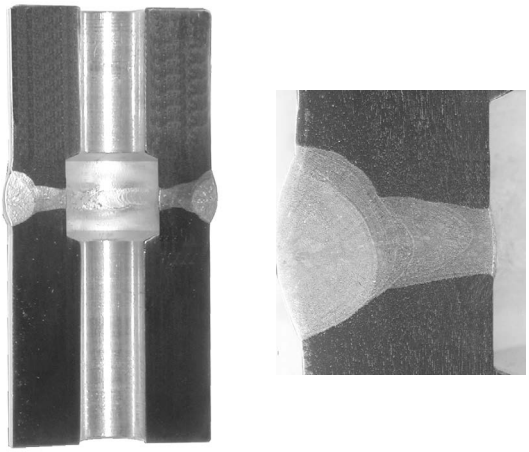
Design of thermowells in special lengths

Applications

- Temperature measurements **without** dynamic loading from process media flows (e.g. tank farms)

Special features

- Thermowells in special lengths made from solid-drilled components, welded together
- Fast response time and easy mounting of temperature sensore by special bore design
- Welding certification to ASME Sec. IX



Micrograph of the weld seam (butt seam) of a special-length thermowell

Description

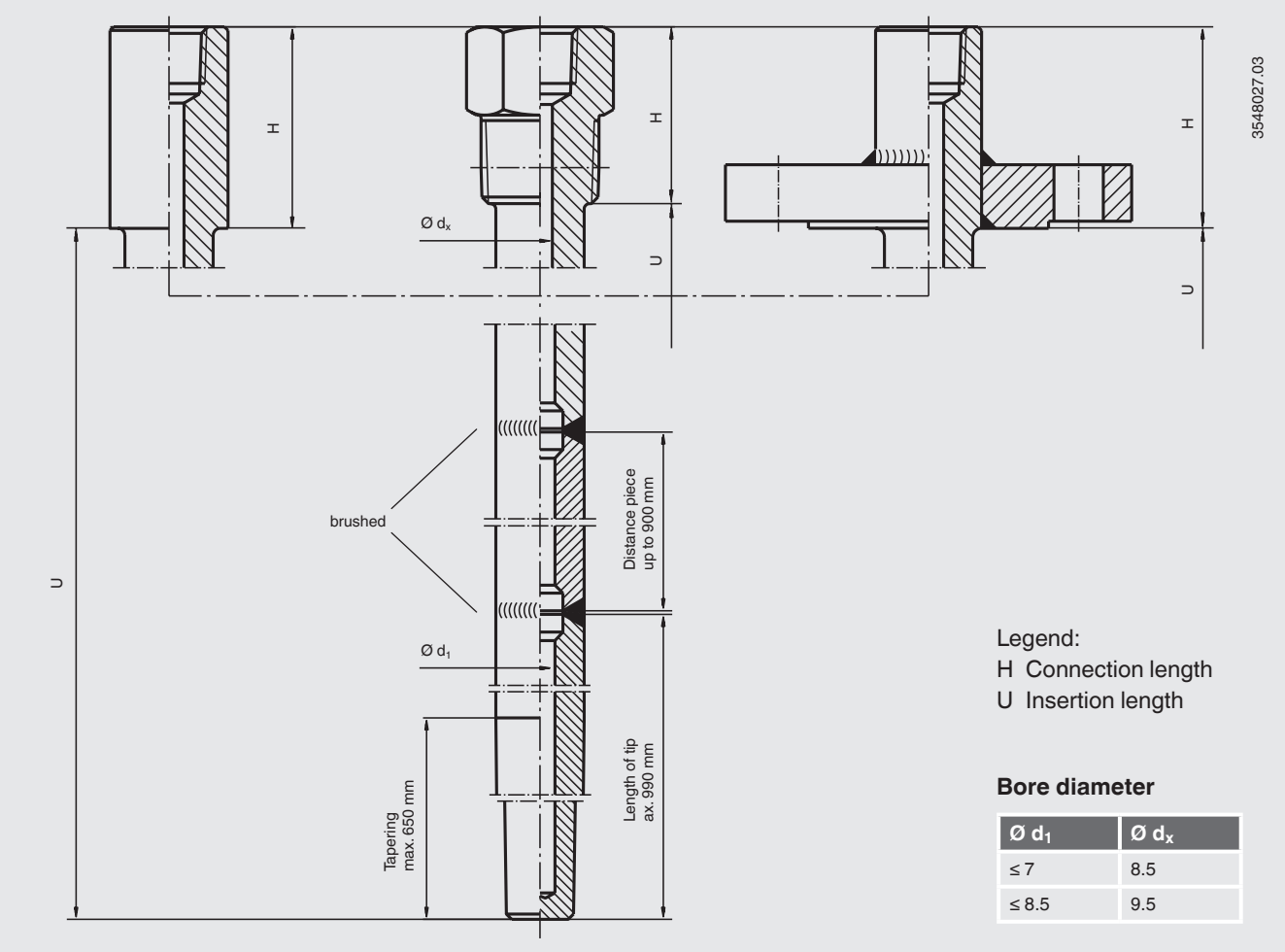
Thermowells in special lengths are made by welding several solid-drilled individual components. The thermowell has a straight profile with a tapered tip and steped bore design in order to reduce the response times. The welded joint between the individual thermowell components is certified to ASME Sec. IX.

Tests/certificates

- Liquid penetrant test of the weld seams
- Hydrostatic pressure test up to 600 bar external pressure (max. 1.5-fold pressure rating of the flange)
- Hydrostatic pressure test up to 500 bar internal pressure for screw-in/weld-in type thermowells
- PMI (Positive Material Identification) of the individual components
- X-ray test of the weld seam
- 3.1 certificate

Part of your business

Schematic description



Bore diameter

Ø d_1	Ø d_x
≤ 7	8.5
≤ 8.5	9.5

Applicable thermowell models

Model	Data sheet
TW10	TW 95.10 TW 95.11 TW 95.12
TW15	TW 95.15
TW20	TW 95.20
TW25	TW 95.25
TW30	TW 95.30

Tolerances of lengths	
L, U < 5,000 mm	DIN ISO 27 68-C
L, U > 5,000 mm	DIN ISO 27 68-V

as well as all solid-drilled thermowells per DIN 43 772.

You can find the data sheets for the thermowells on the internet at www.wika.de.

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