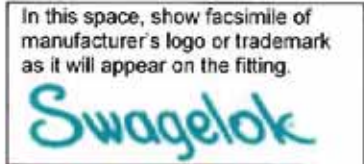


STATUTORY DECLARATION Registration of Fittings



I, David H. Peace, Vice President of Engineering of Swagelok Company

located at 29500 Solon Road, Solon, Ohio 44139 USA

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

- comply with the requirements of ASME B31.1 and ASME B31.3 which specifies the dimensions, 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 manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, BSI as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are

Category H Type Fittings

In support of this application, the following information, calculations and/or test data are attached:

ISO 9001:2015 Certificate, Attachment A, Attachment B, Product Catalog and other supporting documents

DECLARED before me at Solon in the State of Ohio this 13th day of November, 2017

(print) Jamie L Ristau, Notary Public, State of Ohio (signature of applicant)

For ABSA Office Use Only:

NOTES: See attached documents Attachment B Scope of Registration and Attachment A

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category H

Registration Number: 0H20020.52 (Signature of the Administrator/SCO)

Date Registered: MAR 19 2018 Expiry Date: January 31, 2028



**Attachment B. Scope of Registration for Swagelok Fluid Distribution Headers (FDH) (Category H)**

**Product Scope**

This document represents the scope of Swagelok® Fluid Distribution Headers covered by this submission for CRN approval. These products have been 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)	End Cap/Body Connections and Sizes	Maximum Allowable Working Pressure (psig)		Design Code of Construction
				@100°F	@Max. Temp	
FDH1 (1" pipe platform)	Body (Extrusion) 3/4" female NPT ends  Or End Caps on straight threads	316 SS bar (ASTM A479)	<b>Inlet Connections:</b> Swagelok tube fitting 1/2", 3/4", 1", 12mm, 25mm Female NPT 3/8", 1/2," 3/4" Swagelok Tube Adapter 3/8", 1/2", 3/4", 1"  <b>Outlet Connections:</b> Swagelok Tube Fitting 1/4", 1/2", 6mm, 10mm, 12 mm, 25 mm Female NPT 1/4", 3/8" 1/2" Swagelok Tube Adapter 1/4", 3/8", 1/2", 3/4"	3000 psig	2145 psi @ 400°F	ASME B31.1 (Unlisted Components)  And ASME B31.3 (Unlisted Components)
FDH2 (2" pipe platform)	Body (Extrusion) and End Caps	316 SS bar (ASTM A479)	<b>Inlet Connections</b> Swagelok Tube Fitting 3/4", 1", 2", 25mm, 50mm, Female NPT 1/2," 3/4", 1" Swagelok Tube Adapter 3/4, 1", 2"  <b>Outlet Connections</b> Swagelok Tube Fitting 3/8", 1/2", 3/4", 1", 10mm, 12 mm, 25 mm Female NPT 3/8" 1/2", 3/4", 1" Swagelok Tube Adapter 3/8", 1/2", 3/4"	1000 psig	715psi @ 400°F	ASME B31.3 (Unlisted Components)

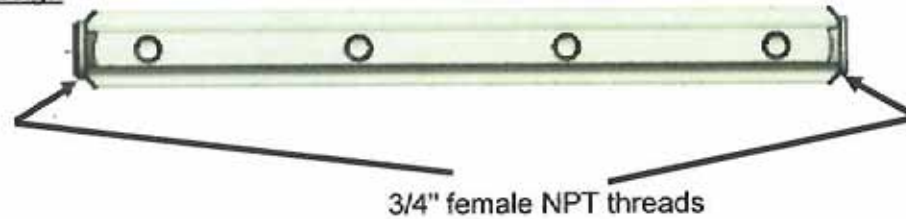
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## Product Illustrations

### Primary FDH1 Design



### FDH2 and Optional FDH 1 Design



## Configurations

The Swagelok Fluid Distribution Header (FDH) is a pre-engineered and fully documented piping assembly that can act as a distribution manifold or collection manifold in gas or liquid applications. The main pressure-bearing component is an extruded manifold body that may or may not include an end-cap at the inlet and outlet ends, as explained below. When end caps are used, they are connected to the body with straight threads and O-ring seals.

FDH assemblies are available in two sizes – the FDH1 is a one-inch pipe platform and the FDH2 is a two-inch pipe platform. The FDH can be ordered with two to 18 branch outlets, where valves and other system components are connected to the branch outlets with tapered pipe threads. Swagelok offers a variety of system components to connect to the manifold body and/or end cap assemblies.

The pressure rating of the total piping assembly is the lowest pressure rating of any valve or other system component connected to the body. The scope of this registration is only for the extruded body with 3/4" NPT ends or the extruded body and end cap assemblies.

## Product Options:

Fluid distribution headers are common components for a variety of gas and liquid applications. A wide variety of product options such as clamps or various system components can be attached to manifold body and end-cap assemblies to create subsystems for conveying systems or gases. These options do not affect the pressure or temperature ratings of the body or body and end cap assemblies within the scope of this CRN registration..

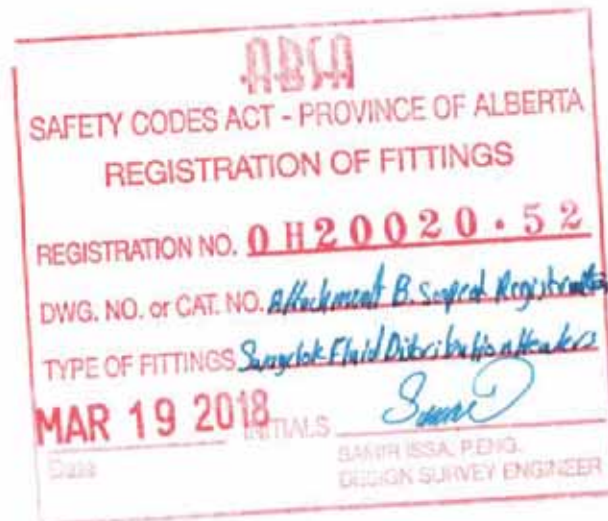
## Quality System

The Swagelok Company quality system for Fluid Distribution Headers 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.

## References

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

- o Fluid Distribution Header Catalog MS-02-358



**Attachment A. Swagelok Manufacturing Locations**

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

**MAR 19 2018**

Swagelok Company 29500 Solon Road Solon, Ohio 44139 USA	<b>OH20020.52</b> 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 Tromode IM4 4RA Isle of Man	