	0.72	18.29	250	4	50'	6	EA
15018592	5/8	15.9	0.87	22.1	250	5	50'	7	EA
15018591	3/4	19.1	1	25.4	150	7	50'	8	EA
15018598	1	25.4	1.31	33.32	150	9	50'	12.5	EA

NON-REINFORCED BLACK EVA – BULK

Black Ethyl Vinyl Acetate (EVA) plastic tubing has greater UV and Ozone resistance than natural EVA tubing, while retaining its chemical resistance to most insecticides and herbicides, including Monsanto's Lasso®. This tubing is most commonly used in the application of liquid fertilizers, phosphates, and the "open end" discharge of anhydrous ammonia. Do not use this tubing for anhydrous ammonia under pressure

- Tube/Cover Material: EVA
- Temperature: -50°F to 125°F
- Cover Color: Black

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 75°F	MIN. BEND RADIUS (IN) @ 68°F	WEIGHT (LBS)	U/M
15016007	3/8	9.5	0.625	15.875	0.125	3.18	120	1.75	0.06	FT
15016008	1/2	12.7	0.75	19.05	0.125	3.18	120	3	0.07	FT

BLACK "LONGLIFE" REINFORCED EVA – BULK

Reinforced black "Longlife" Ethyl Vinyl Acetate (EVA) plastic tubing has a higher working pressure, and is more kink resistant than non-reinforced EVA. It has greater UV and Ozone resistance than natural EVA tubing, while retaining its chemical resistance to most insecticides and herbicides, including Monsanto's Lasso®. This tubing is most commonly used in the application of liquid fertilizers, phosphates, and the "open end" discharge of anhydrous ammonia. Do not use this tubing for anhydrous ammonia under pressure.

- Tube/Cover Material: EVA
- Temperature: -50°F to 125°F
- Standard Reel: 300'
- Reinforcement: Braided Synthetic Cord
- Cover Color: Black

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	MAX. PSI @ 75°F	MIN. BEND RADIUS (IN) @ 68°F	WEIGHT (LBS)	U/M
15018540	3/8	9.5	0.59	15.06	250	4	0.1	FT
15018543	1/2	12.7	0.72	18.29	250	4	0.12	FT
15018546	3/4	19.1	1	25.4	150	7	0.16	FT

POLYURETHANE – REEL

This polyurethane tubing is used in place of low density polyethylene where higher tensile strength, higher burst pressure, and more stress resistance is desired. It has a 50 Shore D hardness which makes it suitable for push-in and compression fittings.

- Tube/Cover Material: Polyurethane
- Reinforcement: Non-Reinforced
- Temperature: -40°F to 150°F
- Cover Color: Clear

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 75°F	MIN. BEND RADIUS (IN) @ 68°F	STD. REEL	WEIGHT (LBS)	U/M
15009266	1/6	4.32	1/4	6.35	0.04	1.016	200	1.25	600'	13.2	FT
15009268	1/5	4.75	5/16	7.94	0.062	1.575	230	1.5	400'	10.8	FT
15009270	1/4	6.35	3/8	9.53	0.062	1.575	190	2	300'	11.4	FT
15009272	3/8	9.53	1/2	12.7	0.062	1.575	135	2.5	150'	6.75	FT

POLYURETHANE – BOXED

This polyurethane tubing is used in place of low density polyethylene where higher tensile strength, higher burst pressure, and more stress resistance is desired. It has a 50 Shore D hardness which makes it suitable for push-in and compression fittings.

- Tube/Cover Material: Polyurethane
- Reinforcement: Non-Reinforced
- Temperature: -40°F to 150°F
- Cover Color: Clear

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 75°F	MIN. BEND RADIUS (IN) @ 68°F	LENGTH	WEIGHT (LBS)	U/M
15009285	1/4	6.35	3/8	9.53	0.062	1.575	190	2.00	100'	3.8	FT

POLYETHYLENE LOW DENSITY (BLACK) – BULK

This black polyethylene tubing is extruded to precise standards from high quality "low density polyethylene" resin. It has superior environmental stress rack resistance that greatly exceeds ordinary polyethylene tubing as measured by ASTMD 1963/IGEPAL tests. It is tasteless and odorless, and available in a variety of colors. All colors, except red, are approved for food handling and are compliant with NGS 51/FDS. Polyethylene tubing is the most used and cost effective of all pneumatic tubing on the market.

- Tube/Cover Material: Low Density Polyethylene
- Reinforcement: Non-Reinforced
- Temperature: -20°F to 150°F
- Cover Color: Black

PART#	ID (IN)	ID (MM)	OD (IN)	OD (MM)	WALL (IN)	WALL (MM)	MAX. PSI @ 75°F	MIN. BEND RADIUS (IN) @ 68°F	STANDARD REEL	WEIGHT (LBS)	U/M
15018882	11/64	5.334	0.25	6.35	0.04	1.016	200	1.25	100'	2.2	FT
15018883	11/64	5.334	0.25	6.35	0.04	1.016	200	1.25	500'	2.2	FT
15018884	11/64	5.334	0.25	6.35	0.04	1.016	200	1.25	1000'	2.2	FT
15018885	3/16	6.3627	0.313	7.9375	0.062	1.5748	200	1.5	100'	2.7	FT
15018886	3/16	6.3627	0.313	7.9375	0.062	1.5748	200	1.5	500'	2.7	FT
15018887	1/4	7.9502	0.375	9.525	0.062	1.5748	190	2	100'	3.8	FT
15018889	1/4	7.9502	0.375	9.525	0.062	1.5748	190	2	500'	3.8	FT
15018893	3/8	11.1252	0.500	12.7	0.062	1.5748	135	2.5	100'	4.5	FT
15018894	3/8	11.1252	0.500	12.7	0.062	1.5748	135	2.5	250'	4.5	FT

MALE POLY FITTINGS AND ADAPTERS

Push-in tube fittings are made from acetal copolymer and have a stainless steel collet that ensures superior clamping with various types of tubing, such as polyethylene, nylon, and polyurethane. These fittings are NSF 51 and 61 approved, and are typically used in pneumatic applications like robotics, conveyer systems, and any system requiring the transfer of low pressure compressed air and water.

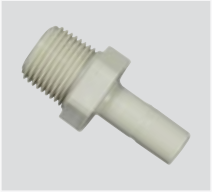
CONNECTOR

PART#	TUBE OD (IN)	MALE PIPE THREAD (IN)	THREAD	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M	ORDER QUANTITY
44103220	1/4	1/8	1/8 Male Pipe Thread	230	0.016	EA	10 per Bag
44103206	1/4	1/4	1/4 Male Pipe Thread	230	0.018	EA	10 per Bag
44103221	1/4	3/8	3/8 Male Pipe Thread	170	0.023	EA	10 per Bag
44103222	5/16	1/4	1/4 Male Pipe Thread	230	0.02	EA	10 per Bag
44103223	5/16	3/8	3/8 Male Pipe Thread	170	0.024	EA	10 per Bag
44103224	3/8	1/4	1/4 Male Pipe Thread	170	0.031	EA	10 per Bag
44103207	3/8	3/8	3/8 Male Pipe Thread	170	0.027	EA	10 per Bag
44103225	3/8	1/2	1/2 Male Pipe Thread	170	0.042	EA	10 per Bag
44103226	1/2	3/8	3/8 Male Pipe Thread	170	0.041	EA	10 per Bag
44103227	1/2	1/2	1/2 Male Pipe Thread	170	0.044	EA	10 per Bag

90° ELBOW

PART#	TUBE OD (IN)	MALE PIPE THREAD (IN)	THREAD	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M	ORDER QUANTITY
44103210	1/4	1/8	1/8 Male Pipe Thread	230	0.018	EA	10 per Bag
44103211	1/4	1/4	1/4 Male Pipe Thread	230	0.02	EA	10 per Bag
44103295	1/4	3/8	3/8 Male Pipe Thread	170	0.022	EA	10 per Bag
44103228	5/16	1/4	1/4 Male Pipe Thread	230	0.033	EA	10 per Bag
44103229	5/16	3/8	3/8 Male Pipe Thread	170	0.033	EA	10 per Bag
44103230	3/8	1/4	1/4 Male Pipe Thread	170	0.033	EA	10 per Bag
44103231	3/8	3/8	3/8 Male Pipe Thread	170	0.033	EA	10 per Bag
44103232	1/2	3/8	3/8 Male Pipe Thread	170	0.033	EA	10 per Bag
44103233	1/2	3/8	3/8 Male Pipe Thread	170	0.033	EA	10 per Bag

STEM ADAPTER



PART#	TUBE OD (IN)	MALE PIPE THREAD (IN)	THREAD	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M	ORDER QUANTITY
44103204	1/4	1/8	1/8 Male Pipe Thread	230	0.011	EA	10 per Bag
44103212	1/4	1/4	1/4 Male Pipe Thread	230	0.016	EA	10 per Bag
44103213	5/16	1/4	1/4 Male Pipe Thread	230	0.023	EA	10 per Bag
44103214	5/16	3/8	3/8 Male Pipe Thread	170	0.028	EA	10 per Bag
44103215	3/8	1/4	1/4 Male Pipe Thread	170	0.023	EA	10 per Bag
44103205	3/8	3/8	3/8 Male Pipe Thread	170	0.026	EA	10 per Bag
44103216	1/2	3/8	3/8 Male Pipe Thread	170	0.035	EA	10 per Bag
44103217	1/2	1/2	1/2 Male Pipe Thread	170	0.045	EA	10 per Bag

FEMALE ADAPTER

Push-in tube fittings are made from acetal copolymer and have a stainless steel collet that ensures superior clamping with various types of tubing, such as polyethylene, nylon, and polyurethane. These fittings are NSF 51 and 61 approved, and are typically used in pneumatic applications like robotics, conveyer systems, and any system requiring the transfer of low pressure compressed air and water.

PART#	TUBE OD (IN)	FEMALE PIPE THREAD (IN)	THREAD	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M	ORDER QUANTITY
44103239	1/4	1/8	1/8 Female Pipe Thread	230	0.015	EA	10 per Bag
44103240	1/4	1/4	1/4 Female Pipe Thread	230	0.015	EA	10 per Bag
44103241	5/16	1/8	1/8 Female Pipe Thread	230	0.015	EA	10 per Bag
44103242	5/16	1/4	1/4 Female Pipe Thread	230	0.02	EA	10 per Bag
44103243	3/8	1/8	1/8 Female Pipe Thread	170	0.015	EA	10 per Bag
44103244	3/8	1/4	1/4 Female Pipe Thread	170	0.015	EA	10 per Bag

UNION POLY FITTINGS & ADAPTERS

Push-in tube fittings are made from acetal copolymer and have a stainless steel collet that ensures superior clamping with various types of tubing, such as polyethylene, nylon, and polyurethane. These fittings are NSF 51 and 61 approved, and are typically used in pneumatic applications like robotics, conveyer systems, and any system requiring the transfer of low pressure compressed air and water.

CONNECTOR

PART#	TUBE OD (IN)	TUBE 2 OD (IN)	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M	ORDER QUANTITY
44103202	1/4	1/4	230	0.021	EA	10 per Bag
44103265	5/16	1/4	230	0.01	EA	10 per Bag
44103266	5/16	5/16	230	0.031	EA	10 per Bag
44103203	3/8	3/8	170	0.035	EA	10 per Bag
44103267	3/8	1/4	170	0.036	EA	10 per Bag
44103268	3/8	3/8	170	0.036	EA	10 per Bag
44103270	1/2	3/8	170	0.049	EA	10 per Bag
44103271	1/2	1/2	170	0.051	EA	10 per Bag

98° ELBOW

PART#	TUBE OD (IN)	TUBE 2 OD (IN)	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M	ORDER QUANTITY
44103200	1/4	1/4	230	0.019	EA	10 per Bag
44103234	5/16	1/4	230	0.03	EA	10 per Bag
44103235	5/16	5/16	230	0.032	EA	10 per Bag
44103236	3/8	1/4	170	0.025	EA	10 per Bag
44103201	3/8	3/8	170	0.045	EA	10 per Bag
44103237	1/2	3/8	170	0.069	EA	10 per Bag
44103238	1/2	1/2	170	0.065	EA	10 per Bag

T ADAPTER

PART#	RUN OD (IN)	STEM OD (IN)	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M	ORDER QUANTITY
44103208	1/4	1/4	230	0.029	EA	10 per Bag
44103245	5/16	5/16	230	0.044	EA	10 per Bag
44103209	3/8	3/8	170	0.029	EA	10 per Bag
44103246	3/8	1/4	170	0.063	EA	10 per Bag
44103248	1/2	1/2	170	0.094	EA	10 per Bag
44103247	1/2	3/8	170	0.098	EA	10 per Bag

TWO WAY DIVIDER

PART#	TUBE OD (IN)	TUBE 2 OD (IN)	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M	ORDER QUANTITY
44103276	1/4	230	0.015	0.15	EA	10 per Bag
44103277	5/16	230	0.025	0.25	EA	10 per Bag
44103279	3/8	170	0.055	0.552	EA	10 per Bag
44103281	1/2	170	0.055	0.552	EA	10 per Bag

FOUR WAY CROSS

PART#	TUBE OD (IN)	TUBE 2 OD (IN)	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M	ORDER QUANTITY
44103272	1/4	230	0.034	0.335	EA	10 per Bag
44103273	5/16	230	0.061	0.605	EA	10 per Bag
44103274	3/8	170	0.061	0.605	EA	10 per Bag
44103275	1/2	170	0.034	0.335	EA	10 per Bag

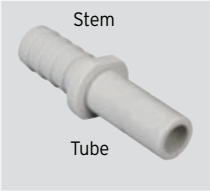
END STOP

Push-in tube fittings are made from acetal copolymer and have a stainless steel collet that ensures superior clamping with various types of tubing, such as polyethylene, nylon, and polyurethane. These fittings are NSF 51 and 61 approved, and are typically used in pneumatic applications like robotics, conveyer systems, and any system requiring the transfer of low pressure compressed air and water.

PART#	TUBE OD (IN)	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M	ORDER QUANTITY
44103282	1/4	230	0.10	EA	10 per Bag
44103283	5/16	230	0.1	EA	10 per Bag
44103284	3/8	170	0.15	EA	10 per Bag
44103285	1/2	170	0.2	EA	10 per Bag

BARB CONNECTOR

Push-in tube fittings are made from acetal copolymer and have a stainless steel collet that ensures superior clamping with various types of tubing, such as polyethylene, nylon, and polyurethane. These fittings are NSF 51 and 61 approved, and are typically used in pneumatic applications like robotics, conveyer systems, and any system requiring the transfer of low pressure compressed air and water.



PART#	TUBE OD (IN)	STEM OD (IN)	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M	ORDER QUANTITY
44103255	1/4	1/4	230	0.01	EA	10 per Bag
44103256	1/4	5/16	230	0.01	EA	10 per Bag
44103257	1/4	5/16	230	0.01	EA	10 per Bag
44103258	5/16	5/16	230	0.01	EA	10 per Bag
44103259	3/8	5/16	170	0.011	EA	10 per Bag
44103260	3/8	1/4	170	0.01	EA	10 per Bag
44103261	3/8	3/8	170	0.013	EA	10 per Bag
44103262	1/2	3/8	170	0.01	EA	10 per Bag
44103263	3/8	1/2	170	0.017	EA	10 per Bag
44103264	1/2	1/2	170	0.017	EA	10 per Bag

BARB CONNECTOR 90° ELBOW

Push-in tube fittings are made from acetal copolymer and have a stainless steel collet that ensures superior clamping with various types of tubing, such as polyethylene, nylon, and polyurethane. These fittings are NSF 51 and 61 approved, and are typically used in pneumatic applications like robotics, conveyer systems, and any system requiring the transfer of low pressure compressed air and water.

PART#	TUBE OD (IN)	STEM OD (IN)	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M	ORDER QUANTITY
44103249	1/4	1/4	230	0.084	EA	10 per Bag
44103251	1/4	5/16	230	0.096	EA	10 per Bag
44103253	1/4	3/8	170	0.01	EA	10 per Bag
44103250	5/16	1/4	230	0.096	EA	10 per Bag
44103252	5/16	5/16	230	0.093	EA	10 per Bag
44103254	5/16	3/8	170	0.01	EA	10 per Bag

POLY VALVES

Push-in tube fittings are made from acetal copolymer and have a stainless steel collet that ensures superior clamping with various types of tubing, such as polyethylene, nylon, and polyurethane. These fittings are NSF 51 and 61 approved, and are typically used in pneumatic applications like robotics, conveyer systems, and any system requiring the transfer of low pressure compressed air and water.

CONTROL VALVE

PART#	TUBE OD (IN)	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
44103286	1/4	230	0.046	EA
44103287	3/8	170	0.051	EA

HAND VALVE

PART#	TUBE OD (IN)	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
44103288	1/4	230	0.05	EA
44103289	3/8	170	0.056	EA
44103290	1/2	170	0.065	EA

TUBE CHECK VALVE

PART#	TUBE OD (IN)	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
44103291	1/4	230	0.03	EA
44103292	5/16	230	0.041	EA
44103293	3/8	170	0.058	EA
44103294	1/2	170	0.05	EA

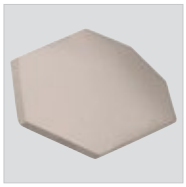
MINIATURE POLY-TUBE CUTTER

Miniature poly-tube cutter is sized for convenience. The precision cutter makes quick, clean cuts on all plastic tubing up to 1/2" O.D., making it small enough to carry, but large enough to handle the job. Cutter blades, sold separately, are easily replaceable and come in packs of 5.

PART#	WEIGHT (LBS)	U/M
44103218	0.5	EA

REPLACEMENT BLADES FOR CUTTER

Replacement blades for the miniature poly-tube cutter. Available in packs of 5.



PART#	WEIGHT (LBS)	ORDER QUANTITY	U/M
44103219	0.25	5 PER BOX	EA

COUPLINGS & FITTINGS

ALUMINUM FEMALE FITTINGS

Pin lug (short shank) couplings are designed for use on low pressure suction and discharge hose applications. The female coupling has a brass pin lug nut for easy tightening by hand or with a spanner wrench. Coupling comes complete with a replaceable gasket.

PART#	SIZE (IN)	SIZE (MM)	FEMALE PIPE THREAD	WEIGHT (LBS)	U/M
43074504	1-1/2	38.1	1-1/2	0.38	EA
43076000	2	50.8	2	0.62	EA
43076015	2-1/2	63.5	2-1/2	1.1	EA
43077252	3	76.2	3	1.66	EA
43077279	4	101.6	4	2.72	EA
43077295	6	152.4	6	5.26	EA

ALUMINUM MALE FITTINGS

Pin lug (short shank) couplings are designed for use on low pressure suction and discharge hose applications. .

PART#	SIZE (IN)	SIZE (MM)	MALE PIPE THREAD	WEIGHT (LBS)	U/M
43074008	1-1/2	38.1	1-1/2	0.18	EA
43075500	2	50.8	2	0.26	EA
43076010	3-1/2	63.5	2-1/2	0.94	EA
43077007	3	76.2	3	1.04	EA
43077260	4	101.6	4	1.7	EA
43077287	6	152.4	6	3.04	EA

ALUMINUM MALE X FEMALE SET

Pin lug (short shank) couplings are designed for use on low pressure suction and discharge hose applications. The female coupling has a brass pin lug nut for easy tightening by hand or with a spanner wrench. Coupling set comes complete with a replaceable gasket.

PART#	SIZE (IN)	SIZE (MM)	MALE PIPE THREAD	FEMALE PIPE THREAD	WEIGHT (LBS)	U/M
97438100	1-1/2	38.1	1-1/2	1-1/2	0.56	EA
97438105	2	50.8	2	2	0.88	EA
97438106	2-1/2	63.5	2-1/2	2-1/2	1.9	EA
97438107	3	76.2	3	3	2.7	EA
97438108	4	101.6	4	4	4.42	EA
97438109	6	152.4	6	6	8.3	EA

EPDM GASKETS

These EPDM gaskets are sized specifically for pin lug (short shank) fittings, and provide an easy seal with minimal tightening.

PART#	SIZE (IN)	SIZE (MM)	PACKAGED QUANTITY	WEIGHT (LBS)	U/M
43081276	1-1/4	31.75	1	0.01	EA
43081284	1-1/2	38.1	1	0.01	EA
97433100	1-1/2	38.1	2	0.04	EA
97438146	1-1/2	38.1	4	0.15	EA
43081292	2	50.8	1	0.02	EA
97433105	2	50.8	2	0.06	EA
97438148	2	50.8	4	0.21	EA
43081306	2-1/2	63.5	1	0.04	EA
43081314	3	76.2	1	0.05	EA
97433110	3	76.2	2	0.12	EA
97438150	3	76.2	4	0.22	EA
43081349	4	101.6	1	0.06	EA
43081381	6	152.4	1	0.08	EA

SPANNER WRENCH – SINGLE END

The single end spanner wrench is constructed of durable plated iron, and is designed specifically for tightening or loosening pin lug fittings.

