



PRESSURE DROP DATA
15K/20K/40K Hoses and Lances



Jetstream manufactures industrial high-pressure waterblasting equipment operated at pressures up to 40,000 psi for a wide range of applications, including hydro-demolition, industrial cleaning and surface preparation. Backed by strong after-sales service and support, Jetstream product offerings include a complete line of skid and trailer-mounted pump units, control guns, valves, hoses, replacement parts, nozzles, and safety gear.

Jetstream® Right Start

In order to ensure customer satisfaction, Jetstream has developed the Right Start program, a four-step plan designed to provide the owners and operators of new Jetstream waterblast units with the knowledge and support needed to feel familiar, confident and satisfied with Jetstream equipment and personnel.

1. Transportation



Once a new waterblaster is built and thoroughly tested, the Shipping Manager contacts the new owner to arrange for the unit's arrival to the right place at the right time.

2. Training



All new waterblasters include personal training by the Right Start Technician. Training involves both classroom and "hands-on" instruction to make sure that each operator is thoroughly familiar with the design and function of the unit and accessories, enabling him to safely put the new equipment to optimal use.

3. Follow-up



Within thirty days of delivery, and again within sixty days, the Solutions Provider will call to answer any questions and ensure complete satisfaction.

4. Trust



If any questions or problems ever arise, the Jetstream team is available and committed to providing prompt answers and solutions.

PRESSURE DROP DATA

HOSES &
LANCES

PRESSURE DROP DATA

The charts on this page and the next are used to approximate how much pressure will be lost through a particular hose or lance at a given flow rate. Because of frictional forces, the water exiting a hose or lance could be at a significantly lower pressure than at entry. In some cases, especially when using smaller hoses and lances, the flow rate that can be used is determined by pressure drop through a lance rather than the pump's maximum output.

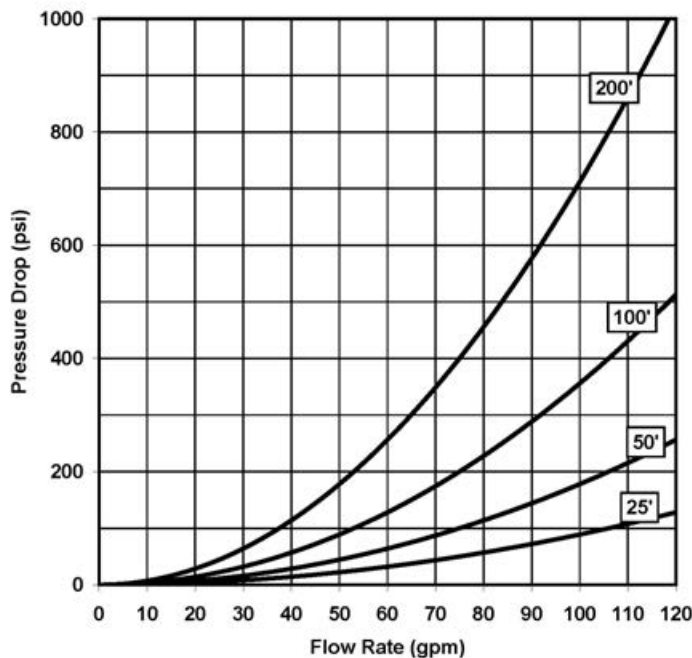
PRESSURE DROP & NOZZLE SIZING

Pressure drop is especially important to understand when sizing nozzles. Use the following procedure for correct nozzle sizing:

1. Determine the pressure needed for a particular cleaning operation and subtract that amount from the desired pump operating pressure. The result is the permissible pressure drop.
2. Consult pressure drop chart for the hose to be used to determine what flow rate will result in the permissible pressure drop.
- 3a. If this flow rate exceeds the maximum flow of the pump, use the chart to find the pressure drop at the maximum pump flow and subtract that amount from the desired pump operating pressure to get the pressure at the nozzle. Then use the flow charts provided for the desired nozzle to select a nozzle, or nozzles, matching the desired flow and pressure.
- 3b. If this flow rate is within the capability of the pump, use the flow charts provided for the desired nozzle to select a nozzle, or nozzles, matching the desired flow and pressure.

NOTE: Doubling the length of a hose or lance will result in approximately twice the pressure drop at the same flow rate.

1" RUBBER WATERBLAST HOSE
Series 53235



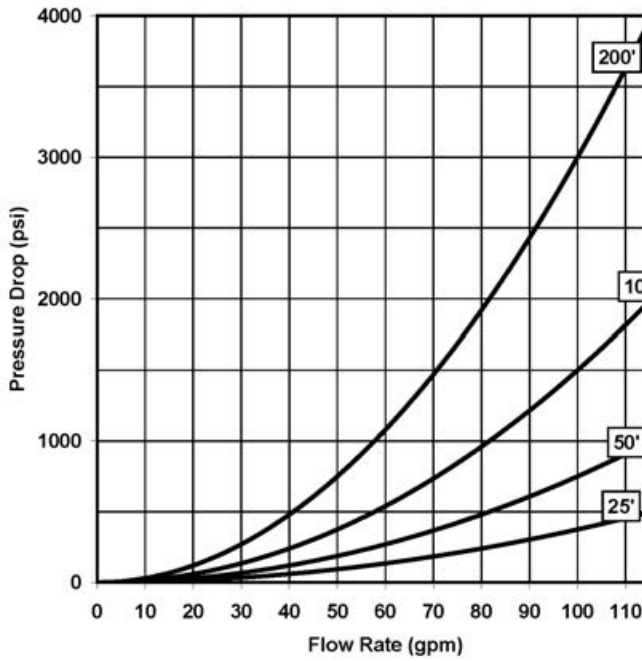
HOSES & LANCES

15,000 PSI (1,034 BAR)

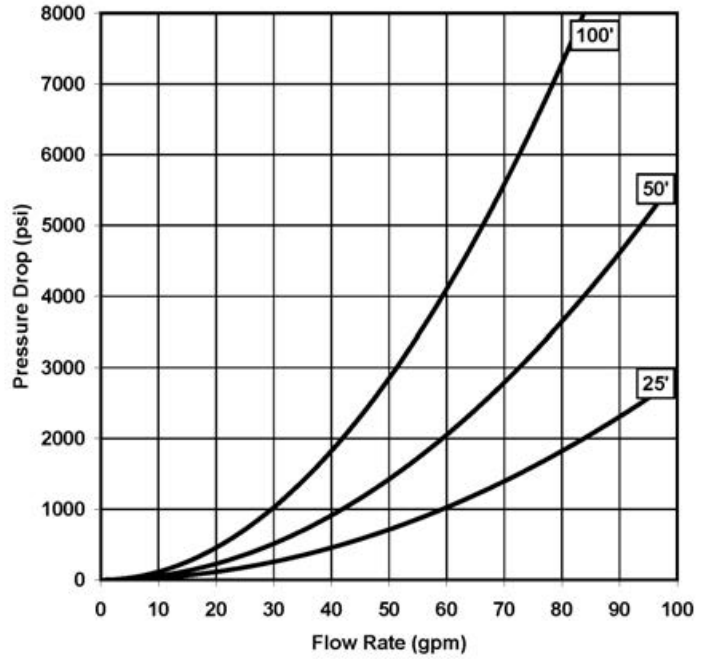


PRESSURE DROP DATA RUBBER WATERBLAST HOSES

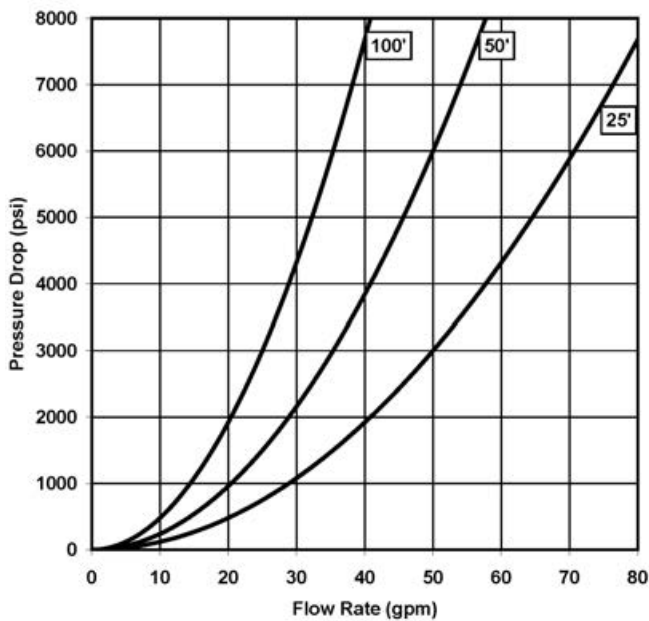
3/4" RUBBER WATERBLAST HOSE
Series 51118



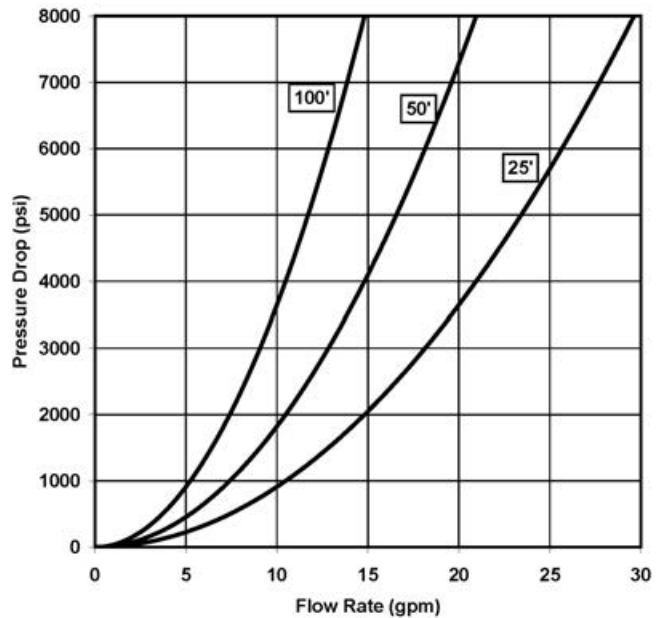
1/2" RUBBER WATERBLAST HOSE
Series 25513 & 52241



