

High-Pressure Metal Hose

FX Series

With pressures up to 6000 psig (413 bar), the new Swagelok® FX Series 321 stainless steel braided hose is suitable for a wide range of requirements. The convoluted core allows for flexibility and limits kinking. Available with a wide variety of end connections, it is commonly used in a high-temperature vacuum or in cases where permeation and corrosion are undesirable. The FX hose is specifically designed for high-pressure applications in:

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

Swagelok's expert operators and strict process control in manufacturing result in unmatched quality and consistency customers can count on. Our products are also backed by the Swagelok Limited Lifetime Warranty, proving our dedication and commitment to quality and our customers.



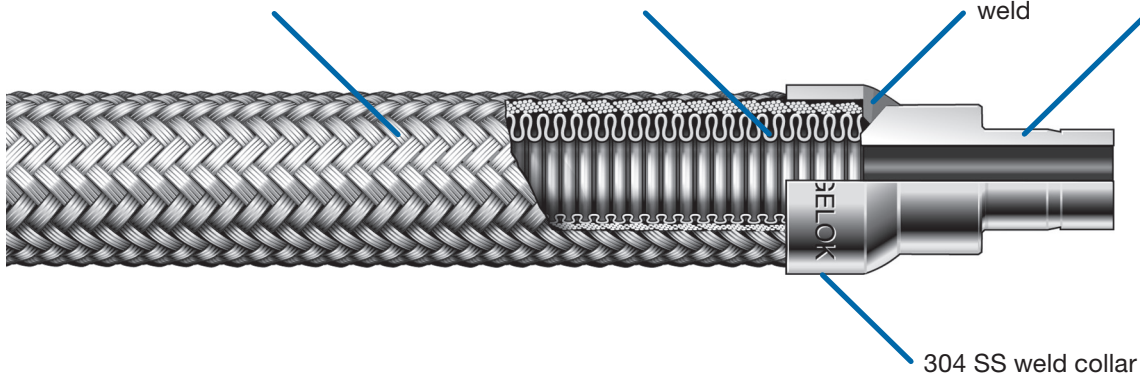
High-pressure gas distribution

Hose pressure contained by double-braid layer of 321 stainless steel

316L stainless steel annular convoluted core

weld

316 SS end connections



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)
3/8 (9.7)	0.38 (9.5)	0.92 (23.4)	2.5 (6.4)	7.0 (17.8)		5000 (344)	20000 (1379)	0.77 (1.15)
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)
3/4 (19.0)	0.75 (19.0)	1.4 (35.6)	4.0 (10.2)	10.0 (25.4)		3600 (248)	14400 (993)	1.58 (2.35)
1 (25.4)	1.00 (25.4)	1.70 (43.2)	5.0 (12.7)	11.0 (27.9)		3000 (206)	12000 (827)	2.25 (3.35)
1 1/4 (31.8)	1.25 (31.8)	2.00 (50.8)	6.5 (16.5)	12.5 (31.8)		2600 (179)	10400 (717)	2.88 (4.29)
1 1/2 (38.1)	1.50 (38.1)	2.36 (59.9)	7.5 (19.1)	13.0 (33.0)		2200 (151)	8800 (607)	3.57 (5.31)
2 (50.8)	2.00 (50.8)	2.82 (71.6)	9.0 (22.9)	14.0 (35.6)		1675 (115)	6700 (462)	4.45 (6.62)

Pressure-temperature ratings are based on ASME Code for Pressure Piping B31.3, Process Piping.

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



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, and proper installation, operation, and maintenance are the responsibilities of the system designer and user.

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.

Contact your authorized Swagelok sales and service representative for more details.

This product is just one example of our problem-solving capabilities. Your local authorized Swagelok sales and service representative, regional technology centers, and trained field engineers are at your service to create a solution that meets the needs of your application.

