

TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ON M9W 6N9

Date: July 11, 2023
Account #: 35231
Journal #: 83150

Attn: TSSA BPV NATIONAL REGISTRATION

Re: Application for Design Registration

The design, as detailed in your, 0A24574.5 SWAGELOK Company, for a Fitting is accepted for registration as follows:

Registered To: SWAGELOK COMPANY **CRN:** 0A24574.51

Drawing #: SCOPE OR REGISTRATION

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:

SCOPE OR REGISTRATION: Swagelok TTW Series Thermowell Tees

As required by CSA B51 4.2.1, this registration expires on May 12, 2033. 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. Any additional conditions of registration stated in TSSA CRN# 0A24574.5 registration shall apply to BC registration.

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

Janina Mihailescu

janina.mihailescu@technicalsaftybc.ca
Design Administration

cc:



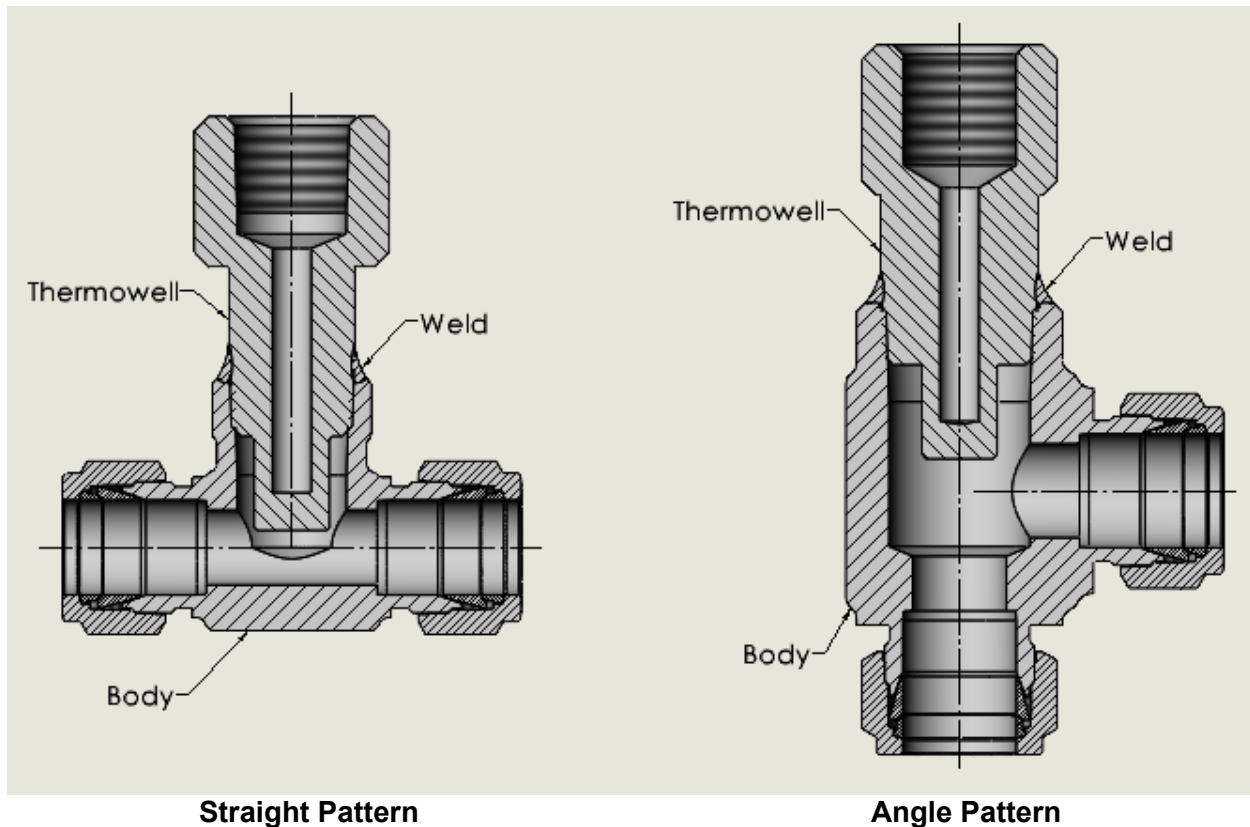
Attachment B: Scope of CRN Registration for Swagelok TTW Series Thermowell Tees (Category A)

This document represents the scope of the TTW Series Thermowell Tees covered by this submission for CRN approval. The products have been evaluated in accordance with ASME B31.1-2020 for unlisted components and ASME B31.3-2020 for unlisted components.

Summary Table

Product Description or Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections and Sizes	Maximum Rated Pressure (psig)			Design Code of Construction
				Up to 100°F	At 1000°F per ASME B31.1	At 1000°F per ASME B31.3	
TTW Series Thermowell Tees (Straight and Angle Pattern)	Body	F316 SS (ASTM A182) and S31600/S31603 (ASTM A479)	Swagelok Tube Fitting 3/8", 1/2", 5/8", 12MM, 16MM Female 1/2" NPT seal welded	4900	2760	3720	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
			Swagelok Tube Fitting 3/4", 1", 18MM Female 3/4" NPT seal welded	4600	2590	3490	
			Female NPT 1/2" Male NPT 1/2" Female 1/2" NPT seal welded	4400	2480	3360	
			Female NPT 3/4" Male NPT 3/4" Female 3/4" NPT seal welded	4000	2260	3060	

Product Illustration



Typical Product Characteristics

Additional options that do not affect pressure-temperature ratings may be made available within the scope of this registration.

Quality System

The Swagelok Company quality system complies with the requirements of BS EN ISO 9001:2015. The Swagelok Company maintains BSI Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate.

References

Temperature Measurement Devices TTW Series Thermowell Tees Catalog MS-02-353, Rev F