3/8" RUBBER WATERBLAST HOSE
SERIES 25576 & 52178



1/4" RUBBER WATERBLAST HOSE
SERIES 25914



HOSES & LANCES

HOSES & LANCES

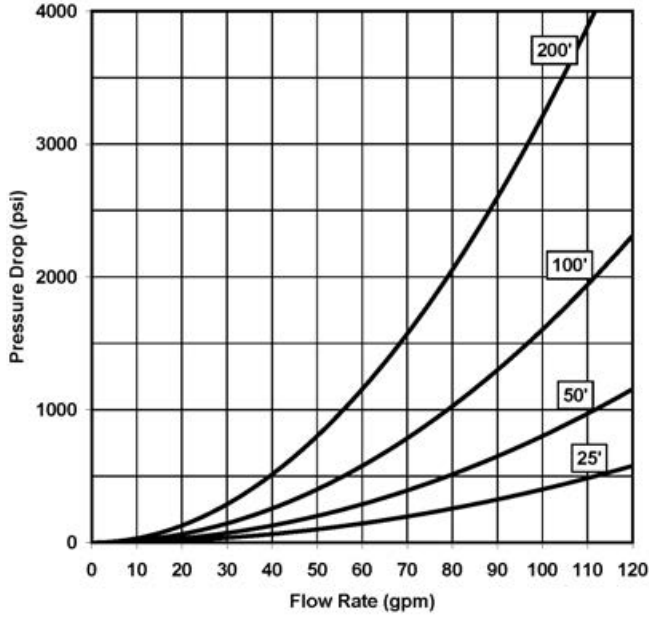
15,000 PSI (1,034 BAR)



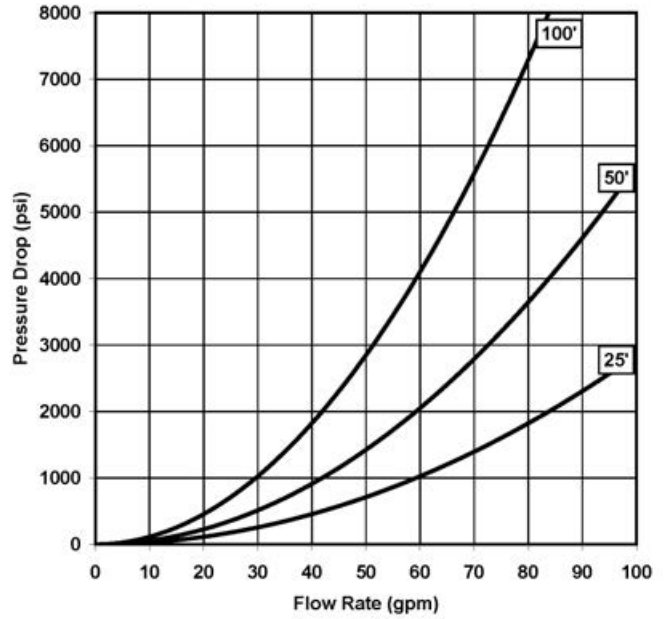
PRESSURE DROP DATA THERMOPLASTIC HOSES & FLEX LANCES

HOSES & LANCES

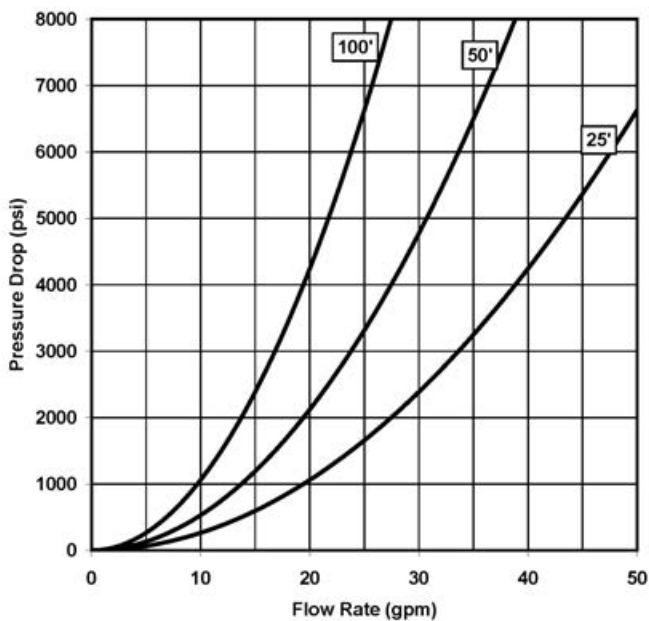
3/4" (20 MM) THERMOPLASTIC HOSE & FLEX LANCE – SERIES 29313



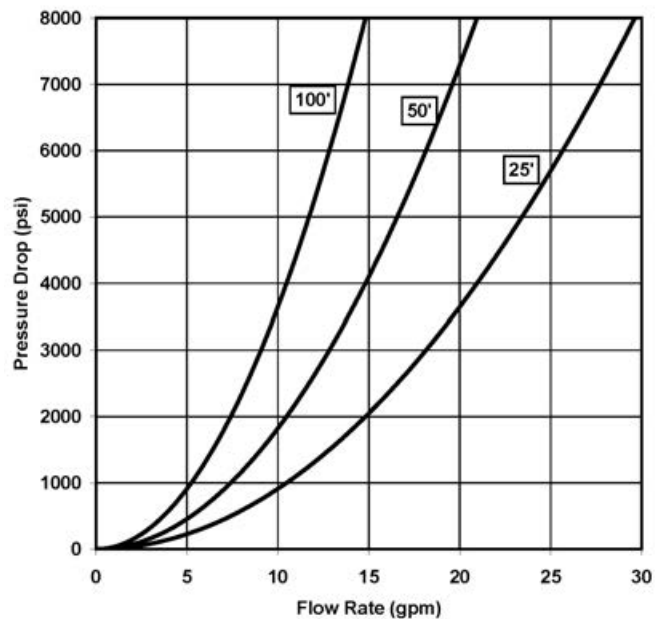
1/2" (13 MM) THERMOPLASTIC HOSE & FLEX LANCE – SERIES 28481 & 28524



5/16" (8 MM) THERMOPLASTIC HOSE & FLEX LANCE – SERIES 27560 & 28673



1/4" (6 MM) THERMOPLASTIC HOSE & FLEX LANCE – SERIES 26108 & 28490



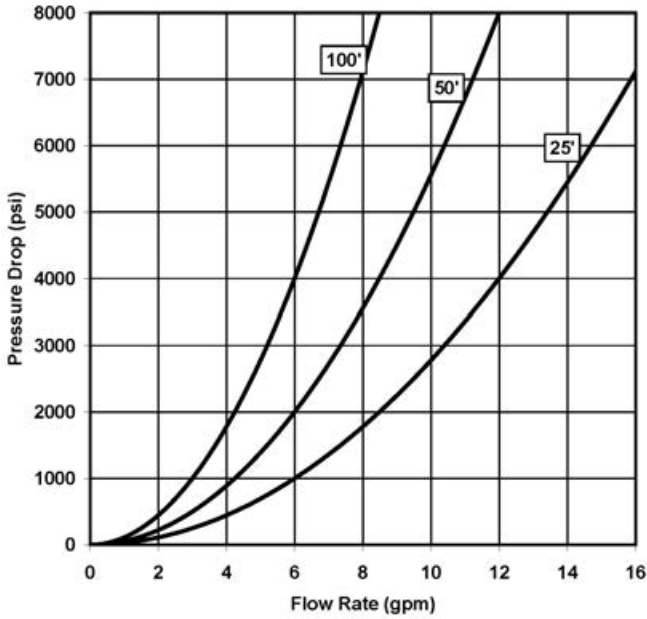
HOSES & LANCES

15,000 PSI (1,034 BAR)

