

REGISTERED



CRN: CSA-OC20862.56

Statutory Declaration Registration of Fittings

Registration Process administered by CSA Group per CSA B51

(a) Design Qualification

I Joel Feldman Vice President, Engineering

(Position eg, president, plant manager, chief eng.)

Of Swagelok Company

(name of company)

Located at Headquarters: 29500 Solon Road, Solon, Ohio 44139 USA (See Attachment A)

(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act:

- comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are required. Or are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with data.

(b) Quality control of Manufacture

I further declare the manufacture of these fittings is controlled by a quality control program which complies with the requirements of ISO 9001:2015, and has been verified by the following authority or authorized agency BSI

The fittings covered by this declaration, for which I seek registration, are Category C. Valves

In support of the application, the following information, calculations and/or test data are attached: ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other Support Documents

Declared before me at Solon, Ohio

Jamie L. Ristau Resident Portage County Notary Public, State of Ohio My Commission Expires: 03/06/2019

In the of State of Ohio

The 09th Day of August AD 2018

Jamie L. Ristau A (commissioner for oaths)

Signature of Declarer

For Official Use Only

The application is accepted for registration in Category C in accordance with the Boilers and Pressure Vessels Act and CSA Standard B51.

This registration must be revalidated after ten (10) years from the date of acceptance. Nov. 18. 2028

Registered Number CRN CSA-OC20862.56

For the Chief Inspector

R.W. Barnes

Date



Feb. 26. 2019

- Three completed copies of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted. All fittings are required to be registered in the name of the Manufacturer. This form shall be completed and signed by the president of highest official in the manufacturing plant where the fitting is produced.



Attachment B. Scope for Swagelok N, HN and 6DB Series Needle Valves (Category C)

This document represents the scope of the Swagelok N, HN and 6DB Series Needle Valves covered by this submission for CRN approval. The Swagelok N, HN and 6DB Series Needle Valves were designed and evaluated in accordance with ASME B31.1-2016 for unlisted components and ASME B31.3-2016 for unlisted components.

Summary Table

Product Description or Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections, Sizes*	Maximum Rated Pressure (psig)		Design Code of Construction		
				At ambient temperature	At maximum temperature			
3N Body	10FA	316 SS (ASTM A479)	Female NPT 1/8", 1/4" Male NPT 1/4" Tube Socket Weld 1/4"	6000 @ 100°F	1715 @ 1200°F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)		
			Tube Fitting 1/4", 8MM Male VCR Fitting 1/4"	6000 @ 100°F	3030 @ 1000°F			
			Male VCO Fitting 1/4"	6000 @ 100°F	3870 @ 550°F			
		Alloy 400 (UNS N04400) (ASTM B164)		Tube Fitting 1/4" Female NPT 1/8", 1/4" Female NPT 1/8", 1/4" Male NPT 1/4" Tube Socket Weld 1/4" Male NPT 1/4" Tube Socket Weld 1/4" Male VCO Fitting 1/4"	5000 @ 100°F		3960 @ 500°F	
				Alloy 600 (UNS N06600) (ASTM B564, ASTM B166 or ASTM B168)	Female NPT 1/8", 1/4" Male NPT 1/4" Tube Socket Weld 1/4"		6000 @ 100°F	515 @ 1200°F
					Tube Fitting 1/4" Male VCR Fitting 1/4" Male VCO Fitting 1/4"		6000 @ 100°F	1800 @ 1000°F 4860 @ 550°F
		Alloy C-276 (UNS N10276) (ASTM B574 or ASTM B575)		Female NPT 1/8", 1/4" Male NPT 1/4" Tube Socket Weld 1/4"	6000 @ 100°F		1545 @ 1200°F	
				Tube Fitting 1/4" Male VCR Fitting 1/4"	6000 @ 100°F		3030 @ 1000°F	
				Male VCO Fitting 1/4"	6000 @ 100°F		5290 @ 550°F	
		6N Body		316 SS (ASTM A479)	Female NPT 1/4", 3/8" Tube Socket Weld 3/8", 1/2" Pipe Socket Weld 1/4"		6000 @ 100°F	1715 @ 1200°F
					Tube Fitting 3/8", 1/2" Male VCR Fitting 1/2"		6000 @ 100°F	3030 @ 1000°F 4300 @ 100°F
					Male VCO Fitting 1/2"		6000 @ 100°F	3870 @ 550°F
Alloy 400 (UNS N04400) (ASTM B164)				Tube Fitting 3/8" Female NPT 1/4", 3/8" Tube Socket Weld 3/8", 1/2" Pipe Socket Weld 1/4" Male VCR Fitting 1/2" Male VCO Fitting 1/2"	5000 @ 100°F	3960 @ 500°F		
				Tube Fitting 1/2"	4400 @ 100°F	3476 @ 500°F		

