

**CAT 5**

**24**

AIR  
CONTINENTAL  
MATERIAL TRANSFER  
PETROLEUM  
SPRAY  
TUBING  
WATER

# THERMOPLASTIC HOSE



**SJ** | **SEALFAST**  
THE SIMPLE SOLUTION



# HOSE & HOSE PROTECTION



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TERMS OF SALE

DISCLAIMERS

TERMS:

1/2% 10 Days, net 30 Days

FREIGHT:

All shipments are made FOB Seal Fast Inc. or Point of Manufacturer. (Applies to shipments from Houston Warehouse Only) Freight prepaid on 1000 net couplings and accessories, \$1500 Net Couplings, PVC Tubing, Braided Tubing and Fire Hose. Freight prepaid on \$3000 Net Couplings, Rubber Hose, PVC Hose and Sheet Rubber with the exclusion of all PVC Suction including 6" and 8" PVC Suction ONLY orders. If combined with other items freight is prepaid at \$3000 Net, otherwise these items will Not be applied toward prepaid freight. **Effective immediately, regardless of invoice value, all uncoupled cut lengths of hoses are shipped FOB Seal Fast Inc.** Seal Fast Inc. reserves the right to determine the most Economical shipping method on all prepaid shipments. **In addition, Seal Fast Inc. reserves the right to refuse any prepaid shipments exceeding 6% freight cost of the order unless items are added or subtracted to keep said freight cost at or below 6%.** Applies to Continental United States, excluding Alaska and Hawaii. **Any evidence of shortage must be reported to Seal Fast Inc. within 10 days. Any Damage to hose/hoses, etc. customer is responsible for filing a claim with the delivery carrier within 10 days. Seal Fast Inc. will not issue credit.**

ALL UPS prepay and add or collect shipments will endure a **\$7.50** shipping and handling fee including All backorders. All drop shipments will endure a \$5.00 fee.

WARRANTY:

Products are warranted against defects in workmanship and defects in material. Products having such defects will be replaced or credited as Seal Fast elects. Liability is limited to the invoice value of the defective item. Our responsibility shall not exceed the original purchase price of the defective product. In any event, Seal Fast, Inc. shall not be held responsible for any special or consequential damages.

RETURNED GOODS:

If for any reason you wish to return goods, please contact Seal Fast Inc. for prior authorization number. Goods must be returned within 30 days and must be in new and resaleable condition. Minimum handling charge is 15%.

**All discrepancies in shipment / invoice must be reported within 10 days of receipt of goods.**

PROMPTPAYMENT:

Orders receive preferred treatment when the account is paid promptly. Orders may be held up if any unpaid invoice exceeds 30 days.

MINIMUM INVOICE:

All invoices are subject to a minimum billing charge of 50.00 net. Returned checks are subject to a \$25.00 service charge.

GENERAL:

Orders will be accepted subject to delays caused by accident, strike, fire or other causes beyond the control of the seller including failure of seller's suppliers to deliver. Prices, discounts and other specifications are subject to change without notice. All prices are subject to any applicable taxes imposed. The possessions of this price schedule is not to be construed as an offer to sell at the prices shown. Special price for volume quotes will be accepted in writing only.

PLEASE NOTE:

Extra care is taken in the preparation of this literature but Seal Fast, Inc. is not responsible for any inadvertent typographical errors or omissions.

STOCKING WAREHOUSES

SEAL FAST, INC.  
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(303) 477-6504 Fax

THE WAGNER GROUP  
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(574) 522-2083 Fax

DISCLAIMERS

Product Images

- Seal Fast makes every reasonable effort to show accurate product representation, however pictures are for reference only, and do not necessarily reflect the exact product you will receive.
- Seal Fast reserves the right to alter product appearance without notice. Some product features shown in pictures may no longer be available.

Product Specifications

- Seal Fast is continuously working to provide the best quality for the best price.
- We reserve the right to alter product specifications without notice.

Product Usage

- Our Sales Team will do their best to assist in choosing the best product for a particular application. However, it is ultimately the customer's responsibility to determine the correct product for the correct application.
- Seal Fast will not be held liable for the abuse or misuse of our products in a manner in which they are not designed.
- Seal Fast cannot guarantee the integrity of an assembly if other manufacturers parts are used.

Product Availability

- Seal Fast reserves the right to discontinue products at any time without prior notice.

Product Pricing

- Seal Fast is constantly doing our best to maintain pricing levels. However, circumstances change and while many prices go down, others will increase.
- Please contact your sales associate for current pricing.



THERMOPLASTIC HOSE

STANDARD COUPLING METHODS

**BANDS**

Seal Fast banded assemblies are designed for maximum hose retention with the added benefit of being repairable in the field.

**BANDED w/SLINKY**

Some Seal Fast corrugated Thermoplastic hoses require the use of a "slinky" when banding. This fills in the grooves, providing a flat sealing surface for the bands.

**CRIMP SLEEVE**

Seal Fast crimp assemblies using ferrules are designed for maximum hose retention, with an added safety feature ed an "interlock". The top of the ferrule grabs into the interlock giving the operator extra piece of mind. All Seal Fast assemblies using ferrules must be paired with either our crimp cam lock or crimp combination nipples.

OTHER COUPLING METHODS



POSSIBLE ATTACHMENTS



STANDARD METHODS

TYPE C

TYPE E

TYPE C - Self-Locking

TYPE C - Crimp

TYPE E - Crimp

TYPE KC

TYPE KC - Crimp

PIN LUG MALE

PIN LUG FEMALE

BAUER

Aluminum Brass 316 SS 304 SS Plated Steel Polypropylene Nylon

DISCLAIMER!

Seal Fast does not stock or necessarily offer assemblies with all of the parts depicted here. The purpose of this page is to give the customer an idea of the various combinations that can be achieved when they shop at Seal Fast. Not all fittings are suitable for all hoses, and not all clamping methods are suitable for all hose/fitting combinations. Seal Fast offers a variety of material options for the fittings as well. Not all materials are suitable for all applications so please consult with your sales representative before ordering.

\*Hose dimensions are nominal. Seal Fast reserves the right to modify dimensions in the effort to improve our products.

Working pressure & vacuum ratings are based on ambient temperature of 70° F & will vary inversely with temperature changes.

ASSEMBLIES

AIR SHIELD PRO AIR

THERMOPLASTIC HOSE

AIR SHIELD PRO

**FEATURES**

- A multi-purpose PVC/Rubber blended air hose engineered for excellent UV & weather resistance. Medium/high oil resistance & excellent cold weather flexibility. This is an excellent hose for air and water transfer, as well as use w/ water-soluble chemicals.

**SPECS**

- Temp Range: -15° F to +150° F
- Cover: Red/Blue, PVC/Rubber compound
- Tube: Black, PVC compound RMA Class B
- Reinforcement: Spiral polyester braiding

ID	OD	Length	PVC / RUBBER BLEND						
			250-300 PSI						
						RED		Blue	
			Working PSI	Burst PSI	lbs per ft	RED Part #	List ft.	Blue Part #	List ft.
1/4"	.50"	500'	900	---	0.07	MPH 025		MPH 025B	
3/8"	.625"	500'	900	---	0.09	MPH 038		MPH 038B	
1/2"	.813"	500'	900	---	0.13	MPH 050		MPH 050B	
5/8"	.906"	300'	750	---	0.18	MPH 058		MPH 058B	
3/4"	1.125"	300'	750	---	0.22	MPH 075		MPH 075B	
1"	1.406"	300'	750	---	0.3	MPH 100		MPH 100B	

AIR SHIELD PRO

**FEATURES**

- Air Shield Pro assemblies are available in red or blue, banded or crimped w/ zinc plated crowfeet couplings.

**SPECS**

- Temp Range: -15° F to +150° F
- Cover: Red/Blue, PVC/Rubber compound
- Tube: Black, PVC compound RMA Class B
- Reinforcement: Spiral polyester braiding

ID	OD	Length	PVC / RUBBER BLEND									
							BANDS - SS		CRIMP SLEEVES - PLATED STEEL			
						RED	Blue		RED	Blue		
			Working PSI	Burst PSI	lbs per ft		RED Part #	List ft.	Blue Part #	List ft.	RED Part #	List ft.
3/4"	---	50'	250	---	0.07	ASP075B			ASPBL075B		ASP075C	ASPBL075C
1"	---	50'	250	---	0.18	ASP100B			ASPBL100B		ASP100C	ASPBL100C

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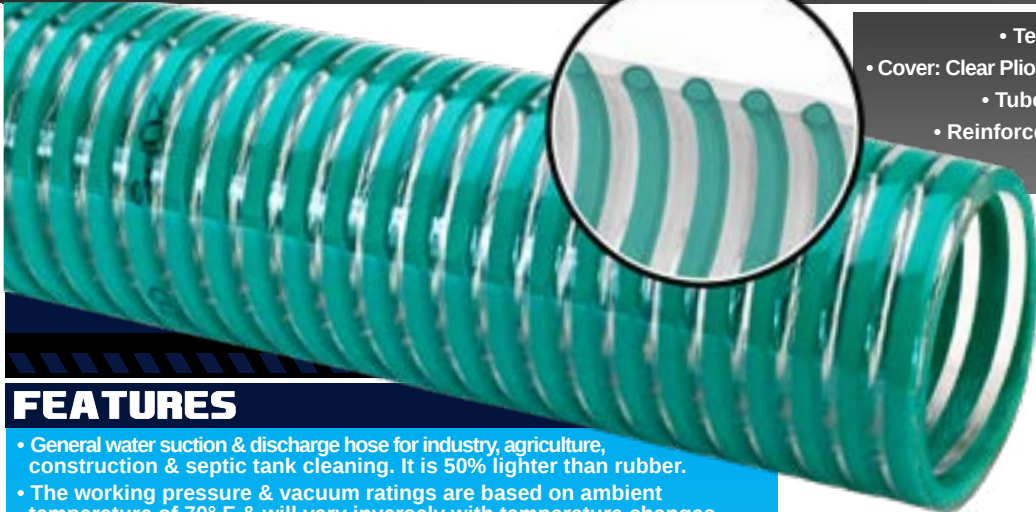
Working pressure & vacuum ratings are based on ambient temperature of 70° F & will vary inversely with temperature changes.



THERMOPLASTIC HOSE



CONTITECH PVC - 1500 CLEAR SUCTION



- Temp Range: -15° F to +150° F
- Cover: Clear Pliovic® compound Non-Branded
- Tube: Clear Pliovic® compound
- Reinforcement: Rigid Pliovic® Helix
- Safety Factor: 3:1

SPECS

FEATURES

- General water suction & discharge hose for industry, agriculture, construction & septic tank cleaning. It is 50% lighter than rubber.
- The working pressure & vacuum ratings are based on ambient temperature of 70° F & will vary inversely with temperature changes.

ID	OD	Length	CLEAR PLIOVIC® - NON-BRANDED					
			47 - 89 PSI					
			Working PSI	Vacuum Hg	Bend Radius	lbs per ft	Part #	List ft.
1-1/2"	1.78"	100'	89	29	6"	0.41	1500 150	
2"	2.31"	100'	79	29	8"	0.61	1500 200	
3"	3.38"	100'	65	29	12"	1.11	1500 300	
4"	4.46"	100'	55	29	16"	1.62	1500 400	
6"	6.57"	100'	47	29	36"	3.44	1500 600	

CONTITECH PVC - 1600 OLIVE GREEN SUCTION



- Temp Range: -15° F to +150° F
- Cover: Olive Green Pliovic® compound Non-Branded
- Tube: Olive Green Pliovic® compound
- Reinforcement: Rigid Pliovic® Helix
- Safety Factor: 3:1

SPECS

FEATURES

- General water suction & discharge hose for industry, agriculture, construction & septic tank cleaning. It is 50% lighter than rubber.
- The working pressure & vacuum ratings are based on ambient temperature of 70° F & will vary inversely with temperature changes.