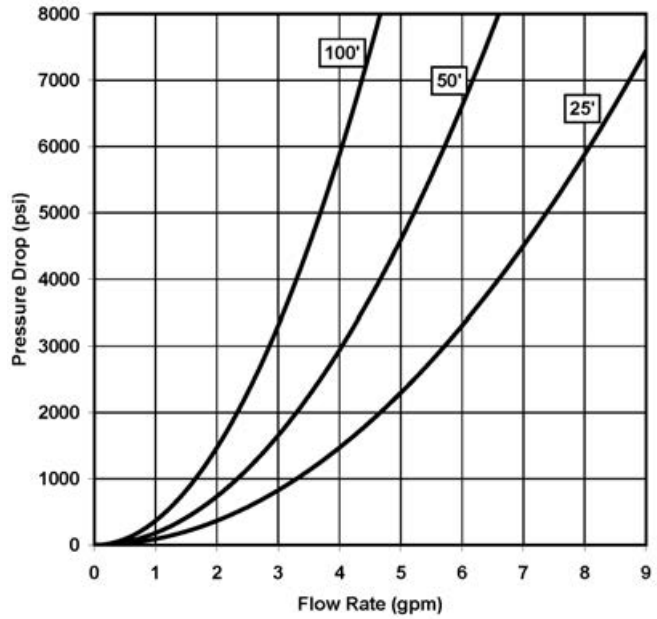


PRESSURE DROP DATA THERMOPLASTIC HOSES & FLEX LANCES

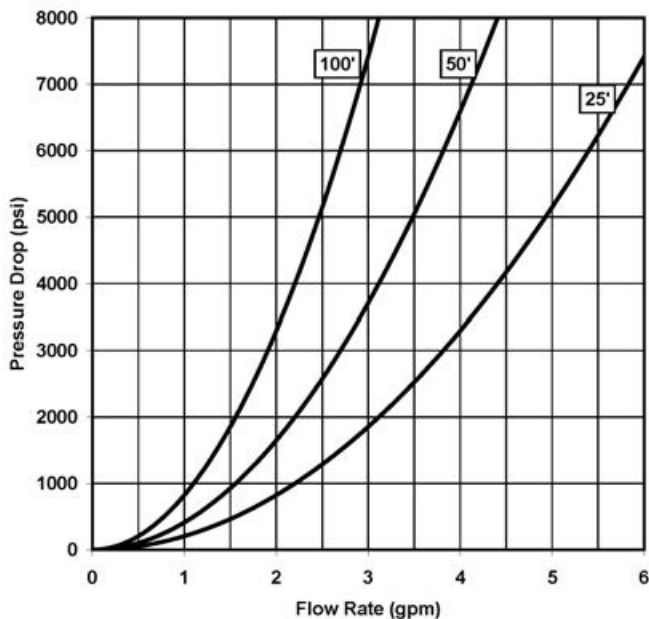
**3/16" (5 MM) THERMOPLASTIC HOSE
& FLEX LANCE – SERIES 26106**



**5/32" (4 MM) THERMOPLASTIC HOSE
& FLEX LANCE – SERIES 26104**



**1/8" (3 MM) THERMOPLASTIC HOSE
& FLEX LANCE – SERIES 28596**



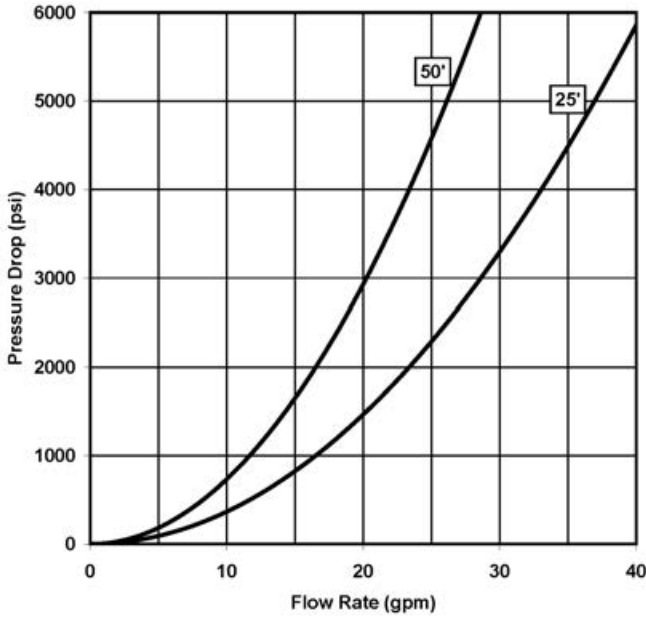
HOSES & LANCES

PRESSURE DROP DATA

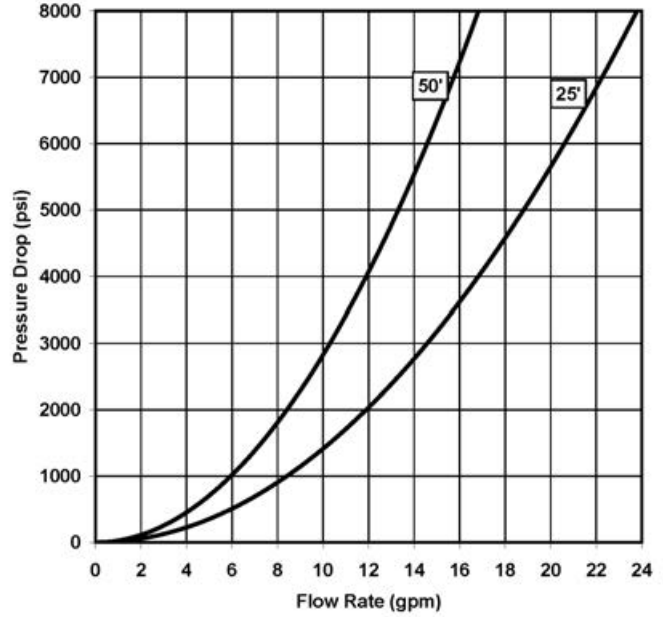
STAINLESS STEEL BRAIDED FLEX LANCES

HOSES & LANCES

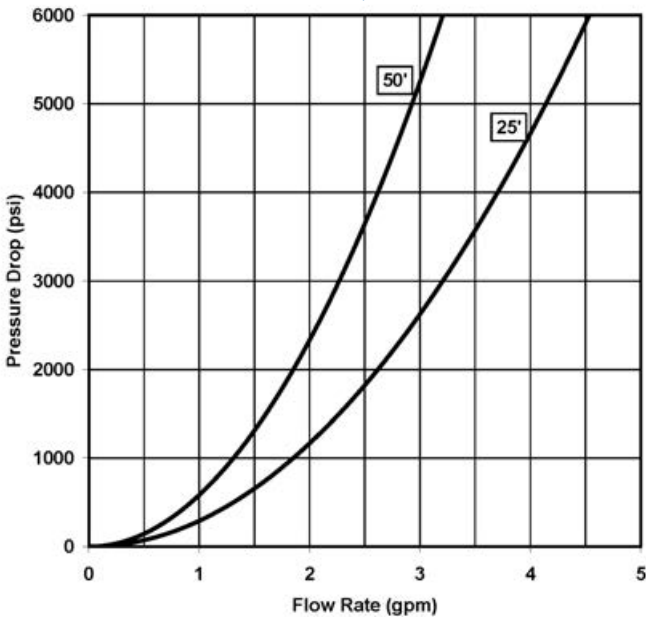
5/16" STAINLESS STEEL BRAIDED FLEX LANCE – SERIES 25571



1/4" STAINLESS STEEL BRAIDED FLEX LANCE SERIES 25568, 25570, 50673 & 50752

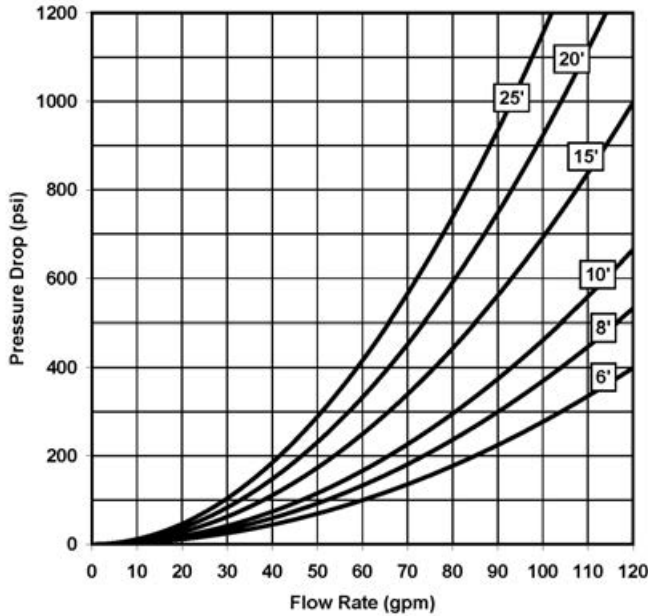


3/16" STAINLESS STEEL BRAIDED FLEX LANCE SERIES 50559, 51162 & 51498

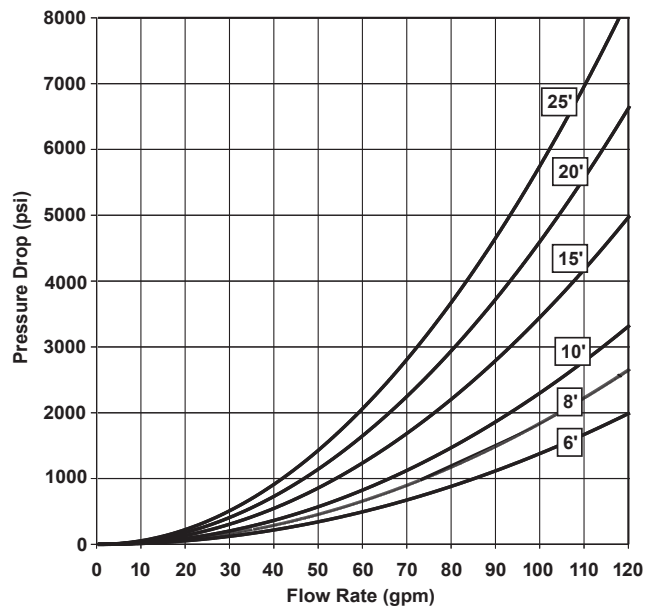


PRESSURE DROP DATA
RIGID LANCES

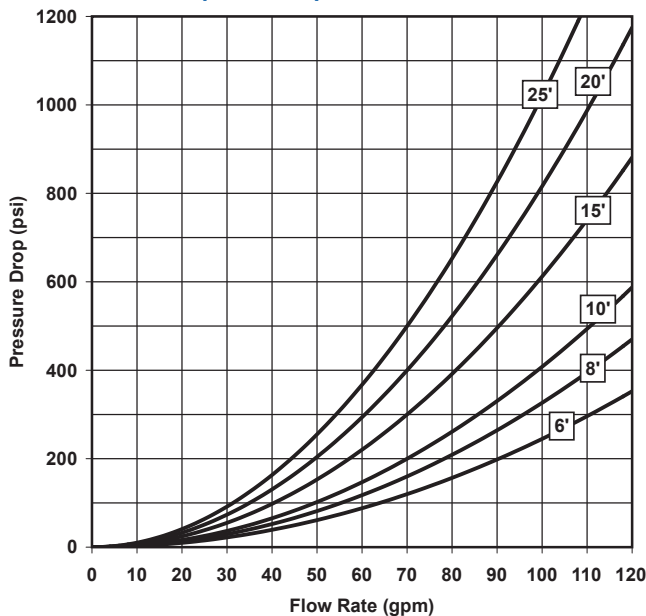
**RIGID LANCES – 1" PIPE
 SERIES 54299**



