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Product category 12-THD Thermocouple Assemblies for Welding with Thermowell Form 4 (Formerly D-Sleeve)



Application Examples for Thermocouple Assemblies for Welding with Thermowell Form 4 :

- Waste Recycling / Incineration
- Plant and Machine Construction
- Steel and Iron Industry
- Automobile Industry
- Chemical Industry
- **Laboratories**
- Energy Production

12-THD

Thermocouple Assemblies for Welding with Thermowell Form 4 (Formerly D-Sleeve) pursuant to DIN 43772

Thermocouple assemblies for welding (12-THD) are used in gaseous or liquid media such as air, steam, water, oil, etc. with high current speeds and pressure. The thermowell's material defines the operating temperature. Specialized assemblies for welding are suitable for up to 700 bar of pressure. The mountings of this product line are fitted with exchangeable gauge slides.

The main component is a thermowell crafted from high-grade or pressure-vessel steel, with which the thermocouple assembly is welded to the respective machine or measuring location.

Selection of the thermowell is dependent on spatial proportions at the point of installation, as well as demands as dictated by temperature, pressure, current flow and chemical attack.

Standard values for stress capacity can be found in the diagrams of DIN 43772.

In particular the question of chemical stress capacity must be examined carefully for each individual scenario. Often times, only field testing will yield authoritative information, as even minor impurities in the ambient media can have significant impact on the performance of the thermowell within the application environment.

Thermoelectric voltages and tolerances of our thermocouples and gauge slides are pursuant to DIN EN60584, class 1.





(1) Connection Head

| B (M24 x 1,5) BBK | |
|-------------------|--|
| BUS BUSH | |
| BUZ BUZH | |

2 Connection Tube Pursuant to DIN 43767

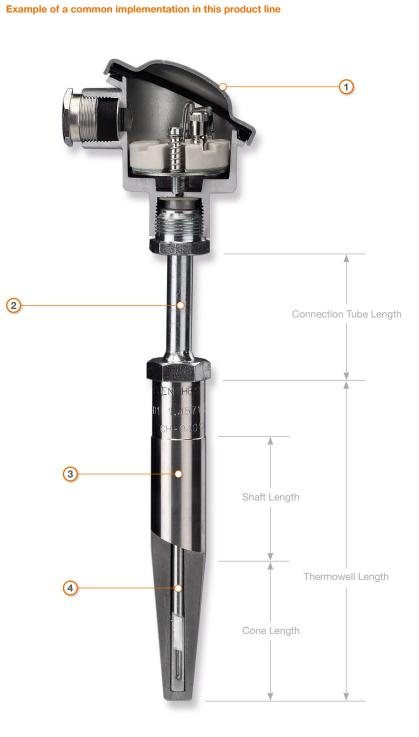
| with threading: | | |
|----------------------------------|---------------------|--|
| M24 x 1,5/M18 x 1,5 | Zinc Coated Steel | |
| M24 x 1,5/M14 x 1,5 | or High-Grade Steel | |
| also available without threading | | |

(3) Thermowell Pursuant to DIN 43772

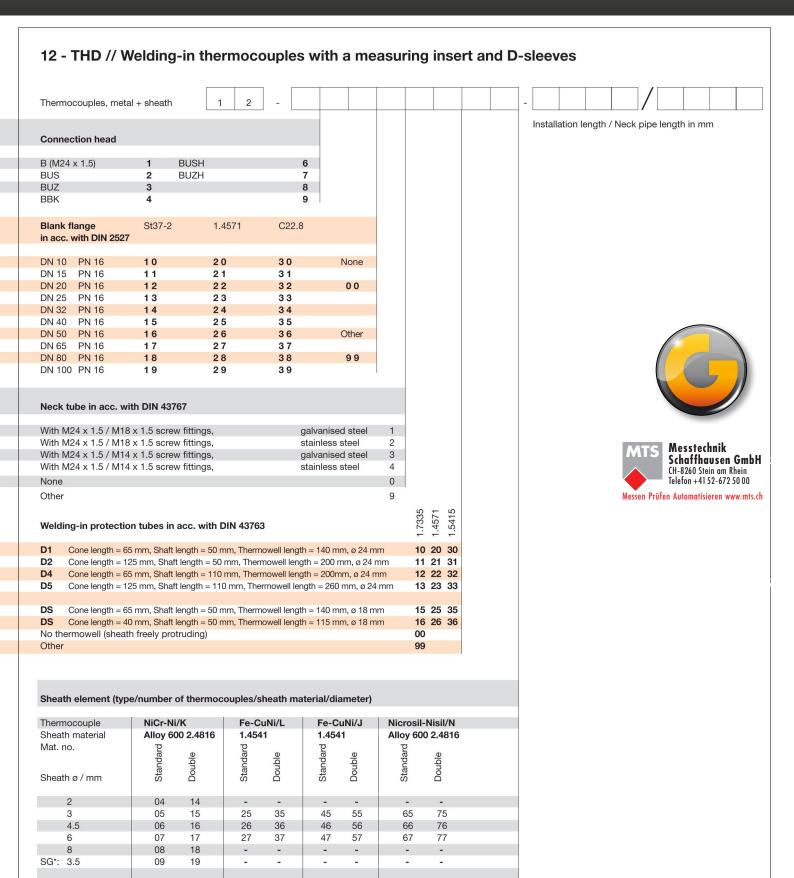
| Cone Length: | 40 - 125 mm |
|--------------------|--------------|
| Shaft Length: | 50 or 110 mm |
| Thermowell Length: | 115 - 260 mm |
| Diameter: | 18 or 24 mm |
| Material: | 1.7335 |
| | 1.4571 |
| | 1.5415 |

4 Gauge Slide

| S | Sheath Material: | Inconel 2.4816 |
|---|------------------|--------------------|
| | | Mat. No. 1.4541 |
| ٦ | Thermocouple: | NiCr-Ni / K |
| | | Fe-CuNi / L |
| | | Fe-CuNi / J |
| | | Nicrosil-Nisil / N |
| [| Diameter: | 2 - 8 mm |
| 5 | Single or Double | |



Individual Solutions such as, for example materials, process connectors, accessories, etc.not listed here, are often viable. Please contact us for further information!



* Special size/special material

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Custom designs:

х

х

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