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
43105507	1-1/2	38.1	0.79	EA
43106007	2	50.8	0.88	EA
43107003	3	76.2	1.1	EA
43107518	4	101.6	1.25	EA
43107520	6	152.4	4.5	EA

SPANNER WRENCH – DOUBLE END

The double end spanner wrench is constructed of durable plated iron and is designed specifically for tightening or loosening pin lug fittings. Fits four fitting sizes (1-1/2", 2", 2-1/2", 3") for half the cost of purchasing four individual wrenches.

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
43107521	1-1/2	38.1	0.84	EA
	2	50.8	0.84	EA
	2 1/2	63.5	0.84	EA
	3	76.2	0.84	EA

KING NIPPLES – PLATED STEEL

Plated steel king nipples are designed for suction and discharge applications that require a tapered pipe thread connection. Its plated finish provides rust and corrosion resistance. Clamps are required to attach to hose.

PART#	SIZE (IN)	SIZE (MM)	MALE PIPE THREAD	WEIGHT (LBS)	U/M
43050555	1/2	12.7	1/2	0.14	EA
43050560	3/4	19.05	3/4	0.2	EA
43050565	1	25.4	1	0.32	EA
43050570	1-1/4	31.75	1-1/4	0.56	EA
43050575	1-1/2	38.1	1-1/2	0.72	EA
43050580	2	50.8	2	1.1	EA
43050585	2-1/2	63.5	2-1/2	1.74	EA
43050590	3	76.2	3	2.14	EA
43050600	4	101.6	4	3.06	EA
43050610	5	127	5	4.2	EA
43050620	6	152.4	6	12.24	EA
43050630	8	203.2	8	16.44	EA

HOSE MENDERS – PLATED STEEL

Plated steel hose menders are designed to repair or splice damaged hose. Its plated finish provides rust and corrosion resistance. Clamps are required to attach to hose.

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
43039008	1/2	12.7	0.07	EA
43039504	3/4	19.05	0.13	EA
43040006	1	25.4	0.27	EA
43040502	1-1/4	31.75	0.4	EA
43041002	1-1/2	38.1	0.44	EA
43041509	2	50.8	0.7	EA
43042009	2-1/2	63.5	0.95	EA
43042505	3	76.2	1.44	EA
43043005	4	101.6	4.39	EA
43043115	5	127	6.2	EA
43043501	6	152.4	7.56	EA
43043609	8	203.2	14.5	EA

ALUMINUM CAM & GROOVE COUPLINGS

Aluminum cam and groove couplings have a lightweight cast aluminum body with machined ends, and are designed for low to medium pressure non-corrosive applications. They have locking arms that make easy connection by hand and without the use of a wrench. They come standard with stainless locking arms, stainless pins, and buna gaskets.

PART A – MALE ADAPTERS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
50400000	1-1/2	38.1	0.28	EA
50400010	2	50.8	0.38	EA
50400015	2-1/2	63.5	0.58	EA
50400020	3	76.2	0.7	EA
50400030	4	101.6	1.34	EA
50400035	6	152.4	2	EA

PART B – FEMALE ADAPTERS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
50400040	1-1/2	38.1	0.7	EA
50400050	2	50.8	0.86	EA
50400055	2-1/2	63.5	1.02	EA
50400060	3	76.2	1.56	EA
50400070	4	101.6	2.42	EA
50400075	6	152.4	4.98	EA

PART C – FEMALE COUPLERS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
50400080	1-1/2	38.1	0.74	EA
50400090	2	50.8	0.98	EA
50400095	2-1/2	63.5	1.28	EA
50400100	3	76.2	2.2	EA
50400110	4	101.6	3.16	EA
50400115	6	152.4	7.7	EA

PART D – FEMALE ADAPTERS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
50400120	1-1/2	38.1	0.8	EA
50400130	2	50.8	0.92	EA
50400135	2-1/2	63.5	1.18	EA
50400140	3	76.2	1.8	EA
50400150	4	101.6	2.82	EA
50400155	6	152.4	5.11	EA

PART E – MALE COUPLERS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
50400160	1-1/2	38.1	0.38	EA
50400170	2	50.8	0.6	EA
50400175	2-1/2	63.5	0.86	EA
50400180	3	76.2	1.32	EA
50400190	4	101.6	2.1	EA
50400195	6	152.4	6.16	EA

PART F – MALE ADAPTERS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
50400240	1-1/2	38.1	0.46	EA
50400250	2	50.8	0.68	EA
50400255	2-1/2	63.5	0.96	EA
50400260	3	76.2	1.3	EA
50400270	4	101.6	2.32	EA
50400275	6	152.4	3.92	EA

PART DC – DUST CAPS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
50400280	1-1/2	38.1	0.64	EA
50400290	2	50.8	0.8	EA
50400295	2-1/2	63.5	0.94	EA
50400300	3	76.2	1.44	EA
50400310	4	101.6	2.34	EA
50400312	6	152.4	4.66	EA

PART DP – DUST PLUGS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
50400315	1-1/2	38.1	0.25	EA
50400320	2	50.8	0.38	EA
50400325	2-1/2	63.5	0.54	EA
50400330	3	76.2	0.74	EA
50400340	4	101.6	1.22	EA
50400345	6	152.4	2.53	EA

STAINLESS STEEL CAM & GROOVE COUPLINGS

Stainless cam and groove couplings have a cast stainless body with precision machined ends, and are designed for low to medium applications where corrosion and chemical resistance is important. They come standard with stainless locking arms, stainless pins, and buna gaskets.

PART A – MALE ADAPTERS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
50400505	1-1/2	38.1	0.8	EA
50400506	2	50.8	1.12	EA
50027012	2-1/2	63.5	1.76	EA
50400508	3	76.2	2.16	EA
50400510	4	101.6	3.74	EA
50027009	6	152.4	8.55	EA

PART B – FEMALE ADAPTERS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
50400525	1-1/2	38.1	1.77	EA
50400526	2	50.8	1.96	EA
50045530	2-1/2	63.5	2.86	EA
50400528	3	76.2	3.2	EA
50400530	4	101.6	6.58	EA
Special Order	6	152.4	10.62	EA

PART C – FEMALE COUPLERS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
50400545	1-1/2	38.1	1.76	EA
50400546	2	50.8	2.28	EA
50078515	2-1/2	63.5	3.1	EA
50400548	3	76.2	4.66	EA
50400550	4	101.6	6.98	EA
50078525	6	152.4	8.91	EA

PART D – FEMALE ADAPTERS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
50400565	1-1/2	38.1	1.52	EA
50400566	2	50.8	2.32	EA
50099014	2-1/2	63.5	3.12	EA
50400568	3	76.2	3.37	EA
50400570	4	101.6	6.5	EA
50400573	6	152.4	11.51	EA

PART E – MALE COUPLERS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
50400585	1-1/2	38.1	0.95	EA
50400586	2	50.8	1.96	EA
50121514	2-1/2	63.5	2.44	EA
50400588	3	76.2	3.9	EA
50400590	4	101.6	6.38	EA
50128030	6	152.4	13.49	EA

PART F – MALE ADAPTERS

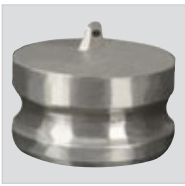
PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
50400605	1-1/2	38.1	1.28	EA
50400606	2	50.8	1.82	EA
Special Order	2-1/2	63.5	2.76	EA
50400608	3	76.2	3.92	EA
50400610	4	101.6	6.32	EA
50153015	6	152.4	8.66	EA

PART DC – DUST CAPS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
50400655	1-1/2	38.1	1.55	EA
50400656	2	50.8	1.78	EA
50400657	2-1/2	63.5	2.06	EA
50197514	3	76.2	2.53	EA
50400660	4	101.6	5.02	EA
50198022	6	152.4	9.92	EA

PART DP – DUST PLUGS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
50400625	1-1/2	38.1	0.72	EA
50400626	2	50.8	0.96	EA
50400627	2-1/2	63.5	1.47	EA
50400628	3	76.2	1.94	EA
50400630	4	101.6	3.36	EA
50400636	6	152.4	9.08	EA



POLYPROPYLENE CAM & GROOVE COUPLINGS

Polypropylene cam and groove couplings are manufactured from a glass-filled polypropylene compound, and are designed for use in low to medium pressure applications (1-1/4" through 2" have a max 125 PSI, and 3" through 4" have a max 90 PSI @ 70°F). They come standard with stainless locking arms, stainless pins, and EPDM gaskets, which makes them ideal for transferring diluted chemical solutions.

PART A – MALE ADAPTERS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
49010420	1-1/4	31.75	0.2	EA
49010425	1-1/2	38.1	0.21	EA
49010430	2	50.8	0.29	EA
49010450	3	76.2	0.54	EA
49010550	4	101.6	1.5	EA

PART B – FEMALE ADAPTERS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
49030510	1-1/4	31.75	0.6	EA
49030515	1-1/2	38.1	0.62	EA
49030520	2	50.8	0.67	EA
49030525	3	76.2	1.13	EA
49010614	4	101.6	2.1	EA

PART C – FEMALE COUPLERS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
49030540	1-1/4	31.75	0.6	EA
49030545	1-1/2	38.1	0.62	EA
49030550	2	50.8	0.71	EA
49030555	3	76.2	1.38	EA
49010674	4	101.6	2.5	EA

PART D – FEMALE ADAPTERS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
49030570	1-1/4	31.75	0.6	EA
49030575	1-1/2	38.1	0.62	EA
49030580	2	50.8	0.67	EA
49030585	3	76.2	1.17	EA
49010742	4	101.6	2.2	EA

PART E – MALE COUPLERS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
49012370	1-1/4	31.75	0.2	EA
49012375	1-1/2	38.1	0.25	EA
49012380	2	50.8	0.38	EA
49012400	3	76.2	0.71	EA
49012500	4	101.6	2.0	EA

PART F – MALE ADAPTERS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
49013990	1-1/4	31.75	0.2	EA
49013995	1-1/2	38.1	0.21	EA
49014000	2	50.8	0.33	EA
49014025	3	76.2	0.67	EA
49014300	4	101.6	1.8	EA

PART DC – DUST CAPS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
49030600	1-1/4	31.75	0.6	EA
49030600	1-1/2	38.1	0.6	EA
49030610	2	50.8	0.7	EA
49030615	3	76.2	1.04	EA
49010806	4	101.6	1.8	EA

PART DP – DUST PLUGS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
49014745	1-1/4	31.75	0.2	EA
49014745	1-1/2	38.1	0.2	EA
49014750	2	50.8	0.21	EA
49014800	3	76.2	0.38	EA
49014850	4	101.6	0.6	EA

POLYPROPYLENE CAM & GROOVE EPDM GASKETS

These gaskets are sized specifically for polypropylene cam and groove couplings. Gaskets help to provide a leak proof seal.

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M	PACKAGE
49014915	2	50.8	0.02	EA	1
49014920	3	76.2	0.04	EA	1
97498105	2	50.8	0.042	EA	2
97498110	2	50.8	0.071	EA	3

ALUMINUM & STAINLESS STEEL CAM & GROOVE

Buna gaskets are sized specifically for aluminum and stainless steel cam and groove couplings. They are used to provide a leak proof seal.

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
50203506	3/4	19.05	0.012	EA
50204006	1	25.4	0.016	EA
50204502	1-1/4	31.75	0.023	EA
50205002	1-1/2	38.1	0.026	EA
50205509	2	50.8	0.035	EA
50206505	3	76.2	0.062	EA
50207005	4	101.6	0.092	EA
50208001	6	152.4	0.16	EA

CAM LOCKING ARM

Brass cam arm assemblies come standard with a pull ring and a stainless steel connecting pin.

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
50213501	1-1/4, 1-1/2, 2, 2-1/2	0.154	EA	EA
50215504	3, 4, 5	0.278	EA	EA
50217000	6	0.05	EA	EA

BALL & SOCKET COUPLINGS

BALL & SOCKET COUPLINGS

Ball and socket couplings have a higher working pressure rating than typical quick action couplings, including cam and groove. They also have 30% socket flexibility in all directions which allows them to be connected without being perfectly aligned, and makes it easier to install to a pump while putting less stress on the hose assembly. These couplings are precision formed from galvanized steel, providing a long life span and are Bauer compatible.

BALL END – MALE

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
44103307	2	50.80	1	EA
44103308	3	76.20	1.5	EA
44103309	4	101.60	3.9	EA
44103310	5	127.00	4.9	EA
44103311	6	152.40	5.9	EA
44103312	8	203.20	10	EA

SOCKET END – FEMALE

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
44103313	2	50.80	1	EA
44103314	3	76.20	2	EA
44103315	4	101.60	4	EA
44103316	5	127.00	5	EA
44103317	6	152.40	7	EA
44103318	8	203.20	12	EA

HOSE SETS

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
44103301	2	50.80	3	EA
44103302	3	76.20	4	EA
44103303	4	101.60	12	EA
44103304	5	127.00	16	EA
44103305	6	152.40	22	EA
44103306	8	203.20	36	EA

BALL & SOCKET ACCESSORIES

LEVER LOCKING RING

Ball and socket locking rings can be purchased individually, making this type of fitting more cost effective. It is constructed of heavy galvanized steel which provides corrosion resistance and long service life.

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
44103319	2	50.80	1	EA
44103320	3	76.20	2	EA
44103321	4	101.60	5	EA
44103322	5	127.00	6	EA
44103323	6	152.40	9	EA
44103324	8	203.20	14	EA

O-RING

Ball and socket O-ring seal are replaceable and can be purchased individually.

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
44103325	2	50.8	0.01	EA
44103326	3	76.2	0.015	EA
44103327	4	101.6	0.2	EA
44103328	5	127	0.266	EA
44103329	6	152.4	0.319	EA
44103330	8	203.2	0.383	EA

DOUBLE HOSE END

Ball and socket double hose connection provides a convenient, cost effective method of repairing damaged hoses. Simply cut out the damaged hose section and attach this fitting with bands or bolted clamps. The double hose connection is constructed of heavy galvanized steel and is corrosion resistant.

PART#	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
44103331	2	50.8	1	EA
44103332	3	76.2	2	EA
44103333	4	101.6	4	EA
44103334	6	152.4	5	EA
44103335	8	203.2	10	EA
44103324	8	203.20	14	EA

BRASS HOSE BARBED FITTINGS

These hose barbed fittings are machined brass fittings with tapered male pipe thread. Brass fittings and adapters are commonly used in low to medium air, water, and gas applications where corrosion resistance is a necessity.

MALE PIPE

PART#	END 1	END 2	WEIGHT (LBS)	U/M
44014505	1/4" Male Pipe Thread	1/4" Hose Barb	0.04	EA
44015501-C	1/4" Male Thread	3/8" Hose Barb	0.05	EA
44017008	3/8" Male Pipe Thread	3/8" Hose Barb	0.06	EA
44017504	3/8" Male Pipe Thread	1/2" Hose Barb	0.08	EA
44018500	1/2" Male Pipe Thread	3/8" Hose Barb	0.08	EA
44019000	1/2" Male Pipe Thread	1/2" Hose Barb	0.11	EA
44020009	1/2" Male Pipe Thread	3/4" Hose Barb	0.16	EA
44021501	3/4" Male Pipe Thread	5/8" Hose Barb	0.165	EA
44022001	3/4" Male Pipe Thread	3/4" Hose Barb	0.17	EA

MALE PIPE SWIVEL

PART#	END 1	END 2	WEIGHT (LBS)	U/M
44014506	1/4" Male Pipe Thread Swivel	1/4" Hose Barb	0.05	EA
44015503	1/4" Male Pipe Thread Swivel	3/8" Hose Barb	0.65	EA
44017508	3/8" Male Pipe Thread Swivel	1/2" Hose Barb	0.1	EA
44019608	3/8" Male Pipe Thread Swivel	1/2" Hose Barb	0.135	EA

FEMALE PIPE SWIVEL

PART#	END 1	END 2	WEIGHT (LBS)	U/M
44026503	1/4" Female Pipe Thread Ball Seat Swivel	1/4" Hose Barb	0.05	EA
44027518	1/4" Female Pipe Thread Ball Seat Swivel	3/8" Hose Barb	0.06	EA
44028018	3/8" Female Pipe Thread Ball Seat Swivel	3/8" Hose Barb	0.07	EA
44029502	1/2 Female Pipe Thread Ball Seat Swivel	1/2" Hose Barb	0.11	EA
44029505	3/4 Female Pipe Thread Ball Seat Swivel	3/4" Hose Barb	0.14	EA

MALE GARDEN HOSE

PART#	END 1	END 2	WEIGHT (LBS)	U/M
44023504	Male Garden Hose Thread	3/8" Hose Barb	0.13	EA
44024004	Male Garden Hose Thread	1/2" Hose Barb	0.13	EA
44024500	Male Garden Hose Thread	5/8" Hose Barb	0.14	EA
44025000	Male Garden Hose Thread	3/4" Hose Barb	0.15	EA

FEMALE GARDEN HOSE

PART#	END 1	END 2	WEIGHT (LBS)	U/M
44030500	Female Garden Hose Thread	1/2" Hose Barb	0.12	EA
44031000	Female Garden Hose Thread	5/8" Hose Barb	0.12	EA
44031507	Female Garden Hose Thread	3/4" Hose Barb	0.14	EA

BRASS HOSE BARBED FITTINGS – CONTINUED

These hose barbed fittings are machined brass fittings with tapered male pipe thread. Brass fittings and adapters are commonly used in low to medium air, water, and gas applications where corrosion resistance is a necessity.

HEX REDUCER NIPPLE

PART#	END 1	END 2	WEIGHT (LBS)	U/M	PACKAGED QUANTITY
44060162	3/8" Male Pipe Thread	3/8" Male Pipe Thread Hex Nipple	0.18	EA	2
44060205	3/8" Male Pipe Thread	1/4" Male Pipe Thread Hex Nipple	0.07	EA	1

HEX REDUCER BUSHING

PART#	END 1	END 2	WEIGHT (LBS)	U/M
44048765	1/4" Female Pipe Thread	1/4" Female Pipe Thread	0.1	EA
39038470	3/8" Male Pipe Thread	1/4" Female Pipe Thread	0.14	EA

THREAD SEAL TAPE

THREAD SEAL TAPE

Thread seal tape, commonly known as Teflon® tape, is wrapped around male pipe thread adapters and hose to allow for a tighter connection, ensuring a tight seal and preventing leaks.

PART#	WIDTH (IN)	LENGTH (IN)	WEIGHT (LBS)	U/M
99000320	1/2	590	0.08	EA
99000322	1/2	275	0.08	EA

POLYPROPYLENE SCHEDULE 80 FITTINGS

Schedule 80 fittings are stronger and more durable than standard polypropylene fittings, making them an excellent choice for storage tanks, portable equipment, and hoses.