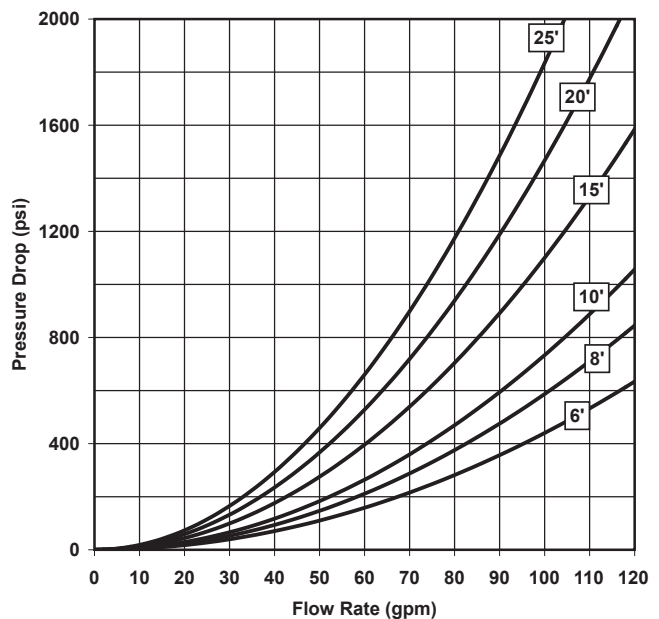
**RIGID LANCES – 3/4" PIPE 15,000 PSI
 (1034 BAR) – SERIES 56692**



**RIGID LANCES – 3/4" PIPE 10,000 PSI
 (689 BAR) – SERIES 53731**



**RIGID LANCES – 1/2" PIPE
 SERIES 51069 & 51082**



HOSES & LANCES

HOSES & LANCES

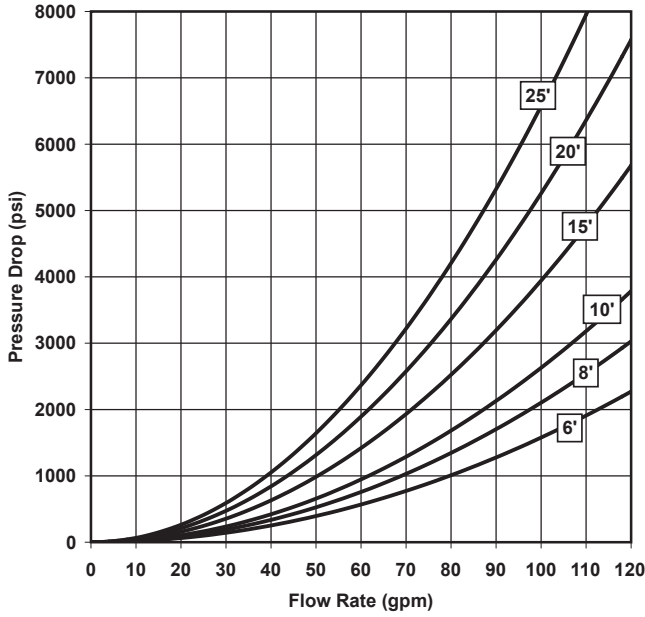
15,000 PSI (1,034 BAR)



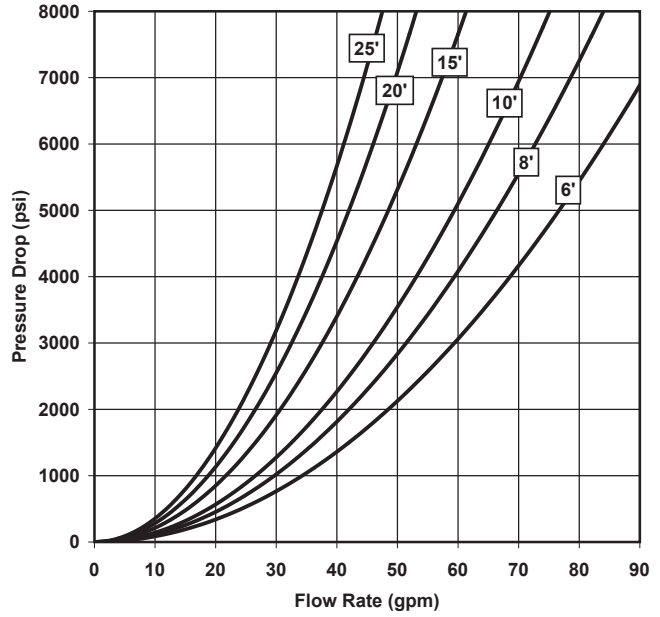
PRESSURE DROP DATA RIGID LANCES

HOSES &
LANCES

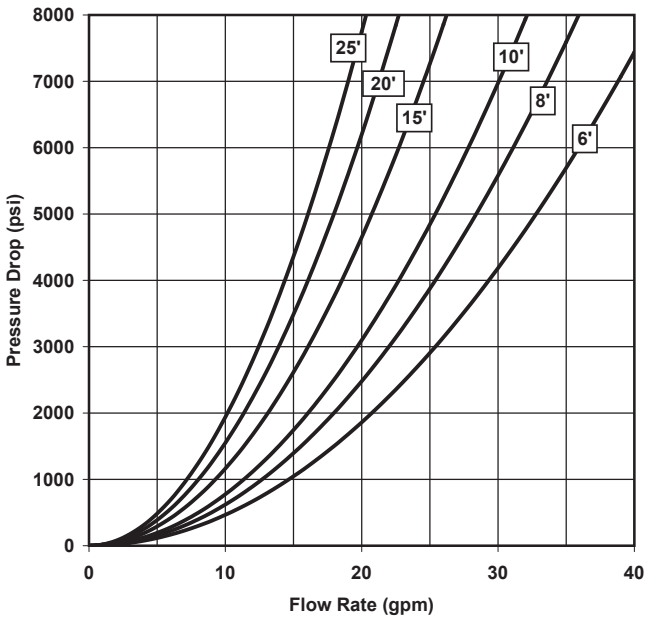
RIGID LANCES – 3/8" PIPE SERIES 50596 & 51068



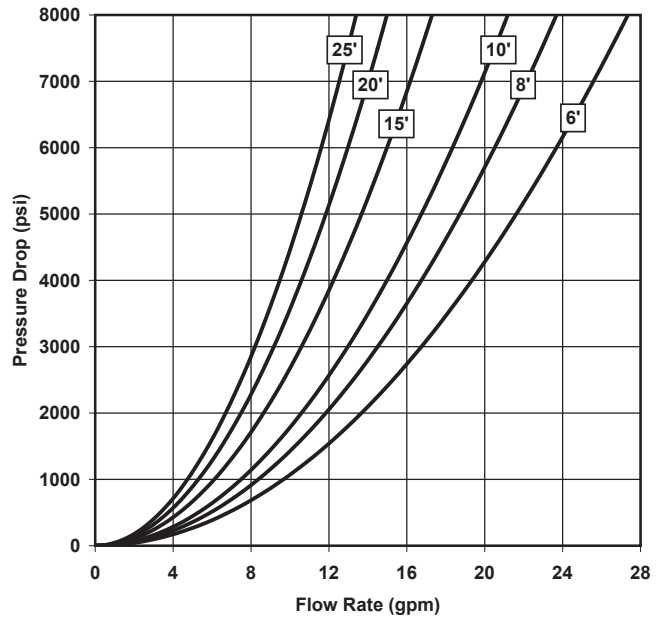
RIGID LANCES – 1/4" PIPE SERIES 50594 & 51067



RIGID LANCES – 1/8" PIPE SERIES 50592, 51066 & 54411



RIGID LANCES – 1/16" PIPE SERIES 51061 & 51081



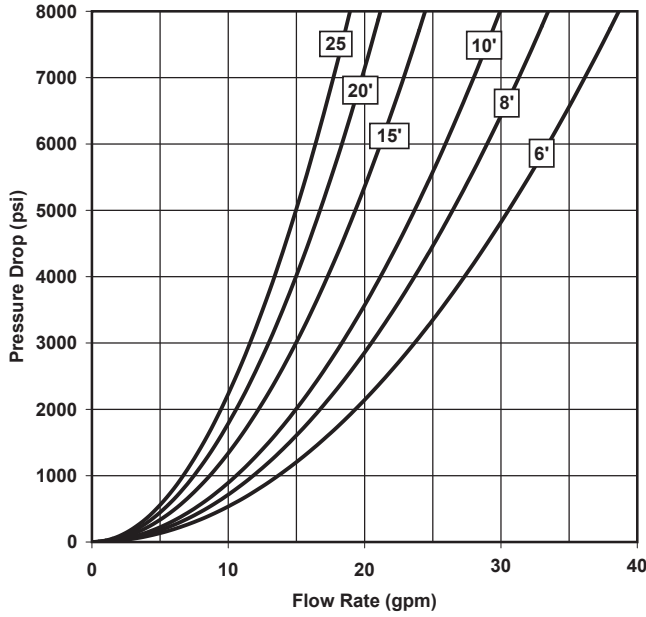
HOSES & LANCES

15,000 PSI (1,034 BAR)