ATTACHMENT TO

C.R.N. *CSA 0020862.5*

Signed: *[Signature]*

178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

THIS IS 316 SS (ASTM A479) 0
 CRN 0020862.5

* Fractional port connection sizes shown. Equivalent metric size ranges are also in scope, and have the same pressure/temperature ratings

Swagelok

Canadian Registration Number Submittal #N-HN-6DB-2018
 Category C: Swagelok N, HN Needle and 6DB Blowdown Valves

Revised: October 9, 2018
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Product Description or Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections, Size	Maximum Rated Pressure (PSI)		Design Code of Construction
				At ambient temperature	At maximum temperature	
6N	Body	Alloy 600 (UNS N06600) (ASTM B564, ASTM B166 or ASTM B168)	Female NPT 1/4", 3/8"	6000 @ 100°F	515 @ 1200°F	
			Tube Socket Weld 3/8", 1/2"			
			Pipe Socket Weld 1/4"			
			Tube Fitting 3/8"	6000 @ 100°F	1800 @ 1000°F	
			Male VCR Fitting 1/2"	4300 @ 100°F	1800 @ 1000°F	
		Alloy C-276 (UNS N10276) (ASTM B574 or ASTM B575)	Tube Fitting 1/2"	5100 @ 100°F	1785 @ 1000°F	
			Male VCO Fitting 1/2"	6000 @ 100°F	4860 @ 550°F	
			Female NPT 1/4", 3/8"	6000 @ 100°F	1545 @ 1200°F	
			Tube Socket Weld 3/8", 1/2"	6000 @ 100°F		
			Pipe Socket Weld 1/4"	6000 @ 100°F		
12N	Body	316 SS (ASTM A479)	Male VCR Fitting 1/2"	4300 @ 100°F	2430 @ 1000°F	ASMF B31 1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
			Male VCO Fitting 3/4"	6000 @ 100°F	3870 @ 550°F	
			Female NPT 1/2", 3/4", 1"	5000 @ 100°F	3960 @ 500°F	
			Male NPT 1/2", 3/4", 1"	5000 @ 100°F	3960 @ 500°F	
			Tube Socket Weld 1/2", 3/4"			
			Pipe Socket Weld 1/2"			
			Tube Fitting 3/4"	4600 @ 100°F	3634 @ 500°F	
			Tube Fitting 1"	4300 @ 100°F	3397 @ 500°F	
			Tube Fitting 1/2"	4400 @ 100°F	3476 @ 500°F	
			3HN	Body	316 SS (ASTM A479)	
Male NPT 1/4"	10000 @ 100°F	3085 @ 1200°F				
Tube Socket Weld 1/4"						
Tube Fitting 1/4"	10000 @ 100°F	5450 @ 1000°F				
Female NPT 1/4", 1/2"	10000 @ 100°F	3085 @ 1200°F				
Male NPT 1/2"	10000 @ 100°F	3085 @ 1200°F				
6HN	Body	316 SS (ASTM A479)	Tube Fitting 1/2"	6700 @ 100°F	5092 @ 1000°F	
			Female NPT 1/2", 3/4", 1"	6000 @ 100°F	515 @ 1200°F	
			Male NPT 1/2", 3/4", 1"	6000 @ 100°F	515 @ 1200°F	
			Tube Socket Weld 1/2", 3/4"			
			Pipe Socket Weld 1/2"			
			Tube Fitting 3/4", 1"	Not rated	Not rated	
12N	Body	Alloy 400 (UNS N04400) (ASTM B164)	Tube Fitting 1/2"	5100 @ 100°F	1785 @ 1000°F	
			Female NPT 1/2", 3/4", 1"	6000 @ 100°F	1545 @ 1200°F	
			Male NPT 1/2", 3/4", 1"	6000 @ 100°F	1545 @ 1200°F	
			Tube Socket Weld 1/2", 3/4"			
			Pipe Socket Weld 1/2"			
			Tube Fitting 3/4", 1"	Not rated	Not rated	
6N	Body	Alloy 600 (UNS N06600) (ASTM B564, ASTM B166 or ASTM B168)	Tube Fitting 1/2"	5100 @ 100°F	1785 @ 1000°F	
			Female NPT 1/2", 3/4", 1"	6000 @ 100°F	1545 @ 1200°F	
			Male NPT 1/2", 3/4", 1"	6000 @ 100°F	1545 @ 1200°F	
			Tube Socket Weld 1/2", 3/4"			
			Pipe Socket Weld 1/2"			
			Tube Fitting 1/2"	5100 @ 100°F	3030 @ 1000°F	

