

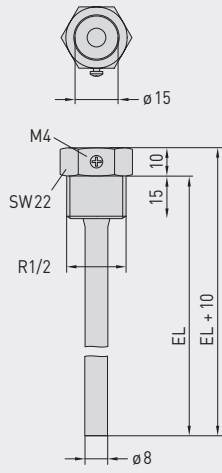
## THERMASGARD® THR

Immersion sleeves made of stainless steel or brass, nickel-plated /galvanised, for temperature controllers ETR (Thor 2)



S+S REGELTECHNIK

Dimensional drawing **THR -MS-08 /xx**

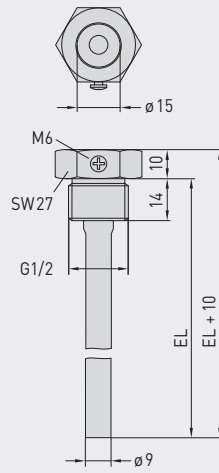


### THR-MS-08 /xx

Immersion sleeve, nickel-plated brass /galvanised

thread-sealing, conical, according to DIN 10226

Dimensional drawing **THR -VA-09 /xx**

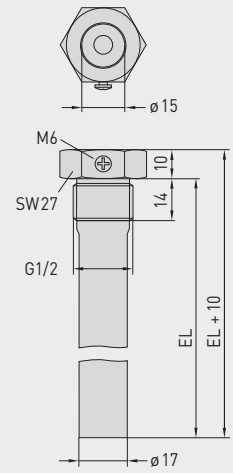


### THR-VA-09 /xx

Immersion sleeve, stainless steel V4A (1.4571)

flat sealing, cylindrical, according to DIN 228

Dimensional drawing **THR -VA-17 /xx**



### THR-VA-17 /xx

Immersion sleeve, stainless steel V4A (1.4571)

flat sealing, cylindrical, according to DIN 228

#### When Copper and Zinc are Not Enough

Uncompromising quality and safety are also paramount in the design of the accessory from S+S. This is why our metal immersion sleeves for duct sensors are made using either nickel plated brass or stainless steel. Brass is an alloy consisting mainly of copper and zinc, which provide good forming and machining properties, mechanical strength, temperature resistance and electrical conductivity.

In contrast to conventional products in the market, however, our brass immersion sleeves feature an additional nickel coating. This ensures their longterm corrosion resistance in minor aggressive media, from air and water to alkaline solutions and diluted acids. At the same time, the nickel layer prevents ingredients in thermally conductive compounds from stripping the copper and causing pitting.

Highest protection against corrosion is provided by immersion sleeves made of stainless steel. Among the available qualities, we chose VA 1.4571 or AISI 316 Ti, a high-grade austenite specialty combining chromium, nickel and molybdenum with an extra titanium content. The alloy has a proven fit particularly in the design of chemical process equipment and technical instruments as well as in waste gas and water treatment. Its corrosion resistance also includes chlorides or salts and more aggressive acids, such as hydrochloric acid (HCl).

#### THERMASGARD® THR Immersion sleeve Ø 8 / 9 / 17 mm for THERMASREG® ETR (Thor 2)

Type / WG01	p <sub>max</sub> (static)	T <sub>max</sub>	Time Constant for Medium:			Inserted Length (EL)	Item No. Ø	Price
			Air	Water	Oil			
<b>THR-MS-08 /xx</b>	<b>Brass nickel-plated /galvanised</b>						<b>Ø 8 x 0.5 mm</b>	
THR-MS-08/100	10 bar	+150 °C	106 s	18 s	53 s	<b>100 mm</b>	7100-0011-3022-000	<b>16,52 €</b>
THR-MS-08/150	10 bar	+150 °C	106 s	18 s	53 s	<b>150 mm</b>	7100-0011-3404-000	<b>16,66 €</b>
THR-MS-08/200	10 bar	+150 °C	106 s	18 s	53 s	<b>200 mm</b>	7100-0011-3403-000	<b>19,78 €</b>
<b>THR-VA-09 /xx</b>	<b>Stainless steel V4A (1.4571)</b>						<b>Ø 9 x 1.0 mm</b>	
THR-VA-09/100	25 bar	+150 °C	92 s	17 s	41 s	<b>100 mm</b>	7100-0012-3022-000	<b>42,55 €</b>
THR-VA-09/150	25 bar	+150 °C	92 s	17 s	41 s	<b>150 mm</b>	7100-0012-3032-000	<b>43,91 €</b>
THR-VA-09/200	25 bar	+150 °C	92 s	17 s	41 s	<b>200 mm</b>	7100-0012-3042-000	<b>47,05 €</b>
<b>THR-VA-17 /xx</b>	<b>Stainless steel V4A (1.4571)</b>						<b>Ø 17 x 1.0 mm</b>	
THR-VA-17/150	25 bar	+150 °C	-	45 s	55 s	<b>150 mm</b>	7100-0012-3033-000	<b>43,91 €</b>
THR-VA-17/200	25 bar	+150 °C	-	45 s	55 s	<b>200 mm</b>	7100-0012-3404-000	<b>47,05 €</b>
Ordering example:	THR-MS-08 / <b>100</b> (Brass immersion sleeve, Ø = 8 mm, <b>EL = 100 mm</b> ) THR-VA-09 / <b>150</b> (Stainless steel immersion sleeve, Ø = 9 mm, <b>EL = 150 mm</b> ) THR-VA-17 / <b>200</b> (Stainless steel immersion sleeve, Ø = 17 mm, <b>EL = 200 mm</b> )							
Note:	inner diameter of socket 15.0 mm							

**INSTRUCTIONS FOR PLANNING AND INSTALLATION**

The approaching flow causes the protective tube to vibrate.

If the specified approach velocity is exceeded even by a marginal amount, a negative impact on the protective tube's service life may result (material fatigue).

Please observe permissible approach velocities for stainless steel protective tubes (see graph **THR-VA**) as well as for brass protective tubes (see graph **THR-MS**).

Discharge of gases and pressure surges must be avoided as they have a negative influence on the service life and may damage the protective tubes irreparably.

**MIXING SECTION**

After the mixing of water flows of different temperatures, the issue of temperature stratification means that an adequate distance to the sensor must be observed.