ID	OD	Length	GREEN PLIOVIC® - NON-BRANDED					
			47 - 106 PSI					
			Working PSI	Vacuum Hg	Bend Radius	lbs per ft	Part #	List ft.
1"	1.24"	100'	106	29	5"	0.25	1600 100	
1-1/4"	1.53"	100'	89	29	5"	0.34	1600 125	
1-1/2"	1.78"	100'	89	29	6"	0.41	1600 150	
2"	2.32"	100'	79	29	8"	0.63	1600 200	
2-1/2"	2.85"	100'	89	29	10"	0.87	1600 250	
3"	3.44"	100'	65	29	12"	1.15	1600 300	
4"	4.43"	100'	55	29	16"	1.73	1600 400	
6"	6.57"	20' / 25' / 100'	47	29	36"	3.17	1600 600	

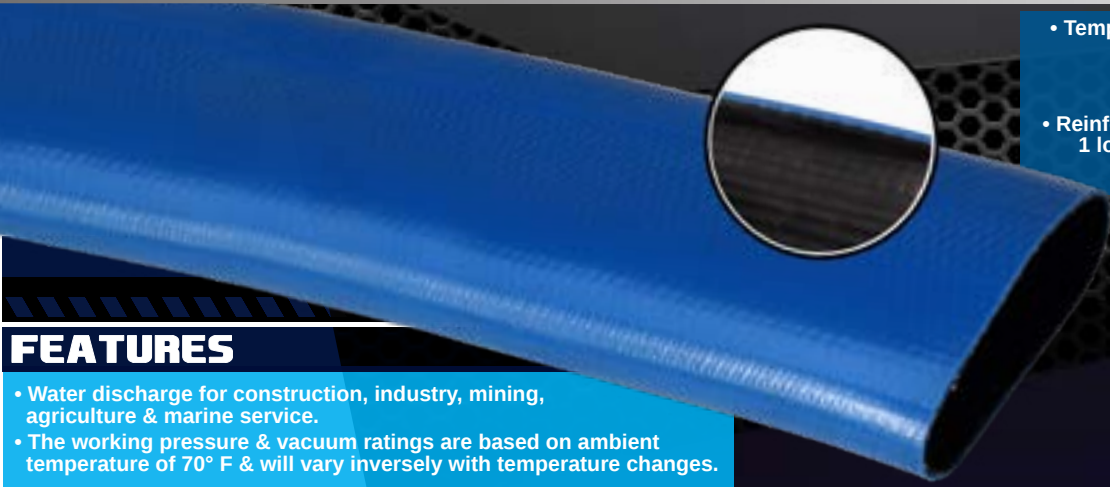
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THERMOPLASTIC HOSE

CONTITECH - BLUE LAY FLAT DISCHARGE



- Temp Range: -10° F to +150° F
- Cover: Blue Pliovic®
- Tube: Blue Pliovic®
- Reinforcement: 2 spiral plies & 1 longitudinal synthetic fiber
- Safety Factor: 3:1

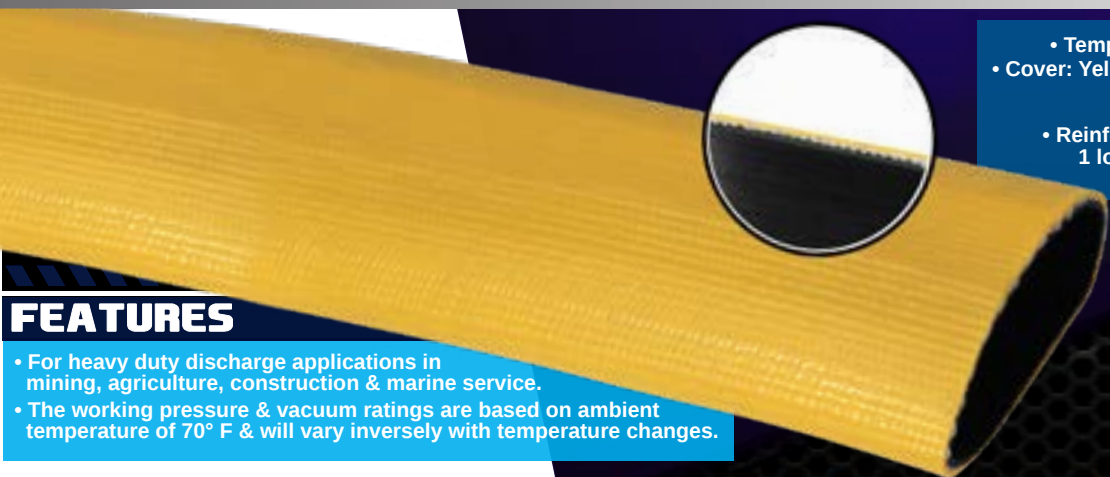
SPECS

FEATURES

- Water discharge for construction, industry, mining, agriculture & marine service.
- The working pressure & vacuum ratings are based on ambient temperature of 70° F & will vary inversely with temperature changes.

ID	OD	Length	Blue Pliovic®					
			35 - 75 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
1-1/2"	1.62"	300'	75	225	n/a	0.17	BL 150	
2"	2.22"	300'	60	180	n/a	0.22	BL 200	
2-1/2"	2.62"	300'	60	180	n/a	0.29	BL 250	
3"	3.26"	300'	50	150	n/a	0.40	BL 300	
4"	4.26"	300'	45	135	n/a	0.53	BL 400	
6"	6.28"	300'	35	105	n/a	0.82	BL 600	

CONTITECH - 2700 YELLOW LAY FLAT DISCHARGE



- Temp Range: -10° F to +150° F
- Cover: Yellow fire retardant Pliovic® MSHA 2G-14C/15 approved
- Tube: Black Pliovic®
- Reinforcement: 2 spiral plies & 1 longitudinal synthetic fiber
- Safety Factor: 3:1

SPECS

FEATURES

- For heavy duty discharge applications in mining, agriculture, construction & marine service.
- The working pressure & vacuum ratings are based on ambient temperature of 70° F & will vary inversely with temperature changes.

ID	OD	Length	YELLOW PLIOVIC® SYNTHETIC					
			150 - 200 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
1-1/2"	1.72"	300'	200	600	n/a	0.324	2700 150	
2"	2.22"	300'	200	600	n/a	0.420	2700 200	
2-1/2"	2.75"	300'	200	600	n/a	0.620	2700 250	
3"	3.38"	300'	200	600	n/a	0.760	2700 300	
4"	4.33"	300'	150	450	n/a	1.00	2700 400	
6"	6.48"	300'	150	450	n/a	1.60	2700 600	

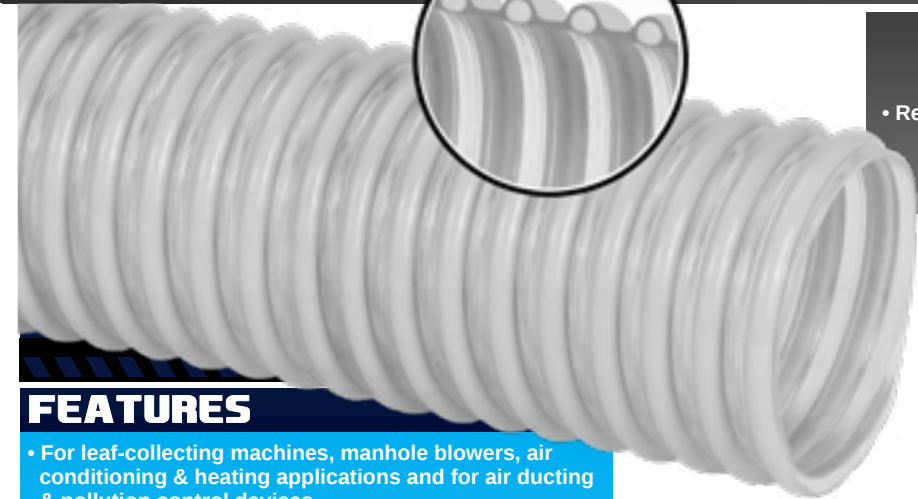
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THERMOPLASTIC HOSE

DUCTING



- Temp Range: +30° F to +150° F
- Cover: Clear PVC w/ White PVC Helix
- Tube: Clear PVC
- Reinforcement: Rigid white helix of white synthetic compound

SPECS

FEATURES

- For leaf-collecting machines, manhole blowers, air conditioning & heating applications and for air ducting & pollution control devices.

ID	OD	Length	HIGH DENSITY CLEAR w/WHITE HELIX					
			75 - 150 PSI					
			Working PSI	Vacuum HG	Bend Radius	lbs per ft	Part #	List ft.
1-1/2"	1.74"	100'	150	5	2.25"	.18	Ducting 150	
2"	2.30"	100'	125	5	3.0"	.28	Ducting 200	
3"	3.32"	100'	100	5	6.3"	.46	Ducting 300	
4"	4.44"	75'	75	5	7.5"	.66	Ducting 400	
6"	6.46"	75'	75	5	10"	.70	Ducting 600	

PETROLEUM

NITRILE BLEND DROP HOSE - SERIES 1380



- Temp Range: -40° F to +150° F
- Cover: Nitrile w/Orange PVC Reinforcing Rod
- Tube: Black Nitrile Rubber Blend
- Reinforcement: Multiple Pies of Polyester w/Static Wire
- Safety Factor: 3:1

SPECS

FEATURES

- Gasoline tank truck gravity drop hose. Designed to be light weight, tough, durable & flexible. Specially designed to handle unleaded gasoline, diesel & up to 15% gasohol. It is rated up to 40% aromatic cotent.

ID	OD	Length	NITRILE BLENDED					
			65 PSI					
			Working PSI	Brust PSI	Bend Radius	lbs per ft	Part #	List ft.
3"	3.67"	100'	65	195	6"	1.38	1380-300	
4"	4.85"	100'	65	195	8"	2.19	1380-400	

ID	Length	SLINKY SLEEVE		
		Part #		
		List ft.		
2"	12"	SL212		
3"	12"	SL312		
4"	12"	SL412		

ID	Length	CAM LOCK C X E - ALUMINUM		
		CRIMP SLEEVES - PLATED STEEL		
		# of Bands	PART #	PRICE
3"	20'	2	138030020CEALC	
4"			138040020CEALC	

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Working pressure & vacuum ratings are based on ambient temperature of 70° F & will vary inversely with temperature changes.

MATERIAL TRANSFER



SPRAY

REAPER XP 600



FEATURES

- A medium pressure spray hose for general use such as agricultural, pest-control, and commercial weed spraying. It has a high abrasion resistant cover and is also kink resistant.. It's PVC/PU blended core increases its chemical resistance when compared to all PVC hoses.

ID	OD	Length	YELLOW					
			600 - 1800 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
3/8"	.65"	300'	600	1800	-	.14	RPR-XP600-038	
1/2"	.79"	300'	600	1800	-	.19	RPR-XP600-050	
5/8"	1.03"	300'	600	1800	-	.32	RPR-XP600-058	
3/4"	1.17"	300'	600	1800	-	.42	RPR-XP600-075	

REAPER XP 800



FEATURES

- A high pressure spray hose for multiple uses such as agricultural, pest-control, commercial weed spraying, and tree/orchard spraying. It has a high abrasion resistant cover and is also kink resistant. It's PVC/PU blended core increases its chemical resistance when compared to all PVC hoses.

ID	OD	Length	GREEN					
			800 - 2400 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
3/8"	.65"	300'	800	2400	-	.14	RPR-XP800-038	
1/2"	.79"	300'	800	2400	-	.23	RPR-XP800-050	
5/8"	1.03"	300'	800	2400	-	.32	RPR-XP800-075	
3/4"	1.17"	300'	800	2400	-	.42	RPR-XP800-100	

REAPER X 600



FEATURES

- A medium pressure PVC spray hose for general use such as lawn and ornamental spraying. It has a high abrasion resistant cover and is also kink resistant. The hose is NOT recommended for tree spray applications.

ID	OD	Length	ORANGE					
			600 - 1800 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
3/8"	.625"	300'	600	1800	-	.12	RPR-X600-038	
1/2"	.79"	300'	600	1800	-	.18	RPR-X600-050	

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Working pressure & vacuum ratings are based on ambient temperature of 70° F & will vary inversely with temperature changes.

