

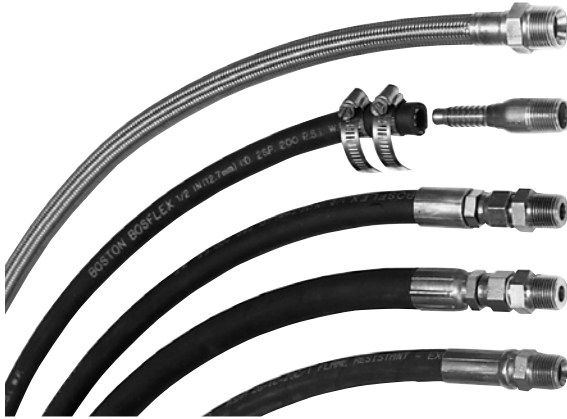
DATA SHEET

INDUSTRIAL HOSES



Flexible Inlet & Discharge Models:

990801 – 990860



SELECTION

These flexible hoses are intended for connecting the supply line to the pump inlet and the discharge line to the system. The flow and pressure of the system must be reviewed before selecting the proper hose.

The inlet hose must be equal to or one size greater than the inlet port of the pump. The Lo-Pressure hoses are rated up to 80 and 200 psi. The inlet hoses are reinforced and suitable for negative (suction) inlet systems. Do not exceed pump rating. If the supply line to the pump exceeds the six feet of these standard hoses, a booster pump and inlet stabilizer may be required.

The discharge hose can be equal to the discharge port of the pump and may be less depending upon the flow and friction loss (see Hose Friction Loss Chart). The Hi-Pressure hoses are rated up to 1000, 1200, 3000, 5000, 6000, and 10,000 psi.

3 Ft. Hi-Pressure Hose - Steel

Fitting/Hose Size	Fitting Type	Fitting Material	Part Number	Working PSI	Bend Radius	Max. Temp.	Hose Material	Hose Reinforcement	Weight Lbs
3/8"	B	STL	990834	3000	2.00"	250F	NE	1-BRD STL	2
1/2"	B	STL	990836	3000	3.50"	250F	NE	1-BRD STL	2
3/4"	B	STL	990832	3000	4.75"	250F	NE	2-BRD STL	3
3/4"	A	STL	990837	6000	9.50"	250F	NE	4-SPRL STL	6
1"	B	STL	990833	3000	6.00"	250F	NE	2-BRD STL	5
1-1/4"	A	STL	990839	3000	16.50"	250F	NE	4-SPRL STL	10

3 Ft. Hi-Pressure Hose - 316 Stainless Steel

Fitting/Hose Size	Fitting Type	Fitting Material	Part Number	Working PSI	Bend Radius	Max. Temp.	Hose Material	Hose Reinforcement	Weight Lbs
3/8"	A	316SS	990859	3000	2.00"	250F	NE	1-BRD STL	1
1/2"	A	316SS	990852	3000	3.50"	250F	NE	1-BRD STL	2
1/2"	A	316SS	990857	5000	8.00"	250F	Polyester	2-BRD STL	4
3/4"	A	316SS	990853	3000	4.75"	250F	NE	2-BRD STL	3
3/4"	A	316SS	990858	5000	9.50"	250F	NE	4-SPRL STL	6
3/4"	D	304SS	990801	1200	7.75"	450F	FDA	PTFE-INNER	1
1"	D	304SS	990802	1000	9.00"	450F	FDA	PTFE-INNER	2
1"	A	316SS	990854	3000	6.00"	250F	NE	2-BRD STL	5
1-1/4"	A	316SS	990855	3000	16.50"	250F	NE	4-SPRL STL	10

5-6 Ft. Lo-Pressure Hose - Steel

Fitting/Hose Size	Fitting Type	Fitting Material	Part Number	Working PSI	Bend Radius	Max. Temp.	Hose Material	Hose Reinforcement	Weight Lbs
1/2"	A	STL	990860	200	6.00"	212F	EPDM	2-TEXT SPRL	2
3/4"	A	STL	990840	200	9.00"	212F	EPDM	4-TEXT SPRL	3
1"	A	STL	990841	200	12.00"	212F	EPDM	4-TEXT SPRL	5
1-1/2"	A	STL	990843	200	18.00"	212F	EPDM	2-DBL BRD	8
2"	E	STL	990844	80	10.00"	180F	RBR	1-TEXT SPRL	8

5-6 Ft. Lo-Pressure Hose - 316 Stainless Steel

Fitting/Hose Size	Fitting Type	Fitting Material	Part Number	Working PSI	Bend Radius	Max. Temp.	Hose Material	Hose Reinforcement	Weight Lbs
1/2"	E	316SS	990845	200	6.00"	212F	EPDM	2-TEXT SPRL	5
3/4"	E	316SS	990846	200	9.00"	212F	EPDM	4-TEXT SPRL	3
1"	E	316SS	990849	200	12.00"	212F	EPDM	4-TEXT SPRL	4
1-1/4"	E	316SS	990848	200	15.00"	212F	EPDM	2-DBL BRD	6
1-1/2"	E	316SS	990847	200	18.00"	212F	EPDM	2-DBL BRD	6
2"	E	316SS	990850	80	10.00"	180F	RBR	1-TEXT SPRL	8
2-1/2"	E	316SS	990851	80	12.00"	180F	RBR	1-TEXT SPRL	10

