

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: <u>Swagelok Company</u>	
MANUFACTURERS ADDRESS: <u>29500 Solon Road, Solon, Ohio 44139-3492</u>	
PLANT LOCATIONS: <u>Headquarters: 29500 Solon Road, Solon, Ohio 44139-3492 (See Attachment A)</u>	
<p align="center">CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges <input checked="" type="radio"/> C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting AECB or ASME requirements)</p>	<p align="center">TITLE OF THE STANDARD OF CONSTRUCTION</p> <p>ASME B31.1 & ASME B31.3 Unlisted Components</p>
<p>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> <p align="center" style="font-size: 2em;"><i>Swagelok</i></p>	<p align="center">TYPE OF CONSTRUCTION</p> <p>FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input checked="" type="checkbox"/> CAST <input type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:</p>
<p>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p>ISO 9001:2008 Quality System Certificate, Support Documents, Attachment B, Catalog Information</p>	

DECLARATION:

I, David H. Peace (see note 3) employed by Swagelok Company and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by The British Standards Institution as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: [Signature]

Declared before me at Solon Ohio, USA

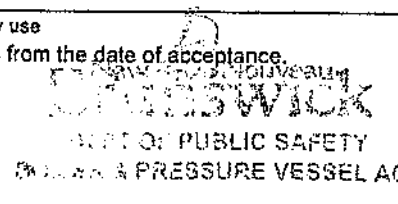
This 31 day of October AD 2013

Commissioner of Oaths or Notary Public: (sign) [Signature]

(Affix Official seal to the right)

USE THIS SPACE FOR THE
OFFICIAL SEAL

Lori A. Sarver, Notary Public
State of Ohio, Summit County
My Commission Expires April 13, 2015

This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>0C15741.2</u> FID#: <u>1214</u>	
<p>Notes:</p> <ol style="list-style-type: none"> All fittings shall be registered in the name of the Manufacturer. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years. 	CRN <u>0C15741.27</u> EXAMINER: <u>[Signature]</u> for CHIEF BOILER INSPECTOR
DATE: <u>10/9/2015</u>	

BLRs PVs

FITTINGS COMPONENTS

Attachment B. Scope for Swagelok RHPS Series Pressure Regulators (RS, RSH, RD, RDH and BS) (Category C)

Product Scope

This document represents the scope of the Swagelok RHPS Series Pressure Regulators (RS, RSH, RD, RDH and BS) covered by this submission for CRN approval. The Swagelok RHPS Series Pressure Regulators (RS, RSH, RD, RDH and BS) were designed and evaluated in accordance with ASME B31.1 for unlisted components and ASME B31.3 for unlisted components.

Note:

The temperature ratings in the table below in most cases exceed those shown in the product catalog. The pressure retaining components are designed to be safe at the temperature rating as demonstrated in the Code Compliance Summary, but the Swagelok factory must be consulted to determine which seat and seal materials listed in the Typical Product Characteristics section below are suitable for use at this temperature.

Summary Table

0015741.2

Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material	Port Connections and Sizes	Maximum Rated Pressure				Design Code of Construction
				At ambient temperature		At maximum temperature		
				Inlet	Outlet	Inlet	Outlet	
RS6	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 3/4" Female ISO/BSP 3/4" ASME B16.5 Flange 3/4"	1015 psi @ 100 °F	406 psi @ 100 °F	1015 psi @ 302 °F	406 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RS10	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1" Female ISO/BSP 1" ASME B16.5 Flange 1"	1015 psi @ 100 °F	290 psi @ 100 °F	1015 psi @ 302 °F	290 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RS15	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1-1/2" Female ISO/BSP 1-1/2" ASME B16.5 Flange 1-1/2"	1015 psi @ 100 °F	290 psi @ 100 °F	1015 psi @ 302 °F	290 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RS20	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 2" Female ISO/BSP 2" ASME B16.5 Flange 2"	1015 psi @ 100 °F	290 psi @ 100 °F	1015 psi @ 302 °F	290 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RSH2	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1/4"	6800 psi @ 100 °F	4500 psi @ 100 °F	6800 psi @ 302 °F	4500 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)

ASSA
SAFETY CODES ACT - PROVINCE OF ALBERTA
REGISTRATION OF FITTINGS
REGISTRATION NO. 0015741.2
Attachment B
RHPS Pressure Regulators
JUN 24 2015
Date
INITIALS
BLAZO DEDOVIC
DESIGN SURVEYOR

Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material	Port Connections and Sizes	Maximum Rated Pressure				Design Code of Construction
				At ambient temperature		At maximum temperature		
				Inlet	Outlet	Inlet	Outlet	
RSH4	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1/2" Female ISO/BSP 1/2" ASME B16.5 Flange 1/2"	5800 psi @ 100 °F	4900 psi @ 100 °F	5800 psi @ 302 °F	4900 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RSH6	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 3/4" Female ISO/BSP 3/4" ASME B16.5 Flange 3/4"	5800 psi @ 100 °F	5800 psi @ 100 °F	5800 psi @ 302 °F	5800 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RSH8	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1" Female ISO/BSP 1" ASME B16.5 Flange 1"	5800 psi @ 100 °F	5700 psi @ 100 °F	5800 psi @ 302 °F	5700 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RSH10	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1" Female ISO/BSP 1" ASME B16.5 Flange 1"	5800 psi @ 100 °F	3625 psi @ 100 °F	5800 psi @ 302 °F	3625 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RSH15	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1-1/12" Female ISO/BSP 1-1/2"	5800 psi @ 100 °F	3625 psi @ 100 °F	5800 psi @ 302 °F	3625 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RSH15	Body	Stainless Steel (UNS S31603 / ASTM A479)	ASME B16.5 Flange 1-1/2"	5700 psi @ 100 °F	3625 psi @ 100 °F	5700 psi @ 100 °F	3625 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RSH20	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 2" Female ISO/BSP 2"	5800 psi @ 100 °F	290 psi @ 100 °F	4400 psi @ 302 °F	290 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RSH20	Body	Stainless Steel (UNS S31603 / ASTM A479)	ASME B16.5 Flange 2"	5500 psi @ 100 °F	290 psi @ 100 °F	5500 psi @ 100 °F	290 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)

Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material	Port Connections and Sizes	Maximum Rated Pressure				Design Code of Construction
				At ambient temperature		At maximum temperature		
				Inlet	Outlet	Inlet	Outlet	
RD2	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1/4"	5800 psi @ 100 °F	4500 psi @ 100 °F	5800 psi @ 302 °F	4500 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RD6DP	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 3/4" Female ISO/BSP 3/4" ASME B16.5 Flange 3/4"	1015 psi @ 100 °F	1015 psi @ 100 °F	1015 psi @ 302 °F	1015 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RD10	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1" Female ISO/BSP 1" ASME B16.5 Flange 1"	1015 psi @ 100 °F	1015 psi @ 100 °F	1015 psi @ 302 °F	1015 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RD15	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1-1/12" Female ISO/BSP 1-1/2" ASME B16.5 Flange 1-1/2"	1015 psi @ 100 °F	1015 psi @ 100 °F	1015 psi @ 302 °F	1015 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RD20	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 2" Female ISO/BSP 2" ASME B16.5 Flange 2"	1015 psi @ 100 °F	1015 psi @ 100 °F	1015 psi @ 302 °F	1015 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RD25	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 2-1/2" Female ISO/BSP 2-1/2" ASME B16.5 Flange 2-1/2"	1015 psi @ 100 °F	1015 psi @ 100 °F	1015 psi @ 302 °F	1015 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RD30	Body	Stainless Steel (UNS S31603 / ASTM A479)	ASME B16.5 Flange 3"	1015 psi @ 100 °F	1015 psi @ 100 °F	1015 psi @ 302 °F	1015 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RD40	Body	Stainless Steel (UNS S31603 / ASTM A479)	ASME B16.5 Flange 4"	1015 psi @ 100 °F	1015 psi @ 100 °F	1015 psi @ 302 °F	1015 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)

Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material	Port Connections and Sizes	Maximum Rated Pressure				Design Code of Construction
				At ambient temperature		At maximum temperature		
				Inlet	Outlet	Inlet	Outlet	
RDH6	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 3/4" Female ISO/BSP 3/4" ASME B16.5 Flange 3/4"	5800 psi @ 100 °F	5800 psi @ 100 °F	5800 psi @ 302 °F	5800 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RDH6DP	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 3/4" Female ISO/BSP 3/4" ASME B16.5 Flange 3/4"	5800 psi @ 100 °F	3335 psi @ 100 °F	5800 psi @ 302 °F	3335 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RDH8	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1" Female ISO/BSP 1" ASME B16.5 Flange 1"	5800 psi @ 100 °F	5700 psi @ 100 °F	5800 psi @ 302 °F	5700 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RDH10	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1" Female ISO/BSP 1" ASME B16.5 Flange 1"	5800 psi @ 100 °F	3625 psi @ 100 °F	5800 psi @ 302 °F	3625 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RDH15	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1-1/12" Female ISO/BSP 1-1/2"	5800 psi @ 100 °F	3400 psi @ 100 °F	5800 psi @ 302 °F	3400 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RDH15	Body	Stainless Steel (UNS S31603 / ASTM A479)	ASME B16.5 Flange 1-1/2"	5700 psi @ 100 °F	3625 psi @ 100 °F	5700 psi @ 100 °F	3625 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RDH20	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 2" Female ISO/BSP 2"	5800 psi @ 100 °F	2900 psi @ 100 °F	5800 psi @ 100 °F	2900 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RDH20	Body	Stainless Steel (UNS S31603 / ASTM A479)	ASME B16.5 Flange 2"	5500 psi @ 100 °F	2900 psi @ 100 °F	5500 psi @ 100 °F	2900 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)

