UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK NUNAVUT NOVA SCOTIA YUKON PRINCE EDWARD ISLAND NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Swagelok Company		
MANUFACTURERS ADDRESS: 29500 Solon Road, Solon, Ohio 4413		
PLANT LOCATIONS: Headquarters: 29500 Solon Road, Solon, Ohio	44139 USA (See Att	echment A)
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CAT	TEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
R Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, of Flanges: all flanges Valves: all fine valves Expansion joints, flexible connections, and hose assemblies: all types Strainers, fitters, exparators, and steam traps Messuring devices, including pressure gauges, level gauges, sight glasses, lapressure transmitters Certified capacity-rated pressure relief devices acceptable as primary over proballers, pressure vessels, piping and fusible plugs Pressure retaining components that do not fall into one of the above catagorie	ivela, or essure protection on is	ASME B31.1 for unlisted components, ASME B31.3 for unlisted components
Nuclear components: Class 1 □ Class 2 □ Class 3 □, (Meeting AECB or		1
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Canadian Registration Number Submittal
Category C: Swagelok Integral Bonnet Needle Valves

Attachment B: Scope of Registration for Swagelok O, 1, 18, 20 and 26 Series Integral Bonnet Needle Valves (Category C)

This document represents the scope of the Swagelok O, 1, 18, 20 and 26 Series Needle Valves covered by this submission for CRN approval. These products were designed and evaluated in accordance with ASME B31.1-2018 for unlisted components and ASME B31.3-2018 for unlisted components.

THIS IS PART OF CRN

Summary Table

0C22234.5
Technical Standards and Safety Authority

Date: February 7, 2020

Page 1 of 3

					Boilers and Pressure V num Rateo ogram ure (psig)	essels Safety
Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections, Sizes	At -65 to 100°F (except Carbon Steel)	@ max. temperature	Design Code of Construction
O, 1, 18	1, 18 Body	F316 SS (ASTM A182)	Tube Fitting 1/8", 1/4", 3/8", 1/2", 3/4", 3MM, 6MM, 8MM, 10MM, 12MM, 18MM Female NPT 1/8", 1/4" Male NPT 1/8", 1/4", 3/8" Female ISO 1/4"	5000	3130 @ 600°F	
			Female NPT 3/8", 1/2" Female ISO 3/8", 1/2" Male NPT 1/2"	4400	2770 @ 600°F	
		F316 SS	Tube Fitting 1/4", 3/8", 1/2" Female NPT 1/4" Male NPT 1/4" 3/8", 1/2", 3/4" Female ISO 1/4"	6000	3760 @ 600°F	ASME B31.1 (Unlisted Components)
20, 26	Body (ASTM A479)	Female NPT 3/8"	5300	3330 @ 600°F	and ASME B31.3 (Unlisted	
			Female NPT 1/2" Female ISO 1/2"	4900	3080 @ 600°F	Components)
1, 18	Body	Type 1137 Carbon Steel (ASTM 181)	Tube Fitting 1/4", 3/8", 1/2", 3/4", 6MM, 8MM, 10MM, 12MM, 18MM Female NPT 1/4", 3/8", 1/2" Male NPT 1/4", 3/8", 1/2" Female ISO 1/4", 3/8", 1/2"	3000 @ -20°F to 100°F	2615 @ 350°F	
O, 1	Body	Alloy 400 (ASTM B564)	Tube Fitting 1/8", 1/4", 3/8", 1/2", 3/4", 8MM, 10MM Female NPT 1/8", 1/4" Male NPT 1/8", 1/4", Female ISO 1/4"	3000	2375 @ 500°F	



Swagelok
Canadian Registration Number Submittal
Category C: Swagelok Integral Bonnet Needle Valves