THERMOPLASTIC HOSE

- Temp Range: +15° F to +160° F
- Cover: Ribbed PVC
- Tube: Black PVC/Polyurethane blend
- Reinforcement: High tensile strength yarn
- Safety Factor: 3:1

SPECS

- Temp Range: +15° F to +160° F
- Cover: Ribbed PVC
- Tube: Black PVC/Polyurethane blend
- Reinforcement: High tensile strength yarn
- Safety Factor: 3:1

SPECS



- Temp Range: +25° F to +150° F
- Cover: Ribbed PVC
- Tube: PVC
- Reinforcement: High tensile strength yarn
- Safety Factor: 3:1

SPECS






THERMOPLASTIC HOSE

TUBING

TUBING

THERMOPLASTIC HOSE

PVC FDA CLEAR - (blue tint)



- Temp Range: +25° F to +150° F
- Tube: Clear Blue Tint PVC
- Reinforcement: n/a

SPECS

FEATURES

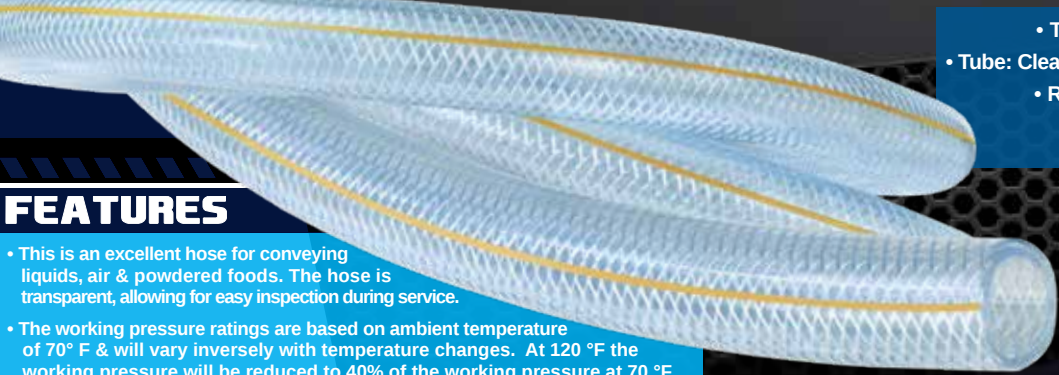
- This is an excellent hose for conveying liquids, air & powdered foods. The hose is transparent, allowing for easy inspection during service.
- The working pressure ratings are based on ambient temperature of 70° F & will vary inversely with temperature changes. At 120 °F the working pressure will be reduced to 40% of the working pressure at 70 °F.
- The recommended procedure to maintain serviceability of PVC hose when not in use:
  1. Disconnect and drain.
  2. Keep hose straight & flat.
  3. Avoid extreme heat & cold.
  4. Store out of direct sunlight.

ID	OD	Length	PVC - CLEAR BLUE TINT					
			20 - 165 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per 100 ft	Part #	List ft.
1/8"	1/4"	100'	55	165	n/a	1.78	510 1/8 x 1/4	
3/16"	5/16"	100'	55	165	n/a	2.5	510 3/16 x 5/16	
1/4"	3/8"	100'	55	165	n/a	4.0	510 1/4 x 3/8	
	1/2"	100'	60	180	n/a	8.25	510 1/4 x 1/2	
5/16"	7/16"	100'	50	150	n/a	3.75	510 5/16 x 7/16	
	1/2"	100'	55	165	n/a	5.25	510 5/16 x 1/2	
3/8"	1/2"	100'	45	135	n/a	6.25	510 3/8 x 1/2	
	9/16"	100'	50	150	n/a	6.30	510 3/8 x 9/16	
	5/8"	100'	55	165	n/a	11.25	510 3/8 x 5/8	
1/2"	5/8"	100'	30	90	n/a	7.50	510 1/2 x 5/8	
	3/4"	100'	45	135	n/a	13.25	510 1/2 x 3/4	
5/8"	7/8"	100'	40	120	n/a	16	510 5/8 x 7/8	
	13/16"	100'	35	105	n/a	11.6	510 5/8 x 13/16	
3/4"	1"	100'	35	105	n/a	19.50	510 3/4 x 1	
7/8"	1-1/8"	100'	30	90	n/a	19.71	510 7/8 x 1-1/8	
1"	1-1/4"	100'	25	75	n/a	26.0	510 1 x 1-1/4	
1-1/4"	1-1/2"	100'	20	60	n/a	28.0	510 1-1/4 x 1-1/2	
1-1/2"	1-7/8"	100'	30	90	n/a	54.0	510 1-1/2 x 1-7/8	
	2"	100'	35	105	n/a	74.0	510 1-1/2 x 2	
2"	2-1/2"	100'	35	105	n/a	96.0	510 2 x 2-1/2	

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Working pressure & vacuum ratings are based on ambient temperature of 70° F & will vary inversely with temperature changes.

PVC FDA CLEAR BRAIDED



- Temp Range: +25° F to +150° F
- Tube: Clear Blue Tint PVC w/Yellow Stripe
- Reinforcement: 2 spiral plies & 1 longitudinal ply

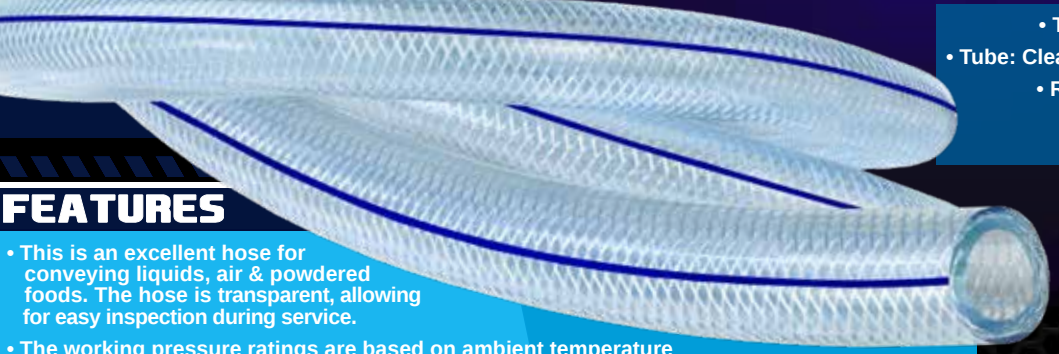
SPECS

FEATURES

- This is an excellent hose for conveying liquids, air & powdered foods. The hose is transparent, allowing for easy inspection during service.
- The working pressure ratings are based on ambient temperature of 70° F & will vary inversely with temperature changes. At 120 °F the working pressure will be reduced to 40% of the working pressure at 70 °F.

ID	OD	Length	PVC - CLEAR BLUE TINT					
			47 - 89 PSI					
			Working PSI	Vacuum Hg	Bend Radius	lbs per 100 ft	Part #	List ft.
1/4"	0.44"	300'	250	750	n/a	5.59	410 025	
3/8"	0.59"	300'	225	675	n/a	8.21	410 038	
1/2"	0.75"	300'	200	600	n/a	12.61	410 050	
5/8"	0.89"	300'	200	600	n/a	16.45	410 058	
3/4"	1.03"	300'	200	450	n/a	20.70	410 075	
1"	1.30"	300'	150	375	n/a	30.48	410 100	
1-1/4"	1.62"	50'	125	330	n/a	43.17	410 125	
	1.62"	100'	100	300	n/a	43.17	410 125 100	
1-1/2"	1.94"	50'	100	300	n/a	62.88	410 150	
2"	2.49"	50'	75	225	n/a	85.00	410 200	

PVC FDA CLEAR BRAIDED - Heavy Wall



- Temp Range: +25° F to +150° F
- Tube: Clear Blue Tint PVC w/Blue Stripe
- Reinforcement: 2 spiral plies & 1 longitudinal ply

SPECS

FEATURES

- This is an excellent hose for conveying liquids, air & powdered foods. The hose is transparent, allowing for easy inspection during service.
- The working pressure ratings are based on ambient temperature of 70° F & will vary inversely with temperature changes. At 120 °F the working pressure will be reduced to 40% of the working pressure at 70 °F.

ID	OD	Length	PVC - CLEAR BLUE TINT					
			47 - 89 PSI					
			Working PSI	Vacuum Hg	Bend Radius	lbs per 100 ft	Part #	List ft.
1/4"	0.50"	300'	350	1050	n/a	8.7	410 025-2	
3/8"	0.62"	300'	275	825	n/a	16.8	410 038-2	
1/2"	0.81"	300'	250	750	n/a	24.4	410 050-2	
5/8"	1.00"	300'	225	675	n/a	29.5	410 058-2	
3/4"	1.13"	300'	200	600	n/a	30.0	410 075-2	
1"	1.38"	300'	150	450	n/a	39.0	410 100-2	
1-1/4"	1.75"	50'	50	375	n/a	59.9	410 125-2	
1-1/2"	2.00"	50'	50	300	n/a	74.7	410 150-2	
2"	2.50"	50'	50	225	n/a	97.0	410 200-2	

\*Hose dimensions are nominal. Seal Fast reserves the right to modify dimensions in the effort to improve our products.

Working pressure & vacuum ratings are based on ambient temperature of 70° F & will vary inversely with temperature changes.



THERMOPLASTIC HOSE

PVC SUCTION - ( green )



- Temp Range: -4° F to +150° F
- Cover: Green PVC
- Tube: Green PVC
- Reinforcement: Rigid White PVC Helix

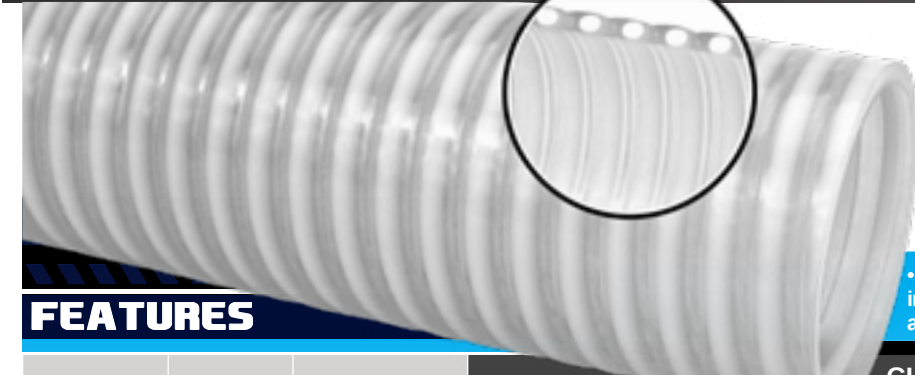
SPECS

- Designed for use in most water applications, including construction, mining, industrial, & agricultural services.

ID	OD	Length	GREEN PVC					
			35 - 100 PSI					
			Working PSI	Vacuum Hg	Bend Radius	lbs per 100ft	Part #	List ft.
3/4"	1.00"	100'	100	29	3"	20	GR 075	
1"	1.22"	100'	100	29	3"	25	GR 100	
1-1/4"	1.50"	100'	90	29	4"	33	GR 125	
1-1/2"	1.79"	100'	85	29	5"	37	GR 150	
2"	2.30"	100'	85	29	7"	55	GR 200	
2-1/2"	2.90"	100'	85	29	8"	80	GR 250	
3"	3.40"	100'	75	29	10"	90	GR 300	
4"	4.40"	100'	65	29	15"	159	GR 400	
6"	6.50"	25' / 100'	45	29	25"	320	GR 600	
8"	8.60"	20'	35	28	33"	507	GR 800	

ID	Length	# of Bands	CAM LOCK C X E - ALUMINUM		CAM LOCK C (ALUMINUM) X NPT KC NIPPLE (PLATED STEEL)	
			BANDS - SS			
			PART #	PRICE	PART #	PRICE
2"	20'	2	GR20020CEAL		GR20020CALXMP	
	25'		GR20025CEAL		GR20025CALXMP	
3"	20'	3	GR30020CEAL		GR30020CALXMP	
	25'		GR30025CEAL		GR30025CALXMP	
4"	20'	3	GR40020CEAL		GR40020CALXMP	
	20'		GR60020CEAL		GR60020CALXMP	

PVC SUCTION - (clear )



- Temp Range: -4° F to +150° F
- Cover: Clear PVC
- Tube: Clear PVC
- Reinforcement: Rigid White PVC Helix

SPECS

- Designed for use in most water applications, including construction, mining, industrial, & agricultural services.