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 ATTACHMENT TO
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 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program

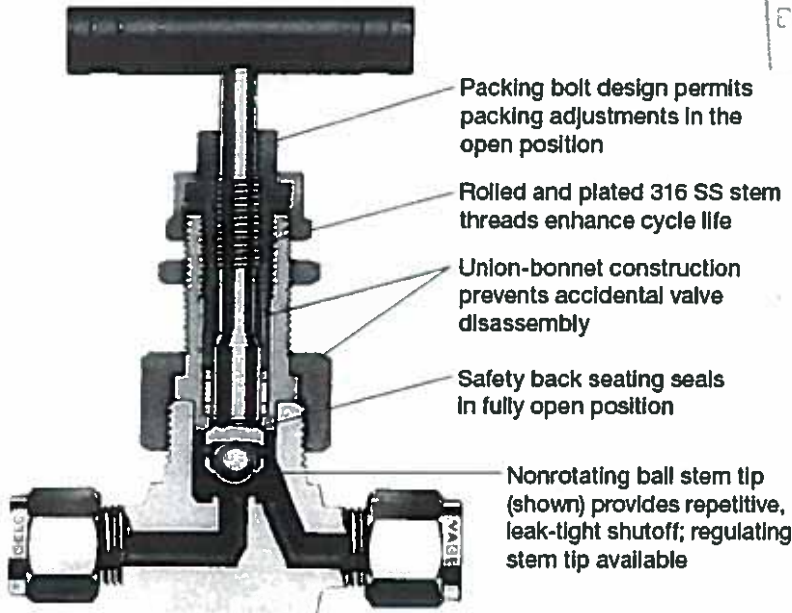
* Fractional port connection sizes shown. Equivalent metric size ranges are also in scope, and have the same pressure/temperature ratings

Product Description or Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections, Sizes*	Maximum Rated Pressure (psig)		Design Code of Construction
				At ambient temperature	At maximum temperature	
6DB	Body	316 SS (ASTM A479)	Female NPT 1/4", 3/8" Tube Socket Weld 3/8", 1/2" Pipe Socket Weld 1/4"	6000 @ 100°F	1715 @ 1200°F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
			Tube Fitting 3/8", 1/2"	6000 @ 100°F	3030 @ 1000°F	

* Fractional port connection sizes shown. Equivalent metric size ranges are also in scope, and have the same pressure/temperature ratings.

