

OTW50 SERIES WELDED SOCKET TYPE THERMOWELLS



OTW51 Welded Socket Flat Type Thermowells



OTW52 Welded Socket Conical Type Thermowells



OTW53 Welded Socket Stepped Type Thermowells

DEFINITION

Thermowells are protective sheaths used to protect temperature sensors (T/C - R/T) and other temperature sensors (Bimetallic). They are processed from pipes and filled materials. They prevent damage to the sensor from environmental conditions such as high pressure, excessive material speeds and viscosities, chemical and mechanical abrasions. In addition, they provide easy replacement of temperature sensors without interrupting the process in case of failure. They are an excellent solution to protect the process and extend the lifespan of the sensor.

Important criteria in the selection of thermowell:

- 1 - Maximum operating temperature
- 2 - Maximum working pressure
- 3 - Flow rate of the working environment
- 4 - The density of the working environment
- 5 - Viscosity of the working environment
- 6- Predetermined Ordel or other brand thermowell code or details

Ordel Thermowells are classified according to the design of the body. Flat type thermowell is the same length along the whole body length. Conical thermowells have a diameter that gradually decreases along the body length. With this structure, they have a fast response time. Conical thermowells are also preferred in applications with very high output speed.

Stepped thermowells have two different diameter structures based on their body structure. With its low diameter structure close to the measurement point, it has a speed of transition and a fast temperature sensing structure.

Thermowells are usually drilled from solid bars and processed as a whole piece (Barstock). In addition, there are thermowell types produced by welding pipes of various structures to process fittings such as raccord and flange.

ORDEL WELDED SOCKET THERMOVEL FEATURES and SELECTION CRITERIA

PICTURE NO ; OTW11, OTW12, OTW13

- OTW51 - Welded Socket Flat Type Thermowell
- OTW52 - Welded Socket Conical Type Thermowell
- OTW53 - Welded Socket Stage Type Thermowell

STANDARD THERMOVEL FILLED AND PIPE MATERIALS

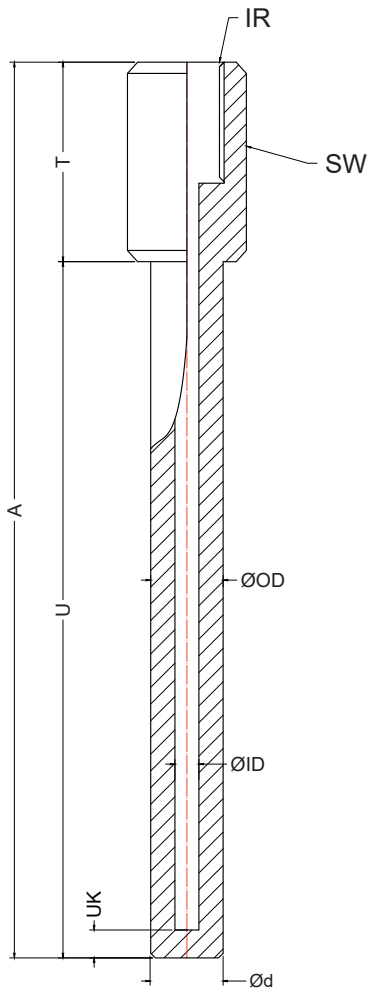
ASTM A304 (1.4301)	DIN 1.4749(AISI 446)	INCOLOY-825 (DIN 2.4858)
ASTM A316 Ti (1.4571)	DIN 1.4828(AISI 309)	HASTELLOY-C4 (DIN 2.4610)
ASTM A316 L (1.4404)	DIN 1.4841(AISI 314)	BRASS MATERIAL
ASTM A310 (1.4845)	DIN 1.7335 (Molibden)	TEFLON
ASTM A321 (1.4541)	INCONEL-600 (DIN 2.4816)	
ASTM A105 (Carbon Steel)	INCONEL-800 (DIN 1.4876)	

STANDARD HOLE DIAMETERS

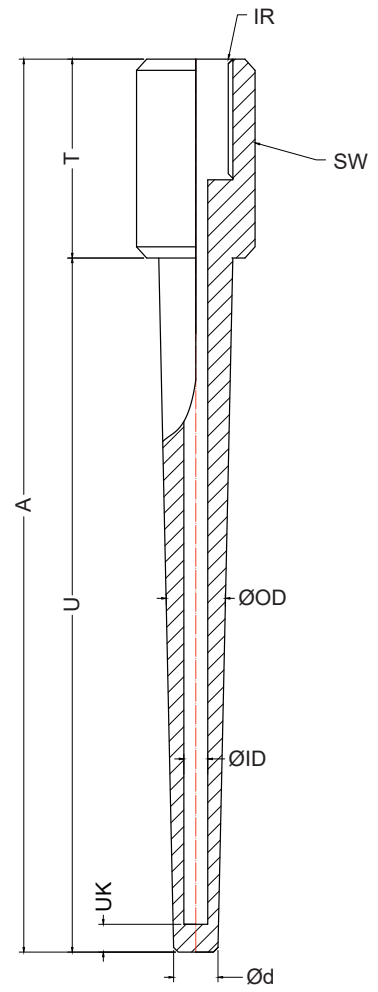
3.0 mm
4.0 mm
5.0 mm
6.0 mm
7.0 mm
8.0 mm
9.0 mm
10.0 mm

Note: Ordel thermowells can be produced in desired diameters according to the application other than standard hole diameters. Filled material length is produced up to a maximum of 1100 mm.

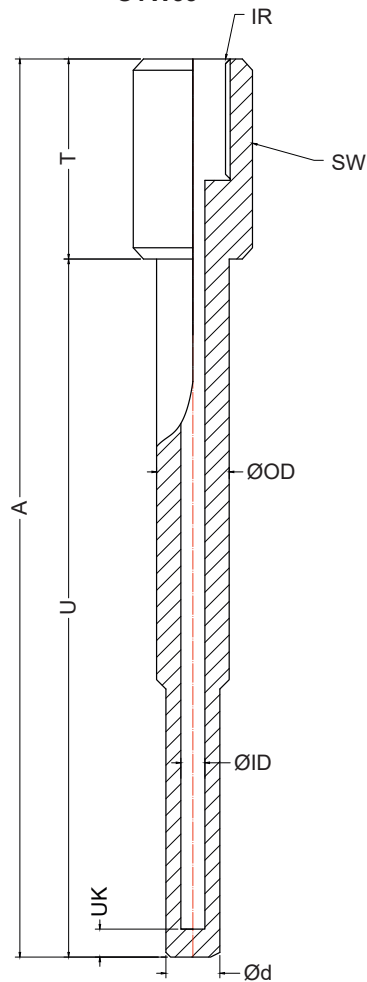
OTW51



OTW52



OTW53



ORDEL OTW50 THERMOWELL CODING

