

SWAGELOK COMPANY  
A-6565 DAVIS INDUSTRIAL PARKWAY  
OLON OH 44139  
USA

**Date:** March 6, 2019  
**Account #:** 35231  
**Journal #:** 72731

**Attn:** JONATHAN SEEWALD

**Re:** Application for Design Registration

The design, as detailed in your, V-MANIFOLD-2018, for a Fitting is accepted for registration as follows:

**Registered To:** SWAGELOK COMPANY                      **CRN:** 0C20864.51

**Drawing #:** SWAGELOK V2,V3,V5 SERIES

**Drawing Revision:** D

**Conditions Of Registration:**

Registration includes Swagelok V2, V3, V5 Series Manifolds as in SOR

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

**Reviewer's Notes:**

As required by CSA B51 4.2.1, this registration expires on November 18, 2028. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void. Any additional conditions of registration stated in TSSA CRN# 0C20864.5 registration shall apply to BC registration.

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

Chelsea Pothier

chelsea.pothier@technicalsaftybc.ca  
Design Administration

cc:

## Attachment B. Scope for Swagelok V Series Manifold Valves (Category C)

### Product Scope

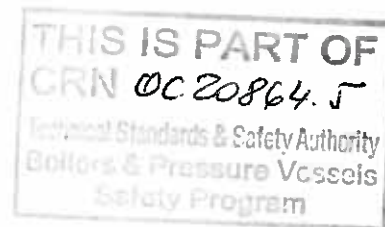
This document represents the scope of Swagelok® V Series Manifold Valves covered by this submission for CRN approval. These products were designed and evaluated in accordance with ASME B31.1 for unlisted components and ASME B31.3 for unlisted components.

### Summary Table

Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections and Sizes	Maximum Rated Pressure (psig)		Design Code of Construction
				@ 100°F	@ Max Temp	
V2	Standard Body	316SS (ASTM A479)	Swagelok Tube Fitting 1/2", 12MM Female NPT 1/4", 1/2"	6000	1715 @ 1200°F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
			Flange (MSS)	6000	3030 @ 1000°F	
V2	Compact Body	316SS (ASTM A479)	Male NPT 1/2", 3/4" Female NPT 1/2", 3/4" Female NPT 1/4" (vent)	6000	1715 @ 1200 °F	
V3	Standard Body	316SS (ASTM A479)	Swagelok Tube Fitting 1/2", 12MM Female NPT 1/2"	6000	1715 @ 1200 °F	
			Flange (MSS)	6000	3030 @ 1000°F	
V3	Compact Body	316SS (ASTM A479)	Male NPT 1/2", 3/4" Female NPT 1/2", 3/4" Female NPT 1/4" (vent)	6000	1715 @ 1200 °F	
V5	Standard Body	316SS (ASTM A479)	Swagelok Tube Fitting 1/2", 12MM Female NPT 1/8", 1/4", 1/2"	6000	1715 @ 1200 °F	
			Flange (MSS)	6000	3030 @ 1000°F	



CRN #: OC20864.51  
 Date: March 6 2019  
 BC J#: 72731



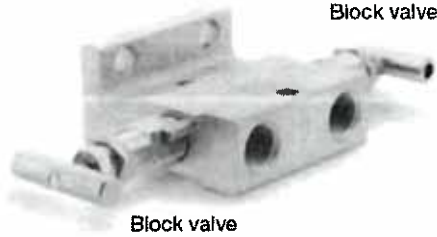
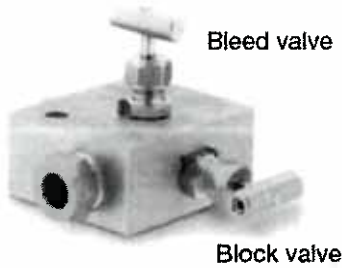
**Product Illustration**