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The products shown in the table below are a part of the above product families and were previously registered under CRN registration number 0C15099.5C

Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material	Port Connections and Sizes	Maximum Rated Pressure				Design Code of Construction
				At ambient temperature		At maximum temperature		
				Inlet	Outlet	Inlet	Outlet	
RDH25	Body	Stainless Steel (UNS S31603 / ASTM A479)	ASME B16.5 Flange 2-1/2"	4060 psi @ 100 °F	2900 psi @ 100 °F	4060 psi @ 100 °F	2900 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RDH30	Body	Stainless Steel (UNS S31603 / ASTM A479)	ASME B16.5 Flange 3"	4060 psi @ 100 °F	1900 psi @ 100 °F	4060 psi @ 100 °F	1900 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RDH40	Body	Stainless Steel (UNS S31603 / ASTM A479)	ASME B16.5 Flange 4"	4040 psi @ 100 °F	1900 psi @ 100 °F	4040 psi @ 100 °F	1900 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
BS10	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1" Female ISO/BSP 1" ASME B16.5 Flange 1"	1015 psi @ 100 °F	290 psi @ 100 °F	1015 psi @ 302 °F	290 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RS2	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1/4"	5800 psi @ 100 °F	4500 psi @ 100 °F	5800 psi @ 302 °F	4500 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RS4	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1/2" Female ISO/BSP 1/2" ASME B16.5 Flange 1/2"	1015 psi @ 100 °F	406 psi @ 100 °F	1015 psi @ 302 °F	406 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RS6	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1" Female ISO/BSP 1" ASME B16.5 Flange 1"	1015 psi @ 100 °F	406 psi @ 100 °F	1015 psi @ 302 °F	406 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
RD6	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 3/4" Female ISO/BSP 3/4" ASME B16.5 Flange 3/4"	1015 psi @ 100 °F	1015 psi @ 100 °F	1015 psi @ 302 °F	1015 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)

Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material	Port Connections and Sizes	Maximum Rated Pressure				Design Code of Construction
				At ambient temperature		At maximum temperature		
				Inlet	Outlet	Inlet	Outlet	
RD8	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1" Female ISO/BSP 1" ASME B16.5 Flange 1"	1015 psi @ 100 °F	1015 psi @ 100 °F	1015 psi @ 302 °F	1015 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
BS4	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1/2" Female ISO/BSP 1/2" ASME B16.5 Flange 1/2"	1015 psi @ 100 °F	406 psi @ 100 °F	1015 psi @ 302 °F	406 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
BS8	Body	Stainless Steel (UNS S31603 / ASTM A479)	Female NPT 1" Female ISO/BSP 1" ASME B16.5 Flange 1"	1015 psi @ 100 °F	203psi @ 100 °F	1015 psi @ 302 °F	203 psi @ 302 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)

Product Illustration



RS(H)2

RS(H)4, 6, 8

RS(H)10, 15, 20

OC15741.2



RD2

RD(H)6, 8

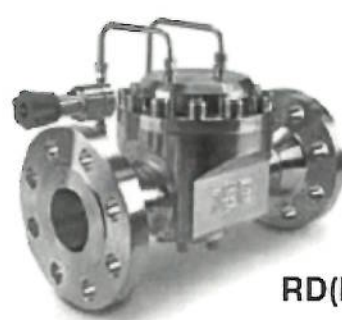
RD(H)6DP



RD(H)10, 15



RD(H)20, 25



RD(H)30



BS(H)2



BS(H)4, 6, 8



BS(H)10, 15

Typical Product Characteristics:

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:

- Body Seal Materials: FKM, Nitrile, EPDM, FFKM, HNBR
- Diaphragm Materials: FKM, Nitrile, EPDM, FFKM, HNBR, PTFE, 316SS
- Piston Seal Materials: FKM, Nitrile, EPDM, FFKM, HNBR
- Seat Materials: FKM, Nitrile, EPDM, FFKM, HNBR, PCTFE, PEEK, Polyurethane

Some of the product options listed below do not affect the pressure-temperature ratings shown in the Summary Table. All of the following options are within the scope of this registration:

Handle Type
 Cleaning options
 Panel Mounting
 Feedback Loops
 Handle color
 Anti-tamper
 Laser Etching
 ASTM G93 cleaning
 NACE Components
 External Feedback
 External Feedback to the Pilot

0C15741.2

Quality System

The Swagelok Company quality system complies with the requirements of BS EN ISO 9001:2008. The Swagelok Company maintains British Standards Institution Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate. The Swagelok RHPS Series Pressure Regulators (RS, RSH, RD, RDH and BS) are manufactured and assembled at Swagelok Company locations in Solon, Ohio and Tromode, Isle of Man, British Isles.

References

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

- RHPS Series Pressure Regulator Catalog MS-02-430, R1