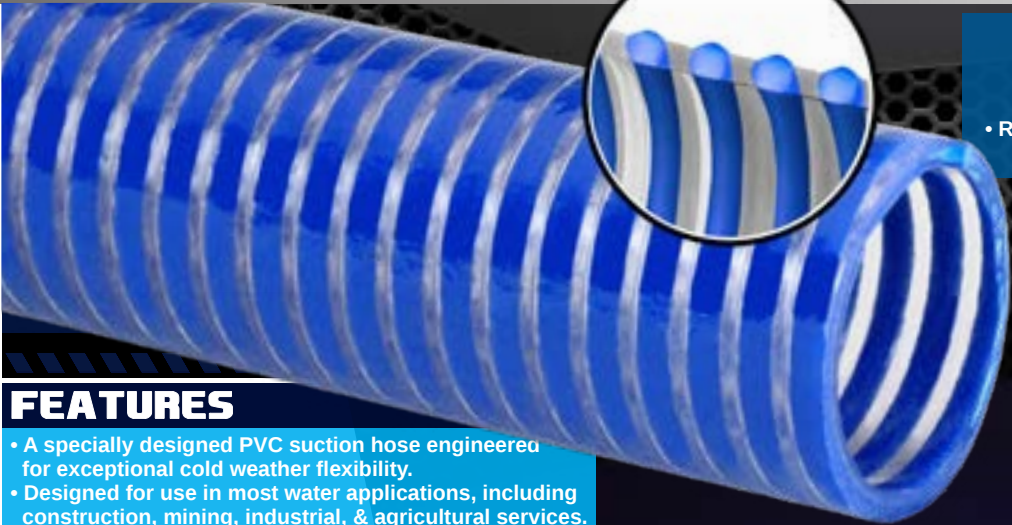
ID	OD	Length	CLEAR PVC					
			35 - 100 PSI					
			Working PSI	Vacuum Hg	Bend Radius	lbs per 100ft	Part #	List ft.
3/4"	1.00"	100'	100	29	3"	20	CL 075	
1"	1.22"	100'	100	29	3"	25	CL 100	
1-1/4"	1.50"	100'	90	29	4"	33	CL 125	
1-1/2"	1.79"	100'	85	29	5"	37	CL 150	
2"	2.30"	100'	85	29	7"	55	CL 200	
2-1/2"	2.90"	100'	85	29	8"	80	CL 250	
3"	3.40"	100'	75	29	10"	90	CL 300	
4"	4.40"	100'	65	29	15"	159	CL 400	
6"	6.50"	25' / 100'	45	29	25"	320	CL 600	
8"	8.60"	20'	35	28	33"	507	CL 800	

\*Hose dimensions are nominal. Seal Fast reserves the right to modify dimensions in the effort to improve our products.

Working pressure & vacuum ratings are based on ambient temperature of 70° F & will vary inversely with temperature changes.

WATER

COLD WEATHER SUCTION



- Temp Range: -40° F to +150° F
- Cover: Blue / Clear PVC
- Tube: Blue / Clear PVC
- Reinforcement: Rigid Blue PVC Helix

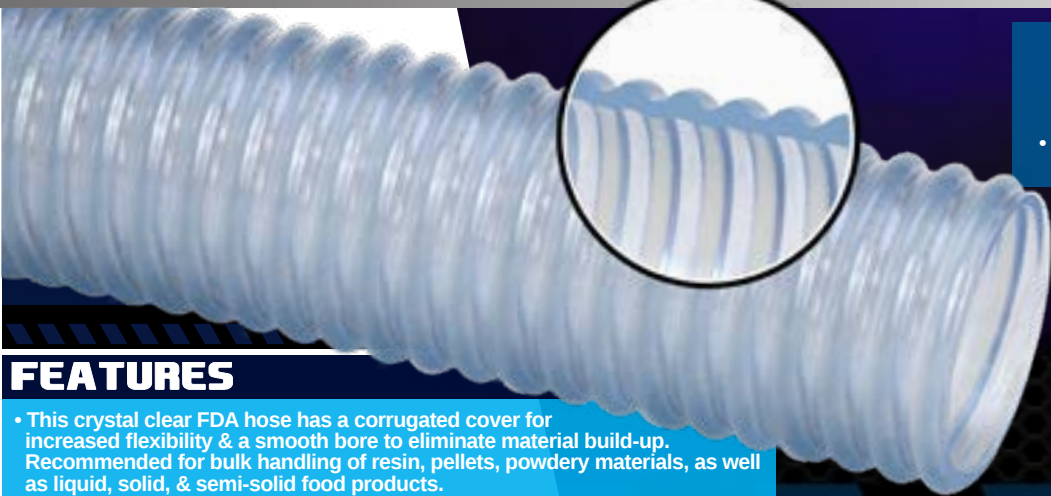
SPECS

FEATURES

- A specially designed PVC suction hose engineered for exceptional cold weather flexibility.
- Designed for use in most water applications, including construction, mining, industrial, & agricultural services.

ID	OD	Length	BLUE / CLEAR PVC					
			55-90 PSI					
			Working PSI	Vacuum Hg	Bend Radius	lbs per 100ft	Part #	List ft.
1-1/2"	"	100'	90	29	5"	48	CW 150	
2"	"	100'	90	29	6"	62	CW 200	
3"	"	100'	65	29	9"	123	CW 300	
4"	"	100'	55	29	13"	183	CW 400	

FDA / PVC CLEAR CORRUGATED SUCTION



- Temp Range: -4° F to +150° F
- Cover: Clear PVC
- Tube: Clear PVC
- Reinforcement: Clear PVC Helix

SPECS

FEATURES

- This crystal clear FDA hose has a corrugated cover for increased flexibility & a smooth bore to eliminate material build-up. Recommended for bulk handling of resin, pellets, powdery materials, as well as liquid, solid, & semi-solid food products.

ID	OD	Length	FOOD GRADE PVC					
			35-50 PSI					
			Working PSI	Vacuum Hg	Bend Radius	lbs per 100ft	Part #	List ft.
1-1/2"	1.83"	100'	50	29	2.5"	34	AC 150	
2"	2.35"	100'	40	29	3"	50	AC 200	
3"	3.48"	100'	40	29	6"	100	AC 300	
4"	4.60"	100'	35	29	8"	152	AC 400	

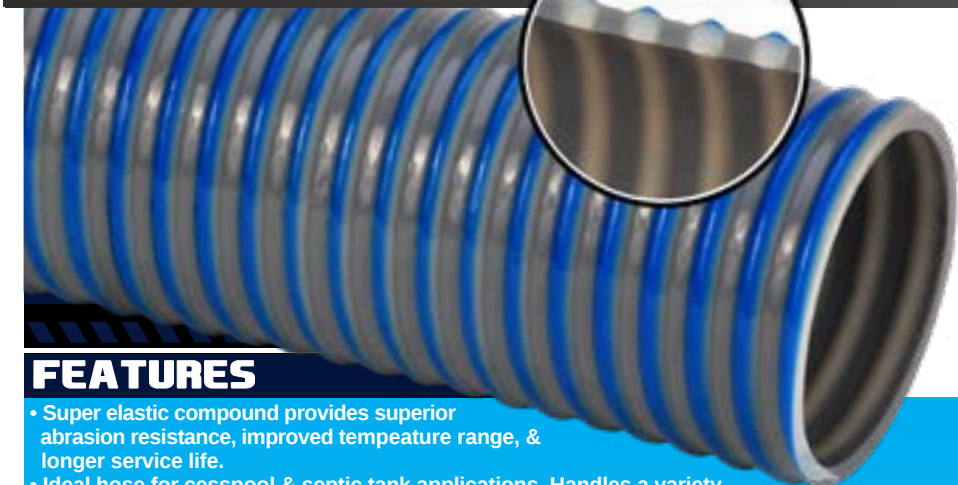
\*Hose dimensions are nominal. Seal Fast reserves the right to modify dimensions in the effort to improve our products.

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THERMOPLASTIC HOSE

SLUDGE SUCTION & DISCHARGE

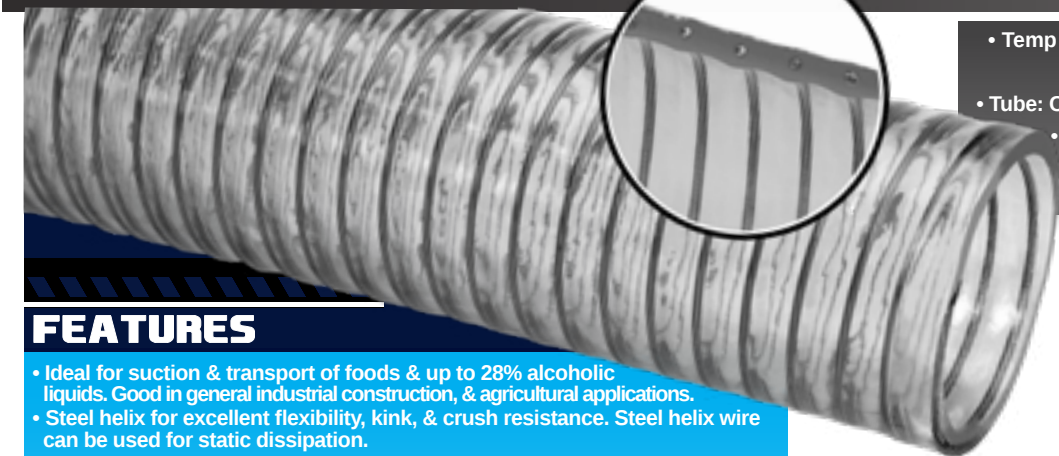


FEATURES

- Super elastic compound provides superior abrasion resistance, improved tempeature range, & longer service life.
- Ideal hose for cesspool & septic tank applications. Handles a variety of liquid & solid materials such as water, slurry transfer, sewage, air, chemicals, grains & pellets.

ID	OD	Length	BLUE / GREY PVC					
			35 - 70 PSI					
			Working PSI	Vacuum Hg	Bend Radius	lbs per 100ft	Part #	List ft.
1-1/2"	1.90"	100'	70	29	-	47	SL 150	
2"	2.40"	100'	70	29	-	68	SL 200	
3"	3.45"	100'	55	29	-	114	SL 300	
4"	4.55"	100'	45	29	-	174	SL 400	
6"	6.60"	20' / 100'	35	29	-	322	SL 600	

FDA CLEAR PLEXISTEEL SUCTION



FEATURES

- Ideal for suction & transport of foods & up to 28% alcoholic liquids. Good in general industrial construction, & agricultural applications.
- Steel helix for excellent flexibility, kink, & crush resistance. Steel helix wire can be used for static dissipation.

ID	OD	Length	CLEAR PVC					
			28 - 100 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per 100ft	Part #	List ft.
3/4"	1.03"	100'	75	225	-	21	PS 075	
1"	1.32"	100'	75	225	-	34	PS 100	
1-1/4"	1.58"	100'	75	225	-	42	PS 125	
1-1/2"	1.85"	100'	75	225	-	52	PS 150	
2"	2.42"	100'	75	225	-	84	PS 200	
2-1/2"	2.95"	100'	75	225	-	121	PS 250	
3"	3.55"	100'	75	225	-	148	PS 300	
4"	4.65"	100'	75	225	-	235	PS 400	
6"	6.65"	20' / 100'	75	225	-	429	PS 600	

\*Hose dimensions are nominal. Seal Fast reserves the right to modify dimensions in the effort to improve our products.

