



MUNICIPAL AFFAIRS

CSA Group

REGISTERED

C.R.N.: CSA-OH12871.56R1

Signed: Bikramjot Sandhu

Date: 26 March 2015

178 Rexdale Blvd., Toronto, ON Canada M9W 1R3



the pressure equipment safety authority

STATUTORY DECLARATION Registration of Fittings

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

Swagelok

David H. Pearson
Vice President of Engineering

(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)

of Swagelok Company

(name of manufacturer)

located at Headquarters: 29500 Solon Road, Solon, Ohio 44139-3492

(plant address)

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

- comply with the requirements of ASME B31.3 / BPVC VIII Div 1 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 manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, QMI 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: 2008 Quality System Certificate, Support Documents, Attachment A

DECLARED before me at Solon in the State of Ohio
 this 21st day of March, 2014
(Month) (Year)

(print) Jamie L. Ristau (Signature of Applicant)
 (sign) Jamie L. Ristau Jamie L. Ristau
State of Ohio, Portage Co.
My Commission Exp March 06, 2019
(A Commissioner for Oaths)

For Office Use Only

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: CSA-OH12871.56R1

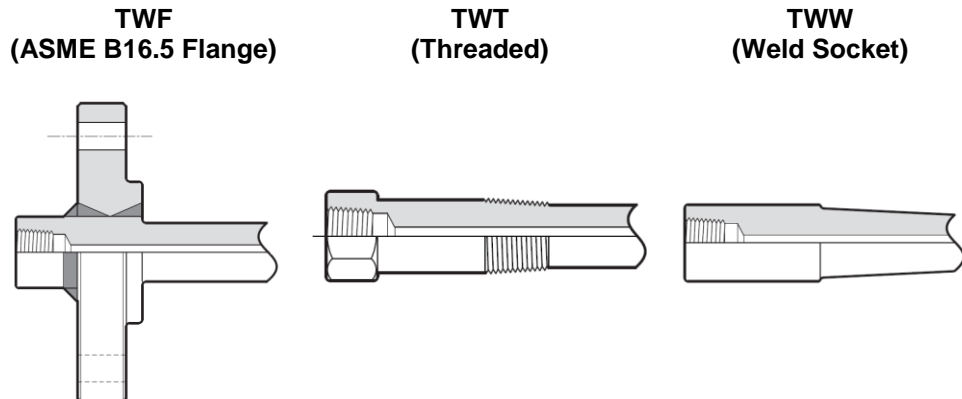
Date Registered: MARCH 26, 2015

B. SANDHU B. SANDHU
 (For the Administrator/Chief Inspector of Alberta)
 Expiry Date: SEP. 11 2024

Attachment A. Scope of Registration for Swagelok Thermowells (Category H)

This document represents the scope of Swagelok Thermowells covered by this CRN approval. These thermowells have been evaluated in accordance with ASME B31.3 and ASME B&PV Code Section VIII Division 1.

Product Description



Summary Table

Series	Port Connections and Sizes	Material	Maximum External Pressure		Design Code of Construction
			Up to 70° F	At Maximum Temperature	
TWF	1 in. ASME class 150 1 ½ in. ASME class 150 2 in. ASME class 150	304 SS (ASTM A479) (ASTM A182)	275 psig	20 psig @ 1000°F	ASME B31.3 and B&PV Code Section VIII Div.1
		316 SS (ASTM A479) (ASTM A182)	275 psig	20 psig @ 1000°F	
	1 in. ASME class 300 1 ½ in. ASME class 300 2 in. ASME class 300	304 SS (ASTM A479) (ASTM A182)	720 psig	40 psig @ 1000°F	
		316 SS (ASTM A479) (ASTM A182)	720 psig	40 psig @ 1000°F	
TWT (reduced shank)	½ in. male NPT ¾ in. male NPT	304 SS (ASTM A479)	6300 psig	3300 psig @ 1000°F	
		316 SS (ASTM A479)	6300 psig	3500 psig @ 1000°F	
TWT (tapered shank)	½ in. male NPT ¾ in. male NPT	304 SS (ASTM A479)	6300 psig	3300 psig @ 1000°F	
		316 SS (ASTM A479)	6300 psig	3500 psig @ 1000°F	
TWW	¾ in. pipe 1 in. pipe	304 SS (ASTM A479)	6400 psig	4400 psig @ 1000°F	
		316 SS (ASTM A479)	6500 psig	2900 psig @ 1000°F	

Product Options:

Additional options and non-pressure boundary alterations that do not affect the pressure-temperature ratings may be made available within the scope of this approval. Examples of these include the following:

- Variable stem lengths
- G1/2B instrument connection
- Stainless steel cap and chain

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.

References

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

- Temperature Measurement Devices, Bimetal Thermometers and Thermowells, Product Catalog MS-02-353 R2