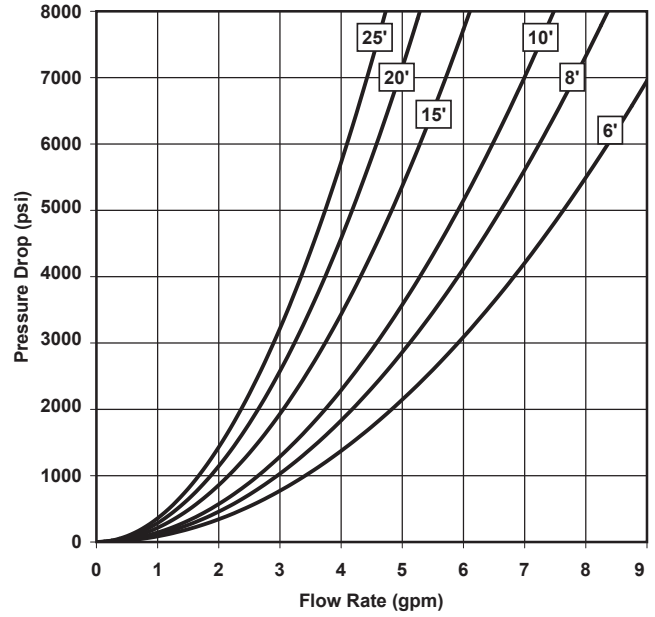


PRESSURE DROP DATA RIGID LANCES

RIGID LANCES – 3/8" O.D. MECHANICAL TUBING – SERIES 51062



RIGID LANCES – 1/4" O.D. MECHANICAL TUBING – SERIES 51059



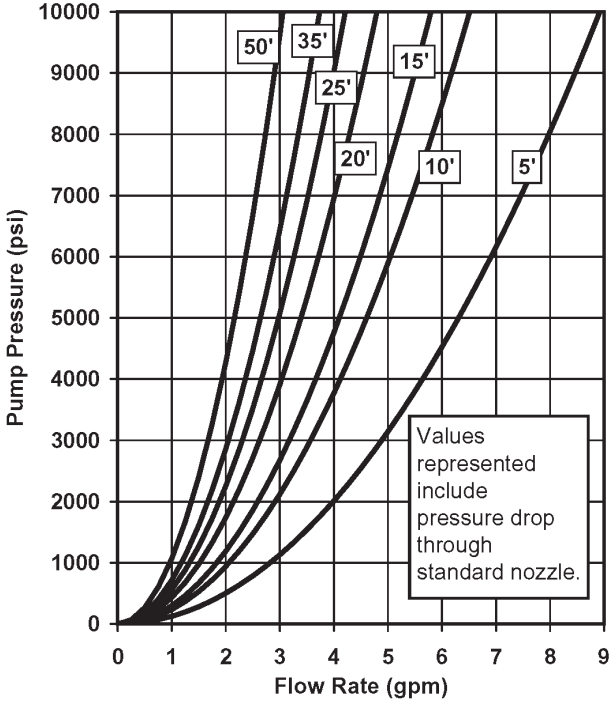
HOSES & LANCES

FLOW DATA

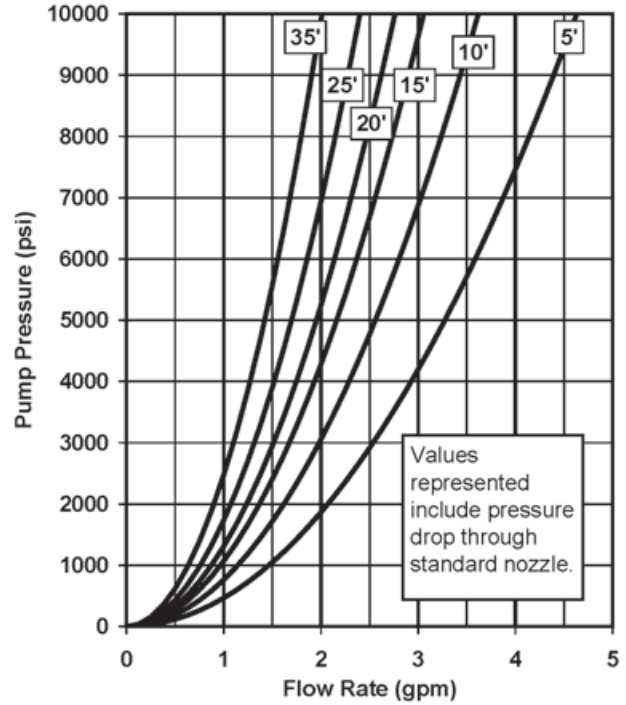
STEEFLEX™ LANCES

HOSES & LANCES

**.170" O.D. STEEFLEX LANCE
SERIES 51015**



**.140" O.D. STEEFLEX LANCE
SERIES 51020**



NOTE: These charts represent flow rates at specified pressure, not pressure drop.

PRESSURE DROP DATA

HOSES AND LANCES

20,000 PSI (1,379 BAR)



PRESSURE DROP DATA

The charts shown are used to approximate how much pressure will be lost through a particular hose or lance at a given flow rate. Because of frictional forces, the water exiting a hose or lance could be at a significantly lower pressure than at entry. In some cases, especially when using smaller hoses and lances such as Series 51952 & 51953, the flow rate that can be used is determined by pressure drop through a lance rather than the pump's maximum output.

PRESSURE DROP & NOZZLE SIZING

Pressure drop is especially important to understand when sizing nozzles. Use the following procedure for correct nozzle sizing:

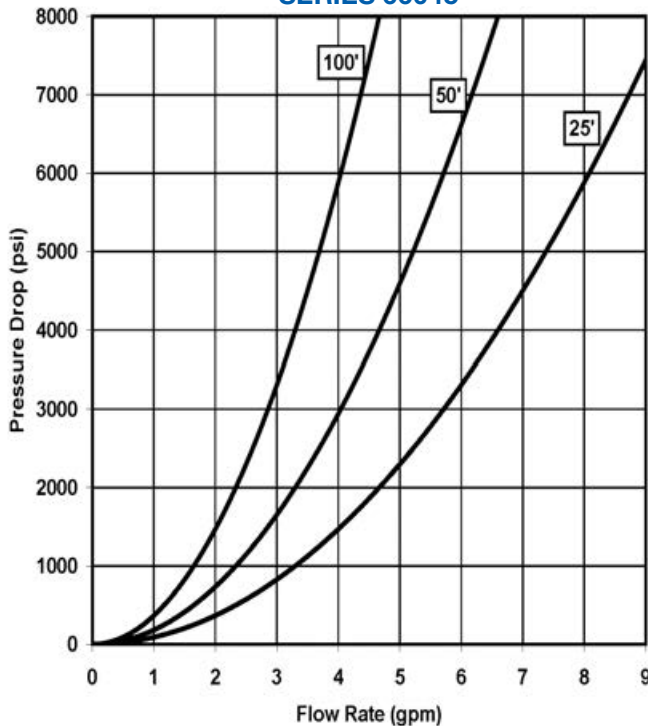
1. Determine the pressure needed for a particular cleaning operation and subtract that amount from the desired pump operating pressure. The result is the desired pressure drop.
2. Consult pressure drop chart for the hose to be used to determine what flow rate will result in the intended pressure drop.
- 3a. If this flow rate exceeds the maximum flow of the pump, use the chart to find the pressure drop at the maximum pump flow and subtract that amount from the desired pump operating pressure to get the pressure at the nozzle. Then use the flow charts provided for the desired nozzle to select a nozzle, or nozzles, matching the desired flow and pressure.
- 3b. If this flow rate is within the capability of the pump, use the flow charts provided for the desired nozzle to select a nozzle, or nozzles, matching the desired flow and pressure.

NOTE: Doubling the length of a hose or lance will result in approximately twice the pressure drop at the same flow rate.