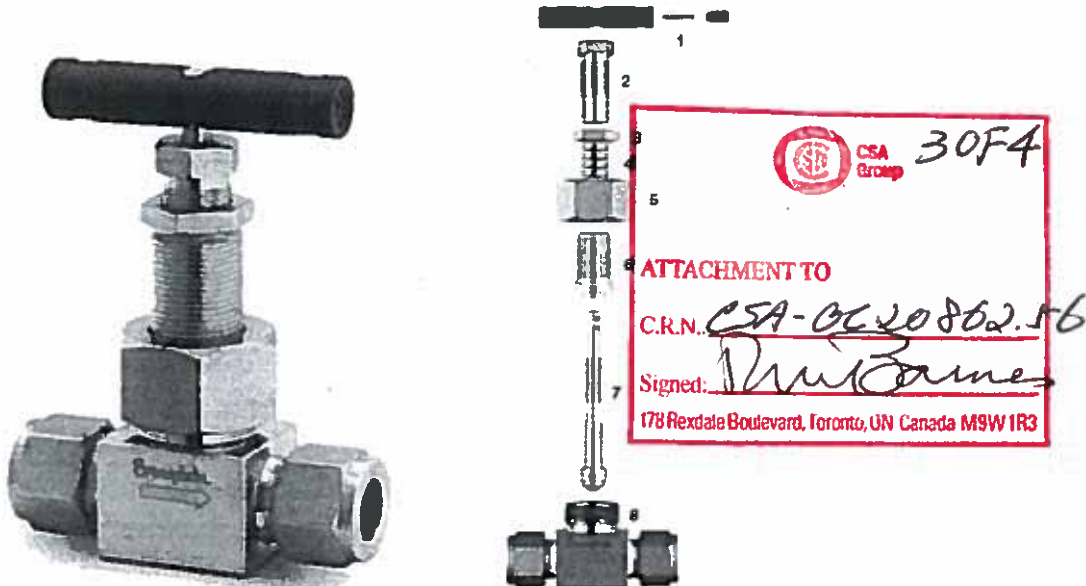
Product Illustrations

N Series and HN Series Needle Valves



THIS IS PART OF
 CRN 0C20862-5
 Technical Standards & Safety Authority
 Engineering Pressure Vessels

6DB Series Needle Valve



Configurations

Bodies are available in straight pattern and angle.

Product Options:

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

Ultra High Molecular Weight Polyethylene (UHMWPE)
Polyetheretherketone (PEEK)
Graphite

Stem Designs

Regulating
PCTFE soft-seat regulating
PTFE soft-seat regulating

Additional options and non-pressure boundary alterations that do not affect pressure-temperature 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 BS) Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate. The N, HN and 8DB needle valve products are made at a Swagelok Company location in Solon, Ohio.

References

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

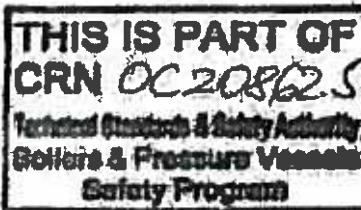
- N Series and HN Series Needle Valve Catalog MS-01-168, Rev L
- 8DB Series Needle Valve Catalog MS-02-118, R4

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Registration Process administered by
CSA Group per CSA B51



Attachment A. Swagelok Manufacturing Locations

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

Swagelok Company 29500 Solon Road Solon, Ohio 44139 USA	Swagelok Company (Falon 1) 348 Bishop Road Highland Heights, Ohio 44143 USA
Swagelok Company (Highland) 318 Bishop Road Highland Heights, Ohio 44143 USA	Swagelok Company (Falon 2) 358 Bishop Road Highland Heights, Ohio 44143 USA
Swagelok Company (OFC) 29495 F.A. Lennon Drive Solon, Ohio 44139 USA	Swagelok Company (HPF) 6050 Cochran Road Solon, Ohio 44139 USA
Swagelok Company (Atlantic) 26651 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA	Swagelok Company (Snow Metal) 6060 Cochran Road Solon, Ohio 44139 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) 29900 Solon Industrial Parkway Solon, Ohio 44139	Swagelok Company (Strongsville) 15400 Foltz Road Strongsville, Ohio 44119
Swagelok (China) Fluid System Technologies Ltd. Changshu Export Process Zone Changshu Economic Development Zone Changshu, Jiangshu 215513 China	Swagelok Company A.G. (European Technology Center) St. GallerstraBe 84 Lachen, Switzerland 8853 Switzerland
Swagelok Limited Ballafletcher Road Tromode IM4 4RA Isle of Man	


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