

DATA SHEET

INDUSTRIAL HOSES



Flexible Discharge Hose Models: 34350 – 994325



34350

SELECTION

Always select a hose to meet or exceed the pressure requirements of the system. These hoses are intended for connecting the discharge line to the system. Review the operating flow and pressure of the system before selecting the proper hose. The discharge hose size can equal the pump's discharge port size and may be less dependent on the flow and friction loss (see Hose Friction Loss Chart).

FEATURES

- Tighter bend radius allows for a smaller packaged unit when compared to a standard R hose.
- Hoses are reinforced with a wire or steel braid to increase strength and durability.
- Hose cover is resistant to heat, cleaning chemical and typical wear, increasing hose life and providing a greater return on investment.
- Compact, simple design permits versatile, easy installation and requires minimal maintenance.

30 Feet High-Pressure Hose

Fitting Size	Fitting Type	Fitting Material	Hose ID	Maximum PSI	Hose Material	Hose Reinforcement	Part Number
3/8"	B	STL	1/4"	3000	RBR	Single Wire Braid	997041
3/8"	B	STL	3/8"	3000	RBR	Single Wire Braid	34350

50 Feet High-Pressure Hose

Fitting Size	Fitting Type	Fitting Material	Hose ID	Maximum PSI	Hose Material	Hose Reinforcement	Part Number
3/8"	B	STL	3/8"	3000	RBR	Single Wire Braid	34355
3/8"	B	STL	3/8"	4000	RBR	Double Wire Braid	34325*
1/2"	B	STL	1/2"	3000	RBR	Single Wire Braid	34356
1/2"	F	SS	1/2"	5000	Copolyester	Double Wire Braid	34561
1/2"	F	STL	1/2"	10000	RBR	Four Steel Spiral	34357
3/4"	B	STL	3/4"	3000	RBR	Double Wire Braid	34354
1"	A	STL	1"	3000	RBR	Double Wire Braid	34358

100 Feet High-Pressure Hose

Fitting Size	Fitting Type	Fitting Material	Hose ID	Maximum PSI	Hose Material	Hose Reinforcement	Part Number
3/8"	B	STL	3/8"	4000	RBR	Double Wire Braid	994325*

Material Codes: RBR= Synthetic Rubber SS=316 Stainless Steel STL=Steel

Safety factor is 4 to 1 for all hoses except for 34357 which is 2.5 to 1

*Hose has non-marking blue cover

INSTALLATION

After selecting the correct size and pressure-rated hose, review the Hose Fitting Style Chart below for the proper fittings. Install the discharge hose to the pump's discharge port or primary regulating device. Use appropriate thread sealant for the fitting material and operating pressure.

OPERATION

Check to ensure that the hose connections are tight and not leaking to ensure optimum performance.

MAINTENANCE

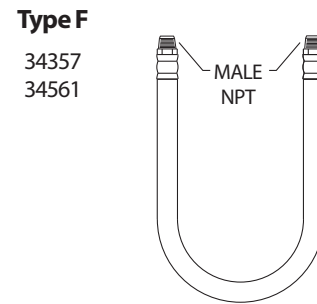
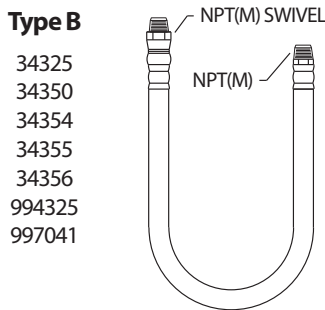
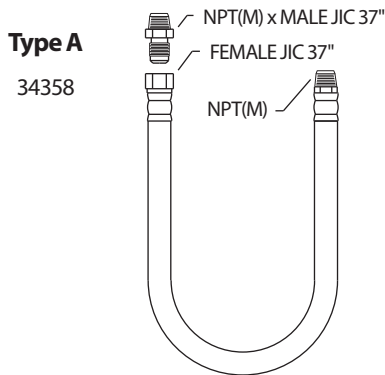
During regularly scheduled pump maintenance, check the hose for cracks or worn surfaces and replace it as needed. Check all connections for water leaks.

HOSE FRICTION LOSS

Water Flow (GPM)	Pressure Drop per 100 ft of Hose (PSI) Hose Inside Diameters, inches						
	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
0.5	16	5	2				
1	54	20	7	2			
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	
6			220	52	16	7	1
8			300	80	25	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

Note: The pressure drop will be directly proportional to the hose length with a fixed flow rate. Example: The pressure drop across a 50 ft hose will equal approximately one-half the pressure drop the same diameter of a 100 ft hose.

HOSE FITTING STYLE



⚠ CAUTION

IMPROPER USE OF FITTINGS HAZARD

Do not operate the pump with improperly-connected, sized, worn or loose fittings, pipes or hoses. Operating the pump under these conditions could result in personal injury and property damage.

1. Ensure all fittings, pipes and hoses are properly rated for the maximum pressure rating and flow of the pump.
2. Check all fittings and pipes for cracks or damaged threads.
3. Check all hoses for cuts, wear, leaks, kinks or collapse before each use.
4. Ensure all connections are tight and secure.
5. Use PTFE thread tape or pipe thread sealant (sparingly) to reconnect plumbing. Do not wrap tape beyond the last thread, this will prevent loose tape from becoming lodged in the pump or accessories.
6. Apply proper sealants to assure secure fit or easy disassembly when servicing.

⚠ CAUTIONS AND WARNINGS

All high-pressure systems require a primary pressure regulating device (e.g. regulator, unloader) and a secondary pressure relief device (e.g. 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/dynamic-literature/cautions-and-warnings or can be requested directly from Cat Pumps.

WARRANTY

View the Limited Warranty online at www.catpumps.com/literature/cat-pumps-limited-warranty