High-Pressure Metal Hose

FX Series

Reliable under pressure and suitable for a wide range of requirements, the high-pressure, all-metal hose is commonly used in a high-temperature vacuum or applications where permeation is undesirable.

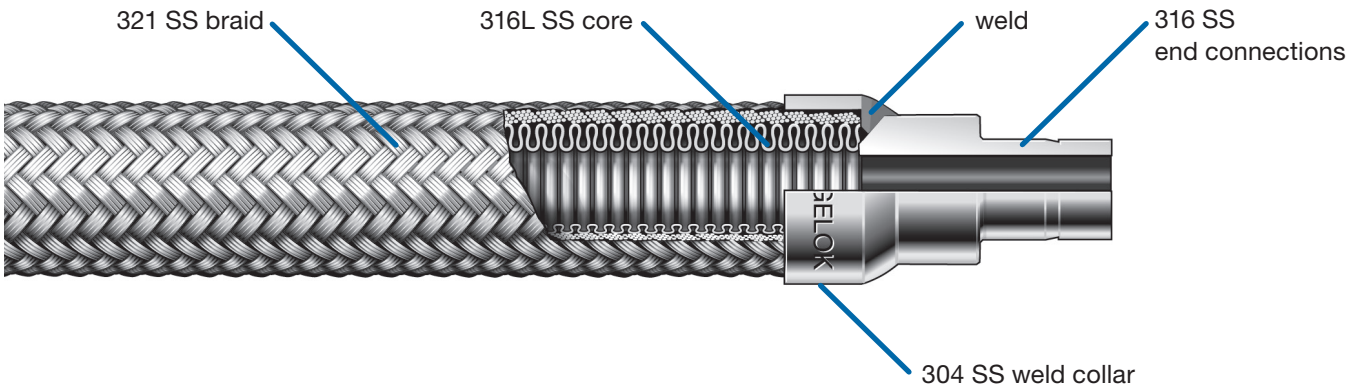
- **Working pressures from vacuum**
  - **6000 psig (413 bar) on ¼ in.**
  - **4500 psig (310 bar) on ½ in.**
- **Hose pressure contained by double-braid layer of 321 stainless steel**
- **316L stainless steel annular convoluted core**

With pressures at more than 3000 psig (206 bar), the new Swagelok® FX Series hose is designed specifically for:

- Chemical
- Compressed gas
- Cryogenic
- Hydrogen and fuel cell
- Marine
- Oil and gas
- Petrochemical
- Power
- Pulp and paper
- Steel



High-pressure gas distribution



Swagelok®

Technical Data

Nominal Hose Size in. (mm)	Inside Diameter in. (mm)	Outside Diameter in. (mm)	Minimum Center Line Bend Radius in. (cm)		Temperature Range °F (°C)	Working Pressure at –325 to 300°F (–200 to 148°C) Vacuum to … psig (bar)	Burst Pressure at 70°F (20°C) psig (bar)	Bulk Hose Weight lb/ft (kg/m)
			Static	Dynamic				
1/4 (6.4)	0.25 (6.4)	0.68 (17.3)	1.5 (3.81)	5.5 (14.0)	-325 to 1000 (-200 to 537)	6000 (413)	24000 (1654)	0.49 (0.73)
1/2 (12.7)	0.50 (12.7)	0.98 (24.9)	3.0 (7.62)	8.0 (20.3)		4500 (310)	18000 (1241)	0.85 (1.26)

Pressure-Temperature Ratings

Ratings are based on ASME Code for Pressure Piping and B31.3 Process Piping.

Nominal Hose Size, in.	1/4	1/2
Temperature °F (°C)	**Working Pressure** Vacuum to … psig (bar)	
-325 (-200) to 300 (148)	6000 (413)	4500 (310)
400 (204)	5580 (384)	4185 (288)
500 (260)	5160 (355)	3870 (266)
600 (315)	4860 (334)	3645 (251)
700 (371)	4620 (318)	3465 (238)
800 (426)	4440 (305)	3330 (229)
850 (454)	4320 (297)	3240 (223)
900 (482)	4260 (293)	3195 (220)
950 (510)	4140 (285)	3105 (213)
1000 (537)	4020 (276)	3015 (207)

Features

- High-pressure, corrosion-resistant, all-metal hose
- End connections welded in accordance with ASME Boiler and Pressure Vessel Code, Section IX
- Standard and custom assemblies
- Options include hose covers, hose tags, and helium leak testing

End Connections

Swagelok Tube Adapters



Swagelok Tube Fittings



Female VCO O-Ring Face Seal Fittings



SAE 37° (JIC) Female Swivel



Female Pipe Threads, NPT



Male Pipe Threads, NPT



Ordering Information

Ordering numbers are dependent on the configuration requested. Discuss your system needs with your authorized Swagelok sales and service representative to determine the correct ordering information.

Warranty Information

Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit swagelok.com or contact your authorized Swagelok sales and service representative.

Safe Product Selection
When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

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