HEX PIPE NIPPLE – MALE PIPE THREAD X MALE PIPE THREAD

PART#	END 1	END 2	END 3	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
49030700	1" Male Pipe Thread	1" Male Pipe Thread	Short	150	0.05	EA
49030702	1" Male Pipe Thread	1" Male Pipe Thread	4" Long	150	0.101	EA
49030703	1" Male Pipe Thread	1" Male Pipe Thread	6" Long	150	0.16	EA
49030635	1 -1/4" Male Pipe Thread	1 -1/4" Male Pipe Thread	Short	150	0.08	EA
49030638	1 -1/4" Male Pipe Thread	1 -1/4" Male Pipe Thread	4" Long	150	0.15	EA
49030641	1 -1/4" Male Pipe Thread	1 -1/4" Male Pipe Thread	6" Long	150	0.23	EA
49030652	1-1/2" Male Pipe Thread	1-1/2" Male Pipe Thread	Short	150	0.16	EA
49030705	1-1/2" Male Pipe Thread	1-1/2" Male Pipe Thread	4" Long	150	0.21	EA
49030707	1-1/2" Male Pipe Thread	1-1/2" Male Pipe Thread	6" Long	150	0.34	EA
49030657	2" Male Pipe Thread	2" Male Pipe Thread	Short	150	0.25	EA
49030658	2" Male Pipe Thread	2" Male Pipe Thread	4" Long	150	0.27	EA
49030659	2" Male Pipe Thread	2" Male Pipe Thread	6" Long	150	0.4	EA
49030708	3" Male Pipe Thread	3" Male Pipe Thread	3" Short	150	0.54	EA
49030710	3" Male Pipe Thread	3" Male Pipe Thread	6" Long	150	0.79	EA

HEX REDUCER NIPPLE

PART#	END 1	END 2	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
49030646	3/4" Male Pipe Thread	1/2" Male Pipe Thread	150	0.04	EA
49030647	1" Male Pipe Thread	3/4" Male Pipe Thread	150	0.06	EA
49030649	1-1/4" Male Pipe Thread	1" Male Pipe Thread	150	0.1	EA
49030651	1-1/2" Male Pipe Thread	1-1/4" Male Pipe Thread	150	0.16	EA
49030653	2" Male Pipe Thread	1-1/2" Male Pipe Thread	150	0.21	EA
49030654	3" Male Pipe Thread	2" Male Pipe Thread	150	0.46	EA

FEMALE PIPE T

PART#	END 1	END 2	END 3	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
49030715	1/2" Female Pipe Thread	1/2" Female Pipe Thread	1/2" Female Pipe Thread	150	0.11	EA
49030717	3/4" Female Pipe Thread	3/4" Female Pipe Thread	3/4" Female Pipe Thread	150	0.14	EA
49030719	1" Female Pipe Thread	1" Female Pipe Thread	1" Female Pipe Thread	150	0.23	EA
49030721	1-1/4" Female Pipe Thread	1-1/4" Female Pipe Thread	1-1/4" Female Pipe Thread	150	0.36	EA
49030723	1-1/2" Female Pipe Thread	1-1/2" Female Pipe Thread	1-1/2" Female Pipe Thread	150	0.5	EA
49030725	2" Female Pipe Thread	2" Female Pipe Thread	2" Female Pipe Thread	150	0.7	EA
49030727	3" Female Pipe Thread	3" Female Pipe Thread	3" Female Pipe Thread	150	1.9	EA

POLYPROPYLENE SCHEDULE 80 FITTINGS – CONTINUED

Schedule 80 fittings are stronger and more durable than standard polypropylene fittings, making them an excellent choice for storage tanks, portable equipment, and hoses.

90° FEMALE PIPE ELBOWS

PART#	END 1	END 2	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
49030729	1/2" Female Pipe Thread	1/2" FP Female Pipe Thread	150	0.08	EA
49030730	3/4" Female Pipe Thread	3/4" Female Pipe Thread	150	0.11	EA
49030731	1" Female Pipe Thread	1" Female Pipe Thread	150	0.16	EA
49030732	1-1/4" Female Pipe Thread	1-1/4" Female Pipe Thread	150	0.25	EA
49030733	1-1/2" Female Pipe Thread	1-1/2" Female Pipe Thread	150	0.31	EA
49030735	2" Female Pipe Thread	2" Female Pipe Thread	150	0.5	EA
49030736	3" Female Pipe Thread	3" Female Pipe Thread	150	1.20	EA

FEMALE PIPE COUPLINGS

PART#	END 1	END 2	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
49030737	1/2" Female Pipe Thread	1/2" Female Pipe Thread	150	0.09	EA
49030739	3/4" Female Pipe Thread	3/4" Female Pipe Thread	150	0.11	EA
49030740	1" Female Pipe Thread	1" Female Pipe Thread	150	0.12	EA
49030741	1-1/4" Female Pipe Thread	1-1/4" Female Pipe Thread	150	0.2	EA
49030743	1-1/2" Female Pipe Thread	1-1/2" Female Pipe Thread	150	0.3	EA
49030745	2" Female Pipe Thread	2" Female Pipe Thread	150	0.37	EA
49030747	3" Female Pipe Thread	3" Female Pipe Thread	150	1	EA

90° STREET ELBOWS – MALE PIPE THREAD X FEMALE PIPE THREAD

PART#	END 1	END 2	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
49030750	1/2" Male Pipe Thread	1/2" Female Pipe Thread	150	0.06	EA
49030751	3/4" Male Pipe Thread	3/4" Female Pipe Thread	150	0.08	EA
49030752	1" Male Pipe Thread	1" Female Pipe Thread	150	0.13	EA
49030753	1-1/4" Male Pipe Thread	1-1/4" Female Pipe Thread	150	0.22	EA
49030754	1-1/2" Male Pipe Thread	1-1/2" Female Pipe Thread	150	0.4	EA
49030755	2" Male Pipe Thread	2" Female Pipe Thread	150	0.82	EA
49030758	3" Male Pipe Thread	3" Female Pipe Thread	150	1.3	EA

RIBBED PIPE CAPS

PART#	END 1	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
49030759	3/4" Female Pipe Thread	150	0.09	EA
49030761	1" Female Pipe Thread	150	0.11	EA
49030763	1-1/4" Female Pipe Thread	150	0.12	EA
49030765	1-1/2" Female Pipe Thread	150	0.29	EA
49030764	2" Female Pipe Thread	150	0.71	EA

HEX PIPE PLUGS

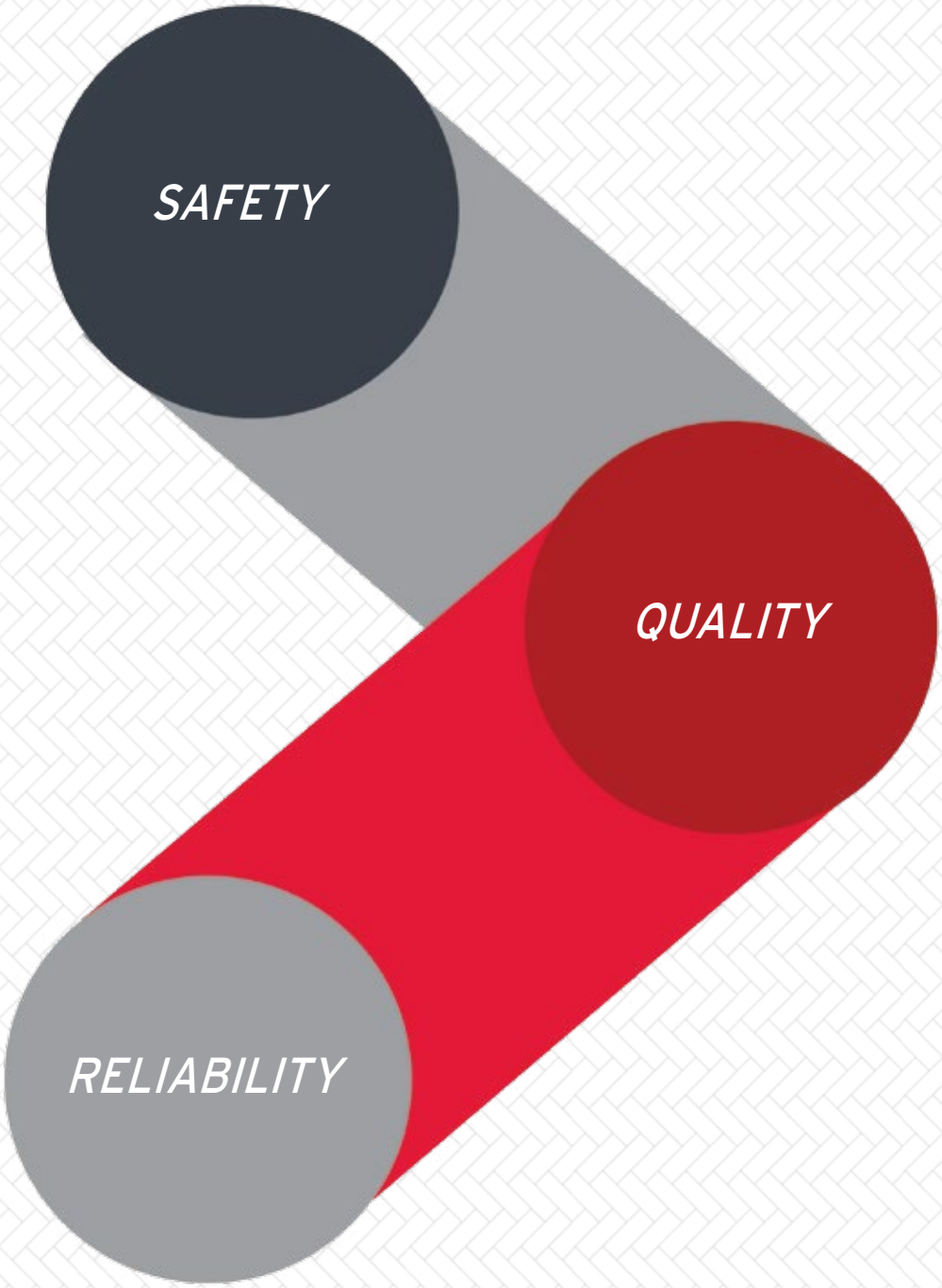
PART#	END 1	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
49030766	1/2" Male Pipe Thread	150	0.02	EA
49030767	3/4" Male Pipe Thread	150	0.04	EA
49030768	1" Male Pipe Thread	150	0.06	EA
49030769	1-1/4" Male Pipe Thread	150	0.08	EA
49030771	1-1/2" Male Pipe Thread	150	0.1	EA
49030770	2" Male Pipe Thread	150	0.14	EA
49030772	3" Male Pipe Thread	150	0.35	EA

CROSSES

PART#	END 1	END 2	END 3	END 4	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
49030777	3/4" Male Pipe Thread	3/4" Male Pipe Thread	3/4" Male Pipe Thread	3/4" Male Pipe Thread	150	0.38	EA
49030779	1" Male Pipe Thread	1" Male Pipe Thread	1" Male Pipe Thread	1" Male Pipe Thread	150	0.59	EA
49030781	1-1/4" Male Pipe Thread	1-1/4" Male Pipe Thread	1-1/4" Male Pipe Thread	1-1/4" Male Pipe Thread	150	0.65	EA
49030783	1-1/2" Male Pipe Thread	1-1/2" Male Pipe Thread	1-1/2" Male Pipe Thread	1-1/2" Male Pipe Thread	150	0.71	EA
49030785	2" Male Pipe Thread	2" Male Pipe Thread	2" Male Pipe Thread	2" Male Pipe Thread	150	0.79	EA

REDUCER BUSHINGS

PART#	END 1	END 2	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
49030787	1/2" Male Pipe Thread	1/4" Female Pipe Thread	150	0.02	EA
49030788	1/2" Male Pipe Thread	3/8" Female Pipe Thread	150	0.03	EA
49030789	3/4" Male Pipe Thread	1/8" Female Pipe Thread	150	0.04	EA
49030790	3/4" Male Pipe Thread	1/4" Female Pipe Thread	150	0.04	EA
49030791	3/4" Male Pipe Thread	3/8" Female Pipe Thread	150	0.03	EA
49030792	3/4" Male Pipe Thread	1/2" Female Pipe Thread	150	0.03	EA
49030793	1" Male Pipe Thread	1/8" Female Pipe Thread	150	0.07	EA
49030794	1" Male Pipe Thread	1/4" Female Pipe Thread	150	0.07	EA
49030795	1" Male Pipe Thread	1/2" Female Pipe Thread	150	0.06	EA
49030796	1" Male Pipe Thread	3/4" Female Pipe Thread	150	0.05	EA
49030797	1-1/4" Male Pipe Thread	3/4" Female Pipe Thread	150	0.08	EA
49030798	1-1/4" Male Pipe Thread	1" Female Pipe Thread	150	0.06	EA
49030799	1-1/2" Male Pipe Thread	3/4" Female Pipe Thread	150	0.13	EA
49030780	1-1/2" Male Pipe Thread	1" Female Pipe Thread	150	0.11	EA
49030782	1-1/2" Male Pipe Thread	1-1/4" Female Pipe Thread	150	0.11	EA
49030805	2" Male Pipe Thread	3/4" Female Pipe Thread	150	0.2	EA
49030806	2" Male Pipe Thread	1" Female Pipe Thread	150	0.18	EA
49030807	2" Male Pipe Thread	1-1/4" Female Pipe Thread	150	0.13	EA
49030808	2" Male Pipe Thread	1-1/2" Female Pipe Thread	150	0.13	EA
49030810	3" Male Pipe Thread	1-1/2" Female Pipe Thread	150	0.38	EA
49030812	3" Male Pipe Thread	2" Female Pipe Thread	150	0.33	EA


SAFETY
QUALITY
RELIABILITY

CLAMPS & TOOLS

MICRO – WORM GEAR CLAMPS

Micro worm gear clamps are designed for small diameter hose connections in low pressure applications. These small profile clamps are constructed of 300 stainless steel and have a slotted 1/4" hex head screw for flexibility in tightening.

PART#	BAND WIDTH	MIN. DIAMETER (IN)	MIN. DIAMETER (MM)	MAX. DIAMETER (IN)	MAX. DIAMETER (MM)	WEIGHT (LBS)	U/M
48016998	5/16"	1/4	6.35	5/8	15.875	0.017	EA
48017000	5/16"	5/16	6.35	5/8	15.875	0.017	EA
48017001	5/16"	5/16	8.467	7/8	22.225	0.018	EA
48017002	5/16"	7/16	11.113	3/4	19.05	0.017	EA
48017004	5/16"	1/2	12.7	7/8	22.225	0.02	EA
48017006	5/16"	1/2	12.7	1	25.4	0.021	EA

STANDARD WORM GEAR CLAMPS

Standard worm gear clamps are designed for low pressure hose connections and ducting applications. They are constructed of 304 stainless steel and have a slotted 5/16" hex head screw for flexibility in tightening.

PART#	BAND WIDTH	MIN. DIAMETER (IN)	MIN. DIAMETER (MM)	MAX. DIAMETER (IN)	MAX. DIAMETER (MM)	WEIGHT (LBS)	U/M
48000509	1/2"	7/16	11.113	29/32	23.019	0.042	EA
48001009	1/2"	7/16	11.113	1	25.4	0.043	EA
48001505	1/2"	9/16	14.288	1-1/16	26.988	0.044	EA
48002005	1/2"	11/16	17.463	1-1/4	31.75	0.045	EA
48002501	9/16"	3/4	19.05	1-1/2	38.1	0.058	EA
48003001	9/16"	3/4	19.05	1-3/4	44.45	0.062	EA
48003508	9/16"	1	25.4	2	50.8	0.063	EA
48004008	9/16"	1-5/16	33.338	1-9/16	39.688	0.059	EA
48004504	9/16"	1-9/16	39.688	2-1/2	63.5	0.071	EA
48005004	9/16"	7/8	22.225	2-3/4	69.85	0.073	EA
48005500	9/16"	1-1/8	28.575	3	76.2	0.077	EA
48006000	9/16"	1-5/16	33.338	3-1/4	82.55	0.082	EA
48006507	9/16"	1-5/8	41.275	3-1/2	88.9	0.085	EA
48007007	9/16"	1-7/8	47.625	3-3/4	95.25	0.088	EA
48007252	9/16"	2-1/8	53.975	4	101.6	0.092	EA
48008003	9/16"	2-5/8	66.675	4-1/2	114.3	0.105	EA
48008518	9/16"	3-1/8	79.375	5	127	0.11	EA
48009018	9/16"	3-5/8	92.075	5-1/2	139.7	0.123	EA
48009506	9/16"	4-1/2	114.3	6	152.4	0.136	EA
48010008	9/16"	4-3/4	120.65	6-1/2	165.1	0.142	EA
48010504	9/16"	4	101.6	7	177.8	0.148	EA

STANDARD T-BOLT CLAMPS

This corrosion resistant T-bolt clamp has a 300 series stainless steel band and bolt. Its nylon insert nut can be easily tightened with a 7/16" socket wrench. This clamp is rated to a maximum 50 inch pounds applied torque.

PART#	BAND WIDTH	MIN.DIAMETER (IN)	MIN. DIAMETER (MM)	MAX. DIAMETER (IN)	MAX. DIAMETER (MM)	WEIGHT (LBS)
43081850	3/4"	1.344	34.138	1.562	39.675	0.113
43081852	3/4"	1.594	40.488	1.812	46.025	0.125
43081853	3/4"	1.724	43.79	1.942	49.327	0.127
43081856	3/4"	1.844	46.838	2.062	52.375	0.129
43081858	3/4"	2.094	53.188	2.312	58.725	0.13
43081860	3/4"	2.224	56.49	2.442	62.027	0.131
43081862	3/4"	2.344	59.538	2.562	65.075	0.132
43081864	3/4"	2.326	59.08	2.622	66.599	0.133
43081866	3/4"	2.396	60.858	2.692	68.377	0.135
43081868	3/4"	2.516	63.906	2.812	71.425	0.136
43081872	3/4"	2.766	70.256	3.062	77.775	0.138
43081874	3/4"	2.886	73.304	3.182	80.823	0.143
43081876	3/4"	3.016	76.606	3.312	84.125	0.147
43081878	3/4"	3.266	82.956	3.562	90.475	0.154
43081880	3/4"	3.516	89.306	3.812	96.825	0.159
43081882	3/4"	3.766	95.656	4.062	103.175	0.16
43081886	3/4"	4.266	108.356	4.562	115.875	0.168
43081888	3/4"	4.516	114.706	4.812	122.225	0.193
43081890	3/4"	5.266	133.756	5.562	141.275	0.201
43081896	3/4"	5.516	140.106	5.812	147.625	0.223
43081900	3/4"	6.266	159.156	6.562	166.675	0.225
43081908	3/4"	7.266	184.556	7.562	192.075	0.229

ULTRA T-BOLT CLAMPS

Ultra T-bolt 304 stainless steel band, bolt, and saddle resist rust and corrosion. The smooth saddle is attached with 4 spot welds for extra strength and uniform seal, and the carbon steel nut with nylon insert eliminates nut and bolt seizure. This clamp is rated to a maximum 75 inch pounds applied torque.

PART#	BAND WIDTH	UT CODES	MIN. DIAMETER (IN)	MIN. DIAMETER (MM)	MAX. DIAMETER (IN)	MAX. DIAMETER (MM)	WEIGHT (LBS)	U/M
43081998	3/4"	UT130	1.33	33.782	1.7	43.18	0.113	EA
43082000	3/4"	UT162	1.62	41.148	1.87	47.498	0.125	EA
43082002	3/4"	UT181	1.81	45.974	2.06	52.324	0.129	EA
43082004	3/4"	UT193	1.93	49.022	2.18	55.372	0.13	EA
43082008	3/4"	UT218	2.18	55.372	2.5	63.5	0.133	EA
43082012	3/4"	UT231	2.31	58.674	2.62	66.548	0.136	EA
43082016	3/4"	UT250	2.5	63.5	2.81	71.374	0.132	EA
43082020	3/4"	UT287	2.87	72.898	3.18	80.772	0.137	EA
43082022	3/4"	UT313	3.13	79.502	3.44	87.376	0.144	EA
43082024	3/4"	UT331	3.31	84.074	3.62	91.948	0.15	EA
43082026	3/4"	UT343	3.43	87.122	3.75	95.25	0.155	EA
43082028	3/4"	UT350	3.5	88.9	3.85	97.79	0.158	EA
43082030	3/4"	UT425	4.25	107.95	4.56	115.824	0.162	EA
43082031	3/4"	UT438	4.38	111.252	4.75	120.65	0.167	EA
43082032	3/4"	UT456	4.56	115.824	4.94	125.476	0.194	EA

HEAVY-DUTY SUPER T-BOLT CLAMPS

Zinc plated heavy-duty super T-bolt clamps are used in applications that require rust resistance, but only limited corrosion resistance. They have three spot welds on the tension mechanism for added strength, and a clamp bridge that provides even pressure on 360 degrees of the sealing surface. Each clamp has its size range stamped into the band for easy identification.

PART#	BAND WIDTH	MIN. DIAMETER (IN)	MIN. DIAMETER (MM)	MAX. DIAMETER (IN)	MAX. DIAMETER (MM)	WEIGHT (LBS)	U/M
43082316	22 mm	1.73	43.942	1.85	46.99	0.161	EA
43082320	22 mm	2.05	52.07	2.17	55.118	0.18	EA
43082322	22 mm	2.2	55.88	2.32	58.928	0.189	EA
43082324	22 mm	2.36	59.944	2.48	62.992	0.202	EA
43082326	22 mm	2.52	64.008	2.64	67.056	0.253	EA
43082234-C	24 mm	3.39	86.106	3.58	90.932	0.363	EA
43082334	24 mm	3.39	86.106	3.58	90.932	0.334	EA
43082336	24 mm	3.62	91.948	3.82	97.028	0.299	EA
43082342	24 mm	4.45	113.03	4.76	120.904	0.374	EA
43082344	24 mm	4.8	121.92	5.12	130.048	0.4	EA
43082240-C	25 mm	4.09	103.886	4.41	112.014	0.414	EA
43082242-C	26 mm	4.45	113.030	4.76	120.904	0.44	EA
43082246-C	26 mm	5.16	131.064	5.47	138.938	0.528	EA
43082250-C	26 mm	5	127	6.34	161.036	0.669	EA
43082252-C	26 mm	6.38	162.052	6.85	173.99	0.572	EA
43082254-C	26 mm	6.89	175.006	7.36	186.944	0.748	EA
43082258-C	26 mm	7.91	200.914	8.39	213.106	0.788	EA

SPIRAL CLAMPS

SPIRAL CLAMPS (6200 SERIES)

These hose clamps are specifically designed for our series 6200 suction hose and all spiralite corrugated suction hose. It is preformed to perfectly match the pitch of the hose helix to provides a "leak-proof" connection, and its cadmium plated finish resists corrosion.