WATER

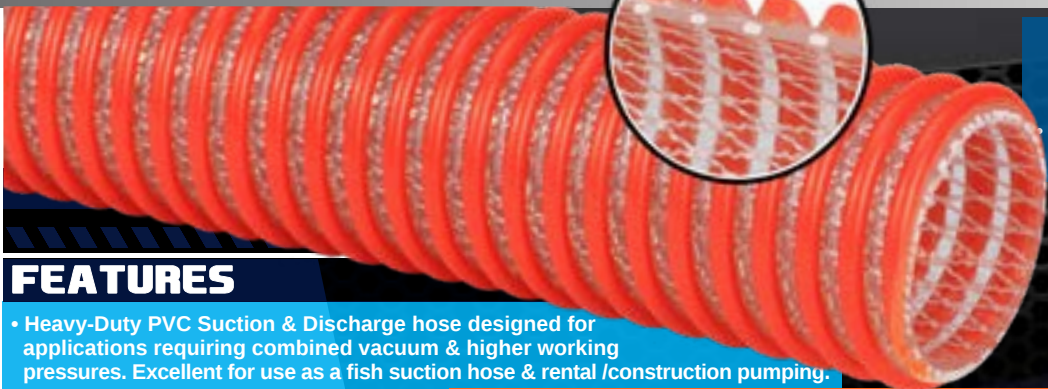
- Temp Range: -15° F to +135° F
- Cover: Grey PVC
- Tube: Grey PVC
- Reinforcement: Rigid White PVC w/Blue outer coating

SPECS

Working pressure & vacuum ratings are based on ambient temperature of 70° F & will vary inversely with temperature changes.

WATER

HEAVY DUTY PVC SUCTION

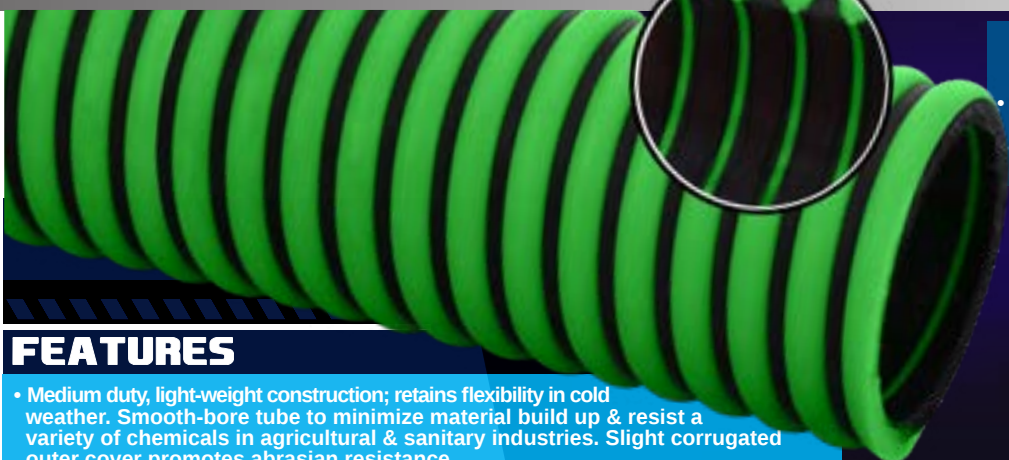


FEATURES

- Heavy-Duty PVC Suction & Discharge hose designed for applications requiring combined vacuum & higher working pressures. Excellent for use as a fish suction hose & rental /construction pumping.

ID	OD	Length	ORANGE / CLEAR PVC					
			60 - 100 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per 100ft	Part #	List ft.
2"	2.60"	100'	100	300	4"	70	HDPS-200	
3"	3.70"	100'	100	300	6.3"	113	HDPS-300	
4"	4.78"	20' / 40' / 100'	75	225	7.1"	174	HDPS-400	
6"	7.17"	20' / 25' / 100'	70	210	10.2"	388	HDPS-600	
8"	9.34"	20' / 25' / 40'	60	180	15.7"	554	HDPS-800	

EPDM /PVC SUCTION - SERIES 1400



FEATURES

- Medium duty, light-weight construction; retains flexibility in cold weather. Smooth-bore tube to minimize material build up & resist a variety of chemicals in agricultural & sanitary industries. Slight corrugated outer cover promotes abrasian resistance.
- Designed for use in waste management, construction, agriculture, marine and manufacturing industries.

ID	OD	Length	BLACK EPDM W/GREEN POLYETHYLENE					
			40 - 50 PSI					
			Working PSI	Vacuum Hg	Bend Radius	lbs per 100ft	Part #	List ft.
1-1/2"	1.84"	100'	50	150	3"	20	GH-150	
2"	2.43"	20' / 25' / 33' / 100'	50	150	4"	25	GH-200	
3"	3.52"	20' / 25' / 33' / 100'	45	129	5"	34	GH-300	
4"	4.62"	100'	40	114	9"	20	GH-400	

ID	Length	CAM LOCK C X E - ALUMINUM			CAM LOCK C X E - POLYPROPYLENE		CAM LOCK C (ALUMINUM) X NPT KC NIPPLE (PLATED STEEL)	
		BANDS - SS						
		# of Bands	PART #	PRICE	PART #	PRICE	PART #	PRICE
2"	20'	2	140020020CEAL		---		140020020CIALXMP	
	25'		140020025CEAL		140020025CEPP		140020025CIALXMP	
3"	20'	2	140030020CEAL		---		140030020CIALXMP	
	25'		140030025CEAL		140030025CEPP		140030025CIALXMP	
4"	20'	3	140040020CEAL		---		140040020CIALXMP	
	25'		140040025CEAL		140040025CEPP		140040025CIALXMP	

\*Hose dimensions are nominal. Seal Fast reserves the right to modify dimensions in the effort to improve our products.

THERMOPLASTIC HOSE

- Temp Range: -13° F to +140° F
- Cover: Orange / Clear PVC
- Tube: Clear PVC
- Reinforcement: Polyester Braid w/Rigid Orange PVC Helix

SPECS

Working pressure & vacuum ratings are based on ambient temperature of 70° F & will vary inversely with temperature changes.



THERMOPLASTIC HOSE

**WATER**

**- STANDARD DUTY DISCHARGE**

- Temp Range: -5° F to +130° F
- Cover: Blue PVC
- Tube: Blue PVC
- Reinforcement: 2 spiral plies
- Safety Factor: 3:1

**SPECS**

FEATURES

- Designed for water discharge applications in agriculture, construction, industry, and mining. Strong, lightweight discharge hose. Rolls up flat for easy storage.

ID	Length	BLUE PVC					
		30 - 70 PSI					
		Working PSI	Burst PSI	Bend Radius	lbs per 100ft	Part #	List ft.
1"	300'	70	210	n/a	32	LD 100	
1-1/4"	300'	70	210	n/a	38	LD 125	
1-1/2"	300'	70	210	n/a	42	LD 150	
2"	300'	65	195	n/a	60	LD 200	
2-1/2"	300'	55	165	n/a	78	LD 250	
3"	300'	55	165	n/a	90	LD 300	
4"	300'	55	150	n/a	120	LD 400	
5"	300'	50	120	n/a	171	LD 500	
6"	300'	40	120	n/a	225	LD 600	
8"	300'	40	120	n/a	330	LD 800	
10"	100'	35	105	n/a	181	LD 1000	
12"	100'	30	90	n/a	195	LD 1200	

ID	Length	CAM LOCK CXE - ALUMINUM			PIN LUG (NPSH) - ALUMINUM SHANK		
		BANDS - SS			BANDS - SS		
		# of Bands	PART #	PRICE		PART #	PRICE
1-1/2"	50'	2	LD150100CEAL			LD150100AL150S	
2"			LD200100CEAL			LD200100AL200S	
3"			LD300100CEAL			LD300100AL300S	
4"			LD400100CEAL			LD400100AL400S	
6"		3	LD600100CEAL			LD600100AL600S	

**WATER**

**- MEDIUM DUTY DISCHARGE**

- Temp Range: -10° F to +150° F
- Cover: Red PVC
- Tube: Red PVC
- Reinforcement: 2 spiral plies & 1 longitudinal ply
- Safety Factor: 3:1

**SPECS**

FEATURES

- Designed for medium duty water discharge applications in agriculture, construction, industry, & mining. Abrasion resistant PVC cover, & PVC tube provide long service life. Rolls up flat for easy storage.

ID	Length	RED PVC					
		70 - 150 PSI					
		Working PSI	Burst PSI	Bend Radius	lbs per 100ft	Part #	List ft.
1-1/2"	300'	150	450	n/a	64	M 150	
2"	300'	150	450	n/a	85	M 200	
2-1/2"	300'	150	450	n/a	123	M 250	
3"	300'	150	450	n/a	145	M 300	
4"	300'	125	375	n/a	205	M 400	
6"	300'	115	345	n/a	352	M 600	
8"	300'	70	210	n/a	440	M 800	

ID	Length	CAM LOCK CXE - ALUMINUM			PIN LUG (NPSH) - ALUMINUM SHANK		
		BANDS - SS			BANDS - SS		
		# of Bands	PART #	PRICE		PART #	PRICE
1-1/2"	50'	2	M150100CEAL			M150100AL150S	
2"			M200100CEAL			M200100AL200S	
3"			M300100CEAL			M300100AL300S	
4"			M400100CEAL			M400100AL400S	
6"		3	M600100CEAL			M600100AL600S	

\*Hose dimensions are nominal. Seal Fast reserves the right to modify dimensions in the effort to improve our products.

Working pressure & vacuum ratings are based on ambient temperature of 70° F & will vary inversely with temperature changes.

WATER

**WATER**

**- HEAVY DUTY DISCHARGE**

- Temp Range: -36° F to +178° F
- Cover: Yellow PVC/NBR
- Tube: PVC/NBR
- Reinforcement: 2 spiral plies & 1 longitudinal ply
- Safety Factor: 3:1

**SPECS**

FEATURES

- Designed for heavy duty water discharge applications in agriculture, construction, industry & mining. Abrasion resistant PVC cover & PVC tube provide long service life.
- Attains higher working pressure from a synthetic woven polyester reinforcement.

ID	Length	YELLOW PVC / NBR					
		200 PSI					
		Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
1-1/2"	300'	200	600	n/a	0.32	W200-150	
2"	300'	200	600	n/a	0.40	W200-200	
2-1/2"	300'	200	600	n/a	0.59	W200-250	
3"	300'	200	600	n/a	0.70	W200-300	
4"	300'	200	600	n/a	0.87	W200-400	
6"	300'	200	600	n/a	1.50	W200-600	
8"	300'	200	600	n/a	2.40	W200-800	

ID	Length	CAM LOCK CXE - ALUMINUM			PIN LUG (NPSH) - ALUMINUM SHANK		
		BANDS - SS			BANDS - SS		
		# of Bands	PART #	PRICE		PART #	PRICE
1-1/2"	50'	2	W200150100CEAL			W200150100AL150S	
2"			W200200100CEAL			W200200100AL200S	
3"			W200300100CEAL			W200300100AL300S	
4"			W200400100CEAL			W200400100AL400S	
6"		3	W20060050CEAL			W20060050AL600S	



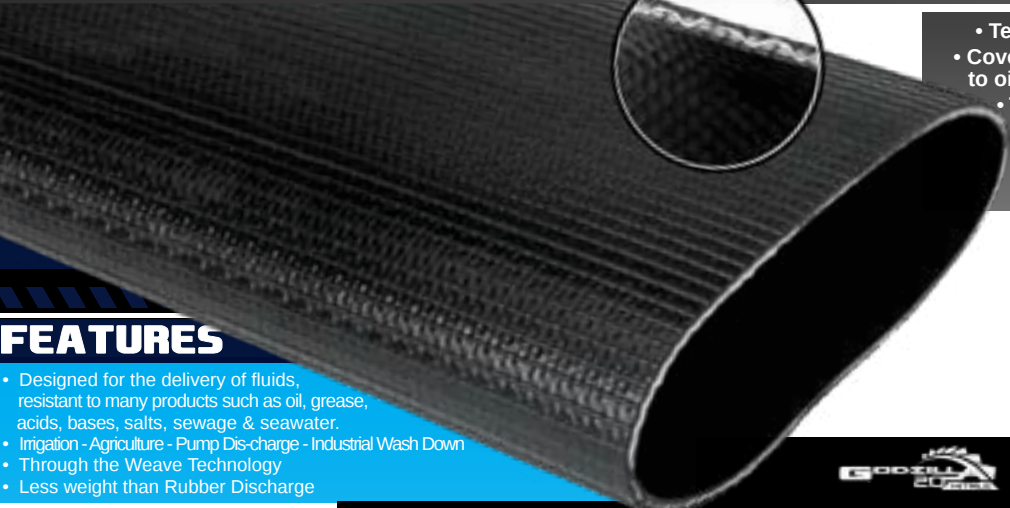
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THERMOPLASTIC HOSE

