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TECHNICAL STANDARDS & SAFETY AUTHORITY
14TH FLOOR CENTRE TOWER-3300 BLOOR STREE
TORONTO ON M8X 2X4

Date: March 24, 2015
Account #: 35231
Journal #: 61930
Our File #: 5531255

Attn: TANYA FRANCIS

Re: Application for Design Registration

The design, as detailed in your, TSSA Service Request No: 1578994, for a Fitting is accepted for registration as follows:

Registered To: SWAGELOK COMPANY

CRN: 0H12871.51

Drawing #: SOR per Prod Cat MS-02-353

Drawing Revision: 2

Conditions Of Registration:

Registration of Thermowells Series: TWF, TWT, TWW as per scope of registration sheet.

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 September 11, 2024. 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.

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

SHARON PETERS

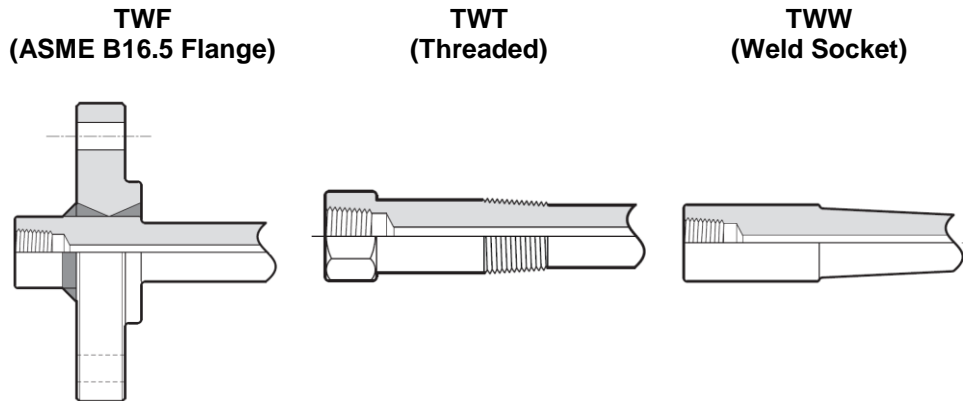
boiler.designregistration@safetyauthority.ca
Design Administration

cc:

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