PART#	BAND WIDTH	MIN. DIAMETER (IN)	MIN. DIAMETER (MM)	SIZE (IN)	SIZE (MM)	WEIGHT (LBS)	U/M
43101113	Round	4	101.6	4	101.6	0.93	EA
43101114	Round	6	152.4	6	152.4	1.95	EA
43101115	Round	8	203.2	8	203.2	2.79	EA
43101116	Round	10	254	10	254	3.26	EA

See p. 118 for 6200 series suction hose.

HEAVY-DUTY DOUBLE BOLT CLAMPS

These heavy-duty double bolt clamps feature internal saddles, dual inner surface gripping ridges, and reinforced bolt lugs to prevent bending out of alignment. Do not lubricate bolts when tightening.

PART#	MIN. DIAMETER (IN)	MAX. DIAMETER (IN)	WEIGHT (LBS)	U/M
43095501	3-32/34	3-52/64	1.6	EA
43095503	3-50/64	4-1/16	1.74	EA
43096001	4-1/32	4-9/32	2.01	EA
43096508	4-1/4	4-15/16	2.15	EA
43097008	4-1/2	5-1/4	2.45	EA
43097504	5-1/8	5-11/6	2.48	EA
43097506	5-11/16	5-15/16	2.58	EA
43098004	5-15/16	6-1/2	2.9	EA
43098500	6-1/2	7-9/16	3.86	EA
43098520	7-11/16	8-3/16	4.7	EA
43099507	8-1/4	8-7/8	4.94	EA
43100009	8-15/16	9-7/8	5.52	EA
43100505	9-15/16	11-3/8	8.08	EA
43101005	11-3/16	13	9.04	EA
43101007	13-3/16	15	16.65	EA
43101010	15-1/16	17-1/2	20.85	EA

PREFORMED CLAMPS – GALVANIZED CARBON STEEL

The galvanized carbon steel preformed clamp, with a smooth I.D., was developed to prevent leak problems that commonly occur when applying conventional clamps on the thinner, harder covered hoses found in today's market. Clamps are available in a variety of widths, sizes, and materials.

PART#	BAND WIDTH	MAX. DIAMETER (IN)	MAX. DIAMETER (MM)	WEIGHT (LBS)	U/M
40029017	3/8"	13/16	20.64	0.036	EA
40029084	3/8"	1-3/8	34.93	0.05	EA
40029024	5/8"	1-1/2	38.1	0.107	EA
40029030	5/8"	2	50.8	0.124	EA
40029042	3/4"	2-3/4	69.85	0.171	EA
40029056	3/4"	3-1/2	88.9	0.212	EA
40029062	3/4"	4	101.6	0.243	EA
40029066	3/4"	5	127	0.289	EA
40029070	3/4"	7	177.8	0.382	EA

PREFORMED CLAMPS – STAINLESS STEEL

This 201 stainless steel, smooth I.D., preformed hose clamp developed to prevent leak problems that commonly occur when applying conventional clamps on the thinner, harder covered hoses found in today's market. Clamps are available in a variety of widths, sizes, and materials.

PART#	BAND WIDTH	MAX. DIAMETER (IN)	MAX. DIAMETER. (MM)	WEIGHT (LBS)	U/M
40029073	3/4"	13/16	20.64	0.036	EA
40029039	3/8"	1-3/8	34.93	0.05	EA
40029045	5/8"	1-1/2	38.1	0.108	EA
40029047	5/8"	2	50.8	0.125	EA
40029050	3/4"	2-3/4	69.85	0.173	EA
40029052	3/4"	3-1/2	88.9	0.217	EA
40029053	3/4"	4	101.6	0.246	EA
40029068	3/4"	5	127	0.293	EA
40029080	3/4"	8	203.2	0.433	EA

CENTER PUNCH PREFORMED CLAMPS – GALVANIZED CARBON STEEL

Preformed galvanized carbon steel center punch hose clamps are similar in looks to other preformed clamps, except they are locked in place with a standard conical punch, which ensures a strong and reliable connection. These clamps are available in many different sizes.

PART#	BAND WIDTH	MAX. DIAMETER (IN)	MAX. DIAMETER (MM)	WEIGHT (LBS)	U/M
40029100	3/8"	13/16	20.64	0.036	EA
40029105	3/8"	1-3/8	34.93	0.047	EA
40029120	5/8"	1-1/2	38.1	0.086	EA
40029130	5/8"	2	50.8	0.098	EA
40029145	5/8"	2-3/4	69.85	0.124	EA
40029155	5/8"	3-1/2	88.9	0.147	EA
40029160	5/8"	4	101.6	0.169	EA
40029165	5/8"	5	127	0.203	EA
40029175	5/8"	7	177.8	0.263	EA

CENTER PUNCH PREFORMED CLAMPS – STAINLESS STEEL

Preformed 201 stainless steel center punch hose clamps are similar in looks to other preformed clamps, except they are locked in place with a standard conical punch, which ensures a strong and reliable connection. These clamps are available in many different sizes.

PART#	BAND WIDTH	MAX. DIAMETER (IN)	MAX. DIAMETER (MM)	WEIGHT (LBS)	U/M
40039625	3/8"	13/16	20.64	0.036	EA
40039627	3/8"	1-3/8	34.93	0.045	EA
40039629	5/8"	1-1/2	38.10	0.086	EA
40039631	5/8"	2	50.80	0.098	EA
40039634	5/8"	2-3/4	69.85	0.124	EA
40039637	5/8"	3-1/2	88.90	0.149	EA
40039639	5/8"	4	101.60	0.171	EA
40039642	5/8"	5	127.00	0.205	EA
40039645	5/8"	7	177.80	0.268	EA

BANDING – GALVANIZED CARBON STEEL

Galvanized carbon steel banding is used in combination with buckles to attach fittings to hose ends, signs to utility poles, or any other applications that do not require high strength or corrosion protection.

PART#	BAND WIDTH	PKG	WEIGHT (LBS)	U/M
40003002	3/8"	100'	3.3	EA
40003509	1/2"	100'	5.1	EA
40004009	5/8"	100'	6.4	EA
40004505	3/4"	100'	7.7	EA

BANDING – STAINLESS STEEL

This 201 stainless steel banding is used in combination with stainless steel Ear-Lokt buckles to attach fittings to hose ends, signs to utility poles, or any other applications that require high strength and corrosion protection.

PART#	BAND WIDTH	PKG	WEIGHT (LBS)	U/M
40000518	3/8"	100'	3.3	EA
40001018	1/2"	100'	5.1	EA
40001506	5/8"	100'	6.4	EA
40002006	3/4"	100'	7.7	EA

BUCKLES – GALVANIZED CARBON STEEL

These galvanized carbon steel buckles are used in combination with bulk carbon steel banding to attach fittings to hose ends, signs to utility poles, or any other applications that do not require high strength or corrosion protection.

PART#	BAND WIDTH	PKG	WEIGHT (LBS)	U/M
40008004	3/8"	100'	0.8	EA
40008500	1/2"	100'	2.1	EA
40009000	5/8"	100'	2.4	EA
40009507	3/4"	100'	3.7	EA

BUCKLES – 201 STAINLESS STEEL

These 201 stainless steel buckles are used in combination with bulk stainless steel banding to attach fittings to hose ends, signs to utility poles, or any other applications that require high strength and corrosion protection.

PART#	BAND WIDTH	PKG	WEIGHT (LBS)	U/M
40005501	3/8"	100'	0.8	EA
40006001	1/2"	100'	2.1	EA
40006508	5/8"	100'	2.4	EA
40007008	3/4"	100'	3.7	EA

BAND-IT® TOOL

The Band-It® tool is used to apply Band-It® bands and buckles, strapping, and free-end clamps. Its many quality features include:

- Drop forged frame with tensioning capability of over 2400 lbs
- Zinc plated black chromate finish for superior corrosion resistance
- Spring loaded gripper lever for improved band tensioning
- Built-in band cutter with friction held cutoff lever and plastic grip
- Permanent lubrication on the tension screw for longer tool life and faster operation

PART#	WEIGHT (LBS)	U/M
40047018	4.4	EA

BAND-IT® JUNIOR ADAPTER

The Band-It® junior adapter is an attachment for the Band-It® tool which allows it to apply Band-It junior preformed clamps.

PART#	WEIGHT (LBS)	U/M
40048502	1.4	EA

POK-IT TOOL

The pok-it tool is a small, lightweight tool used to apply 1/4" and 3/8" wide banding, Ear-Lokt, Scru-Lokt, Band-It® junior preformed, and free-end clamps. This tool includes a built-in cutter.

PART#	WEIGHT (LBS)	U/M
40047506	1.1	EA

See p. 166 for center punch preformed clamps.

1/2" & LARGER CENTER PUNCH TOOL

This center punch tool is a ratchet action tensioning tool. It is used for applying 1/2" wide or larger center punch preformed clamps, and center punch open-end clamps containing center punch locking design.

PART#	WEIGHT (LBS)	U/M
40049004	3.15	EA

CENTER PUNCH TOOL ADAPTER

The adapter is an attachment for the 1/2" and larger center punch tool. The adapter allows the tool to apply 3/8" wide center punch preformed clamps, and center punch open-end clamps containing center punch locking design.

PART#	WEIGHT (LBS)	U/M
40049005	0.4	EA

3/8" TO 5/8" CENTER PUNCH TOOL

This center punch tool is a ratchet action tensioning tool. It is used for applying 3/8" to 5/8" wide center punch preformed clamps, and center punch open-end clamps containing center punch locking design.

PART#	WEIGHT (LBS)	U/M
40049509	1.1	EA

STRAINERS, SKIMMERS, & FOOT VALVES

T-LINE STRAINERS – POLYPROPYLENE

T-line strainers prevent clogging of pumps and spray tips by filtering liquids through 304 stainless wire mesh screens. Screens are interchangeable and are available in 20 through 80 mesh.

PART#	FEMALE PIPE THREAD (IN)	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
20 MESH SCREEN				
49030220	1/2	100	0.5	EA
49030225	3/4	100	0.5	EA
49030230	1	100	0.5	EA
40 MESH SCREEN				
49030222	1/2	100	0.5	EA
49030228	3/4	100	0.5	EA
49030232	1	100	0.5	EA
80 MESH SCREEN				
49030233	1/2	100	0.5	EA
49030229	3/4	100	0.5	EA
49030234	1	100	0.5	EA

Y-LINE STRAINERS – POLYPROPYLENE

Y-line strainers prevent clogging of pumps and spray tips by filtering liquids through 304 stainless wire mesh screens. Screens are interchangeable and are available in 20 through 80 mesh. 3" and larger strainers have a 1/2" removable drain plug in the bottom.

PART#	FEMALE PIPE THREAD (IN)	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
20 MESH SCREEN				
49030181	1/2	90	0.416	EA
49030184	3/4	90	0.417	EA
49030194	1	90	0.872	EA
49030200	1-1/4	90	0.916	EA
49030204	1-1/2	90	2	EA
49030208	2	90	2.083	EA
40 MESH SCREEN				
49030182	1/2	90	0.416	EA
49030185	3/4	90	0.416	EA
49030195	1	90	1	EA
49030202	1-1/4	90	0.916	EA
49030206	1-1/2	90	2	EA
49030210	2	90	2.083	EA
80 MESH SCREEN				
49030183	1/2	90	0.416	EA
49030190	3/4	90	0.416	EA
49030196	1	90	1.083	EA
49030203	1-1/4	90	1	EA
49030207	1-1/2	90	2	EA
49030212	2	90	2.083	EA

ROUND HOLE SUCTION STRAINERS – PLATED STEEL

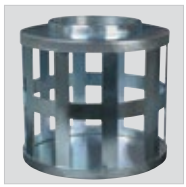
Round hole suction strainers are used to decrease the amount of solids entering your pump when foot valves are not required. Their plated steel construction provides rust and corrosion resistance.

PART#	FEMALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
70000008	1-1/2	1.36	EA
70000504	2	1.78	EA
70000700	2-1/2	2.02	EA
70001500	3	3.08	EA
70002000	4	2.9	EA
70002507	6	6.04	EA

SQUARE HOLE SUCTION STRAINERS – PLATED STEEL

Square hole suction strainers are commonly attached to the pump inlet hose on trash pumps to prevent larger solids from entering your pump, while allowing smaller particles to pass through the pump. Their plated steel construction decreases rust and corrosion.

PART#	FEMALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
70009700	1-1/2	1.12	EA
70009702	2	1.74	EA
70009704	2-1/2	2	EA
70009706	3	2.5	EA
70009708	4	2.52	EA
70009710	6	3	EA



SUCTION STRAINERS – POLYPROPYLENE

Suction strainers decrease the amount of solids entering your pump, and are used when foot valves are not required. Polypropylene strainers resist the damaging affects of rust, chemicals, and salt water.

PART#	FEMALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
70002756	1	0.22	EA
70002760	1-1/2	0.25	EA
70002780	2	0.3	EA
70002800	3	0.6	EA

TOP HOLE SUCTION – PLATED STEEL

Skimmer strainers have a lower profile than standard suction strainers, which accommodates shallow pumping situations. These can be used when foot valves are not required.

PART#	FEMALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
70009740	1-1/2	2.63	EA
70009732	2	3	EA
70009734	3	6.18	EA

BOTTOM HOLE SUCTION – PLATED STEEL

Skimmer strainers have a lower profile than standard suction strainers, which accommodates shallow pumping situations. These can be used when foot valves are not required.

PART#	FEMALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
70009730	1-1/2	2.63	EA
70009742	2	3	EA
70009744	3	6.18	EA

FOOT VALVES

FOOT VALVE WITH LEATHER FLAPPERS – CAST IRON

Foot valves allow liquids to be strained prior to entering your pump similar to suction strainers, but foot valves have a leather flapper to prevent the pump from losing its prime. The cast iron construction is rugged, and the flapper seal is replaceable. Ideal for irrigation, drainage, and construction projects.

PART#	FEMALE PIPE THREAD (IN)	WEIGHT (LBS)	U/M
70003007	1-1/2	2.75	EA
70003503	2	4.5	EA
70003511	2-1/2	6.73	EA
70004003	3	7.54	EA
70004518	4	20.05	EA
70005018	6	50.75	EA
70005022	8	56.24	EA

REPLACEMENT RUBBER FLAPPER SEALS

Replacement rubber flapper seals are for cast iron foot valves, and are used to prevent back flow while maintaining pump prime.

PART#	SIZE (IN)	WEIGHT (LBS)	U/M
70006027	1-1/2	0.003	EA
70006028	2	0.063	EA
70006030	2-1/2	0.12	EA
70006502	3	0.12	EA
70007002	4	0.22	EA
70007509	6	0.425	EA
70008009	8	0.72	EA

BALL VALVES

SINGLE UNION

Single union ball valves are manufactured from glass reinforced polypropylene for strength, durability, and corrosion resistance. Its unique body and flange design allows for low torque operation and the self-aligning ball rotates freely against Teflon® seats.

PART#	FEMALE PIPE THREAD (IN)	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
49015050	1/2	125	0.25	EA
49015075	3/4	125	0.38	EA
49015100	1	125	0.54	EA
49015125	1-1/4	125	0.83	EA
49015150	1-1/2	125	1.17	EA
49015200	2	125	1.58	EA
49015300	3	125	5.75	EA

STANDARD PORT BOLTED

Standard Bolted ball valves are manufactured from glass reinforced polypropylene for strength, durability, and corrosion resistance. Its unique body and flange design allows for low torque operation and the self-aligning ball rotates freely against Teflon® seats.

PART#	FEMALE PIPE THREAD (IN)	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
49029965	1	125	0.66	EA
49029985	1-1/4	125	1.17	EA
49030060	2	125	1.79	EA

FULL PORT BOLTED

Full port bolted ball valves are manufactured from glass reinforced polypropylene for strength, durability, and corrosion resistance. Its unique body and flange design allows for low torque operation and the self-aligning ball rotates freely against Teflon® seats. Used in applications requiring no flow restrictions.

PART#	FEMALE PIPE THREAD (IN)	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
49027950	1/2	125	0.66	EA
49029950	3/4	125	0.66	EA
49029968	1	125	1.21	EA
49029980	1-1/4	125	1.83	EA
49030000	1-1/2	125	1.88	EA
49030010	2	125	2.92	EA
49030020	3	125	5.5	EA

COMPACT BOLTED

Compact full port ball valves are manufactured from glass reinforced polypropylene for strength, durability, and corrosion resistance. Its unique body and flange design allows for low torque operation and the self-aligning ball rotates freely against Teflon® seats. This ball valve is more compact than regular bolted ball valves.

PART#	PIPE THREAD (IN)	PIPE THREAD
49030140	2	Male Pipe Thread x Female Pipe Thread
49030142	2	Female Pipe Thread x Female Pipe Thread
49030144	2	Male Pipe Thread x Male Pipe Thread

FULL PORT

Full port brass ball valves have a forged brass body, hard chromium plated solid ball, heavy-duty plated carbon steel handle with yellow vinyl insulator, and deep tapered female pipe threads for improved connections. They are designed for water, oil, and gas (WOG) at a maximum 600 PSI.

PART#	FEMALE PIPE THREAD (IN)	MAX. PSI @ 70°F	WEIGHT (LBS)	U/M
70009650	1/4	600	0.35	EA
70009651	3/8	600	0.38	EA
70009652	1/2	600	0.44	EA
70009653	3/4	600	0.7	EA
70009654	1	600	1.05	EA
70009655	1-1/4	600	1.85	EA

GAUGES

DRY PRESSURE GAUGES

DRY PRESSURE GAUGE – CENTER BACK INLET

Utility gauge for commercial and industrial markets. Constructed with a black steel case, chrome bezel, copper alloy internal, and a brass 1/8" male national pipe thread center back mount. Includes a 1/4" x 1/8" reducer bushing. Meets or exceeds ASME B40.100 pressure gauge standards.

PART#	INLET (IN)	SIZE (IN)	MAX. PSI (LBS)	WEIGHT (LBS)	U/M
51040842	1/8 Male Pipe Thread	2	160	0.2	EA

DRY PRESSURE GAUGE – MALE NATIONAL PIPE THREAD LOWER INLET

Utility gauge for commercial and industrial markets. Constructed with a black steel case, chrome bezel, copper alloy internal, and a brass male national pipe thread lower mount. Meets or exceeds ASME B40.100 pressure gauge standard.

PART#	INLET (IN)	SIZE (IN)	MAX. PSI (LBS)	WEIGHT (LBS)	U/M
99019276	1/8 Male Pipe Thread	1-1/2	60	0.15	EA
99019278	1/8 Male Pipe Thread	1-1/2	100	0.15	EA
99019280	1/8 Male Pipe Thread	1-1/2	200	0.15	EA
99019005	1/4 Male Pipe Thread	2-1/2	60	0.35	EA
99019268	1/4 Male Pipe Thread	2-1/2	100	0.35	EA
99019269	1/4 Male Pipe Thread	2-1/2	160	0.35	EA
99019270	1/4 Male Pipe Thread	2-1/2	400	0.35	EA
99019272	1/4 Male Pipe Thread	2-1/2	1000	0.35	EA
99019273	1/4 Male Pipe Thread	4-1/2	60	0.82	EA
99019274	1/4 Male Pipe Thread	4-1/2	100	0.82	EA

For anhydrous ammonia hose see p. 32

ANHYDROUS AMMONIA PRESSURE GAUGE – MALE NATIONAL PIPE THREAD LOWER INLET

Dry gauge for agricultural anhydrous ammonia applications. Constructed with black steel case, stainless steel internal, and stainless steel 1/4" male national pipe thread lower mount. Meets or exceeds ASME B40.100 pressure gauge standards.

PART#	INLET (IN)	SIZE (IN)	MAX. PSI (LBS)	WEIGHT (LBS)	U/M
99019150	1/4 Male Pipe Thread	2-1/2	60	0.4	EA
99019160	1/4 Male Pipe Thread	2-1/2	150	0.4	EA
99019180	1/4 Male Pipe Thread	2-1/2	400	0.4	EA

GLYCERIN FILLED GAUGES

GLYCERIN FILLED GAUGE – MALE NATIONAL PIPE THREAD LOWER INLET

Glycerine filled for added durability where vibration or pulsation is present. It is constructed with a stainless steel case and bezel, copper alloy internal, and a brass 1/4" male national pipe thread lower mount. Meets or exceeds ASME B40.100 pressure gauge standard.

