

**THERMOWELLS, WELDED-ON PIECES, PIPE REDUCERS**



**DESCRIPTION AND APPLICATION**

Thermowells are component parts that are usually screwed in or welded in a pipe line. They protect the measuring part of the sensors against the influence of the liquid being measured. Thermowells enable the replacement of the sensors while the technological equipment is in operation.

All of the thermowell types are made of high-quality stainless steel 1.4301. They are standardly provided with the G 1/2" thread, but it is also possible to deliver them with the G 3/8", M 20 x 1.5, M 27 x 2 threads or even others if necessary.

In addition to the standard lengths listed in the catalogues, thermowells can also be manufactured in non-standard lengths.

Temperature sensors are locked in the thermowell with a M4 x 10 screw.

**Thermowells are manufactured for the nominal pressure PN 63.**

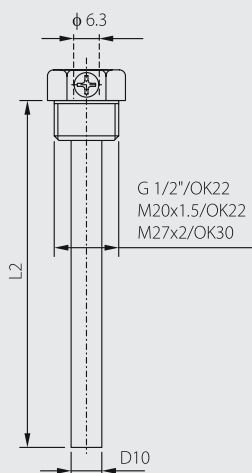


**MAXIMUM STREAM VELOCITY OF THE MEASURED MEDIUM - AIR AND WATER VAPOUR / WATER [m.s<sup>-1</sup>]**

Thermowell length (mm)	up to 60	> 60 to 100	> 100 to 160	> 160 to 220	> 220 to 400
Thermowell diameter (mm)					
Ø 6 a Ø 8	20 / 2.0	15 / 1.5	8.0 / 1.0	2.5 / 0.6	0.6 / 0.3
Ø 10 a Ø 12	35 / 3.5	30 / 3.0	15 / 2.0	5.0 / 1.2	1.6 / 0.8

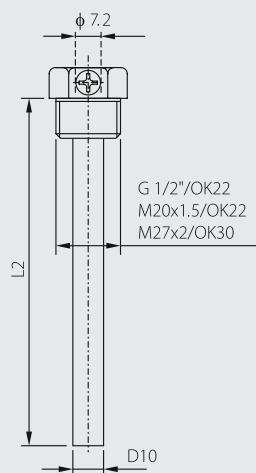
**DIMENSIONAL DRAFTS OF THE THERMOWELLS**

**JS 130 thermowell**



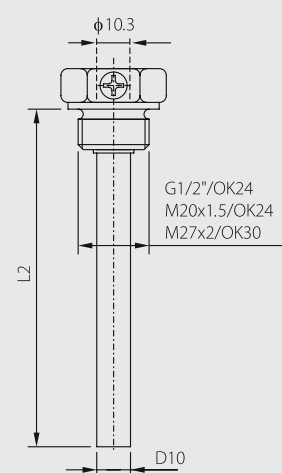
**Application:** Stem temperature sensors, temperature sensors with a metal head, PTS 580P, PTS 580K  
**L2 standard lengths:** 50, 100, 160, 220, 280, 340, 400 mm  
**Maximum diameter of the stem:** 6.2 mm

**JS 130B thermowell**



**Application:** Stem temperature sensors, temperature sensors with a metal head, PTS 580P, PTS 580K  
**L2 standard lengths:** 50, 100, 160, 220 mm  
**Maximum diameter of the stem:** 7.0 mm

**JPTS 41 thermowell**



**Application:** Platinum temperature sensors for temperatures up to 400 °C: PTS 41, PTS 43, PTS 45, PTS 51, PTS 81  
**L2 standard lengths:** 50, 100, 160, 220, 280, 400 mm  
**Maximum diameter of the stem:** 7.0 mm

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**JTP 11 thermowell**

**Application:** TP 11 paired temperature sensors  
**L2 standard lengths:** 36, 86, 136, 176 mm  
**Maximum diameter of the stem:** 5.8 mm

**JTP 16 thermowell**

**Application:** TP 16 paired temperature sensors  
**L2 standard lengths:** 105, 140, 230 mm  
**Maximum diameter of the stem:** 6.0 mm

**JTG 8 thermowell**

**Application:** Temperature sensing elements mounted in case TG 8  
**L2 standard lengths:** 40, 60, 80, 100 mm  
**Maximum diameter of the stem:** 5.8 mm

**JTP 15 thermowell**

**Application:** TP 15 paired temp. sensors  
**L2 standard lengths:** 65, 105, 140, 230 mm  
**Inside diameter:** 6.000–6.048 mm  
 (tolerances according to EN 1434)

**J001 thermowell**

**Application:** 8 mm diameter temperature sensors  
**L2 standard lengths:** 65, 105, 165 mm  
**Maximum diameter of the stem:** 9 mm

**J010 thermowell**

**Application:** for food-industry, for ex. for the sensors PTS 580P, PTS 580K  
**L2 standard lengths:** 110, 170, 250 mm  
**Maximum diameter of the stem:** 6.3 mm

**Thermowell for resistance temperature sensors up to 600 °C from material stainless steel 1.4541**

**JPTS 641 thermowell**

**Application:** Platinum temperature sensors for temperatures up to 600 °C with IP 68: PTS 641, PTS 645, PTS 651  
**Material:** stainless steel 1.4541  
**L2 standard lengths:** 50, 100, 160, 220, 280, 400 mm  
**Maximum diameter of the stem:** 7 mm

**DIMENSIONAL DRAFTS OF THE WELDED-ON PIECES AND PIPE REDUCERS**

direct welded-on piece  
 – stainless steel 1.4301  
 – iron 11353

skew welded-on piece  
 – stainless steel 1.4301  
 – iron 11353

reducer – iron 11120