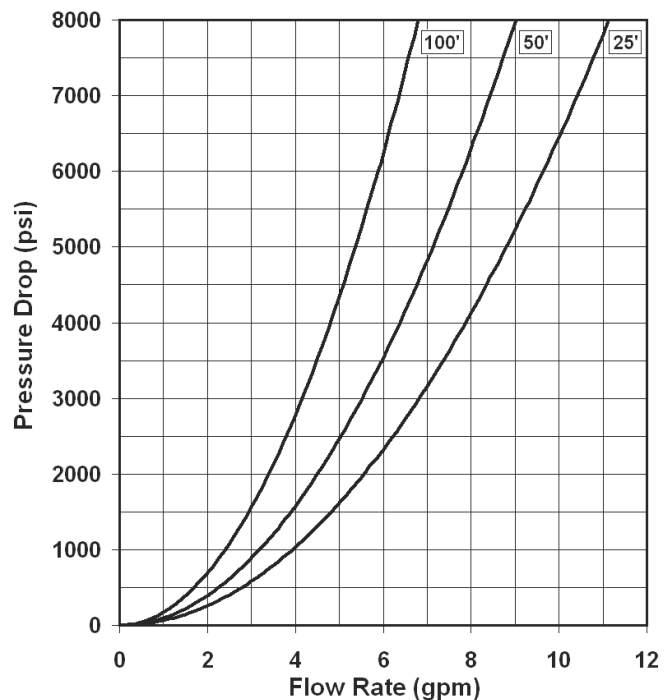
HOSES & LANCES

HOSES & FLEX LANCES

5/32" THERMOPLASTIC HOSE & LANCE
SERIES 66045



5/32" THERMOPLASTIC HOSE & LANCE
SERIES 51952



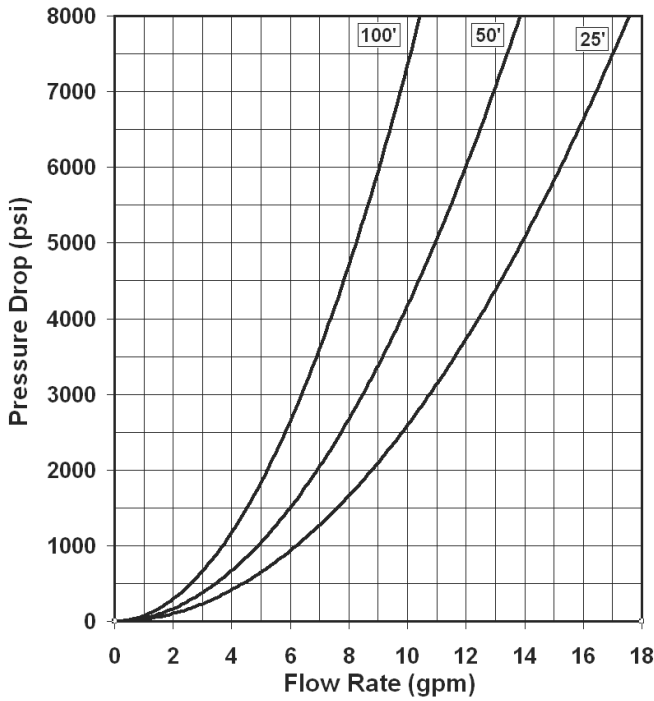
HOSES AND LANCES

20,000 PSI (1,379 BAR)

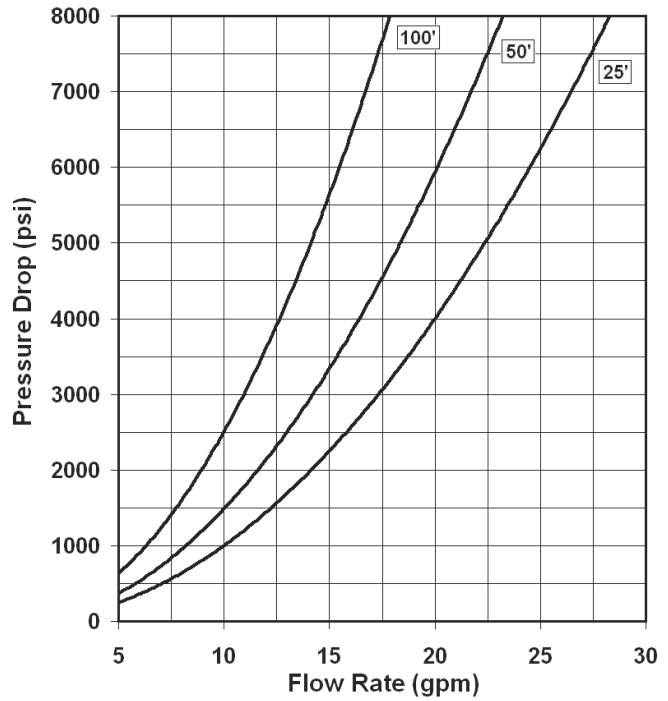


PRESSURE DROP DATA HOSES & FLEX LANCES

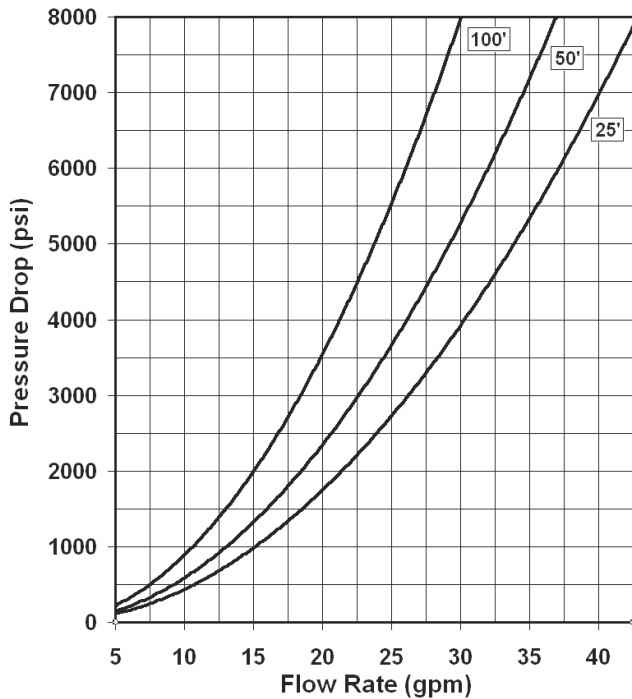
**3/16" THERMOPLASTIC HOSE & LANCE
SERIES 51953**



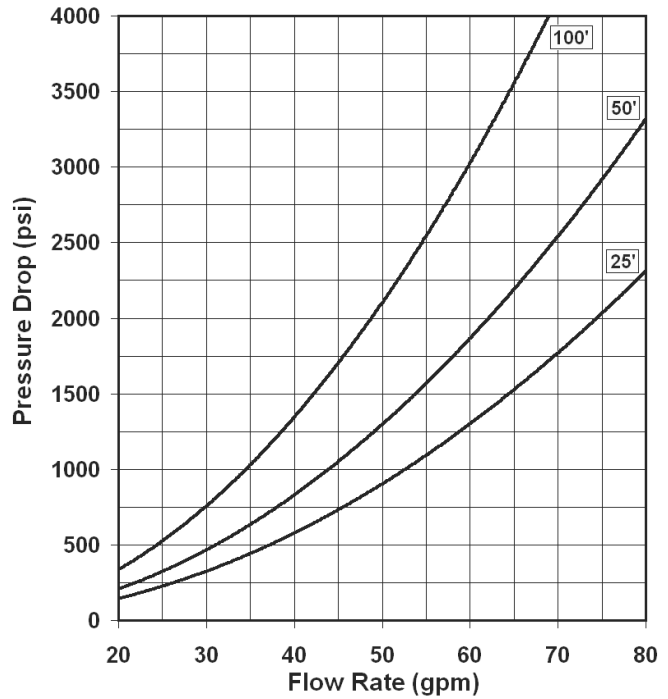
**1/4" THERMOPLASTIC HOSE & LANCE
SERIES 51954**



**5/16" THERMOPLASTIC HOSE & LANCE
SERIES 53816**



**1/2" THERMOPLASTIC HOSE
SERIES 28347 & 70941**



HOSES & LANCES

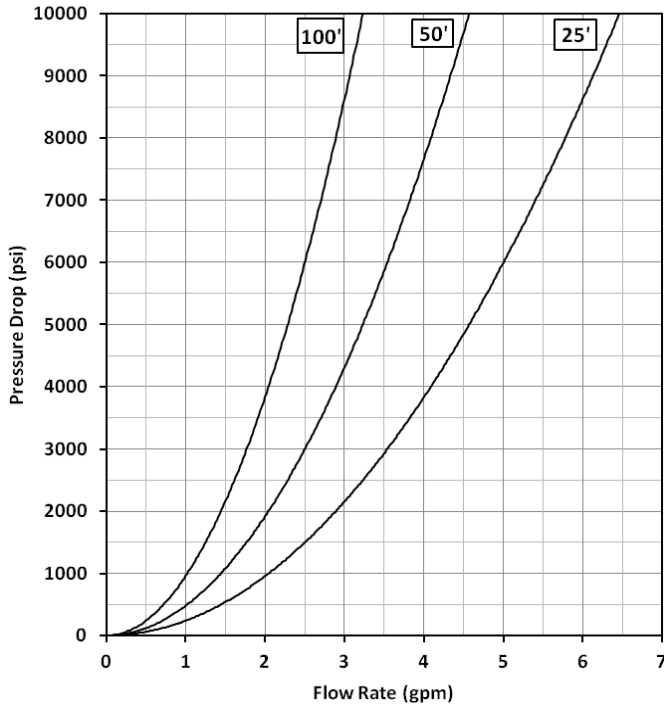
HOSES AND LANCES

20,000 PSI (1,379 BAR)

