

REGISTERED



CRN: CSA-OC20862.56



Technical Safety Authority of Saskatchewan  
Class administered by CSA B51

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Regina, SK S4R 1K3  
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Email: boilerpermits@tsask.ca  
Website: www.tsask.ca

Statutory Declaration (Registration of Fittings)

TSK-1008

I. Declaration Information

I, Joel Feldman  
Vice President, Engineering  
(company title, e.g. vice president, plant manager, chief engineer)  
(must be in a position of authority in the manufacturing plant where the fitting is produced)  
of: Swagelok Company  
(name of manufacturer)

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.



located at: Headquarters: 29500 Solon Road Solon, Ohio 44139 USA  
(Plant Address - Apt/Street) (City, Prov) (Postal Code)

do solemnly declare that the fittings listed hereinunder, which are subject to the *Saskatchewan Boiler and Pressure Vessel Safety Act* (check one)

Comply with the requirements of ASME B31.1 and ASME B31.3 which specifies the dimensions,  
(title of recognized North American Standard)  
Materials of construction, pressure / temperature ratings and identification marking of the fittings, or

Are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with \_\_\_\_\_ as supported by the attached data which identifies the dimensions, materials of construction, pressure / temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority, BSI as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Category C. Valves

In support of this 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

II. Declaration

DECLARED before me at Solon In the State of Ohio  
this 09th day of August, 2018  
Jamie L Ristau Jamie L Ristau  
(print name) Resident Portage County  
Jamie L Ristau Notary Public, State of Ohio Joel Feldman  
(Signature) My Commission Expires: 02/06/2019  
(Signature of Commissioner of Oaths)

III. Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the *Boiler and Pressure Vessel Safety Act* and CSA B51, Clause 4.2, and is accepted for registration in Category C

CSA-OC20862.56 Feb. 26. 2019 Nov. 18. 2028  
(Registration Number) (Date Registered - MM DD YYYY) (Expiry Date - MM DD YYYY)  
(For the Administrator/Chief Inspector) R.W. Barnes



\*Note: See the attachment for the scope of the registration.

## 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"	6000 @ 100°F	1800 @ 1000°F			
			Male VCO Fitting 1/4"	6000 @ 100°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	THIS IS CRN 0C20862.5	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
Male VCO Fitting 1/2"	4300 @ 100°F				2430 @ 1000°F			
Alloy 400 (UNS N04400) (ASTM B164)	Male VCO Fitting 1/2"			6000 @ 100°F	3870 @ 550°F			
	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 0C20862.5*

Signed: *[Signature]*

178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

\* 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  
 Page 2 of 4

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	
		Tube Fitting 1/2"	5100 @ 100°F	1785 @ 1000°F		
		Male VCO Fitting 1/2"	6000 @ 100°F	4860 @ 550°F		
		Alloy C-276 (UNS N10276) (ASTM B574 or ASTM B575)	Female NPT 1/4", 3/8"	6000 @ 100°F	1545 @ 1200°F	
			Tube Socket Weld 3/8", 1/2"			
			Pipe Socket Weld 1/4"			
Tube Fitting 3/8", 1/2"	6000 @ 100°F					
Male VCR Fitting 1/2"	4300 @ 100°F		2430 @ 1000°F			
Male VCO Fitting 1/2"	6000 @ 100°F	5290 @ 550°F				
12N	Body	316 SS (ASTM A479)	Female NPT 1/2", 3/4", 1"	6000 @ 100°F	1715 @ 1200°F	ASMF B31 1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
			Male NPT 1/2", 3/4", 1"			
			Tube Socket Weld 1/2"			
			Pipe Socket Weld 1/2"			
			Tube Socket weld 3/4"	5900 @ 100°F	1715 @ 1200°F	
			Tube Fitting 1/2"	6000 @ 100°F	3030 @ 1000°F	
			Tube Fitting 3/4"	5800 @ 100°F	3030 @ 1000°F	
			Tube Fitting 1"	4700 @ 100°F	3030 @ 1000°F	
			Male VCR Fitting 1/2"	4300 @ 100°F	2430 @ 1000°F	
			Male VCO Fitting 3/4"	6000 @ 100°F	3870 @ 550°F	
12N	Body	Alloy 400 (UNS N04400) (ASTM B164)	Female NPT 1/2", 3/4", 1"	5000 @ 100°F	3960 @ 500°F	
			Male NPT 1/2", 3/4", 1"			
			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				
6N	Body	Alloy 600 (UNS N06600) (ASTM B564, ASTM B166 or ASTM B168)	Female NPT 1/2", 3/4", 1"	6000 @ 100°F	515 @ 1200°F	
			Male NPT 1/2", 3/4", 1"			
			Tube Socket Weld 1/2", 3/4"			
			Pipe Socket Weld 1/2"			
			Tube Fitting 3/4", 1"	Not rated	Not rated	
Tube Fitting 1/2"	5100 @ 100°F	1785 @ 1000°F				
6N	Body	Alloy C-276 (UNS N10276) (ASTM B574 or ASTM B575)	Female NPT 1/2", 3/4", 1"	6000 @ 100°F	1545 @ 1200°F	
			Male NPT 1/2", 3/4", 1"			
			Tube Socket Weld 1/2", 3/4"			
			Pipe Socket Weld 1/2"			
Tube Fitting 3/4", 1"	Not rated	Not rated				
Tube Fitting 1/2"	5100 @ 100°F	3030 @ 1000°F				
3HN	Body	316 SS (ASTM A479)	Female NPT 1/8", 1/4"	10000 @ 100°F	3085 @ 1200°F	
			Male NPT 1/4"			
			Tube Socket Weld 1/4"			
Tube Fitting 1/4"	10000 @ 100°F	5450 @ 1000°F				
6HN	Body	316 SS (ASTM A479)	Female NPT 1/4", 1/2"	10000 @ 100°F	3085 @ 1200°F	
			Male NPT 1/2"			
			Tube Fitting 1/2"	6700 @ 100°F	5092 @ 1000°F	

