UNIFORM S HEW BRUNSWICK NUNAVUT	NOVA SCOTIA YUKON	PRINCE EDWARD ISLAND NORTHWEST TERRITORIES	NEWFOUNDLAND AND LABRADO
MANUFACTURERS NAME	Swagelok Company		
MANUFACTURERS ADDI			
PLANT LOCATIONS: He	RESS: 29500 Solon Road, Solo	on. Ohio 44139 USA	
CATEGORY OF	FITTINGS TO BE REGISTERED. CI	on, Ohio 44139 USA d, Solon, Ohio 44139 USA (See	Attachment A)
A Pipe fittings, includios er	ouplings, taks, elbows, Ys, plugs, unio	OR DESCRIPTION ONLY	TOTAL OF THE STANDARD OF CONSTRUCT
C Valves: all line valves D Expension Johns, flexible E Strainers, filters, acparet F Messuring devices, inclu- pressure transmitters G Centiled cappedly-raied p bolists, pressure vessels	connections, and hose essembles: ors, end steam traps diag pressure gauges, level gauges, s reasure relial devices acceptable so	ell types sight glasses, lavels, or primary over pressure protection on	ASME 831.1 and ASME 83- (for unlisted components)
H)Pressure retaining compo	ments that do not fall into one of the		
is innerest-combosesing: Cit	IND 1 D Class 2 D Class 2 D Ota	alles Africa	
HOW MANUPACTURERS	NAME, TRADEMARK, OR LOGO AS	IT WILL APPEAR ON THE PRODUC	T DEPERTMENT ON
Swa	adelok		CAST DOTHER D WROUGHT JQ
JST OF SUPPORTING NO	JINESTA VIAN AND	ON OF THE ACTUAL ITEMS YO BE R	
CLARATION: David H. Peace	(em rote 3) employed by	Swagelok Company and be	ing the person having full authority
David H. Prace consibility for the quality of knowledge represents the porature ratings, and identification of these fittings apart and has been verific eration conscientiously because of Declarer:  ared before me at day of 10	of the end product do ecternity de a product for which registration is nitification markings are in accord is requisted by a Quality Control ed by BSI elleving to be thue, and knowing CONTON ON	eclare that the information contains sought. The dimensions, material ance with the herein named stands ance with the herein named stands as being suitable for the githat it is of the same force and of the latter of th	to in this torm is true and to the best is of construction, pressure trues. I further declare that the ant whem tables the construction
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Canadian Registration Number Submittal #FDH-2017 Category H: Swagelok Fluid Distribution Header

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## 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

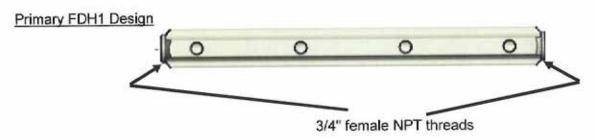
Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	End Cap/Body Connections and Sizes	Maximum Allowable Working Pressure (psig)		Design Code of
				@100°F	@Max. Temp	Construction
FDH1 (1" pipe platform)	Body (Extrusion) ¾" female NPT ends  Or  End Caps on straight threads	316 SS bar (ASTM A479)	Inlet Connections: 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"  Outlet Connections: 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)	Inlet Connections Swagelok Tube Fitting 3/4", 1", 2", 25mm, 50mm, Female NPT 1/2," 3/4", 1" Swagelok Tube Adapter 3/4, 1", 2"  Outlet Connections 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	





Canadian Registration Number Submittal #FDH-2017 Category H: Swagelok Fluid Distribution Header

### **Product Illustrations**







#### 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..



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## **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:

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.

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 Company A.G. (European Technology
Changshu Export Process Zone	Center)
Changshu Economic Development Zone	St. GallerstraBe 84
Changshu, Jiangshu	Lachen, Switzerland 8853
215513 China	Switzerland
Swagelok Limited Tromode IM4 4RA Isle of Man	

THIS IS PART OF CRN 0H20020.5 Inchnical Standards & Safety Authority Bollors & Pressure Vessels Safety Program