PART#	INLET (IN)	SIZE (IN)	MAX. PSI (LBS)	WEIGHT (LBS)	U/M
99019281	1/4 Male Pipe Thread	2-1/2	60	0.45	EA
99019282	1/4 Male Pipe Thread	2-1/2	100	0.45	EA
99019284	1/4 Male Pipe Thread	2-1/2	400	0.45	EA
99019286	1/4 Male Pipe Thread	2-1/2	1000	0.45	EA
99019109	1/4 Male Pipe Thread	2-1/2	3000	0.5	EA
99019120	1/4 Male Pipe Thread	2-1/2	5000	0.5	EA

CHEMICAL REFERENCE CHARTS

CHEMICAL RESISTANCE

CHEMICAL RESISTANCE CHART

CHEMICAL	NATURAL RUBBER	SBR	BUTYL	NITRILE	NEOPRENE	HYPALON®	EPDM	EPICHLOROHYDRIN	VITON®	XLPE	CPE	UHMW
Acetal	F	F	G	NR	F	F	F	NR	NR	G	NR	G
Acetaldehyde	F	NR	E	NR	F	F	E	NR	NR	E	NR	E
Acetamide	F	F	E	G	G	G	E	F	G	E	NR	E
Acetate Solvents C	NR	F	NR	NR	NR	F	NR	NR	E	G	E	NR
Acetic Acid, 0.1	NR	NR	G	NR	F	G	G	G	F	E	E	E
Acetic Acid, 0.3	NR	NR	G	G	F	G	G	F	F	E	E	E
Acetic Acid, 0.5	NR	NR	G	F	F	NR	G	F	NR	G	E	G
Acetic Acid, Glacial	NR	NR	G	NR	F	NR	NR	NR	NR	G	E	G
Acetic Anhydride	NR	NR	G	NR	NR	G	G	NR	NR	G	E	G
Acetic Ester (Ethyl Acetate)	NR	NR	G	NR	NR	NR	G	NR	NR	E	G	E
Acetic Ether (Ethyl Acetate)	NR	NR	G	NR	NR	F	G	NR	NR	E	G	E
Acetic Oxide (Acetic Anhydride)	NR	NR	F	NR	NR	G	G	NR	NR	E	E	E
Acetone	G	G	E	NR	F	F	E	NR	NR	E	E	E
Acetophenone	F	NR	E	NR	NR	NR	E	NR	NR	G	NR	G
Acetyl Acetone	NR	NR	G	NR	NR	NR	E	NR	NR	E	G	E
Acetyl Chloride	NR	NR	F	NR	NR	NR	F	NR	G	G	E	G
Acetylene	E	E	E	E	F	F	G	G	E	E	NR	E
Acrylonitrile	G	NR	NR	NR	NR	NR	NR	NR	NR	G	E	G
Air	E	E	E	E	E	E	E	E	E	E	E	E
Alcohols, Aliphatic	E	G	E	E	E	E	E	E	F	E	E	E
Alcohols, Aromatic	F	NR	NR	F	F	NR	NR	G	E	E	F	E
Alk-Tri (Trichloroethylene)	NR	NR	NR	NR	NR	NR	NR	G	E	NR	E	NR
Allyl Alcohol	E	G	E	E	E	E	E	E	G	E	E	E
Allyl Bromide	NR	NR	NR	NR	NR	NR	NR	NR	G	G	E	G
Allyl Chloride	NR	NR	NR	NR	NR	NR	NR	G	G	G	E	G
Alum (Ammonium,Potassium Sulfate)	E	E	E	E	E	E	E	E	E	E	E	E
Aluminum Acetate	E	F	G	G	G	G	G	G	F	E	E	E
Aluminum Chloride	E	E	E	E	E	E	E	E	E	E	E	E
Aluminum Fluoride	E	E	E	E	E	E	E	E	E	E	E	E
Aluminum Hydroxide	E	E	E	E	E	E	E	E	E	E	E	E
Aluminum Phosphate	E	E	E	E	E	E	E	E	E	E	E	E
Aluminum Nitrate	E	E	E	E	E	E	E	E	E	E	E	E
Aluminum Sulfate	G	E	E	E	E	E	E	E	E	E	E	E
Ammonia, Anhydrous	E	F	E	G	E	G	E	F	NR	E	E	E
Ammonia, Liquid	G	G	E	E	E	E	E	F	E	E	E	E
Ammonia, in Water	G	G	G	G	G	G	E	G	G	E	E	E
Ammonia, Gas (Cold)	Anhydrous Ammonia Hose Only											
Ammonia, Gas (150°F)	Anhydrous Ammonia Hose Only											
Ammonium Carbonate	E	E	E	F	E	E	E	E	E	E	NR	E
Ammonium Chloride	E	E	E	E	E	E	E	E	E	E	E	E
Ammonium Hydroxide	G	G	E	G	G	E	G	G	G	E	E	E
Ammonium Metaphosphate	E	E	E	E	E	E	E	E	E	E	E	E
Ammonium Nitrate	G	E	E	E	E	E	E	E	E	E	E	E
Ammonium Nitrite	E	E	E	E	E	E	E	E	E	E	E	E

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CHEMICAL	NATURAL RUBBER	SBR	BUTYL	NITRILE	NEOPRENE	HYPALON®	EPDM	EPICHLOROHYDRIN	VITON®	XLPE	CPE	UHMW
Ammonium Persulfate	E	NR	E	NR	E	E	G	F	E	E	NR	E
Ammonium Phosphate	E	E	E	E	E	E	E	E	E	E	E	E
Ammonium Sulfate	E	E	E	E	E	E	E	E	E	E	E	E
Ammonium Sulfide	E	E	E	E	E	E	E	E	E	E	E	E
Ammonium Sulfite	E	E	E	E	E	E	E	E	E	E	E	E
Ammonium Thiocyanate	E	E	E	E	E	E	E	E	E	E	E	E
Ammonium Thiosulfate	E	E	E	E	E	E	E	E	E	E	E	E
Amyl Acetate	F	NR	G	NR	NR	NR	G	NR	NR	NR	F	NR
Amyl Acetone	NR	NR	G	NR	NR	NR	G	NR	NR	E	NR	E
Amyl Alcohol	E	E	E	E	E	E	E	G	E	E	E	E
Amylamine	F	G	G	F	NR	F	NR	F	NR	E	G	E
Amyl Borate	NR	NR	NR	E	F	F	NR	F	E	E	NR	E
Amyl Chloride	NR	NR	NR	NR	NR	NR	NR	NR	E	E	F	E
Amyl Chloronapthalene	NR	NR	NR	G	NR	NR	NR	F	E	E	NR	E
Amyl Napthalene	NR	NR	NR	NR	NR	NR	NR	F	E	E	NR	E
Amyl Oleate	NR	NR	G	NR	NR	NR	G	F	F	E	NR	E
Amyl Phenol	NR	NR	NR	NR	NR	NR	NR	F	E	E	NR	E
Anethole	NR	NR	NR	NR	NR	NR	NR	NR	G	G	NR	G
Aniline	NR	NR	G	NR	F	F	G	NR	G	G	G	G
Aniline Dyes	F	F	G	F	F	F	G	F	G	E	NR	E
Aniline Hydrochloride	E	F	F	F	NR	NR	G	F	G	E	NR	E
Animal Fats	NR	NR	G	E	G	G	G	E	E	E	E	E
Animal Grease	NR	NR	F	G	G	F	G	G	E	E	G	E
Animal Oils	NR	NR	G	E	NR	NR	F	G	E	E	E	E
Ansul Ether	NR	NR	F	F	NR	NR	F	NR	NR	E	NR	E
Antifreeze (Ethylene Glycol)	E	E	E	E	E	E	E	E	E	E	E	E
Antimony Trichloride	NR	NR	E	G	G	G	G	F	E	E	NR	G
Antimony Pentachloride	NR	NR	F	NR	NR	NR	F	F	E	G	NR	G
Aqua Regia	NR	NR	NR	NR	NR	F	F	NR	G	NR	G	G
Aromatic Hydrocarbons	NR	NR	NR	F	NR	NR	NR	G	E	E	F	E
Arquad	E	E	E	E	E	E	E	E	E	E	NR	E
Arsenic Acid	E	E	E	E	E	E	E	E	E	E	E	E
Arsenic Chloride	NR	NR	NR	F	E	NR	G	F	NR	NR	NR	NR
Arsenic Trichloride	NR	NR	NR	F	E	NR	G	F	NR	NR	NR	NR
Asphalt	NR	NR	NR	E	G	NR	G	E	E	G	NR	G
Astm #1 Oil	NR	NR	NR	E	E	G	NR	E	E	E	E	E
Astm #2 Oil	NR	NR	NR	E	G	F	NR	E	E	E	E	E
Astm #3 Oil	NR	NR	NR	E	G	F	NR	E	E	E	E	E
Aviation Gasoline	NR	NR	NR	E	F	NR	NR	E	E	E	G	E
Barium Carbonate	E	E	E	E	E	E	E	E	E	E	E	E
Barium Chloride	E	E	E	E	E	E	E	E	E	E	E	E
Barium Hydroxide	E	E	E	E	E	E	E	E	E	E	E	E
Barium Sulfate	E	E	E	E	E	E	E	E	E	E	E	E
Barium Sulfide	E	E	E	E	E	E	E	E	E	E	E	E

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CHEMICAL	NATURAL RUBBER	SBR	BUTYL	NITRILE	NEOPRENE	HYPALON®	EPDM	EPICHLOROHYDRIN	VITON®	XLPE	CPE	UHMW
Beer	FDA Tube Required											
Beet Sugar Liquors	E	E	E	E	E	E	E	E	E	E	E	E
Benzaldehyde	NR	NR	G	NR	NR	NR	G	NR	NR	E	F	E
Benzene (Benzol)	NR	NR	NR	F	NR	NR	NR	F	E	E	F	E
Benzene Sulfonic Acid	NR	NR	NR	F	E	E	F	G	E	E	NR	E
Benzine Solvent (Ligroin)	NR	NR	NR	E	G	NR	NR	G	E	E	NR	E
Benzoic Acid	G	NR	E	NR	E	G	G	F	E	E	E	E
Benzoic Aldehyde	NR	NR	NR	NR	NR	NR	NR	F	NR	E	NR	E
Benzotrichloride	NR	NR	NR	NR	NR	NR	NR	NR	G	G	NR	G
Benzoyl Chloride	NR	NR	NR	NR	NR	NR	NR	NR	G	G	NR	G
Benzyl Acetate	NR	NR	G	NR	NR	G	G	NR	NR	E	E	E
Benzyl Alcohol	G	G	G	NR	G	G	G	NR	E	E	E	E
Benzyl Chloride	NR	NR	F	NR	NR	NR	NR	NR	E	E	NR	E
Bichromate of Soda (Sodium Dichromate)	NR	NR	E	NR	G	G	F	F	E	E	E	E
Black Sulfate Liquor	G	G	E	G	E	G	E	E	E	E	NR	E
Blast Furnace Gas	NR	NR	F	F	G	G	F	F	E	E	NR	E
Bleach Solutions	NR	NR	G	NR	NR	F	G	NR	G	G	E	G
Borax	G	G	E	G	E	E	E	E	E	E	E	E
Bordeaux Mixture	G	G	E	E	E	E	E	E	E	E	NR	E
Boric Acid	E	E	E	E	E	E	E	E	E	E	E	E
Br&y	FDA Tube Required											
Brine	E	E	E	E	E	E	E	G	E	E	E	E
Bromine	NR	NR	NR	NR	NR	F	NR	NR	F	NR	NR	NR
Bromine Water	NR	NR	F	F	G	E	F	F	E	E	NR	E
Bromobenzene	NR	NR	NR	NR	NR	NR	NR	NR	G	F	NR	F
Bunker Oil	NR	NR	NR	E	G	NR	NR	E	E	E	E	E
Butanol (Butyl Alcohol)	E	E	E	G	E	E	E	E	E	E	E	E
Butadiene	NR	NR	NR	NR	F	G	NR	NR	E	F	NR	F
Butane	Use Butane–Propane Hose Only											
Butter (Non FDA)	F	F	E	E	G	E	G	E	E	E	E	E
Butyl Acetate	NR	NR	G	NR	NR	NR	F	NR	NR	E	G	E
Butyl Acrylate	NR	NR	NR	NR	NR	NR	NR	NR	NR	G	G	G
Butylamine	G	F	F	F	NR	F	F	F	NR	E	G	E
Butyl Benzene	NR	NR	NR	NR	NR	NR	NR	NR	E	E	F	E
Butyl Bromide	NR	NR	NR	NR	NR	NR	NR	NR	G	G	F	G
Butyl Butyrate	NR	NR	F	NR	NR	NR	G	F	F	G	F	G
Butyl Carbitol	NR	NR	E	G	G	G	E	E	E	E	E	E
Butyl Cellosolve	NR	NR	E	G	G	G	E	E	NR	E	G	E
Butyl Chloride	NR	NR	F	NR	NR	NR	NR	F	E	G	F	G
Butyl Ether	NR	NR	F	G	G	G	F	G	NR	E	E	E
Butyl Ethyl Acetaldehyde	NR	NR	F	NR	NR	NR	NR	F	NR	E	NR	E
Butyl Ethyl Ether	NR	NR	F	NR	NR	G	F	F	F	E	E	E
Butyl Oleate	NR	NR	G	NR	NR	NR	G	F	E	E	NR	E

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CHEMICAL	NATURAL RUBBER	SBR	BUTYL	NITRILE	NEOPRENE	HYPALON®	EPDM	EPICHLOROHYDRIN	VITON®	XLPE	CPE	UHMW
Butyl Phthalate	NR	NR	F	NR	NR	NR	F	F	F	E	F	E
Butyl Stearate	NR	NR	F	G	NR	NR	F	F	E	E	G	E
Butyraldehyde	F	NR	NR	NR	NR	NR	NR	NR	NR	E	G	E
Butyric Acid	F	NR	F	F	F	G	F	G	F	E	E	E
Butyric Anhydride	F	NR	F	F	NR	G	F	G	F	E	NR	E
Calcium Acetate	F	NR	E	NR	NR	NR	E	F	NR	E	G	E
Calcium Bisulfate	E	E	E	E	E	E	E	E	E	E	E	E
Calcium Bisulfite	F	E	G	E	E	E	F	E	E	E	E	E
Calcium Carbonate	E	E	E	E	E	E	E	E	E	E	E	E
Calcium Chloride	E	E	E	E	E	E	E	E	E	E	E	E
Calcium Hydroxide	E	G	E	G	E	G	E	E	F	E	E	E
Calcium Hypochlorite	NR	NR	G	NR	NR	F	G	F	E	G	E	G
Calcium Nitrate	E	E	E	E	E	E	E	E	E	E	E	E
Calcium Sulfate	E	E	E	E	E	E	E	E	E	E	E	E
Calcium Sulfide	E	E	E	E	E	E	E	E	E	E	E	E
Calcium Sulfite	E	E	E	E	E	E	E	E	E	E	E	E
Caliche Liquor (Crude Sodium Nitrate)	E	E	E	F	G	E	E	E	E	E	E	E
Cane Sugar Liquors (Non FDA)	E	E	E	E	E	E	E	E	E	E	E	E
Carbitol	NR	NR	E	G	G	G	G	F	E	E	E	E
Carbitol Acetate	NR	NR	G	NR	NR	NR	G	F	NR	E	NR	E
Carbolic Acid (Phenol)	NR	NR	G	NR	F	F	F	NR	E	E	E	E
Carbon Bisulfide or Disulfide	NR	NR	NR	NR	NR	NR	NR	NR	E	E	F	F
Carbon Dioxide	E	E	E	E	E	E	E	E	E	E	E	E
Carbonic Acid	E	E	E	E	E	E	E	E	E	E	E	E
Carbon Monoxide	E	E	E	E	E	E	E	E	E	E	E	E
Carbon Tetrachloride	NR	NR	G	F	NR	NR	G	NR	E	F	F	F
Carbon Tetrafluoride	NR	NR	NR	F	NR	NR	NR	F	E	F	NR	F
Castor Oil	F	NR	G	E	G	F	G	E	E	E	E	E
Caustic Potash (Potassium Hydroxide)	E	G	E	E	G	E	E	E	F	E	E	E
Caustic Soda (Sodium Hydroxide)	E	G	E	G	G	G	E	E	F	E	E	E
Cellosolve	NR	NR	G	G	E	G	G	G	F	E	E	E
Cellulose Acetate	F	NR	G	NR	F	F	G	F	NR	G	NR	G
Cellulube	F	NR	G	NR	NR	NR	E	NR	F	E	NR	E
China Wood Oil (Tung Oil)	NR	NR	G	E	G	G	G	G	E	E	E	E
Chlorine Dioxide	NR	NR	NR	NR	NR	F	NR	NR	E	G	NR	G
Chlorine Gas (Dry)	F	F	F	F	NR	G	F	G	E	G	NR	G
Chlorine, Water Solns. -0.02	F	NR	F	NR	NR	G	F	F	E	E	NR	E
Chloroacetic Acid	G	NR	F	NR	NR	NR	F	NR	F	E	NR	NR
Chloroacetone	NR	NR	G	NR	NR	G	NR	NR	NR	E	NR	E
Chlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	E	G	NR	G
Chlorobutane	NR	NR	NR	NR	NR	NR	NR	NR	E	G	F	G
Chlorobutadiene	NR	NR	NR	NR	NR	NR	NR	NR	E	G	NR	G
Chloroform	NR	NR	NR	NR	NR	NR	NR	NR	E	G	F	G
Chlorinated Hydrocarbons	NR	NR	NR	NR	NR	NR	NR	NR	E	G	NR	G

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Chloropentane	NR	NR	NR	NR	F	NR	NR	F	E	E	F	E
Chlorophenol	NR	NR	NR	NR	NR	NR	NR	NR	G	G	F	G
Chloropropanone	NR	NR	F	NR	NR	NR	F	NR	NR	E	NR	E
Chlorosulfonic Acid	NR	NR	NR	NR	NR	F	NR	F	NR	G	NR	G
Chlorothene (Trichloroethane)	NR	NR	NR	NR	NR	NR	NR	F	E	G	F	G
Chlorotoluene	NR	NR	NR	NR	NR	NR	NR	NR	E	G	G	G
Chromic Acid	NR	NR	NR	NR	NR	E	F	F	E	E	E	E
Citric Acid	E	E	E	G	G	E	E	E	E	E	E	E
Coal Oil	NR	NR	NR	E	G	NR	NR	G	E	E	E	E
Coal Tar	NR	NR	NR	E	G	G	G	E	E	E	E	E
Coal Tar Naptha	NR	NR	NR	F	F	NR	NR	F	E	E	E	E
Cobalt Chloride	E	E	E	E	E	E	E	E	E	E	E	E
Coconut Oil	NR	NR	G	E	G	G	E	E	E	E	E	E
Cod Liver Oil	NR	NR	E	E	G	G	E	E	E	E	E	E
Coke Oven Gas	NR	NR	F	NR	NR	G	NR	F	E	E	NR	E
Copper Arsenate	E	E	E	E	E	E	E	E	E	E	E	E
Copper Chloride	E	E	E	E	E	E	E	E	E	E	E	E
Copper Cyanide	E	E	E	E	E	E	E	E	E	E	E	E
Copper Nitrate	E	E	E	E	E	E	E	E	E	E	E	E
Copper Nitrite	E	E	E	E	E	E	E	E	E	E	E	E
Copper Sulfate	F	E	E	E	E	E	E	E	E	E	E	E
Copper Sulfide	F	E	E	E	E	E	E	E	E	E	E	E
Corn Oil	NR	NR	G	E	G	G	G	E	E	E	E	E
Cottonseed Oil	NR	NR	E	E	G	G	E	E	E	E	E	E
Creosote (Wood)	NR	NR	NR	G	F	F	NR	G	E	E	NR	E
Creosote (Coal Tar)	NR	NR	NR	G	F	F	NR	G	E	E	NR	E
Cresols	NR	NR	NR	F	F	F	NR	F	E	E	E	E
Cresylic Acid	NR	NR	NR	F	F	F	NR	F	E	E	NR	E
Crotonaldehyde	NR	NR	E	NR	NR	NR	F	NR	NR	E	E	E
Crude Oil	NR	NR	NR	E	F	NR	NR	E	E	E	E	E
Cumene	NR	NR	NR	F	F	NR	NR	F	E	E	F	E
Cupric Carbonate	F	F	E	G	G	G	E	G	E	E	E	E
Cupric Chloride	F	F	E	E	G	E	E	G	E	E	NR	E
Cupric Nitrate	F	F	E	E	G	E	E	G	E	E	E	E
Cupric Nitrite	F	F	E	E	G	E	E	G	E	E	E	E
Cupric Sulfate	F	G	E	E	G	G	E	E	E	E	E	E
Cyclohexane	NR	NR	NR	G	NR	NR	NR	G	E	E	E	E
Cyclohexanone	NR	NR	NR	NR	NR	NR	NR	NR	F	E	F	E
Cyclohexanol	NR	NR	NR	G	G	NR	NR	G	G	E	E	E
Cyclopentane	NR	NR	NR	F	NR	NR	NR	G	E	E	F	E
P-Cymene	NR	NR	NR	F	NR	NR	NR	G	E	E	F	E
DDT In Kerosene	NR	NR	NR	E	G	F	NR	E	E	E	E	E
Decaline	NR	NR	NR	NR	NR	NR	NR	NR	E	E	F	E
Decane	NR	NR	NR	G	NR	NR	NR	G	E	E	NR	E