Product Series	Main Pressure	Main Pressure Bearing	Port Connections and	Maximum Rated Pressure (psig)		Design Code of
	Bearing Component	Material	Sizes	At -65 to 100°F	@ max. temperature	Construction
			Tube Fitting 1/8",1/4", 6MM Female NPT 1/8", 1/4" Female ISO 1/4" Male NPT 1/8", 1/4", 1/2"	3000	2350 @ 200°F	
THIS 0C2223	IS PART OF (RN	Tube Fitting 3/8"	2200	1760 @ 200°F	
I I	Standards and Safety and Pressure Vessels Program	· •	Tube Fitting 1/2"	2100	1680 @ 200°F	
			Tube Fitting 3/4"	1800	1440 @ 200°F	
			Tube Fitting 8MM	2320	1858 @ 200°F	ASME B31.1 (Unlisted
			Tube Fitting 10MM	1885	1509 @ 200°F	Components)
			Tube Fitting 12MM	2030	1625 @ 200°F	
			Tube Fitting 18MM	1590	1277 @ 200°F	
		Brass	Female NPT 3/8" Female ISO 3/8"	2600	2340 @ 200°F	
O, 1, 18	Body	C37700 (ASTM B283)	Female NPT 1/2" Female ISO 1/2"	2400	2160 @ 200°F	
			Tube Fitting 1/8",1/4", 6MM Female NPT 1/8", 1/4" Female ISO 1/4" Male NPT 1/8", 1/4", 1/2"	3000		
			Tube Fitting 3/8"	2200		
			Tube Fitting 1/2"	2100		
			Tube Fitting 3/4"	1800	390 @	ASME B31.3
			Tube Fitting 8MM	2300	400°F	(Unlisted Components)
			Tube Fitting 10MM	1885		
			Tube Fitting 12MM	2030		
			Tube Fitting 18MM	1590		
			Female NPT 3/8", 1/2" Female ISO 3/8", 1/2"	2400		

Date: February 7, 2020 Page 2 of 3



Canadian Registration Number Submittal
Category C: Swagelok Integral Bonnet Needle Valves

Product Illustrations



THIS IS PART OF CRN

Date: February 7, 2020

Page 3 of 3

0C22234.5

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety

Program

Configurations

Bodies are available in straight pattern and angle pattern.

Typical Product Characteristics:

Some of the product options listed below affect the pressure-temperature ratings shown in the Summary Table, but in all cases the ratings are less than those shown in the Summary Table. All of the following options are within the scope of this registration:

Stem Packing Options

Polytetrafluoroethylene (PFA) Ultra High Molecular Weight Polyethylene (UHMWPE) Polyetheretherkeytone (PEEK)

O-ring Stem Seal Options

Nitrile Ethylene Propylene Silicone Kalrez

Stem Designs

Regulating
PCTFE soft-seat regulating
PTFE soft-seat regulating

Additional options and non-pressure boundary alterations that do not affect pressuretemperature ratings may be made available within the scope of this registration. Examples of these would include handle options, actuator options, etc.

Quality System

The Swagelok Company quality system complies with the requirements of ISO 9001:2015. The Swagelok Company maintains British Standards Institution Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate.

References

The product catalog does not represent the full scope of registration, but rather details some of the most common options.

O, 1, 18, 20 and 26 Series Needle Valve Catalog MS-01-164, Rev N

Attachment A. Swagelok Manufacturing Locations

This document lists the Swagelok locations where end item or component level manufacturing activities take place.

Swagelok Company	Swagelok Company (Falon 1)
29500 Solon Road	348 Bishop Road
Solon, Ohio 44139	Highland Heights, Ohio 44143
USA	USA
Swagelok Company (Highland)	Swagelok Company (Falon 2)
318 Bishop Road	358 Bishop Road
Highland Heights, Ohio 44143	Highland Heights, Ohio 44143
USA	USA
Swagelok Company (OFC)	Swagelok Company (HPF)
29495 F.A. Lennon Drive	6050 Cochran Road
Solon, Ohio 44139	Solon, Ohio 44139
USA	USA
Swagelok Company (Atlantic)	Swagelok Company (Snow Metal)
26651 Curtiss Wright Parkway	6060 Cochran Road
Willoughby Hills, Ohio 44092	Solon, Ohio 44139
USA	USA
Swagelok Company (Micro) 26653 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA	Swagelok Company (Alfred) 29500 Ambina Drive Solon, Ohio 44139
Swagelok Hose Services Company (SHSC)	Swagelok Company (Strongsville)
29900 Solon Industrial Parkway	15400 Foltz Road
Solon, Ohio 44139	Strongsville, Ohio 44119
Swagelok (China) Fluid System Technologies Ltd.	Swagelok Limited
Changshu Export Process Zone	Ballafletcher Road
Changshu Economic Development Zone	Tromode
Changshu, Jiangshu	IM4 4RA
215513 China	Isle of Man