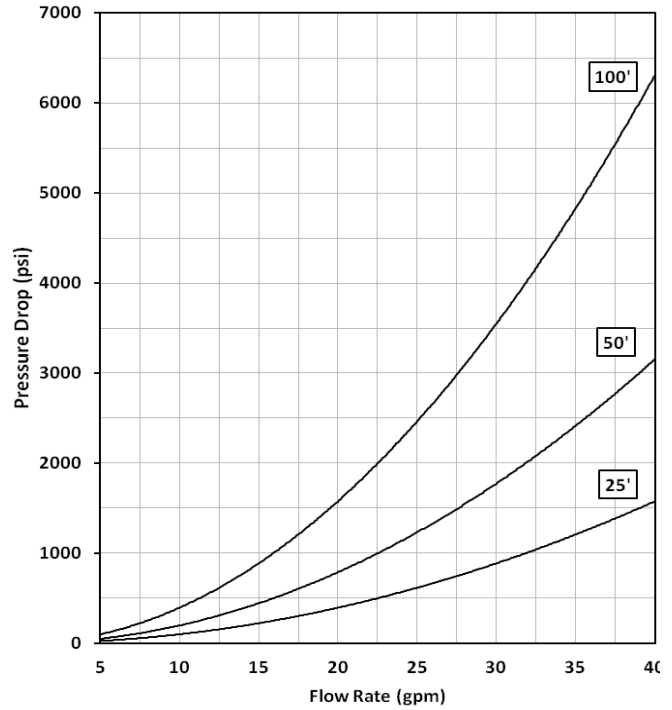


PRESSURE DROP DATA HOSES & FLEX LANCES

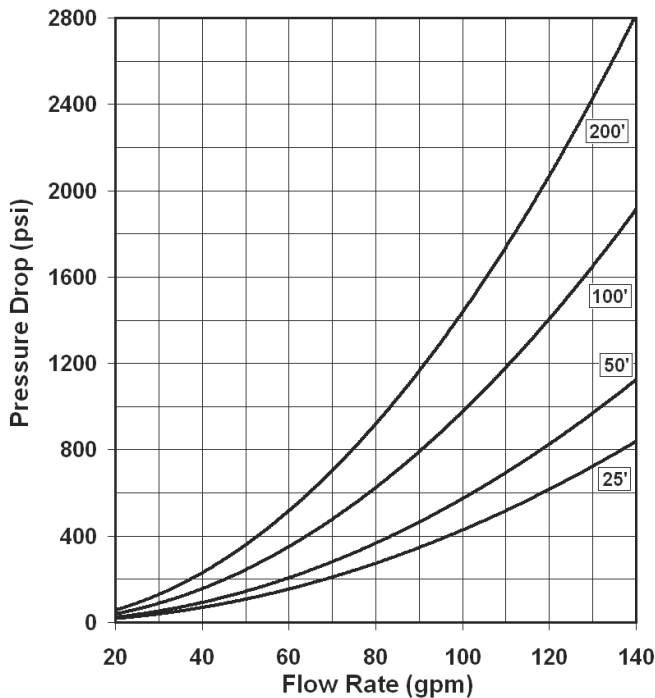
**9/16" THERMOPLASTIC LANCE
SERIES 28699**



**3/4" THERMOPLASTIC HOSE & LANCE
SERIES 28690**



**3/4" THERMOPLASTIC HOSE
SERIES 29120**



HOSES & LANCES

HOSES AND LANCES

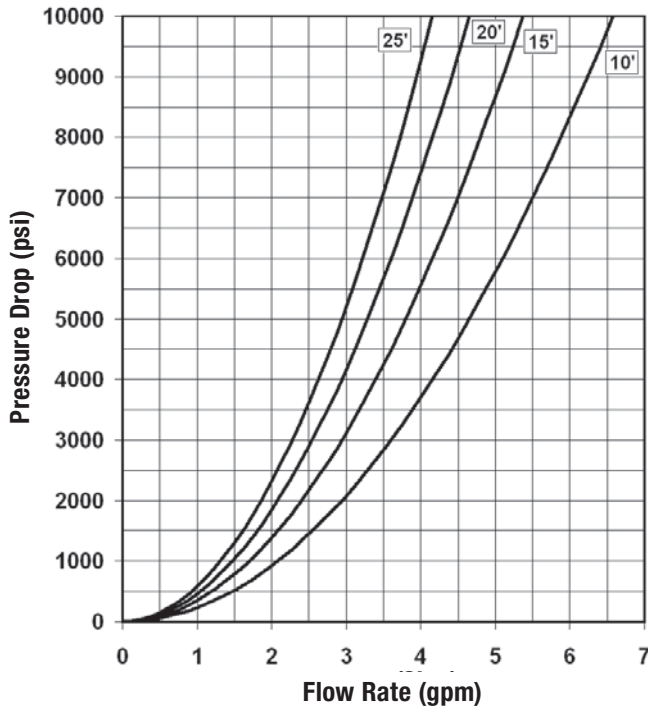
20,000 PSI (1,379 BAR)



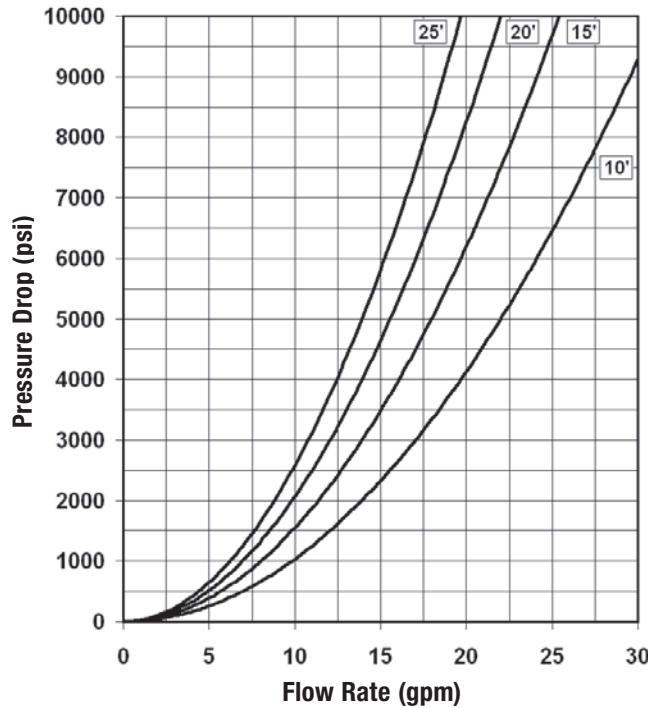
PRESSURE DROP DATA

RIGID LANCES

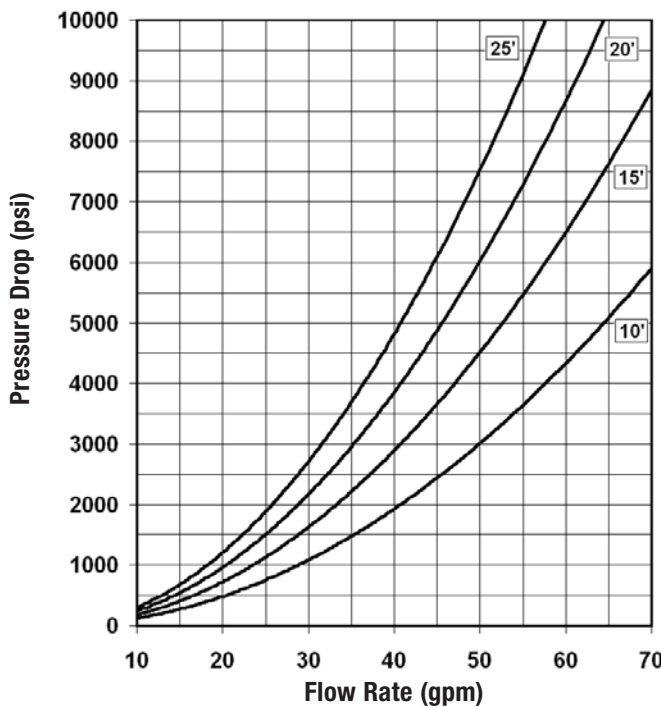
RIGID LANCES – 1/4" PIPE
SERIES 5438X, 5479X, 51933



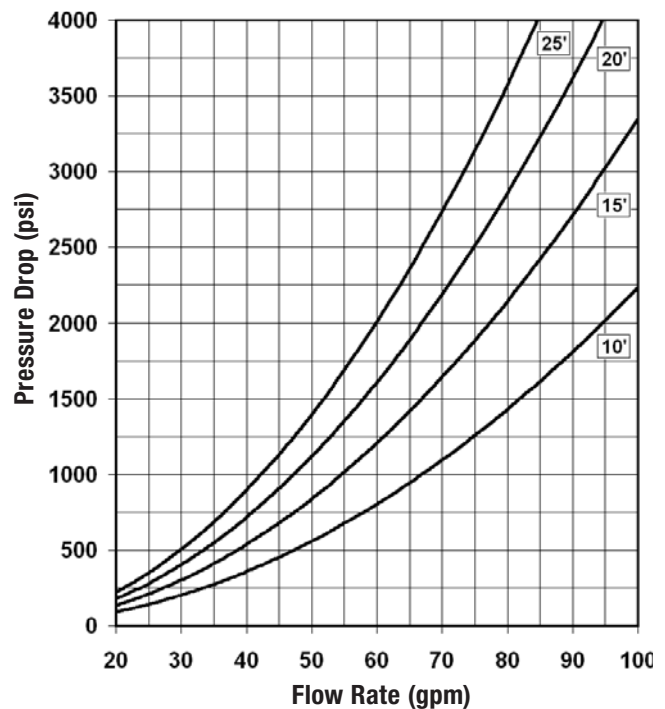
RIGID LANCES – 3/8" PIPE
SERIES 54222, 54387, 5479X, 51934



RIGID LANCES – 9/16" PIPE
SERIES 54233, 54388, 5480X & 51936



RIGID LANCES – 3/4" PIPE
SERIES 5473X



HOSES & LANCES

HOSES AND LANCES
20,000 PSI (1,379 BAR)