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Detergent Solutions	G	G	E	E	G	E	E	E	E	E	E	E
Diacetone Alcohol	NR	NR	E	NR	G	G	G	NR	NR	E	E	E
Diamylamine	G	F	E	G	E	F	F	G	G	E	E	E
Dibenzyl Ether	NR	NR	G	NR	NR	NR	NR	NR	F	E	F	E
Dibenzyl Sebacate	F	NR	G	NR	NR	NR	G	NR	G	E	NR	E
Dibromobenzene	NR	NR	NR	NR	NR	NR	NR	NR	E	G	NR	G
Dibutylamine	G	F	F	G	E	F	G	G	NR	E	E	E
Dibutylether	NR	NR	NR	NR	NR	NR	G	F	F	E	E	E
Dibutylphthalate	NR	NR	G	NR	NR	NR	E	NR	NR	E	F	E
Dibutyl Sebacate	NR	NR	G	NR	NR	NR	G	NR	G	G	G	G
Dicalcium Phosphate	E	E	E	E	E	E	E	E	E	E	E	E
Dichloroacetic Acid	NR	NR	F	NR	NR	NR	F	NR	F	E	G	E
P-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	E	E	NR	G
Dichlorobutane	NR	NR	NR	NR	NR	NR	NR	NR	E	E	F	E
Dichloroisopropyl Ether	NR	NR	F	NR	NR	NR	F	NR	F	E	NR	E
Dicyclohexylamine	NR	NR	NR	NR	NR	G	NR	NR	E	G	NR	G
Dichlorodifluoromethane (Freon 12)	NR	NR	NR	E	G	NR	NR	G	E	E	NR	E
Dichloroethane	NR	NR	F	NR	NR	NR	NR	NR	E	E	F	F
Dichloroethylene	NR	NR	F	NR	NR	NR	NR	NR	E	E	NR	NR
Dichloroethyl Ether	NR	NR	NR	NR	NR	NR	NR	NR	F	E	G	E
Dichlorohexane	NR	NR	NR	NR	NR	NR	NR	NR	E	E	F	E
Dichloromethane	NR	NR	NR	NR	NR	NR	NR	NR	E	E	F	E
Dichloropentane	NR	NR	NR	NR	NR	NR	NR	NR	E	E	F	E
Dieldrin In Xylene	NR	NR	NR	NR	NR	NR	NR	NR	E	E	NR	E
Dieldrin In Xylene & Water Spray	NR	NR	NR	G	G	NR	NR	G	E	E	NR	E
Diesel Oil	NR	NR	NR	E	G	F	NR	E	E	E	E	E
Diethanolamine	G	F	G	G	G	F	F	G	G	E	E	E
Diethylamine	G	F	G	G	G	F	F	G	NR	E	G	E
Diethyl Benzene	NR	NR	NR	NR	NR	NR	NR	NR	E	E	F	E
Diethyl Ether	NR	NR	NR	G	F	NR	NR	NR	NR	E	E	E
Diethylene Dioxide	NR	NR	G	NR	NR	NR	G	F	NR	E	G	E
Diethylene Glycol	E	E	E	E	E	E	E	E	E	E	E	E
Diethylenetriamine	G	G	E	G	F	F	E	G	F	E	E	E
Diethyl Oxa!ate	F	NR	F	NR	NR	NR	E	NR	F	E	E	E
Diethyl Phthalate	NR	NR	E	NR	NR	NR	F	NR	F	E	G	E
Diethyl Sebacate	NR	NR	E	NR	NR	NR	F	NR	G	E	G	E
Diethyl Sulfate	NR	NR	G	NR	NR	NR	G	NR	E	E	E	E
Diethyl Triamine	G	F	E	G	G	F	G	G	F	E	E	E
Dihydroxyethyl Amine	G	F	E	G	G	F	G	G	F	E	NR	E
Dihydroxyethyl Ether	E	E	E	E	G	E	G	E	E	E	E	E
Diisobutylene	NR	NR	NR	E	G	NR	NR	E	E	E	F	E
Diisobutyl Ketone	NR	NR	G	NR	NR	NR	G	NR	NR	E	NR	E
Diisodecyl Adipate	NR	NR	E	NR	NR	F	E	NR	F	E	NR	E
Diisodecyl Phthalate	NR	NR	E	NR	NR	F	E	NR	F	E	NR	E

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CHEMICAL RESISTANCE CHART

CHEMICAL	NATURAL RUBBER	SBR	BUTYL	NITRILE	NEOPRENE	HYPALON®	EPDM	EPICHLOROHYDRIN	VITON®	XLPE	CPE	UHMW
Diisooctyl Adipate	NR	NR	E	NR	NR	NR	E	NR	F	E	NR	E
Diisooctyl Phthalate	NR	NR	E	NR	NR	F	E	NR	F	E	NR	E
Diisopropanol Amine	G	F	E	G	NR	F	E	G	F	E	NR	E
Diisopropyl Benzene	NR	NR	NR	F	NR	NR	NR	F	E	E	NR	E
Diisopropyl Ether	NR	NR	NR	G	NR	NR	NR	G	G	E	E	E
Diisopropyl Ketone	NR	NR	E	NR	NR	NR	E	NR	NR	E	F	E
Dilauryl Ether	NR	NR	NR	F	NR	F	NR	NR	F	E	NR	E
Dimethylamine	G	F	E	G	G	F	E	G	F	E	E	E
Dimethyl Benzene	NR	NR	NR	NR	NR	NR	NR	NR	E	E	NR	E
Dimethylaniline	NR	NR	NR	NR	NR	NR	F	NR	NR	G	F	G
Dimethylformamide (DMF)	F	F	F	NR	F	F	F	NR	NR	E	NR	E
Dimelhyl Ketone (Acetone)	G	F	E	NR	F	F	E	NR	NR	E	E	E
Dimethyl Phthalate	NR	NR	E	NR	NR	NR	G	NR	F	E	E	E
Dimethyl Sulfate	NR	NR	G	NR	NR	NR	NR	NR	NR	E	E	E
Dimethyl Sulfide	NR	NR	F	NR	NR	NR	NR	NR	F	G	G	G
Dinitrobenzene	NR	NR	F	NR	F	NR	F	NR	E	E	NR	E
Dinitrotoluene	NR	NR	NR	NR	NR	NR	NR	NR	G	E	NR	E
Dioctyl Adipate (DOA)	NR	NR	E	NR	NR	NR	G	NR	F	E	F	E
Dioctylamine	G	G	E	G	NR	F	G	G	F	E	NR	E
Dioctyl Phthalate (DOP)	NR	NR	G	NR	NR	NR	G	G	E	E	F	E
Dioctyl Sebacate (DOS)	NR	NR	G	NR	NR	NR	G	NR	G	E	F	E
Dioxane	NR	NR	G	NR	NR	NR	G	NR	NR	E	G	E
Dioxolane	NR	NR	F	NR	NR	NR	G	NR	F	E	G	E
Dipentene (Limonene)	NR	NR	NR	F	NR	NR	NR	F	E	E	G	E
Diphenyl (Biphenyl)	NR	NR	NR	NR	NR	NR	NR	NR	E	E	NR	E
Diphenyl Oxide (Phenyl Ether)	NR	NR	NR	NR	NR	F	NR	NR	E	E	NR	E
Dipropylene Glycol	E	E	E	E	E	E	E	E	E	E	E	E
Dipropyl Ketone	NR	NR	G	NR	NR	NR	G	NR	NR	E	F	E
Dipropylamine	G	G	E	G	G	F	E	G	F	E	G	E
Disodium Phosphate	E	E	E	E	E	E	E	E	E	E	E	E
Divinyl Benzene	NR	NR	NR	NR	NR	NR	NR	NR	E	E	NR	E
D.M.P. (Dimethyl Phenols)	NR	NR	NR	NR	NR	NR	NR	NR	NR	F	E	F
Dodecyl Benzene	NR	NR	NR	NR	NR	NR	NR	NR	E	E	NR	E
Dodecyl Toluene	NR	NR	NR	NR	NR	NR	NR	NR	E	E	NR	E
Dowfume W 40, 1	NR	NR	NR	NR	F	F	F	NR	F	G	NR	G
Dow-Per (Perchloroethylene)	NR	NR	NR	F	NR	NR	NR	F	E	E	F	E
Dowtherm Oil, A & E	NR	NR	NR	NR	NR	F	NR	NR	E	E	F	E
Dowtherm S.R.I.	E	E	E	E	E	E	E	E	E	E	NR	E
Dry Cleaning Fluids	NR	NR	NR	F	NR	NR	NR	F	E	G	NR	G
Epichlorohydrin	NR	NR	F	NR	NR	F	G	NR	NR	G	NR	G
Ethanol (Ethyl Alcohol)	E	E	E	E	E	E	E	E	F	E	E	E
Ethanolamine	G	F	G	G	G	F	G	G	NR	E	E	E
Ethers	NR	NR	F	NR	NR	F	NR	NR	F	E	E	E
Ethyl Acetate	NR	NR	G	NR	NR	F	G	NR	NR	E	G	E
Ethyl Acetoacetate	NR	NR	G	NR	NR	NR	G	NR	NR	E	E	E

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CHEMICAL RESISTANCE CHART

CHEMICAL	NATURAL RUBBER	SBR	BUTYL	NITRILE	NEOPRENE	HYPALON®	EPDM	EPICHLOROHYDRIN	VITON®	XLPE	CPE	UHMW
Ethyl Benzoate	NR	NR	G	G	F	F	G	G	F	E	NR	E
Ethyl Butyl Alcohol	E	E	E	E	E	E	E	E	G	E	E	E
Ethyl Butyl Amine	G	F	E	G	G	F	G	G	G	E	NR	E
Ethyl Butyl Ketone	NR	NR	G	NR	NR	NR	G	NR	NR	E	F	E
Ethyl Cellulose	G	G	G	G	G	G	G	G	NR	E	NR	E
Ethyl Chloride	F	F	NR	F	F	NR	NR	G	E	E	NR	G
Ethyl Dichloride	NR	NR	NR	NR	NR	NR	NR	NR	G	G	F	G
Ethylene	NR	NR	NR	E	G	F	NR	E	E	E	NR	E
Ethylene Bromide	NR	NR	NR	NR	NR	NR	NR	NR	E	G	NR	G
Ethylene Chloride	NR	NR	NR	NR	NR	NR	NR	NR	E	G	NR	G
Ethylene Diamine	G	F	E	G	E	F	E	E	NR	E	E	E
Ethylene Dibromide	NR	NR	NR	NR	NR	NR	NR	NR	G	G	F	G
Ethylene Dichloride	NR	NR	NR	NR	NR	NR	NR	NR	G	G	F	G
Ethylene Glycol	E	E	E	E	E	E	E	E	E	E	E	E
Ethylene Oxide	NR	NR	F	NR	NR	NR	F	NR	NR	F	NR	F
Ethylene Trichloride (Trichloroethylene)	NR	NR	NR	F	NR	NR	NR	F	E	G	F	G
Ethyl Ether	NR	NR	NR	F	NR	NR	NR	G	NR	E	E	NR
Ethyl Formate	NR	NR	G	NR	NR	NR	F	NR	NR	E	E	E
Ethyl Hexanol	E	E	E	E	E	E	E	E	G	E	E	E
Ethyl Methyl Ketone	F	NR	G	NR	NR	NR	G	NR	NR	E	F	E
Ethyl Oxalate	E	E	E	NR	NR	NR	G	NR	F	E	E	E
Ethyl Phthalate	NR	NR	E	NR	NR	NR	G	NR	F	E	G	E
Ethyl Propyl Ether	NR	NR	NR	NR	NR	NR	NR	NR	F	E	E	E
Ethyl Propyl Ketone	NR	NR	G	NR	NR	NR	G	NR	NR	E	F	E
Ethyl Silicate	F	F	E	E	E	E	E	E	E	E	E	E
Ethyl Sulfate	NR	NR	G	NR	NR	NR	G	NR	NR	E	NR	E
EX. TRI (Trichloroethylene)	NR	NR	NR	F	NR	NR	NR	F	E	G	F	G
Fatty Acids	NR	NR	NR	G	G	G	F	E	E	E	NR	E
Ferric Bromide	E	E	E	E	E	E	E	E	E	E	E	E
Ferric Chloride	E	E	E	E	E	E	E	E	E	E	E	E
Ferric Nitrate	E	E	E	E	E	E	E	E	E	E	E	E
Ferric Sulfate	E	E	E	E	E	E	E	E	E	E	E	E
Ferrous Acetate	NR	NR	E	NR	NR	NR	G	NR	NR	E	NR	E
Ferrous Ammonium Sulfate	E	E	E	E	E	E	E	E	E	E	E	E
Ferrous Chloride	E	E	E	E	E	E	E	E	E	E	E	E
Ferrous Hydroxide	G	F	E	G	E	G	E	E	F	E	NR	E
Ferrous Sulfate	E	E	E	E	E	E	E	E	E	E	E	E
Fish Oil	NR	NR	E	E	E	E	E	E	E	E	E	E
Fluoroboric Acid	E	F	E	E	G	E	E	E	F	E	E	E
Fluorine	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Fluosilicic Acid	G	G	E	G	G	E	G	F	E	E	E	E
Formaldehyde (Formalin)	F	F	E	G	G	G	G	G	E	E	E	E
Formamide	E	E	E	E	E	E	E	E	NR	E	NR	E
Formic Acid	G	G	E	F	F	F	F	F	NR	G	NR	G
Freon 11	NR	NR	NR	E	G	E	NR	E	E	E	NR	E

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CHEMICAL RESISTANCE CHART

CHEMICAL	NATURAL RUBBER	SBR	BUTYL	NITRILE	NEOPRENE	HYPALON®	EPDM	EPICHLOROHYDRIN	VITON®	XLPE	CPE	UHMW
Freon 12	NR	NR	NR	G	F	NR	F	E	G	G	NR	G
Freon 13	E	E	E	E	E	E	E	E	E	E	E	E
Freon 21	NR	NR	NR	NR	G	NR	NR	G	NR	E	NR	E
Freon 22	NR	NR	E	NR	E	NR	E	E	NR	E	NR	E
Freon 31	G	G	E	NR	E	G	E	NR	NR	E	NR	E
Freon 32	E	E	E	E	E	E	E	E	F	E	NR	E
Freon 112	NR	NR	NR	G	G	G	NR	G	E	E	NR	E
Freon 113	F	G	NR	E	E	E	NR	E	G	E	NR	E
Freon 114	E	E	E	E	E	E	E	E	G	E	E	E
Freon 115	E	E	E	E	E	E	E	E	G	E	NR	E
Freon 142b	E	E	E	E	E	E	E	E	NR	E	NR	E
Freon 152a	E	E	E	E	E	F	E	E	NR	E	NR	E
Freon 218	E	E	E	E	E	E	E	E	E	E	E	E
Freon C316	E	E	E	E	E	E	E	E	E	E	NR	E
Freon C318	E	E	E	E	E	E	E	E	E	E	E	E
Freon 13B1	E	E	E	E	E	E	E	E	E	E	E	E
Freon 114B2	NR	F	NR	G	E	E	NR	G	G	E	NR	E
Freon 502	E	E	E	G	E	E	E	G	G	E	NR	E
Freon TF	F	G	E	E	E	E	E	E	E	E	NR	E
Freon T-WD602	F	G	E	E	G	G	G	E	E	E	NR	E
Freon TMC	G	F	G	G	G	G	G	G	E	E	NR	E
Freon T-P35	E	E	E	E	E	E	E	E	E	E	E	E
Freon TA	E	E	E	E	E	E	E	E	F	E	NR	E
Freon TC	NR	G	E	E	E	E	G	E	E	E	NR	E
Freon MF	NR	G	NR	E	F	G	NR	E	E	E	NR	E
Freon BF	NR	NR	NR	G	G	G	NR	G	E	E	NR	E
Fuel Oil	NR	NR	NR	E	G	F	NR	E	E	E	E	E
Fuel, ASTM	E	NR	NR	NR	E	E	F	NR	E	E	E	E
Fuel, ASTM	G	NR	NR	NR	E	G	F	NR	E	E	E	G
Fuel, ASTM	F	NR	NR	NR	G	F	NR	NR	G	E	G	F
Fumaric Acid	E	E	NR	E	G	G	NR	E	E	E	E	E
Furan D	NR	F	NR	NR	NR	F	NR	NR	E	E	NR	E
Furfural D	NR	G	NR	F	G	G	NR	NR	E	E	NR	E
Furfuryl Alcohol	NR	NR	F	NR	F	F	F	NR	NR	E	E	E
Gallic Acid	E	E	G	G	G	G	G	G	G	E	E	E
Gasoline, Reg	NR	NR	NR	E	E	F	NR	E	E	E	G	E
Gasoline, Hi-Test	NR	NR	NR	E	G	NR	NR	E	E	E	E	E
Gasoline, Lead Free	NR	NR	NR	G	G	NR	NR	E	E	E	NR	E
Gelatin	E	E	E	E	E	E	E	E	E	E	E	E
Gluconic Acid	NR	NR	F	F	F	G	F	F	E	E	E	E
Glucose	E	E	E	E	E	E	E	E	E	E	E	E
Glue	E	E	E	E	E	E	E	E	E	E	E	E
Glycerine (Glycerol)	E	E	E	E	E	E	E	E	E	E	E	E
Glycols	E	E	E	E	E	E	E	E	E	E	E	E
Grease	NR	NR	NR	E	G	F	NR	E	E	E	NR	E