Material Codes: EPDM=Ethylene Propylene Diene Monomer NE=Neoprene PTFE=Polytetrafluoroethylene RBR=Rubber STL=Steel

INSTALLATION

After selecting the correct size and pressure rated hose, review the Hose Fitting Style Chart for the proper fittings. Install the Lo-Pressure Hose directly to the inlet port of the pump and the discharge from the discharge port of the regulating device. Use proper thread sealant for material and pressure.

MAINTENANCE

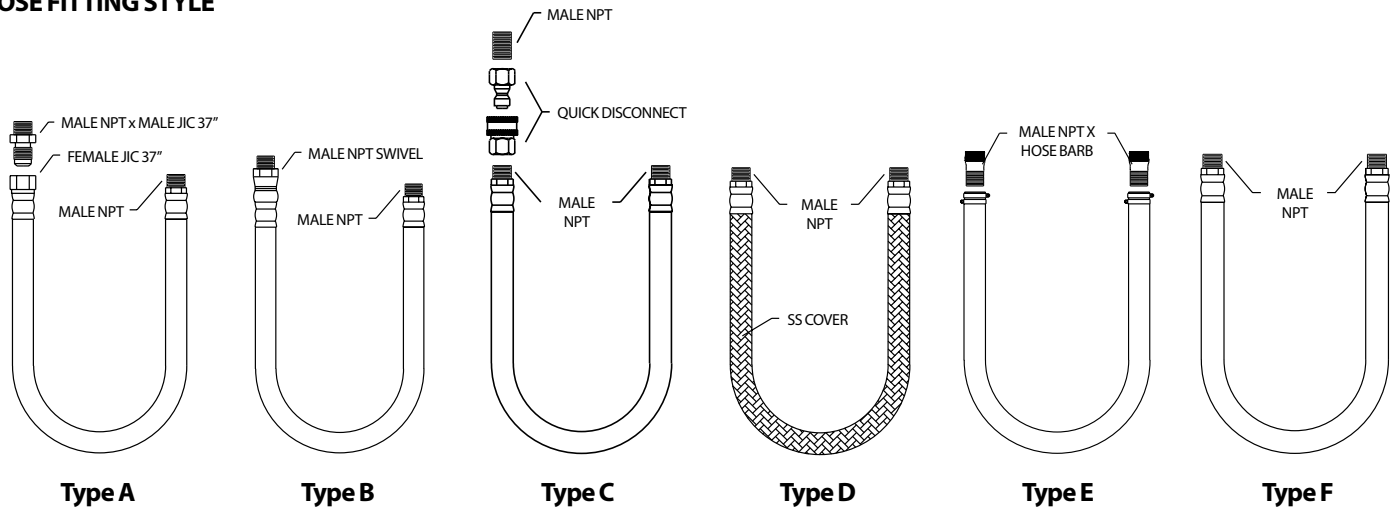
During regularly scheduled pump maintenance, check hose for cracks or worn surfaces and replace as needed. Check all connections for air leaks.

HOSE FRICTION LOSS

Water Flow gpm	Pressure Drop in PSI per 100 ft of Hose with typical water flow rates Hose Inside Diameters						
	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
2	180	60	25	6	2		
3	380	120	50	13	4	2	
4		220	90	24	7	3	
5		320	130	34	10	4	
7			265	70	22	10	2
10			450	120	38	14	3
15			900	250	80	30	7
20			1600	400	121	50	12
25				650	200	76	19
30					250	96	24
40					410	162	42
50					600	235	62
60						370	93

*At a fixed flow rate with a given size hose, the pressure drop across a given hose length will be directly proportional. A 50 ft. hose will exhibit one-half the pressure drop of a 100 ft. hose. Above values shown are valid at all pressure levels.

HOSE FITTING STYLE



⚠ WARNING

Severe injury can occur with high pressure spray. Do not allow spray to contact any part of body.

⚠ CAUTIONS AND WARNINGS

All High Pressure Systems require a primary pressure regulating device (i.e. regulator, unloader) and a secondary pressure relief device (i.e. pop-off valve, relief valve). Failure to install such relief devices could result in personal injury or damage to pump or property. Cat Pumps does not assume any liability or responsibility for the operation of a customer's high pressure system.

Read all CAUTIONS and WARNINGS before commencing service or operation of any high pressure system. The CAUTIONS and WARNINGS are included in each service manual and with each Accessory Data sheet. CAUTIONS and WARNINGS can also be viewed online at www.catpumps.com/cautions-warnings or can be requested directly from Cat Pumps.

WARRANTY

View the Limited Warranty on-line at www.catpumps.com/warranty.



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