GODZILLA - NITRILE 10



- Temp Range: -4° F to +176° F
- Cover: Ribbed, highly resistant to oil, abrasion and weathering
- Tube: Nitrile-PVC oil/weather resistant rubber, polyester reinforcement
- Safety Factor: 3:1

SPECS

FEATURES

- Designed for the delivery of fluids, resistant to many products such as oil, grease, acids, bases, salts, sewage & seawater.
- Irrigation - Agriculture - Pump Dis-charge - Industrial Wash Down
- Through the Weave Technology
- Less weight than Rubber Discharge

ID	OD	Length	BLACK NITRILE					
			150 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
1-1/2"	.08"	200'	200	150	n/a	.21	Nitrile 10150TW	
2"	.08"	200'	200	150	n/a	.32	Nitrile 10200TW	
2-1/2"	.08"	200'	200	150	n/a	.44	Nitrile 10250TW	
3"	.10"	200'	200	150	n/a	.48	Nitrile 10300TW	
4"	.10"	200'	200	150	n/a	.66	Nitrile 10400TW	
6"	.12"	200'	200	150	n/a	1.14	Nitrile 10600TW	
8"	.12"	100'	200	150	n/a	1.54	Nitrile 10800TW	
10"	.14"	100'	200	150	n/a	2.05	Nitrile 101000TW	
	.14"	660'	200	150	n/a	2.05	Nitrile 101000 660TW	
12"	.14"	100'	200	150	n/a	2.05	Nitrile 101200TW	

GODZILLA - NITRILE 20



- Temp Range: -4° F to +176° F
- Cover: Ribbed, highly resistant to oil, abrasion and weathering
- Tube: Nitrile-PVC oil/weather resistant rubber, polyester reinforcement
- Safety Factor: 3:1

SPECS

FEATURES

- Designed for the delivery of fluids, where higher working pressures are required.
- Irrigation - Agriculture - Pump Dis-charge - Industrial Wash Down
- Through the Weave Technology

ID	OD	Length	YELLOW NITRILE					
			200 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
3/4"	.08"	200'	200	600	n/a	---	Nitrile 20075TW	
1"	.08"	200'	200	600	n/a	---	Nitrile 20100TW	
1-1/2"	.10"	200'	200	600	n/a	0.22	Nitrile 20150TW	
2"	.10"	200'	200	600	n/a	0.40	Nitrile 20200TW	
2-1/2"	.10"	200'	200	600	n/a	0.56	Nitrile 20250TW	
3"	.11"	200'	200	600	n/a	0.64	Nitrile 20300TW	
4"	.12"	200'	200	600	n/a	0.91	Nitrile 20400TW	
6"	.12"	200'	200	600	n/a	0.91	Nitrile 20600TW	

\*Hose dimensions are nominal. Seal Fast reserves the right to modify dimensions in the effort to improve our products.

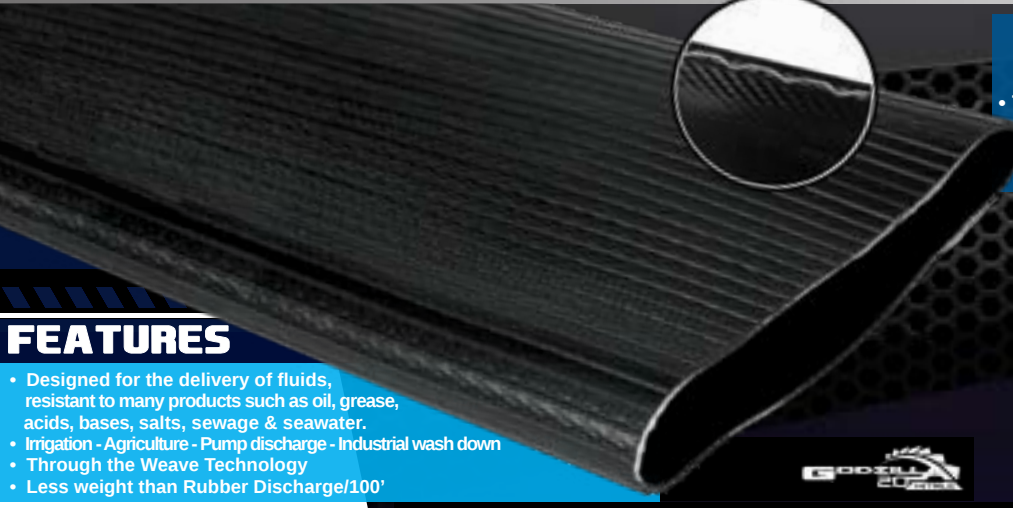
Working pressure & vacuum ratings are based on ambient temperature of 70° F & will vary inversely with temperature changes.

WATER



WATER

ECON NITRILE



- Temp Range: -4° F to +176° F
- Cover: Ribbed, highly resistant to oil, abrasion and weathering
- Tube: Nitrile-PVC oil/weather resistant rubber, polyester reinforcement
- Safety Factor: 3:1

SPECS

FEATURES

- Designed for the delivery of fluids, resistant to many products such as oil, grease, acids, bases, salts, sewage & seawater.
- Irrigation - Agriculture - Pump discharge - Industrial wash down
- Through the Weave Technology
- Less weight than Rubber Discharge/100'

ID	OD	Length	20% NITRILE / 80% PVC					
			150 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
1-1/2"	.08"	200'	150	450	n/a	.21	Nitrile 10150E	
2"	.08"	200'	150	450	n/a	.32	Nitrile 10200E	
3"	.10"	200'	150	450	n/a	.48	Nitrile 10300E	
4"	.10"	200'	150	450	n/a	.66	Nitrile 10400E	
6"	.12"	200'	150	450	n/a	1.14	Nitrile 10600E	
8"	.12"	100'	150	450	n/a	1.54	Nitrile 10800E	

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TECHNICAL DATA

CORROSION RESISTANCE OF COUPLING MATERIALS

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

<b>RATINGS:</b> 1. Excellent 2. Good	3. Fair Conditional x. Not Satisfactory	<b>NOTES:</b> No rationg indicates no data available
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AGENT	Mall. From Steel	Brass	Bronze	Aluminum	Glass	Stainless 410, 416, 430	Stainless 302, 202, 304, 308	Stainless 316	Monel
Acetate, Solvents, Crude		3				2	1	1	2
Acetate, Solvents, Pure		1	1	1		1	1	1	1
Acetic Acid	X	X	X	2	1	X	2	2	2
Acetic Acid Vapor	X	X		3		X	2	2	3
Acetic Anhydride	X	X		2		X	2	2	2
Acetone	1	1	1	1	1	1	1	1	1
Acetylene	1	2		1		1	1	1	2
Alcohols	1	2		1		1	1	1	1
Aluminum Sulfate	X	3	3	3	1	X	3	2	2
Alums	X	3	2	3	1	X	3	2	2
Ammonia Gas	1	X	3	1	3	1	1	1	X
Ammonium Chloride	1	3		1*		3	3	1	1
Ammonium Hydroxide	2	X		2		1	1	1	3
Ammonium Nitrate	1	X		2		1	1	1	3
Ammonium Phosphate (Ammoniacal)		X				1	1	1	2
Ammonium Phosphate (Neutral)		3				1	1	1	2
Ammonium Phosphate (Acid)		3				3	2	1	2
Ammonium Sulfate	1	3				2	1	1	2
Asphalt	1	2				2	1	1	1
Beer	2	2	1	1		X	1	1	1
Beet SugarLiquors	1	2		1		2	1	1	1
Benzene, Benzol	1	1	1	1	1	1	1	1	1
Benzine (petroleum-naphtha)	1	1		1		1	1	1	1
Borax	2	2				1	1	1	1
Boric Acid	X	3		1		3	2	1	1
Butane, Butylene	1	1	1	1		1	1	1	1
Butadiene		1				1	1	1	1
Calcium Bisulfate		X				X	2	1	X
Calcium Hypochlorite	3	3	3	X	3	X	3	2	3
Cane Sugar Liquors	1	2		1		2	1	1	1
Carbon Dioxide (Dry)	1	1		1		1	1	1	1
Carbon Dioxide (Wet & Aqueous Sol)	2	3		2		2	1	1	2
Carbon Disulfide	2	3		2		2	1	1	3
Carbon Tetrachloride	3	1	2	3	1	1	1	1	1
Chlorine (Dry)	2	2	2	1	2	2	2	2	1
Chlorine (Wet)	X	X	3	X	2	X	X	3	3
Chromic Acid		X	X	X	1	3	2	2	3
Citric Acid	X	3		1		3	X	1	2
Coke Oven Gas	1	3		2		1	1	1	2
Copper Sulfate	X	X		X		1	1	1	3
Core Oils		1	1			1	1	1	1
Cottonseed Oil	1	1	1	1		1	1	1	1
Creosote	2	3		1		1	1	1	1
Ethers	2	1		1		1	1	1	1
Ethylene Glycol	2	2				1	1	1	1
Ferric Chloride	X	X	X	X	1	X	X	X	X
Ferric Sulfate	X	X		X		1	1	1	3
Formaldehyde	2	2		2		1	1	1	1

TECHNICAL DATA

CORROSION RESISTANCE OF COUPLING MATERIALS

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

<b>RATINGS:</b> 1. Excellent 2. Good	3. Fair Conditional x. Not Satisfactory	<b>NOTES:</b> No rationg indicates no data available
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AGENT	Mall. From Steel	Brass	Bronze	Aluminum	Glass	Stainless 410, 416, 430	Stainless 302, 202, 304, 308	Stainless 316	Monel
Formic Acid	X	2		X		X	2	1	2
Freon	3	1	1	1		1	1	1	1
Furfural	1	2		1		1	1	1	1
Gasoline (Sour)	3	3		3		3	1	1	X
Gasoline (Refined)	1	1	1	1		1	1	1	1
Gelatin	1	3		1		1	1	1	1
Glucose	1	1		1		1	1	1	1
Glue	1	3		1		1	1	1	1
Glycerine or Glycerol	1	2		1		1	1	1	1
Hydrochloric Acid	X	X	X	X	1	X	X	X	X
Hydrocyanic Acid	3	X		1		3	1	1	2
Hydrofluoric Acid	X	3	3	X	X	X	X	X	X
Hydrogen Fluoride		3				X	X	3	1
Hydrogen	1	1		1		1	1	1	1
Hyrogen Peroxide	X	X		1		1	2	1	2
Hydrogen Sulfide (Dry)	3	3		2		3	2	1	3
Hydrogen Sulfide (Wet)	3	3		2		3	2	1	3
Lacquers and Lacquer Solvents	3	2		1		1	1	1	1
Lactic Acid	X			3			3	2	1
Lime-Sulfur	2	X		2		1	1	2	
Linseed Oil	1	1		1			1	1	1
Magnesium Chloride	3	3		X		3	2	1	1
Magnesium Hydroxide	1	2		X		1	1	1	1
Magnesium Sulfate	2	2		3		1	1	1	1
Mercuric Chloride	3	X		X		X	X	3	X
Mercury	1	X		X		1	1	1	2
Milk	3	3		1		2	1	1	3
Molasses	2	X		2		2	1	1	1
Natural Gas	1	2		1		1	1	1	1
Nickel Chloride		X		X		X	3	2	2
Nickel Sulfate		3		X		3	2	1	1
Nitric Acid	X	X	X	3	1	2	2	2	X
Oleic Acid	2	3		1		2	2	1	1
Oxalic Acid	3	3		2		3	2	1	1
Oxygen	1	1	1	1		1	1	1	1
Palmitic Acid	1	3		1		2	2	1	1
Petroleum Oils (Sour)		3				3	1	1	X
Petroleum Oils (Refined)	1	1	1	1		1	1	1	1
Phosphoric Acid 25%	3	X		3	3	X	3	1	2
Phosphoric Acid 25-50%	X	X		X	3	X	X	2	2
Phosphoric Acid 50-85%	X	X		X	X	X	X	2	2
Picric Acid	3	X		3		2	1	1	X
Potassium Chloride	2	3		3		3	2	1	1
Potassium Hydroxide	3	X		X		1	1	1	1
Potassium Sulfate	2	2		1		1	1	1	1
Propane	1	1				1	1	1	1
Rosin (Dark)	1	2			1	1	1	1	1
Rosin (Light)		X		1		1	1	1	2