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CHEMICAL RESISTANCE CHART

CHEMICAL	NATURAL RUBBER	SBR	BUTYL	NITRILE	NEOPRENE	HYPALON®	EPDM	EPICHLOROHYDRIN	VITON®	XLPE	CPE	UHMW
Green Sulfate Liquor	E	E	E	E	G	E	E	E	G	E	E	E
Halowax Oil	NR	NR	NR	NR	NR	NR	NR	NR	E	E	NR	E
Heptachlor in Petroleum Solvents	NR	NR	NR	G	G	NR	NR	G	E	E	NR	E
Heptachlor in Petroleum Solvents, Water Spray	NR	NR	NR	G	G	NR	NR	G	E	E	NR	E
Heptanal (Heptaldehyde)	NR	NR	NR	NR	NR	NR	G	NR	NR	E	F	E
Heptane	NR	NR	NR	E	E	G	NR	E	E	E	E	E
Heptane Carboxylic Acid	NR	NR	F	F	G	G	F	E	E	E	E	E
Hexaldehyde	NR	NR	G	NR	G	F	G	NR	NR	E	NR	E
Hexane	NR	NR	NR	E	E	F	NR	E	E	E	E	E
Hexene	NR	NR	NR	G	G	F	NR	G	E	E	E	E
Hexanol (Hexyl Alcohol)	E	E	E	E	E	E	E	E	E	E	E	E
Hexylamine	G	F	G	G	G	F	G	G	NR	E	G	E
Hexylene	NR	NR	NR	E	G	NR	F	E	E	G	NR	G
Hexylene Glycol	E	E	E	E	E	E	E	E	E	E	E	E
Hexyl Methyl Ketone	NR	NR	G	NR	NR	NR	G	NR	NR	E	F	E
Hi-Tri (Trichloroethylene)	NR	NR	NR	F	NR	NR	NR	F	E	G	F	G
Hydraulic Fluid (Petroleum)	NR	NR	NR	E	G	G	NR	E	E	E	NR	E
Hydraulic Fluid (Phosphate Ester Base)	NR	NR	E	NR	NR	NR	E	NR	NR	E	NR	E
Hydraulic Fluid (Poly Alkylene Glycol Base)	G	G	E	E	E	E	E	E	E	E	E	E
Hydrobromic Acid	E	NR	E	NR	F	E	G	F	E	E	E	E
Hydrochloric Acid, 0.37	E	G	E	F	F	E	G	NR	E	E	E	E
Hydrochloric Acid, 0.5	E	F	G	NR	NR	E	F	NR	E	E	E	E
Hydrochloric Acid, 1	G	F	F	NR	NR	G	F	NR	F	E	E	E
Hydrocyanic Acid	G	F	E	G	F	E	G	F	G	E	NR	E
Hydrofluoric Acid	G	NR	G	NR	F	E	G	NR	G	E	E	E
Hydrofluosilic Acid	E	NR	E	NR	F	E	G	F	G	E	E	E
Hydrogen Gas	G	G	E	E	E	E	G	E	E	E	NR	E
Hydrogen Peroxide, 0.03	E	G	E	G	F	E	G	G	E	E	E	E
Hydrogen Peroxide, 0.1	NR	NR	F	NR	F	F	F	F	E	E	E	E
Hydrogen Peroxide, 0.3	NR	NR	NR	NR	NR	NR	F	NR	E	E	E	E
Hydrogen Peroxide, 0.9	NR	NR	NR	NR	NR	NR	F	NR	G	G	NR	G
Hydrogen Sulfide	NR	NR	E	NR	E	G	E	F	E	E	NR	E
Hydroquinone	G	G	G	NR	NR	F	G	NR	NR	E	NR	E
Hypochlorous Acid	G	G	G	NR	G	E	G	G	E	E	NR	E
Ink Oil (Linseed Oil Base)	NR	NR	G	G	G	G	G	E	E	E	E	E
Insulating Oil	NR	NR	NR	E	G	NR	NR	E	E	E	E	E
Iodine	NR	NR	NR	NR	NR	F	NR	NR	F	E	E	E
Iron Acetate	NR	NR	E	NR	NR	NR	G	NR	NR	E	NR	E
Iron Hydroxide	F	F	E	G	E	G	G	G	F	E	NR	E
Iron Salts	E	E	E	E	E	E	E	E	E	E	E	E
Iron Sulfate	E	E	E	E	E	E	E	E	E	E	E	E
Iron Sulfide	E	E	E	E	E	E	E	E	E	E	E	E
Isoamyl Acetate	NR	NR	E	NR	NR	NR	G	NR	NR	E	F	E
Isoamyl Alcohol	E	E	E	E	E	E	E	E	E	E	E	G

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Isoamyl Bromide	NR	NR	NR	NR	NR	NR	NR	NR	G	G	F	G
Isoamyl Butyrate	NR	NR	F	NR	NR	NR	F	NR	NR	G	NR	G
Isoamyl Chloride	NR	NR	F	NR	NR	NR	NR	NR	G	G	F	G
Isoamyl Ether	NR	NR	NR	NR	NR	NR	NR	NR	NR	E	E	E
Isoamyl Phthalate	NR	NR	E	NR	NR	NR	G	NR	F	E	F	E
Isobutane	NR	NR	NR	E	E	NR	NR	E	E	E	NR	E
Isobutanol (Isobutyl Alcohol)	E	E	E	E	E	E	E	E	E	E	E	E
Isobutyl Acetate	NR	NR	E	NR	NR	NR	G	NR	NR	E	G	E
Isobutyl Aldehyde	F	NR	G	NR	NR	NR	G	NR	NR	E	G	E
Isobutyl Amine	G	F	G	NR	NR	F	G	NR	NR	E	G	E
Isobutyl Bromide	NR	NR	NR	NR	NR	NR	NR	NR	G	G	F	G
Isobutyl Carbinol	E	E	E	E	G	E	E	E	G	E	E	E
Isobutyl Chloride	NR	NR	NR	NR	NR	NR	NR	NR	G	G	F	G
Isobutylene	NR	NR	NR	E	NR	NR	NR	G	E	E	NR	E
Isobutyl Ether	NR	NR	NR	NR	NR	NR	NR	NR	NR	E	E	E
Isocyanates	F	NR	G	NR	NR	F	G	F	F	G	NR	G
Isooctane	NR	NR	NR	E	E	G	NR	E	E	E	E	E
Isopentane	NR	NR	NR	E	E	NR	NR	E	E	G	E	G
Isopropyl Amine	G	F	E	G	E	F	G	G	NR	E	NR	E
Isopropyl Acetate	NR	NR	E	NR	NR	F	G	NR	NR	E	G	E
Isopropyl Alcohol (Iso-propanol)	E	E	E	E	E	E	G	E	G	G	E	G
Isopropyl Amine	G	NR	G	F	E	F	G	F	NR	E	NR	E
Isopropyl Benzene	NR	NR	NR	NR	NR	NR	NR	NR	E	E	F	E
Isopropyl Chloride	NR	NR	NR	NR	NR	NR	NR	NR	G	G	F	G
Isopropyl Ether	NR	NR	NR	F	NR	F	NR	F	NR	E	E	E
Isopropyl Toluene	NR	NR	NR	NR	NR	NR	NR	NR	E	E	F	E
Jet Fuels (JP 1-JP 6)	NR	NR	NR	E	G	F	NR	E	E	E	NR	E
Kerosene	NR	NR	NR	E	G	F	NR	E	E	E	E	E
Ketones	G	G	G	NR	NR	NR	G	NR	NR	E	F	E
Lactic Acid	G	G	G	E	E	E	G	E	E	E	NR	E
Lacquers	NR	NR	NR	NR	NR	NR	NR	NR	NR	E	NR	E
Lacquer Solvents	NR	NR	NR	NR	NR	NR	NR	NR	NR	E	NR	E
Lard	NR	NR	NR	E	G	NR	F	E	E	E	E	E
Lauryl Alcohol	E	E	E	E	E	E	E	E	G	E	E	E
Lead Acetate	NR	NR	E	F	F	NR	G	G	F	E	E	E
Lead Nitrate	E	E	E	E	E	E	E	E	E	E	E	E
Lead Sulfamate	G	G	E	G	E	G	E	G	E	E	NR	E
Lead Sulfate	E	E	E	E	E	E	E	E	E	E	E	E
Ligroin	NR	NR	NR	E	E	NR	NR	E	E	E	NR	E
Lime Water	NR	NR	E	F	E	E	E	F	E	E	E	E
Linseed Oil	NR	NR	E	E	G	G	G	E	E	E	E	E
Lindol (Tricresyl Phosphate)	NR	NR	E	NR	NR	G	E	NR	E	E	E	E
Liquid Soap	E	E	E	E	E	E	E	E	E	E	E	E

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Liquified Petroleum Gas	NR	NR	NR	E	G	G	NR	E	E	E	NR	E
Lubricating Oils	NR	NR	NR	E	G	F	NR	E	E	E	E	E
Lye (Sodium Hydroxide)	E	G	E	G	E	E	E	G	NR	E	E	E
Magnesium Acetate	NR	NR	E	NR	NR	NR	G	NR	NR	E	E	E
Magnesium Carbonate	E	E	E	E	E	E	E	E	E	E	E	E
Magnesium Chloride	E	E	E	E	E	E	G	E	E	E	E	E
Magnesium Hydrate	E	G	E	G	E	G	E	F	G	E	NR	E
Magnesium Hydroxide	E	E	E	E	E	E	G	E	E	E	E	E
Magnesium Nitrate	E	E	E	E	E	E	E	E	E	E	E	E
Magnesium Sulfate	E	E	E	E	E	E	E	E	E	E	E	E
Malathion 50 in Armomatic Solvents	NR	NR	NR	F	F	NR	NR	NR	E	E	NR	E
Malathion 50 in Aromatic Solvents, Water Spray	NR	NR	NR	E	E	NR	NR	E	E	E	NR	E
Maleic Acid	NR	NR	F	NR	F	NR	F	F	E	G	NR	G
Maleic Anhydride	NR	NR	F	NR	F	NR	F	F	E	E	NR	E
Malic Acid	E	G	NR	G	F	G	NR	F	E	E	NR	E
Manganese Sulfate	E	E	E	E	E	E	E	E	E	E	E	E
Manganese Sulfide	F	E	E	E	G	E	G	F	E	E	E	E
Manganese Sulfite	F	E	E	E	G	E	G	F	E	E	E	E
Mercuric Chloride	G	G	G	F	F	G	F	E	E	E	NR	E
Mercury	G	G	E	E	G	E	E	E	E	E	E	E
Methane	NR	NR	NR	E	G	G	NR	E	E	E	E	E
Methyl Acetate	F	NR	G	NR	NR	NR	G	NR	NR	E	E	E
Methyl Acrylate	F	NR	G	NR	F	NR	G	NR	NR	E	NR	E
Methacrylic Acid	NR	NR	G	NR	G	F	G	NR	G	E	NR	E
Methyl Alcohol (Methanol)	E	E	E	E	E	E	E	G	F	E	E	E
Methyl Benzene (Toluene)	NR	NR	NR	NR	NR	NR	NR	NR	E	E	F	E
Methyl Bromide	NR	NR	G	G	NR	NR	G	F	E	E	NR	E
Methyl Butyl Ketone	NR	NR	G	NR	NR	NR	G	NR	NR	E	F	E
Methyl Cellosolve	NR	NR	G	F	G	F	G	F	NR	E	E	E
Methyl Chloride	NR	NR	NR	F	NR	NR	NR	F	G	G	NR	F
Methyl Cyclohexane	NR	NR	NR	NR	NR	NR	NR	F	G	G	G	G
Methylene Bromide	NR	NR	NR	NR	NR	NR	NR	NR	G	G	F	F
Methylene Chloride	NR	NR	NR	NR	NR	NR	NR	NR	G	E	F	G
Methyl Ethyl Ketone (MEK)	G	NR	G	NR	NR	NR	G	NR	NR	E	F	E
Methyl Formate	F	F	G	NR	G	F	G	NR	F	G	NR	G
Methyl Hexanol	E	E	E	E	E	E	E	E	G	E	NR	E
Methyl Hexyl Ketone	NR	NR	G	NR	NR	NR	G	NR	NR	E	F	E
Methyl Isobutyl Carbinol	G	F	E	G	G	G	E	F	G	E	E	E
Methyl Isobutyl Ketone (MIBK)	NR	NR	G	NR	NR	NR	G	NR	NR	E	F	E
Methyl Isopropyl Ketone	NR	NR	G	NR	NR	NR	G	NR	NR	E	F	E
Methyl Propyl Ether	NR	NR	NR	NR	NR	NR	NR	NR	NR	E	NR	E
Methyl Propyl Ketone	NR	NR	G	NR	NR	NR	G	NR	NR	E	F	E
Methyl Methacrylate	NR	NR	NR	NR	NR	G	NR	NR	NR	G	F	G

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CHEMICAL RESISTANCE CHART

CHEMICAL	NATURAL RUBBER	SBR	BUTYL	NITRILE	NEOPRENE	HYPALON®	EPDM	EPICHLOROHYDRIN	VITON®	XLPE	CPE	UHMW
Methyl Salicylate	NR	NR	G	NR	NR	NR	G	NR	F	G	NR	G
Mineral Oil	NR	NR	NR	E	G	G	NR	E	E	E	E	E
Mineral Spirits	NR	NR	NR	E	G	NR	NR	E	E	E	NR	E
Monochlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	E	E	NR	E
Monochlorodifluoromethane (Freon 22)	NR	NR	E	NR	E	NR	E	E	NR	E	NR	E
Monoehanolamine	G	F	G	F	G	G	G	F	NR	E	NR	E
Monomethylether	G	G	E	E	E	F	E	E	F	E	E	E
Monovinyl Acetate	NR	NR	G	NR	NR	F	F	F	E	E	E	NR
Motor Oil	NR	NR	NR	E	E	NR	NR	E	E	E	E	E
Muriatic Acid	See Hydrochloric Acid, 37%											
Naphtha	NR	NR	NR	E	G	NR	NR	E	E	E	E	E
Napthalene	NR	NR	NR	NR	NR	NR	NR	NR	E	E	NR	E
Napthenic Acid	NR	NR	NR	F	NR	NR	NR	F	E	E	E	E
Natural Gas	Contact Customer Support											
Neatsfoot Oil	NR	NR	G	E	G	G	G	E	E	E	E	E
Neu-Tri (Trichloroethylene)	NR	NR	NR	F	NR	NR	NR	F	E	G	F	G
Nickel Acetate	NR	NR	E	NR	NR	NR	G	NR	NR	E	NR	E
Nickel Chloride	E	E	E	E	E	E	E	E	E	E	E	E
Nickel Nitrate	E	E	E	E	E	E	E	E	E	E	E	E
Nickel Plating Solution	E	NR	G	G	F	G	G	G	E	E	E	E
Nickel Sulfate	E	E	E	E	E	E	E	E	E	E	E	E
Niter Cake	E	E	E	E	E	E	E	E	E	E	E	E
Nitric Acid,10%	NR	NR	G	NR	F	G	G	NR	E	E	E	E
Nitric Acid, 0.2	NR	NR	G	NR	NR	G	F	NR	E	E	E	E
Nitric Acid, 0.3	NR	NR	G	NR	NR	F	F	NR	E	G	F	G
Nitric Acid, 30-70%	NR	NR	F	NR	NR	NR	NR	NR	F	F	NR	F
Nitric Acid, Red Fuming	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Nitrobenzene	NR	NR	NR	NR	NR	NR	NR	NR	G	E	F	E
Nitrogen Gas	E	E	E	E	E	E	E	E	E	E	E	E
Nitrogen Tetraoxide	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Nitromethane	G	G	G	NR	F	F	G	F	NR	E	E	E
Nitropropane	F	F	E	NR	F	F	G	F	NR	E	NR	E
Nitrous Oxide	E	E	E	E	E	E	E	E	E	E	E	E
Octadecanoic Acid	NR	NR	G	E	G	NR	F	E	F	E	E	E
Octane D	NR	NR	E	G	NR	NR	E	E	G	E	NR	G
Octanol (Octyl Alcohol)	G	G	G	G	E	G	G	E	E	E	E	E
Octyl Acetate	NR	NR	E	NR	NR	NR	G	NR	NR	E	F	E
Octyl Amine	F	F	G	F	G	F	G	F	NR	E	G	E
Octyl Carbinol	E	E	E	E	E	E	E	E	G	E	E	E
Octylene Glycol	E	E	E	E	E	E	E	E	E	E	E	E
Oil, Petroleum	NR	NR	NR	E	E	F	NR	E	E	E	E	E
Oil, Astm #1	NR	NR	NR	E	E	G	NR	E	E	E	E	E
Oil, Astm #2	NR	NR	NR	E	E	F	NR	E	E	E	E	E

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CHEMICAL RESISTANCE CHART												
CHEMICAL	NATURAL RUBBER	SBR	BUTYL	NITRILE	NEOPRENE	HYPALON®	EPDM	EPICHLOROHYDRIN	VITON®	XLPE	CPE	UHMW
Oil, Astm #3	NR	NR	E	G	F	NR	E	E	E	E	E	E
Oleic Acid	NR	NR	G	G	F	F	G	G	F	E	E	E
Oleum (Fuming Sulfuric Acid)	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Olive Oil (Non FDA)	NR	NR	G	E	G	G	G	G	E	E	NR	E
Orthodichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	E	G	NR	G
Oxalic Acid	F	F	E	F	G	G	E	F	F	E	G	E
Oxygen, Cold	G	G	E	G	G	G	G	G	E	E	NR	E
Oxygen, Hot	NR	NR	NR	NR	NR	NR	NR	NR	G	E	NR	E
Ozone	NR	F	G	NR	G	E	E	E	E	E	E	E
Paint Thinner (Duco)	NR	NR	NR	NR	NR	NR	NR	NR	F	E	NR	E
Palmitic Acid	NR	NR	G	E	G	G	G	G	E	G	E	G
Palm Oil	NR	NR	E	E	G	G	G	E	E	E	NR	E
Papermaker's Alum	E	E	E	E	E	E	E	E	E	E	E	E
Paradichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	E	G	NR	G
Paraffin	NR	NR	NR	E	E	NR	NR	E	E	NR	E	NR
Paraformaldehyde	NR	NR	G	G	G	G	G	G	F	E	NR	E
Peanut Oil	NR	NR	F	E	G	G	NR	E	E	E	E	E
Pentane	NR	NR	NR	E	E	G	NR	E	E	E	F	E
Perchloroethylene	NR	NR	NR	NR	NR	NR	NR	F	E	G	F	G
Perchloric Acid	G	G	G	NR	E	E	G	F	E	E	NR	E
Petrolatum	NR	NR	NR	E	E	F	NR	E	E	E	NR	E
Petroleum, Crude	NR	NR	NR	E	G	NR	NR	E	E	E	NR	E
Petroleum Ether (Naphtha)	NR	NR	NR	E	E	NR	NR	E	E	E	E	E
Petroleum Oils	NR	NR	NR	E	E	F	NR	E	E	E	NR	E
Phenol	F	F	G	NR	F	F	F	F	E	E	E	E
Phenolsulfonic Acid	NR	NR	F	NR	F	NR	F	F	E	G	E	G
Phenyl Chloride	NR	NR	NR	NR	NR	NR	NR	NR	E	E	NR	E
Phenylhydrazine	F	NR	G	NR	NR	F	F	NR	E	E	NR	E
Phorone	NR	NR	E	NR	NR	NR	G	NR	F	E	NR	E
Phosphate Esters	NR	NR	E	NR	NR	NR	E	NR	F	E	NR	E
Phosphoric Acid, 0.1	E	E	E	E	E	E	E	E	E	E	E	E
Phosphoric Acid, 10-85%	F	F	E	F	G	E	E	F	E	E	E	E
Phosphorous Trichloride	NR	NR	E	NR	NR	NR	E	F	E	E	NR	E
Pickling Solution	F	F	F	F	F	F	F	F	G	E	NR	E
Picric Acid, Molten	F	F	F	F	F	G	F	F	F	NR	NR	NR
Picric Acid, Water Soln.	E	F	E	G	G	E	G	G	F	E	NR	E
Pinene	NR	NR	NR	E	NR	NR	NR	E	E	E	G	E
Pine Oil	NR	NR	NR	F	F	NR	NR	F	G	E	G	E
Piperidine	NR	NR	NR	NR	NR	NR	NR	NR	NR	G	NR	G
Pitch	NR	NR	NR	G	G	F	NR	G	F	E	NR	E
Plating Solutions, Chrome	NR	NR	E	G	G	F	E	G	E	E	NR	E
Plating Solutions, Others	E	E	E	G	G	F	E	G	G	E	E	E
Polyvinyl Acetate Emulsion (PVA)	F	F	E	F	G	G	E	F	F	E	NR	E

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CHEMICAL RESISTANCE CHART

CHEMICAL	NATURAL RUBBER	SBR	BUTYL	NITRILE	NEOPRENE	HYPALON®	EPDM	EPICHLOROHYDRIN	VITON®	XLPE	CPE	UHMW
Polyethylene Glycol	E	E	E	E	E	E	E	E	E	E	E	E
Polypropylene Glycol	E	E	E	E	E	E	E	E	E	E	E	E
Potassium Acetate	NR	NR	E	NR	NR	NR	G	NR	NR	E	E	E
Potassium Bicarbonate	E	E	E	E	E	E	E	E	E	E	E	E
Potassium Bisulfate	E	E	E	E	E	E	E	E	E	E	E	E
Potassium Bisulfite	E	E	E	E	E	E	E	E	E	E	E	E
Potassium Carbonate	E	E	E	E	E	E	E	E	E	E	E	E
Potassium Chloride	E	E	E	E	E	E	E	E	E	E	E	E
Potassium Chromate	NR	NR	E	NR	F	F	G	F	E	G	E	G
Potassium Cyanide	E	E	E	E	E	E	E	E	E	E	E	E
Potassium Dichromate	NR	NR	E	NR	G	F	G	F	E	E	E	E
Potassium Hydrate	E	G	E	G	G	G	E	G	F	E	NR	E
Potassium Hydroxide	E	E	E	E	G	E	E	E	NR	E	E	E
Potassium Nitrate	E	E	E	E	E	E	E	E	E	E	E	E
Potassium Permanganate	NR	NR	E	NR	NR	NR	E	NR	E	E	NR	E
Potassium Silicate	E	E	E	E	E	E	E	E	E	E	E	E
Potassium Sulfate	E	E	E	E	E	E	E	E	E	E	E	E
Potassium Sulfide	E	E	E	E	E	E	E	E	E	E	E	E
Potassium Sulfite	E	E	E	E	E	E	E	E	E	E	E	E
Producer Gas	NR	NR	NR	E	G	G	NR	E	E	E	NR	E
Propane Gas	Use Butane–Propane Hose Only											
Propanediol	E	E	E	E	G	E	E	E	E	E	E	E
Propyl Acetate	NR	NR	G	NR	NR	NR	G	NR	NR	E	G	E
Propyl Alcohol (Propanol)	E	E	E	E	E	E	E	E	E	E	E	E
Propyl Aldehyde	F	NR	G	NR	NR	NR	G	NR	NR	E	NR	E
Propyl Chloride	NR	NR	F	NR	F	NR	F	F	G	G	F	G
Propylene Diamine	G	G	E	G	G	F	G	G	F	E	E	E
Propylene Dichloride	NR	NR	NR	NR	NR	NR	NR	NR	G	G	NR	G
Propylene Glycol	E	E	E	E	E	E	E	E	E	E	E	E
Pydraul Hydraulic Fluids	NR	NR	G	NR	NR	NR	G	NR	F	G	NR	G
Pyranol	NR	NR	NR	F	NR	NR	NR	F	E	E	NR	E
Pyridine	NR	NR	G	NR	NR	NR	G	NR	NR	E	NR	E
Pyroligneous Acid	F	F	G	F	G	G	G	F	E	E	NR	E
Pyrrole	F	G	G	NR	NR	NR	F	NR	F	E	NR	E
Rape Seed Oil	NR	NR	E	G	G	G	G	E	E	G	E	G
Red Oil (Crude Oleic Acid)	NR	NR	G	G	G	G	G	G	E	E	E	E
Richfield A Weed Killer, 1	NR	NR	NR	NR	NR	NR	NR	NR	F	G	NR	G
Richfield B Weed Killer, 0.33	NR	NR	G	G	G	F	NR	F	F	G	NR	G
Rosin Oil	NR	NR	NR	E	E	G	NR	E	E	E	NR	E
Rotenone & Water	E	E	E	E	E	E	E	E	E	E	E	E
Rum	FDA Tube Required											
Sal Ammoniac (Ammonium Chloride)	E	E	E	E	E	E	E	E	E	E	NR	E
Salicylic Acid	E	G	E	NR	NR	E	E	F	E	E	E	E