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 ATTACHMENT TO  
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 Signed: *[Signature]*  
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 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program

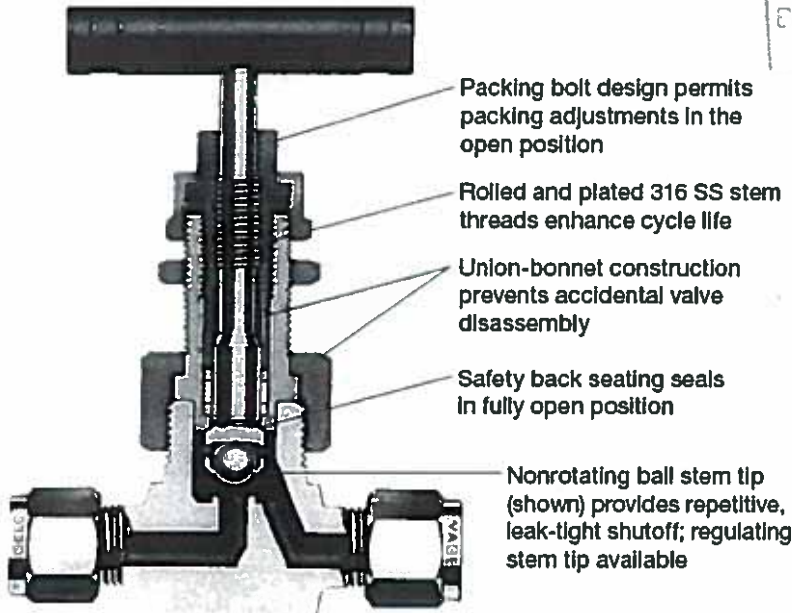
\* Fractional port connection sizes shown. Equivalent metric size ranges are also in scope, and have the same pressure/temperature ratings

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.

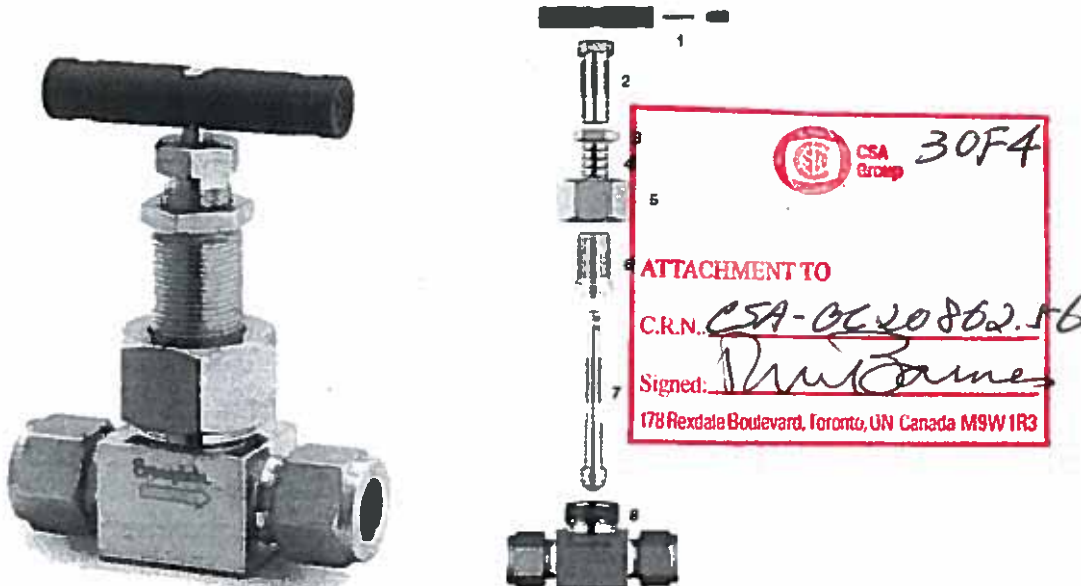
## Product Illustrations

### N Series and HN Series Needle Valves



THIS IS PART OF  
 CRN 0C20862-J  
 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 BS1 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.

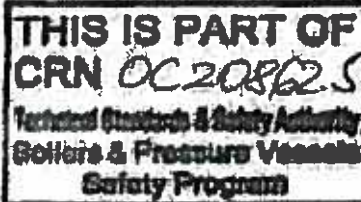
- N Series and HN Series Needle Valve Catalog MS-01-168, Rev L
- 8DB Series Needle Valve Catalog MS-02-118, R4

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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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**Signed:** [Signature]

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