TECHNICAL DATA

CORROSION RESISTANCE OF COUPLING MATERIALS

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

**RATINGS:** 1. Excellent 3. Fair Conditional  
2. Good x. Not Satisfactory **NOTES:** No rationg indicates no data available

AGENT	Mall. From Steel	Brass	Bronze	Aluminum	Glass	Stainless 410, 416, 430	Stainless 302, 202, 304, 308	Stainless 316	Monel
Shellac		2		2		1	1	1	1
Sludge Acid		X				X	X	3	2
Soda Ash (Sodium Carbonate)	1	2		X		1	1	1	1
Sodium Bicarbonate	3	1		X		1	1	1	1
Sodium Bisulfate	X	3		3		X	1	1	1
Sodium Chloride	2	3	2	X	1	3	2	1	1
Sodium Cyanide	2	X		X		1	1	1	2
Sodium Hydroxide	3	X	3	X	X	2	2	2	1
Sodium Hypochlorite	X	X		X		X	3	2	3
Sodium Metaphosphate	X	3		1		2	1	1	1
Sodium Nitrate	1	3		1		1	1	1	1
Sodium Perborate	3	3		1		1	1	1	1
Sodium Peroxide	3	3		1		1	1	1	1
Sodium Phosphate (Alkaline)		3				1	1	1	1
Sodium Phosphate (Neutral)		2				1	1	1	1
Sodium Phosphate (Acid)		2				X	2	1	1
Sodium Silicate	1	3		X		1	1	1	1
Sodium Sulfate	1	2		3		1	1	1	1
Sodium Sulfide	1	X				1	1	1	2
Sodium Thiosulfate (Hypo)	3	X		X		1	1	1	2
Stearic Acid	3	3		3		2	2	1	1
Sulfate Liquors		X				1	1	1	2
Sulfur	2	X		2		2	2	1	3
Sulfur Chloride	X	X				X	3	2	2
Sulfur Dioxide (Dry)	2	1		1		1	1	1	1
Sulfur Dioxide (Wet)		X				X	2	1	X
Sulfuric Acid 10%	X	X	3	3		X	X	2	2
Sulfuric Acid 10-75%	X	X	X	X		X	X	X	2
Sulfuric Acid 75-95%	3	X	X	X		3	3	2	3
Sulfuric Acid 95%	2	X	X			2	2	2	X
Surlfurous Acid	X	X		X		X	3	2	X
Tannic Acid	3	3	1	X			1	1	1
Tar	1	2		1		2	1	1	1
Toluene, Toluol	1	1		1		1	1	1	1
Trichlorethylene	3	1		3		1	1	1	1
Turpentine		3		1		3	1	1	1
Varnish	2	2				1	1	1	1
Vegetable Oils	1	2		1		1	1	1	1
Vinegar	3	3		3		3	2	1	2
Water (Acid Mine Water)	3	X		3		2	1	1	3
Water (Fresh)	3	1		1		1	1	1	1
Water (Salt)	3	3	2	X		3	2	2	1
Whiskey	X	2				3	1	1	2
Wines	X	2				3	1	1	2
Xylene, Xylol	2	1		1		1	1	1	1
Zinc Chloride	X	X		X		3	2	1	1
Zinc Sulfate	3	3		3		3	2	1	1

TECHNICAL DATA

OIL & GASOLINE RESISTANCE

Rubber hose is used to convey petroleum products both in the crude and refined stages. The aromatic content of re-fined gasoline is often adjusted to control the octane rating. The presence of aromatic hydrocarbons in this fuel generally has a greater effect on rubber components than do aliphatic hydrocarbons. Aromatic materials in contact with rubber tend to soften it and reduce its physical properties. For long lasting service, the buyer of gasoline hose should inform the hose manufacturer of the aromatic content of the fuel to be handled so that the proper tube compound can be recommended for the specific application.

The effects of oil on rubber depend on a number of factors that include the type of rubber compound, the composition of the oil, the temperature and time of exposure. Rubber compounds can be classified as to their degree of oil resistance based on their physical properties after exposure to a standard test fluid. In this RMA classification, the rubber samples are immersed in IRM 903 oil at 100°C for 70 hours. (See ASTM Method D-471 for a detailed description of the oil and the testing procedure.) As a guide to the user of hose in contact with oil, the oil resistance classes and a corresponding description are listed.

PHYSICAL PROPERTIES AFTER EXPOSURE TO OIL:		
	VOLUME CHANGE MAXIMUM	TENSILE STRENGTH RETAINED
CLASS A (HIGH OIL RESISTANCE).....	+25%	80%
CLASS B (MEDIUM/HIGH OIL RESISTANCE).....	+65%	50%
CLASS C (MEDIUM OIL RESISTANCE).....	+100%	40%

CHEMICAL RECOMMENDATIONS

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

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

TABLE OF CHEMICAL, OIL & SOLVENT RESISTANCE OF HOSE:

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

RESISTANCE RATING	RELASTOMERS/PLASTICS	
A - Good Resistance, usually suitable for service.	NR - Natural Rubber	EPDM - Ethylene-propylene-diene-terpolymer
F - Fair Resistance, the chemical has some deteriorative effects, but the elastomer is still adequate for moderate service.	IR - Isoprene, synthetic	MQ - Dimethyl-polysiloxane
	SBR - Styrene-butadiene	FKM - Fluoracarbon rubber
C- Depends on Condition, moderate service may be possible if chemical exposure is limited or infrequent.	CR -Chloroprene	CM - Chloro-polyethylene
	NBR - Nitrile-butadiene	ECO/CO - Ephichlorohydrin
X- Not recommended, unsuitable for service.	IIR - Isobutene-isoprene	EXLPE - Chloro-sulfonyl-polyethylene
I - Insufficient Information, not enough data available at the time of publication to determine rating.	CSM - Chloro-sulfonyl-polyethylene	



TECHNICAL DATA

ELASTOMERS

Commonly used Elastomers:						Special Elastomers:						
MATERIAL	NR lor IR	SBR	CR	NBR	IIR	CSM	EPDM	MQ	FKM	CM	ECO CO	XLPE
(Maximum Temperature 100° F (38°C) Unless Otherwise Specified												
Acetic Acid, Dilute, 10%	F	C	C	C	A	C	A	A	X	A	F	A
Glacial	C	X	X	X	F	C	F	F	X	A	X	A
Anhydride	C	C	F	F	F	A	I	C	X	A	X	A
Acetone	A	A	F	X	A	F	A	A	X	A	X	A
Acetylene	A	A	F	A	A	F	A	C	A	I	I	I
Air 150°F (65°C)	A	A	A	A	A	A	A	A		A	A	A
Aluminum Chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A
Aluminum Fluoride 150°F (65°C)	A	A	A	A	A	A	A	F			A	A
Aluminum Sulfate 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	I	A
Alums 150°F (65°C)	A	A	A	A	A	A	A	A		A	I	A
Ammonia Gas	A	A	A	A	A	A	A	A	X	A	I	A
Ammonium Chloride	A	A	A	A	A	A	A	C	A	A	A	A
Ammonium Hydroxide	C	F	F	F	A	A	A	A	A	A	I	A
Ammonium Nitrate	A	A	A	A	A	A	A	A		I	A	A
Ammonium Phosphate, monobasic	A	A	A	A	A	A	A	A		A	I	A
dibasic	A	A	A	A	A	A	A	A		I	I	A
tribasic	A	A	A	A	A	A	A	A		I	I	A
Ammonium Sulfate	A	A	A	A	A	A	A	A	A	A	I	A
Amyl Acetate	F	X	X	X	F	X	A	A	X	C	X	A
Amyl Alcohol	A	A	A	A	A	A	A	A	A	A	A	A
Aniline, Aniline Oil	X	X	C	X	A	X	C	C	A	C	X	A
Aniline Dyes	F	F	F	F	A	F	C	C			I	I
Asphalt	X	X	F	F	X	F	X		A		A	X
Barium Chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A
Barium Hydroxide 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A
Barium Sulfide 150°F (65°C)	A	A	A	A	A	A	A	A	A	I	A	A
Beer	A	A	A	A	A	A	A	A	A	I	A	A
Beet Sugar Liquors	A	A	A	A	A	A	A	A	A	I	I	A
Benzene, Benzol	X	X	X	C	X	X	X	C	A	C	X	A
Benzine, petroleum ether and												
Benzine, petroleum naphtha	X	X	C	F	X	F	X	C	A		I	A
Black Sulfate Liquor	A	A	A	A	A	A	A	A		I	I	A
Blast Furnace Gas	C	C	A	C	C	C	C	C	A	I	I	A
Borax	A	A	A	A	A	A	A	A	A	I	I	A
Boric Acid	A	A	A	A	A	A	A	A	A	I	A	A
Bromine	X	X	X	X	X	C	X	F	A	C		F
Butane	X	X	F	A	X	A	X	A	A	A	A	A
Butyl Acetate	C	X	X	X	F	X	F	A	X	F	X	A
Butyl alcohol, butanol	A	A	A	A	A	A	A	A	A	F	I	A
Calcium bisulfate	C	C	A	A	F	A	F	C	A	A	I	A
Calcium chloride	A	A	A	A	A	A	A	A	A	A	A	A
Calcium hydroxide	A	A	A	A	A	A	A	A	A	A	A	A
Calcium hypochlorite	X	X	X	X	A	F	A	C	A	A	F	F
Caliche liquors	A	A	A	A	A	A	A				I	A
Cane sugar liquors	A	A	A	A	A	A	A	A	A	A	A	A
Carbolic acid, phenol	C	C	C	C	C	C	A	A	A	A		A

Chart is reprinted from 1996 RMA Hose Handbook

TECHNICAL DATA

ELASTOMERS

Commonly used Elastomers:						Special Elastomers:						
MATERIAL	NR lor IR	SBR	CR	NBR	IIR	CSM	EPDM	MQ	FKM	CM	ECO CO	XLPE
(Maximum Temperature 100° F (38°C) Unless Otherwise Specified												
Carbon dioxide, dry/wet	A	A	A	A	A	A	A	A	A	A	A	A
Carbon disulfide	X	X	X	X	X	X	X	C	A	C		C
Carbon monoxide 150°C (65°C)	C	C	C	C	C	F	C	A	A	I		A
Carbon tetrachloride	X	X	X	C	X	X	X	C	A	C	F	A
Castor oil	A	A	A	A	A	A	A	A	A	A	A	A
Cellosolve acetate	F	F	X	X	A		A	C	C			A
CFC-12	X	X	A	A	F		F	X	A		A	I
China wood oil, tung oil	X	X	F	A	A	F	A	A	C		I	A
Chlorine, dry/wet	X	X	X	X	X	X	X	X	C	X	X	F
Chlorinated solvents	X	X	X	X	X	X	X	C	C	C		A
Chloroacetic acid	X	C	C	C	X	A	I	C	X			A
Chlorosulfonic acid	X	X	C	C	X	X	X	C	X			F
Chromic acid	X	X	X	X	C	A	I	C	C	A		F
Citric acid	A	A	A	F	A	A	A	A	A	A	A	A
Coke oven gas	C	C	C	C	C	A		A	X	A	X	C
Copper chloride 150°F (65°C)	C	A	F	A	A	F	A	A	A	A	I	A
Copper sulfate 150°F (65°C)	C	A	A	A	F	A	A	A	A	A	A	A
Corn oil	X	C	F	A	A	F	C	A	A	A	A	A
Cottonseed oil	X	C	F	A	A	F	C	A	A	A	I	A
Creosote, coal tar	X	X	F	A	X	F	X	C	F		X	A
Wood	X	X	F	A	X		X	C	A			A
Creosols, cresylic acid	C	X	X	C	C	F	X	C		F		A
Ethers	C	C	C	C	C	F	X	C	X	A		A
Ethyl acetate	F	X	X	X	F	X	F	F	X	F	X	A
Ethyl alcohol	A	A	A	A	A	A	A	A	A	A	A	A
Ethyl cellulose	F	F	F	F	F		F	C	X	F		A
Ethyl chloride	A	F	F	X	A	F	A	C	F	F	F	F
Ethylene glycol	A	A	A	A	A	A	A	A	A	A	A	A
Ferric chloride 150°F (65°C)	A	A	A	A	A	A	A	A	I	A	A	A
Ferric Sulfate 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A
Formaldehyde	A	A	C	A	A	A	A	A	A	A	F	A
Formic acid	A	A	C	F	A	A	A	A	X	A	F	F
Fuel oil	X	X	A	A	X	F	X	C	A	F	A	A
Furfural	X	C	C	X	A	F	C	C	X	A	X	A
Gasoline, Non Leaded	X	X	X	A	X	X	X		A	C	A	A
Gasoline, + MTBE	X	X	X	A	X	X	X	C	A	C	A	A
Hi-test-+ MTBE	X	X	X	A	X	X	X	C	A	C	A	A
Gelatin	A	A	A	A	A	A	A	A	A		A	A
Glucose	A	A	A	A	A	A	A	A	A		A	A
Glue	F	F	A	A	F	A	A	A	C		A	A
Glycerine, glycerol	A	A	A	A	A	A	A	A	A	A	A	A
Green sulfate liquor	A	A	A	A	A	A	A	A	A	A	A	A
HFC-134A	F	X	A	A	A	F	A		X	F		A