HOSES &
LANCES

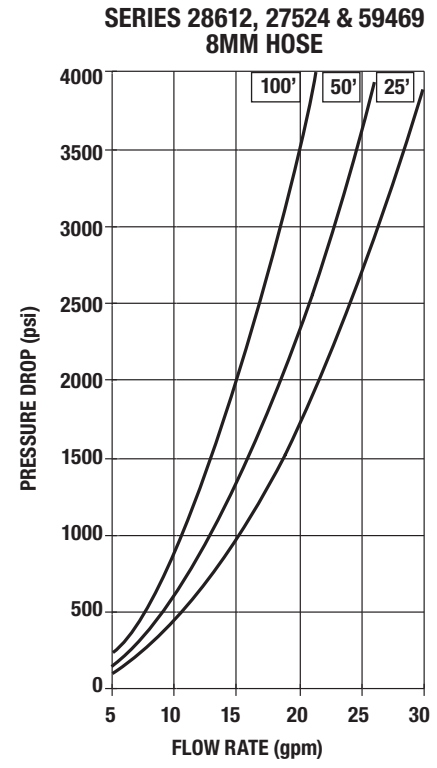
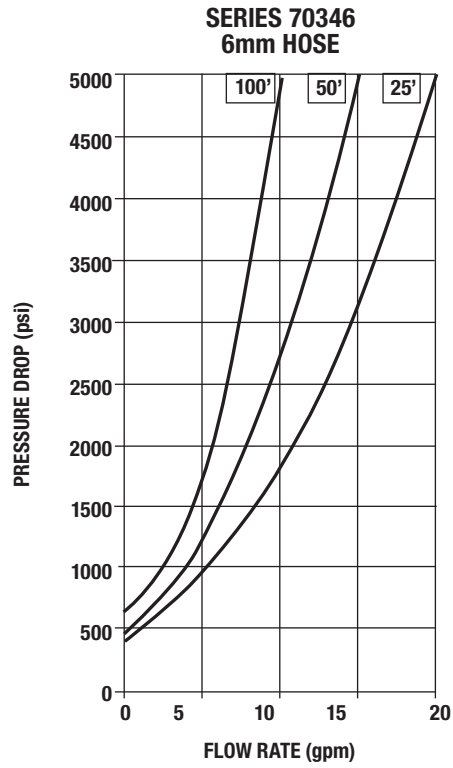
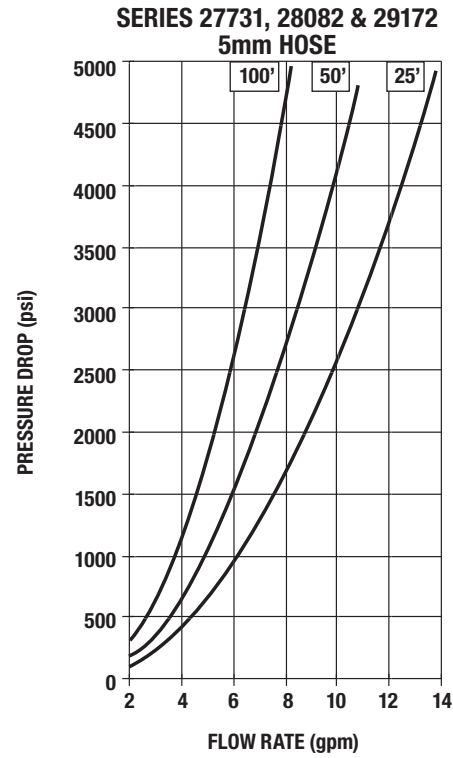
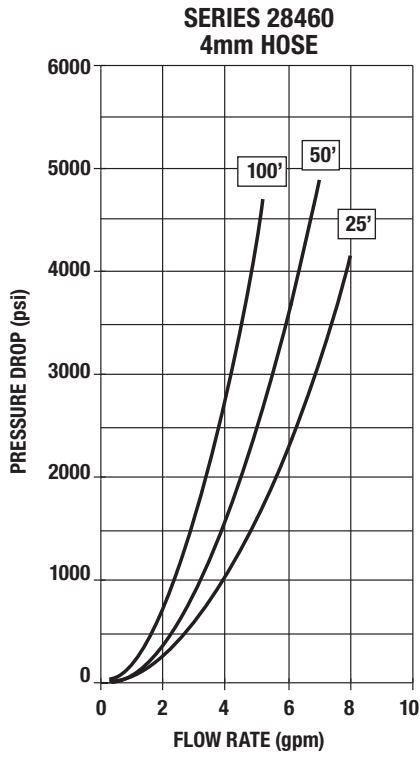
PRESSURE DROP DATA

HOSES & LANCES

40,000 PSI (2,758 BAR)



HOSE & FLEX LANCE PRESSURE DROP DATA



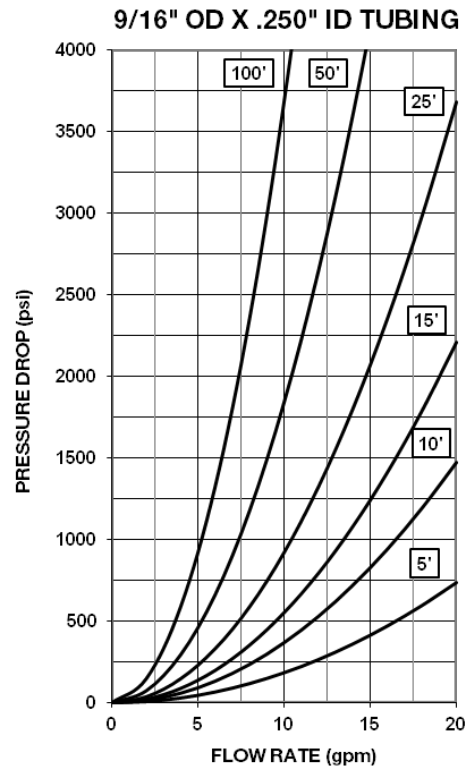
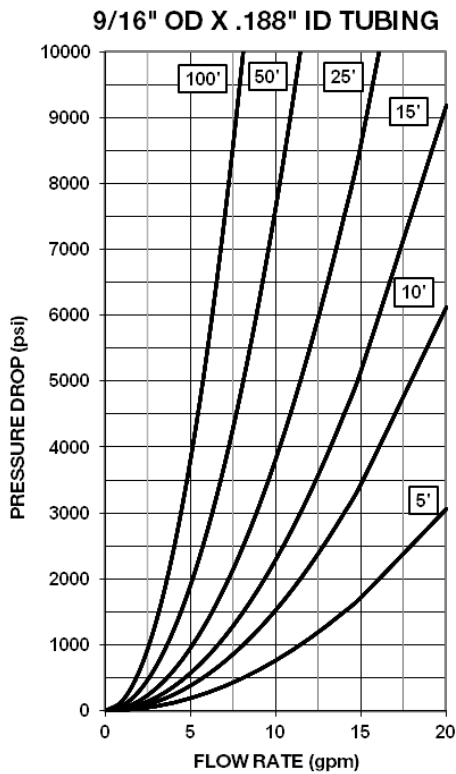
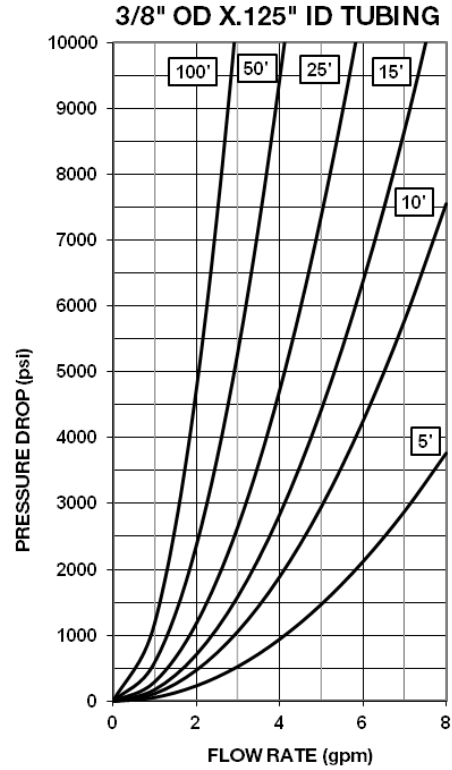
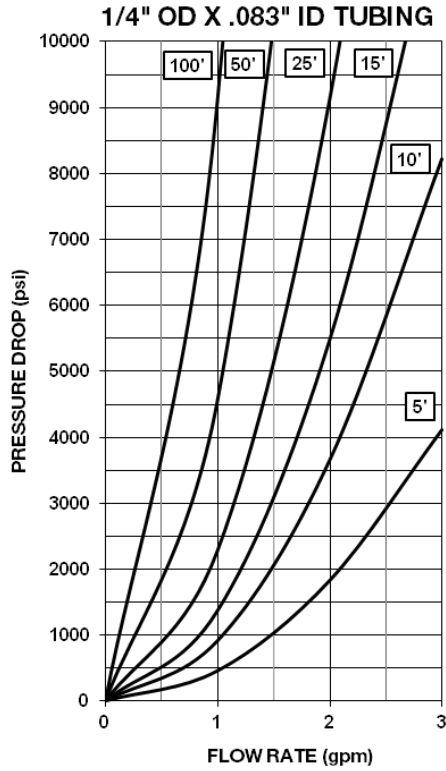
HOSES & LANCES

HOSES & LANCES

40,000 PSI (2,758 BAR)



RIGID LANCE PRESSURE DROP DATA



HOSES & LANCES





Streator, IL
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Toledo, OH
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(803) 996-0741

Leeds, AL
(800) 822-8785

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(701) 572-7421

La Porte, TX
(281) 674-8668

Gonzales, LA
(225) 647-0660

Midland, TX
(432) 563-4450

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Long Beach, CA
(866) 515-9891

Lakewood, WA
(253) 584-0653

Jetstream has the most comprehensive products, service, rental, and training in the industry. Whether you are looking to purchase or rent water blasting equipment, or if you need service and support for your existing equipment, we've got you covered with the most experienced and customer-focused team in the industry.

In the United States, our products are serviced by FS Solutions. With 13 convenient locations, FS Solutions provides high-performance parts and accessories, Jetstream rentals, repair and rebuild, and safety training services. In Canada, Joe Johnson Equipment (JJE) is there to handle your every need.

Jetstream is a subsidiary of Federal Signal Corporation and has the financial strength, backing, and network of distributors around the world to support any customer.

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 **Solutions**