**V2 Series Manifold Valves**

**Standard Body**

**Flange Body**

**Compact Body**

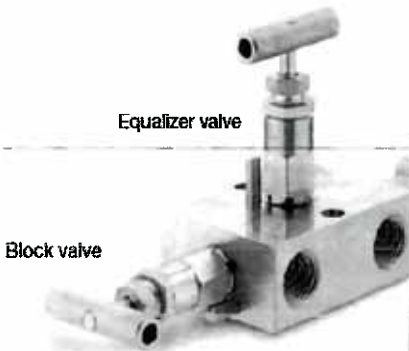


**V3 Series Manifold Valves**

**Standard Body**

**Compact Body**

CRN #: OC20864 51  
 Date: March 6 2019  
 BC J#: 72 731



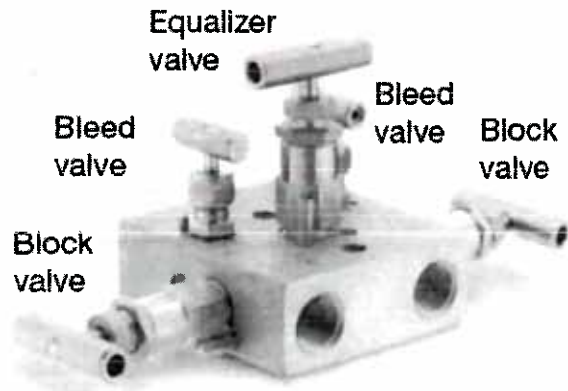
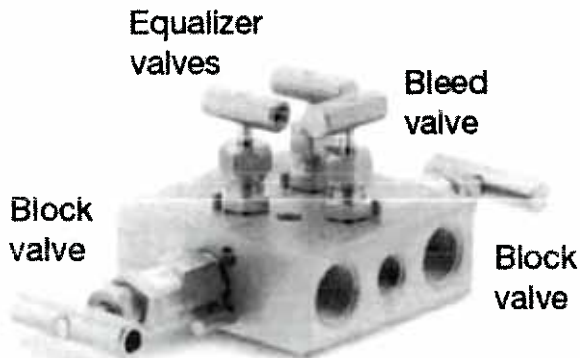
THIS IS PART OF  
 CRN OC 20864.5  
 Technical Standards & Safety Authority  
 BOLLERS & Pressure Vessels  
 Safety Program



**V5 Series Manifold Valves**

**Standard Body – One Bleed Valve**

**Standard Body – Two Bleed Valves**



## 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:

### Valve Design

Small Bonnet Valve – actuator threads are wetted  
Large Bonnet Valve – actuator threads are non-wetted

### Valve Packing Material

Virgin Polytetrafluoroethene (PTFE) – standard  
Grafoil – high temperature option

### Flange Seal Materials

Fluorocarbon FKM  
Virgin Polytetrafluoroethene (PTFE)  
Reinforced Polytetrafluoroethene (PTFE)  
Grafoil

### MSS Flange Fasteners

Standard Hex Head Bolt  
Long Stud with Hex Nut  
Short Hex head Bolt

### Eccentric Flanges

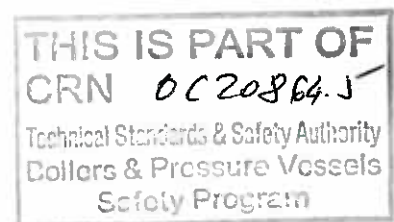
Swagelok Tube Fitting  
Female NPT  
Pipe Butt Weld

### Concentric and Eccentric Pipe Nipples

Stainless Steel  
Carbon Steel



CRN #: 0C20864 51  
Date: March 6 2019  
BC J#: 72 731



## Quality System

Swagelok Company's quality system complies with the requirements of BS EN ISO 9001:2015. Swagelok Company maintains British Standards Institution Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate. The V Series Manifold Valves are manufactured 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. See Swagelok's Instrument Manifold Systems Catalog MS-02-445, R2

## 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	



CRN #: OC20864.57

Date: March 6 2019

BC J#: 72731