Chart is reprinted from 1996 RMA Hose Handbook



TECHNICAL DATA

ELASTOMERS

Commonly used Elastomers:												Special Elastomers:											
MATERIAL	NR lor IR	SBR	CR	NBR	IIR	CSM	EPDM	MQ	FKM	CM	ECO CO	XLPE											
(Maximum Temperature 100° F (38°C) Unless Otherwise Specified																							
Hydraulic fluids																							
Petroleum	X	X	A	A	X	F	X			A	A												
Phosphate ester alkyl	X	X	C	X	A	X	A			A	X												
Phosphate ester arly	X	X	X	X	C	X	C			C	X												
Phosphate ester blends		X	X	X	X	X	X	C			C	X											
Silicate ester	X	X	C	C	X	C	X			C	C												
Water-Glycol	A	A	A	A	A	A	A		A	A	A												
Hydrobromic acid	C	X	C	C	A	A	A	C	A	A		I											
Hydrochloric acid	A	X	X	X	C	C	C	C	A	A	X	A											
Hydrocyanic acid	F	F	C	F	C	A	C	A	A			A											
Hydrofluoric acid	X	X	X	X	C	A	C	X	A	A		A											
Hydrofluosilicic acid	A	F	F	F	A		A	A	A	A		I											
Hydrogen Gas	F	F	A	A	A		A	A	A		A	A											
Hydrogen peroxide	X	X	C	C	C	C	C	A	A	A		I											
Hydrogen sulfide, dry	C	C	F	C	A	A	A	C	F			A											
wet	C	C	F	C	A	A	A	C	C		F	A											
Kerosene	X	X	F	A	X	C	X	C	A	A	A	A											
Lacquers	X	X	X	X	C	X	X		X		X	F											
Lacquers solvents	X	X	X	X	C	X	X		X		X	F											
Lactic acid	C	C	C	C	C	A	C	A	A			A											
Linseed oil	C	X	F	A	A	A	A	A	A	A	A	A											
Lubricating oil, crude	X	X	F	A	X	C	X	C	A		A	A											
refined	X	X	F	A	X	C	X	C		A	A	A											
Magnesium chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A											
Magnesium hydroxide 150°F (65°C)	A	F	F	F	A	A	A	F	A	A	A	A											
Magnesium sulfate 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A											
Mercuric chloride	F	F	C	F	A	A	A	A	A		A	A											
Mercury	A	A	A	A	A	A	A	A	A		A	A											
Methyl alcohol, methanol	A	A	A	A	A	A	A	A	C	A	F	A											
Methyl chloride	C	C	C	C	C	X	C	X	A			F											
Methyl ethly ketone	X	X	X	X	F	C	A	C	X	C	X	A											
Methyl isopropyl ketone	X	X	X	X	F	C	C	C	X	F	X	A											
MTBE												A											
Milk	C	C	F	F	A	A	A	A	A	A	A	A											
Mineral oils	X	C	F	A	X	F	X	A	A	A	A	A											
Natural gas	C	C	A	A	C	A	X	C	A	A	A	A											
Nickel chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	I	A											
Nickel sulfate 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	I	A											
Nitric acid, crude	X	X	X	X	C	C	X	X	C	A	X	F											
Diluted 10%	X	X	C	X	C	C	X	X	C	A	X	F											
Concentrated 70%	X	X	X	X	C	C	X	X	C	X	X	F											
Nitrobenzene	X	X	X	X	X	X	X	C	F	C	X	A											
Oleic acid	X	F	C	F	F	F	F	A	C	A		A											
Oleum spirits	X	C	C	C			I		C			I											

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TECHNICAL DATA

ELASTOMERS

Commonly used Elastomers:												Special Elastomers:											
MATERIAL	NR lor IR	SBR	CR	NBR	IIR	CSM	EPDM	MQ	FKM	CM	ECO CO	XLPE											
(Maximum Temperature 100° F (38°C) Unless Otherwise Specified																							
Oxalic acid	F	C	F	F	A	A	A	A	A	A	F	A											
Oxygen	F	C	A	C	A		A	A	A	A	F	A											
Palmitic acid	X	F	A	A	F	F	F	C	A	A	F	A											
Perchlorethylene	X	X	X	C	X	X	X	C	A	C	F	A											
Petroleum oils and crude 200°F (95°C)	X	X	F	A	X	C	X	C	A	C	F	A											
Phosphoric acid, crude	A	C	C	C	C	A	C	C	A	A		A											
pure 45%	A	C	C	C	C	A	C	C	A	A		I											
Picric acid, molten	C	C	C	C	C		I					I											
water solution	A	C	F	F	A	A	I	A	A			I											
Potassium chloride	A	A	A	A	A	A	A	A	A	A	A	A											
Potassium cyanide	A	A	A	A	A	A	A	A	A	A	A	A											
Potassium hydroxide	F	F	C	C	A	A	A	A	C	A	A	A											
Potassium sulfate	A	A	A	A	A	A	A	A	A	A	A	A											
Propane	X	X	F	A	X	F	X	A	A	A	A	A											
Sewage	C	C	F	A	C	A	C	C	A		I	A											
Soap solutions	A	A	F	A	A	A	A	A	A	A	A	A											
Soda ash, sodium carbonate	A	A	A	A	A	A	A	A	A	A	A	A											
Sodium bicarbonate, baking soda	A	A	A	A	A	A	A	A	A	A	A	A											
Sodium bisulfate	A	A	A	A	A	A	A	A	A	A	A	A											
Sodium chloride	A	A	A	A	A	A	A	A	A	A	A	A											
Sodium cyanide	A	A	A	A	A	A	A	A	A	A	A	A											
Sodium hydroxide	F	F	C	C	A	C	A	A	C	A	F	A											
Sodium hypochlorite	X	X	X	X	A	F	A	C	A	A	F	F											
Sodium metaphosphate	A	A	C	A	A	F	A	A	A	A	I	A											
Sodium nitrate	C	C	C	C	A	A	A	C		A	A	A											
Sodium perborate	C	C	C	C	A	A	A	A	A			A											
Sodium peroxide	C	C	C	C	A	A	A	C	A			A											
Sodium phosphate.monobasic	A	F	C	F	A	A	A	A	A	A		A											
dibasic	A	F	C	F	A	A	A	A				A											
tribasic	A	F	C	F	A	A	A	A				A											
Sodium silicate	A	A	A	A	A	A	A	A	A	A	I	A											
Sodium sulfate	A	A	A	A	A	A	A	A	A	A	A	A											
Sodium sulfide	A	A	A	A	A	A	A	A	A	A	I	A											
Sodium thiosulfate, “hypo”	A	A	A	A	A	A	A	A	A	A	I	A											
Soybean oil	X	C	F	A	A	A	A	A	A	A	A	A											
Stannic chloride	A	A	A	A	F	A	F	A	A	A	I	A											
Steam 450°F (230°C)	C	C	C	C	A	A	F	C	X		X	X											
Stearic acid	X	X	C	F	F	C	F	A	I		F	A											
Sulfur	F	F	A	F	A	A	A	F	A		F	C											
Sulfur chloride	X	X	C	C	X	A	X	C	A			A											
Sulfur dioxide , dry	C	C	C	C	C	A	C	A	A		I	I											
Sulfur trioxide, dry	X	C	C	C	C	F	C	A	A			I											
Sulfuric acid, 10%	A	A	A	A	A	A	A	A	A	A	A	A											

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# TECHNICAL DATA

## ELASTOMERS

### Commonly used Elastomers:

### Special Elastomers:

MATERIAL	NR lor IR	SBR	CR	NBR	IIR	CSM	EPDM	MQ	FKM	CM	ECO CO	XLPE
(Maximum Temperature 100° F (38° C) Unless Otherwise Specified)												
11%-75%	C	C	C	C	F	A	C	C	A	A	F	A
76%-95%	X	X	X	X	C	A	X	X	A	X	X	A
fuming	X	X	X	X	X	X	X	X	X	X	X	X
Sulfurous acid	C	C	C	C	C	A	C	C	A	A	C	A
Tannic acid	A	C	A	C	A	A	A	A	A	A	I	A
Tar	X	X	C	C	X	C	X	C	F		F	X
Tartaric acid	A	C	C	C	F	A	F	A	A	A	F	A
Toluene, toluol	X	X	X	C	X	X	X	C	A	C	X	A
Trichloroethylene	X	X	X	X	X	X	X	C	A	C	X	A
Turpentine	X	X	X	F	X	X	X	C	A	F	A	A
Vinegar	C	C	C	C	A	A	A	A	A	A		A
Water, acid mine	A	A	C	A	A	A	A	A	A	A	I	A
Water, fresh	A	A	C	A	A	A	A	A	A	A	A	A
distilled	A	A	C	A	A	A	A	A	A	A	A	A
Whiskey and wines	A	A	A	C	A	A	A	A	A	A	I	A
Xylene,xylol	X	X	X	C	X	X	X	C	A	X	X	A
Zinc chloride	C	C	C	C	A	A	A	A	A	A	I	A
Zinc sulfate	A	A	A	A	A	A	A	A	A	A	I	A

## NOZZLES - SPECS

Nozzle Style & Size	Inlet PSI	Pressure KPA	Straight GPM	Stream IPM	30 GPM	30 IPM	60 GPM	60 IPM	90 GPM	90 IPM
	50	345	18	68	21	79	24	91	27	102
10464	75	517	22	83	25	95	28	106	32	121
1"	100	690	24	91	28	106	32	121	36	136
	50	345	45	170	50	189	55	208	60	227
10464	75	517	50	189	55	208	65	246	75	284
1-1/2"	100	690	55	208	60	227	75	284	85	322
	50	345	90	341	120	454	130	492	145	549
10464	75	517	100	379	140	530	150	568	180	681
2-1/2"	100	690	110	416	165	625	180	681	205	776

### Threads Per Inch

1-1/2" Size	2.100 (NYFD)	1.990 (NST)	2.093 (NYCORP)	1.878 (NPSH)
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### Threads Per Inch

	6"	7"	7-1/2"	8"
	3.058	3.13	2.990 (CHICAGO)	3.062
	3.093		3.062 (NST)	3.093
	3.125		3.125 (DETROIT)	3.140
	3.156			3.156
2-1/2"	3.187			3.312
	3.234			3.031 (NYFD)
	3.250			3.00 (NY CORP)
	3.312			2.841 (NPSH)
	3.062 (PITTSBURGH)			3.78 (CLEVELAND)

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