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CHEMICAL RESISTANCE CHART

CHEMICAL	NATURAL RUBBER	SBR	BUTYL	NITRILE	NEOPRENE	HYPALON®	EPDM	EPICHLOROHYDRIN	VITON®	XLPE	CPE	UHMW
Salt Water (Sea Water)	E	E	E	E	E	E	E	E	E	E	E	E
Sewage	F	F	F	E	G	E	G	E	E	E	NR	E
Silicate of Soda (Sodium Silicate)	E	E	E	E	E	E	E	E	E	E	E	E
Silicate Esters	NR	NR	NR	G	E	E	NR	F	E	E	NR	E
Silicone Greases	E	E	E	E	E	E	E	E	E	E	E	E
Silicone Oils	E	E	E	E	E	E	E	E	E	E	E	E
Silver Nitrate	E	E	E	E	E	E	E	E	E	E	E	E
Skelly Solvent	NR	NR	NR	E	G	F	NR	E	E	E	NR	E
Skydrol Hydraulic Fluids	NR	NR	E	NR	NR	NR	E	NR	NR	E	G	E
Soap Solutions	E	E	E	E	E	E	E	E	E	E	E	E
Soda Ash (Sodium Carbonate)	E	E	E	E	E	E	E	E	E	E	E	E
Soda, Caustic (Sodium Hydroxide)	E	G	E	G	E	E	E	G	NR	E	G	E
Soda, Lime	E	G	E	G	G	G	E	G	F	E	E	E
Soda Niter (Sodium Nitrate)	E	E	E	E	E	E	E	E	E	E	E	E
Sodium Acetate	NR	NR	E	NR	NR	NR	G	NR	NR	E	E	E
Sodium Aluminate	E	E	E	E	E	E	E	E	E	E	E	E
Sodium Bicarbonate	E	E	E	E	E	E	E	E	E	E	E	E
Sodium Bisulfate	E	E	E	E	E	E	E	E	E	E	E	E
Sodium Bisulfite	E	E	E	E	E	E	E	E	E	E	E	E
Sodium Borate	E	E	E	E	E	E	E	E	E	E	E	E
Sodium Carbonate	E	E	E	E	E	E	E	E	E	E	E	E
Sodium Chloride	E	E	E	E	E	E	E	E	E	E	E	E
Sodium Chromate	NR	NR	E	NR	F	F	G	F	F	G	E	G
Sodium Cyanide	E	E	E	E	E	E	E	E	E	E	E	E
Sodium Dichromate	NR	NR	E	NR	F	F	G	F	F	E	E	E
Sodium Fluoride	E	E	E	E	E	E	E	E	E	E	E	E
Sodium Hydroxide	E	G	E	G	E	E	E	G	NR	E	E	E
Sodium Hypochlorite	F	NR	G	NR	NR	F	G	F	E	G	E	G
Sodium Metaphosphate	E	E	E	E	G	G	E	E	E	E	E	E
Sodium Nitrate	E	E	E	E	E	E	E	E	E	E	E	E
Sodium Nitrite	E	E	E	E	E	E	E	E	E	E	E	E
Sodium Perborate	F	NR	E	NR	G	NR	G	F	E	E	NR	E
Sodium Peroxide	G	G	E	G	G	G	E	G	E	G	NR	G
Sodium Phosphate	E	E	E	E	E	E	E	E	E	E	E	E
Sodium Silicate	E	E	E	E	E	E	E	E	E	E	E	E
Sodium Sulfate	E	E	E	E	E	E	E	E	E	E	E	E
Sodium Sulfide	E	E	E	E	E	E	E	E	E	E	E	E
Sodium Sulfite	E	E	E	E	E	E	E	E	E	E	E	E
Sodium Thiosulfate	E	E	E	E	E	E	E	E	E	E	E	E
Soybean Oil	NR	NR	G	G	G	G	G	G	E	E	E	E
Stannic Chloride	E	E	G	E	E	E	E	E	E	E	E	E
Stannic Sulfide	E	E	E	E	E	E	E	E	E	E	E	E
Stannous Chloride	E	E	E	E	E	E	E	E	E	E	E	E

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CHEMICAL RESISTANCE CHART

CHEMICAL	NATURAL RUBBER	SBR	BUTYL	NITRILE	NEOPRENE	HYPALON®	EPDM	EPICHLOROHYDRIN	VITON®	XLPE	CPE	UHMW
Stannous Sulfide	E	E	E	E	E	E	E	E	E	E	E	E
Steam, under 300°F	Steam Hose Only											
Steam, over 300°F	Steam Hose Only											
Stearic Acid	NR	NR	G	E	G	G	F	G	E	E	NR	E
Stoddards Solvent	NR	NR	NR	E	F	NR	NR	E	E	E	E	E
Styrene	NR	NR	NR	NR	NR	NR	NR	NR	G	NR	F	NR
Sugar Solutions (Sucrose) (Non FDA)	E	E	E	E	E	E	E	E	E	E	E	E
Suifamic Acid	F	F	E	G	G	G	E	F	E	E	E	E
Sulfite Liquors	G	G	E	G	G	E	G	G	E	E	NR	E
Sulfonic Acid	NR	NR	NR	NR	F	F	NR	F	NR	G	NR	G
Sulfur (Molten)	NR	NR	G	F	F	F	F	G	E	NR	NR	NR
Sulfur Chloride	NR	NR	NR	NR	NR	G	NR	F	E	G	NR	G
Sulfur Dioxide	F	F	G	NR	G	G	F	F	E	E	NR	E
Sulfur Hexafluoride	E	E	E	E	E	E	E	E	E	E	NR	E
Sulfur Trioxide	NR	NR	G	NR	NR	NR	F	NR	E	G	NR	G
Sulfuric Acid, 0.25	G	G	G	G	E	E	G	F	E	E	E	E
Sulfuric Acid, 25-50%	G	NR	E	NR	F	E	G	NR	E	E	E	E
Sulfuric Acid, 50-93%	NR	NR	F	NR	F	G	G	NR	E	E	F	E
Sulfuric Acid, Fuming	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Sulfurous Acid	G	F	G	F	G	E	G	F	E	E	E	E
Tall Oil	NR	NR	NR	E	G	G	NR	G	E	E	NR	E
Tallow	NR	NR	NR	E	E	NR	NR	E	E	E	NR	E
Tannic Acid	E	G	E	F	G	G	E	F	E	E	E	E
Tar	NR	NR	NR	G	G	NR	NR	G	E	NR	NR	NR
Tartaric Acid	E	E	G	G	G	E	E	G	E	E	E	E
Terpineol	NR	NR	F	NR	NR	NR	F	NR	E	G	E	G
Tertiary Butyl Alcohol	E	E	E	E	E	E	E	E	E	E	E	E
Tetrachlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	G	G	NR	G
Tetrachloroethane	NR	NR	NR	NR	NR	NR	NR	NR	E	G	NR	G
Tetrachloroethylene	NR	NR	NR	NR	NR	NR	NR	NR	E	G	F	G
Tetraethylene Glycol	E	E	E	E	E	E	E	E	E	E	NR	E
Tetrachloromethane	NR	NR	NR	F	NR	NR	NR	NR	E	G	NR	G
Tetrachloronapthalene	NR	NR	NR	NR	NR	NR	NR	NR	G	G	NR	G
Tetraethyl Lead	NR	NR	NR	G	F	NR	NR	F	E	E	NR	E
Tetrahydrofuran (THF)	NR	NR	NR	NR	NR	NR	NR	NR	NR	E	F	E
Thionyl Chloride	NR	NR	NR	NR	NR	NR	NR	NR	G	E	NR	E
Tin Chloride	E	E	E	E	E	E	E	E	E	E	E	E
Tin Tetrachloride	E	E	E	E	E	E	E	E	E	E	E	E
Titanium Tetrachloride	NR	NR	NR	G	F	F	F	F	E	E	F	E
Toluene (Toluol)	NR	NR	NR	NR	NR	NR	NR	NR	E	E	F	E
Toluene Diisocyanate (TDI)	F	F	E	F	NR	NR	E	F	G	E	NR	E

E = Excellent **G** = Good **F** = Fair **NR** = Not Recommended

CHEMICAL RESISTANCE CHART												
CHEMICAL	NATURAL RUBBER	SBR	BUTYL	NITRILE	NEOPRENE	HYPALON®	EPDM	EPICHLOROHYDRIN	VITON®	XLPE	CPE	UHMW
Toxaphene	NR	NR	NR	G	G	NR	NR	G	E	E	NR	E
Transformer Oils (Petroleum Base)	NR	NR	NR	E	G	G	NR	E	E	E	E	E
Transformer Oils (Chlorinated Phenyl Base Askerels)	NR	NR	NR	NR	NR	NR	NR	NR	E	G	E	G
Transmission Fluids,	E	NR	NR	NR	G	F	NR	NR	E	E	E	E
Transmission Fluids,	G	NR	NR	NR	F	NR	NR	NR	F	E	E	E
Tricetin	E	G	E	G	G	G	E	G	NR	E	NR	E
Tributyl Amine	G	G	E	G	G	F	E	G	NR	E	E	E
Tributyl Phosphate	NR	NR	G	NR	NR	NR	G	NR	NR	E	F	E
Trichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR	G	G	NR	G
Trichloroethane	NR	NR	NR	NR	NR	NR	NR	NR	E	E	F	E
Trichloroethylene	NR	NR	NR	F	NR	NR	NR	F	E	G	F	NR
Trichloropropane	NR	NR	NR	NR	NR	NR	NR	NR	E	E	F	E
Tricresyl Phosphate (TCP)	NR	NR	E	NR	NR	NR	G	NR	G	E	E	E
Triethanolamine (TEA)	G	G	E	G	E	E	G	G	NR	E	E	E
Triethylamine	G	G	G	G	E	E	G	G	G	E	E	E
Triethylene Glycol	E	E	E	E	E	E	E	E	E	E	E	E
Trinitrotoluene (TNT)	NR	NR	NR	NR	G	G	NR	NR	G	NR	NR	NR
Triphenyl Phosphate	NR	NR	E	NR	F	F	G	NR	F	E	NR	E
Trisodium Phosphate	E	E	E	E	E	E	E	E	E	E	E	E
Tung Oil	NR	NR	F	E	G	G	NR	E	E	E	E	E
Turbine Oil	NR	NR	NR	G	G	G	NR	E	E	E	NR	E
Turpentine	NR	NR	NR	G	G	NR	NR	E	E	E	G	E
Ucon Hydrolube Oils	NR	NR	E	E	G	NR	E	E	E	E	NR	E
Undecanol	E	E	E	E	E	E	E	E	G	E	E	E
Unsymmetrical Dimethyl-Hydrazine (UDMH)	NR	NR	E	NR	NR	E	E	NR	NR	F	NR	F
Uran	G	F	G	G	G	E	G	G	F	E	NR	E
Urea	E	F	E	F	E	F	E	F	F	E	E	E
Varnish	NR	NR	NR	G	G	F	NR	G	E	E	NR	E
Vegetable Oils	NR	NR	E	E	G	G	E	E	E	E	E	E
Versilube	F	F	E	E	F	E	E	E	E	E	E	E
Vinegar	E	F	E	F	E	E	G	F	G	E	E	E
Vinyl Acetate	NR	NR	E	NR	NR	F	F	NR	NR	G	E	NR
Vinyl Benzene	NR	NR	NR	NR	NR	NR	NR	NR	E	G	F	G
Vinyl Chloride (Monomer)	F	NR	NR	NR	NR	NR	NR	NR	E	E	NR	E
Vinyl Ether	NR	NR	NR	NR	NR	F	F	NR	NR	E	NR	E
Vinyl Toluene	NR	NR	NR	NR	NR	NR	NR	NR	E	G	F	G
Vinyl Trichloride	NR	NR	NR	NR	NR	NR	NR	NR	E	E	F	E
V.M.&P. Naptha	NR	NR	NR	E	E	NR	NR	E	E	E	E	E
Water, Fresh (Non FDA)	E	E	E	E	E	E	E	E	E	E	E	E
Water, Salt	E	E	E	G	E	E	E	F	E	E	E	E
Whiskey, Wines	FDA Tube Required											
White Liquor	E	E	G	E	E	E	F	E	E	E	NR	E

CHEMICAL RESISTANCE CHART												
CHEMICAL	NATURAL RUBBER	SBR	BUTYL	NITRILE	NEOPRENE	HYPALON®	EPDM	EPICHLOROHYDRIN	VITON®	XLPE	CPE	UHMW
White Oil	NR	NR	NR	E	G	NR	NR	E	E	E	E	E
Wood Alcohol (Methanol)	E	E	E	E	E	E	E	E	NR	E	E	E
Xylene (Xylol)	NR	NR	NR	NR	NR	NR	NR	NR	E	F	NR	F
Xylidine	NR	NR	NR	NR	NR	NR	NR	NR	F	G	F	G
Zeolites	G	E	F	F	E	E	E	E	E	E	E	E
Zinc Acetate	F	NR	E	F	F	F	G	F	NR	E	NR	E
Zinc Carbonate	E	E	E	E	E	E	E	E	E	E	E	E
Zinc Chloride	E	E	E	E	E	E	G	G	E	E	NR	E
Zinc Chromate	E	F	E	E	E	F	E	E	E	G	NR	G
Zinc Sulfate	E	E	E	E	E	E	E	E	E	E	NR	E
2, 4D With 0.1 Fuel Oil	NR	NR	NR	E	E	NR	NR	E	E	E	NR	E

E = Excellent **G** = Good **F** = Fair **NR** = Not Recommended

CONVERSIONS

CONVEYOR DESIGN INFORMATION Decimal & Metric Equivalents

FRACTIONS OF AN INCH	EQUIVALENTS		FRACTIONS OF AN INCH	EQUIVALENTS		FRACTIONS OF AN INCH	EQUIVALENTS	
	Inches	Millimeters		Inches	Millimeters		Inches	Millimeters
1/64	0.015625	0.396875	23/64	0.359375	9.128125	11/16	0.6875	17.4625
1/32	0.03125	0.79375	3/8	0.3750	9.5250	45/64	0.703125	17.859375
3/64	0.046875	1.190625	25/64	0.390625	9.921875	23/32	0.71875	18.25625
1/16	0.0625	1.5875	13/32	0.40625	10.31875	47/64	0.734375	18.653125
5/64	0.078125	1.984375	27/64	0.421875	10.715625	3/4	0.7500	19.0500
3/32	0.09375	2.38125	7/16	0.4375	11.1125	49/64	0.765625	19.446875
7/64	0.109375	2.778125	29/64	0.453125	11.509375	25/32	0.78125	19.84375
1/8	0.1250	3.1750	15/32	0.46875	11.90625	51/64	0.796875	20.240625
9/67	0.140625	3.571875	31/64	0.484375	12.303125	13/16	0.8125	20.6375
5/32	0.15625	3.96875	1/2	0.5000	12.700	53/64	0.828125	21.034375
11/64	0.171875	4.365625	33/64	0.515625	13.096875	27/32	0.84375	21.43125
3/16	0.1875	4.7625	17/32	0.53125	13.49375	55/64	0.859375	21.828125
13/64	0.203125	5.159375	35/64	0.546875	13.890625	7/8	0.8750	22.2250
7/32	0.21875	5.55625	9/16	0.5625	14.2875	57/64	0.890625	22.621875
15/64	0.234375	5.93125	37/64	0.578125	14.684375	29/32	0.90625	23.01875
1/4	0.2500	6.3500	19/32	0.59375	15.08125	59/64	0.921875	23.415625
17/64	0.265625	6.756875	39/64	0.609375	15.478125	15/16	0.9375	23.8125
9/32	0.28125	7.14375	5/8	0.6250	15.8750	61/64	0.953125	24.209375
19/64	0.296875	7.540625	41/64	0.640625	16.271875	31/32	0.96875	24.60625
5/16	0.3215	7.9375	21/32	0.65625	166875	63/64	0.984375	24.003125
21/64	0.328125	8.334375	43/64	0.671875	17.065625	1	1.0000	25.4000
11/32	0.34375	8.73125						

WORKSHEET

This worksheet is a great way to get started with Apache hose and accessories. Fill it out and give us a call. One of our experienced team members will help identify the best products for your application.

S.T.A.M.P.E.D. HOSE SELECTION WORKSHEET

Here's what we need from you.

NAME:	
COMPANY:	
PHONE #:	
EMAIL:	
DATE:	

S – Size
T – Temperature
A – Application
M – Material
P – Pressure
E – Ends
D – Delivery

Selecting the correct hose and fittings reduces the risk of hose failure due to misapplication. Use the S.T.A.M.P.E.D. process for accurate and complete information, and Apache can help you find the solution you need and recommended the proper solution for your application.

Experienced sales team members are just a phone call away, and knowledgeable field representatives are available when a site visit may be necessary.

S - SIZE

- **What size is the hose?**
- Inside Diameter (I.D.):
- Outside Diameter (O.D.):
- Cut length or coupled length (OAL):

T - TEMPERATURE

Temperature of product being transfered:	Min.	**Max:**
Temperature of the environment:	Min.	**Max:**

A - APPLICATION

- How is the hose being used: ☐ Suction ☐ Discharge ☐ Pressurized

M - MATERIAL

- What material is going through the hose?
  (Please include product that is normally transferred and any cleaning fluids).

P - PRESSURE

- What is the maximum pressure (PSI) or suction (in/HG)?

E - ENDS

- What fittings do you want on each end or do you want it open ended?

D - DELIVERY

- When do you want the hose?
- Quantity:
- Testing required? ☐ Yes ☐ No
- Certification required? ☐ Yes ☐ No
- Any other pertinent information about this hose:

Scan with smartphone or visit www.apache-inc.com/worksheets to download worksheets

WARRANTY

All merchandise manufactured or assembled by Apache is warranted at the time of shipment to be free from defects in material and manufacturing (provided such merchandise is properly installed and used only for the intended purpose and under normal service conditions). Liability with respect to any such merchandise proven defective, is limited to buyer's net purchase price or (at Apache's discretion) to the repair or replacement thereof upon its return to Apache, freight pre-paid. In no event shall Apache be liable to supply or pay for labor, downtime, or any loss or damage, direct, incidental, or consequential. All merchandise supplied by Apache but designed, manufactured and assembled by others shall be accepted by Buyer with only those warranties made by such vendors or manufacturers and in lieu of any additional warranties on the part of Apache. This warranty is expressly made in lieu of any and all other warranties, including the warranty of merchantability and fitness for a particular purpose.

RETURN MATERIALS

Any customer seeking to return material(s), for any reason, must first secure permission from an authorized customer service representative. A Return Material(s) Authorization number (RMA) will be issued. This number must appear on the material, packing list, and bill of lading so the receiving clerk can verify authorization for return. Absence of an RMA number shall constitute the right to refuse shipment. APACHE

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