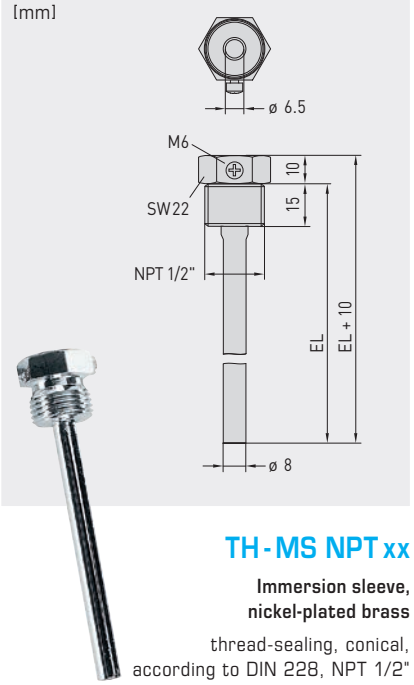
THERMASGARD® TH NPT xx

Immersion sleeves made of stainless steel or brass, nickel-plated for temperature sensors and measuring transducers TF 54 / TM 54 (form B)

S+S REGELTECHNIK

Dimensional drawing [mm] **TH-MS NPT xx**

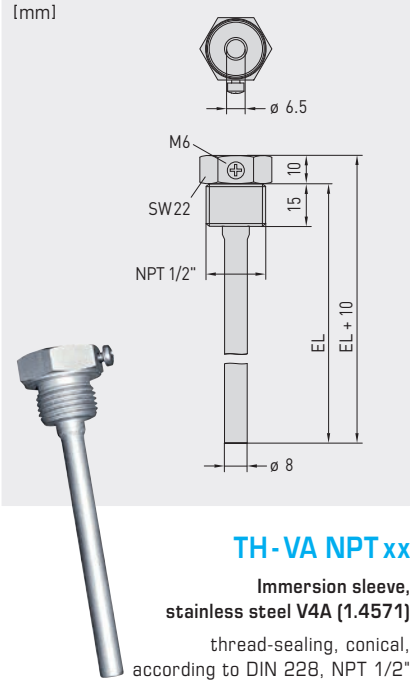


TH-MS NPT xx

Immersion sleeve, nickel-plated brass

thread-sealing, conical, according to DIN 228, NPT 1/2"

Dimensional drawing [mm] **TH-VA NPT xx**

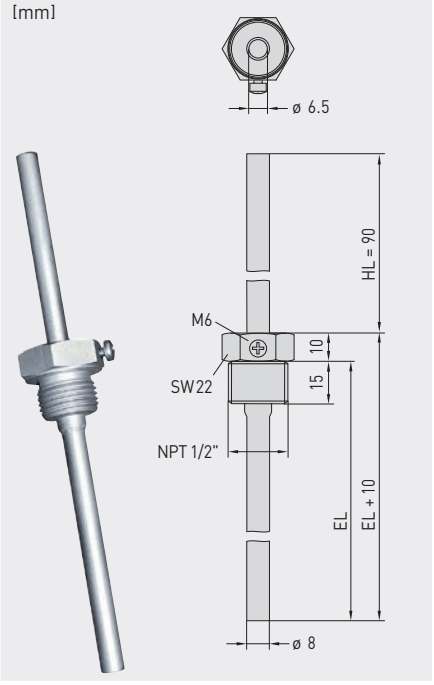


TH-VA NPT xx

Immersion sleeve, stainless steel V4A (1.4571)

thread-sealing, conical, according to DIN 228, NPT 1/2"

Dimensional drawing [mm] **TH-VA NPT xx+4in**



TH-VA NPT xx+4 in

Immersion sleeve, stainless steel V4A (1.4571) with neck tube

thread-sealing, conical, according to DIN 228, NPT 1/2"

THERMASGARD® TH NPT xx Immersion sleeve, Ø 8 mm, NPT 1/2"

Type / WG01	p_{max} (static)	T_{max}	Inserted length (EL)	Item No.	Price
TH-MS NPT xx	**Brass nickel-plated**			**Ø 8** x 0.75 mm	
TH-MS NPT 2in	10 bar	+150 °C	**1.97 in** / 50 mm	7100-0011-0010-231	**22,35 €**
TH-MS NPT 4in	10 bar	+150 °C	**3.94 in** / 100 mm	7100-0011-0020-231	**27,96 €**
TH-MS NPT 6in	10 bar	+150 °C	**5.91 in** / 150 mm	7100-0011-0030-231	**35,17 €**
TH-MS NPT 8in	10 bar	+150 °C	**7.87 in** / 200 mm	7100-0011-0040-231	**41,15 €**
TH-MS NPT 10in	10 bar	+150 °C	**9.84 in** / 250 mm	7100-0011-0050-231	**49,59 €**
TH-MS NPT 12in	10 bar	+150 °C	**11.81 in** / 300 mm	7100-0011-0060-231	**56,80 €**
TH-MS NPT 14in	10 bar	+150 °C	**13.78 in** / 350 mm	7100-0011-0070-231	**64,01 €**
TH-MS NPT 16in	10 bar	+150 °C	**15.75 in** / 400 mm	7100-0011-0080-231	**71,22 €**
TH-VA NPT xx	**Stainless steel V4A (1.4571)**			**Ø 8** x 0.75 mm	
TH-VA NPT 2in	40 bar	+600 °C	**1.97 in** / 50 mm	7100-0012-0010-231	**41,05 €**
TH-VA NPT 4in	40 bar	+600 °C	**3.94 in** / 100 mm	7100-0012-0020-231	**46,20 €**
TH-VA NPT 6in	40 bar	+600 °C	**5.91 in** / 150 mm	7100-0012-0030-231	**51,35 €**
TH-VA NPT 8in	40 bar	+600 °C	**7.87 in** / 200 mm	7100-0012-0040-231	**74,31 €**
TH-VA NPT 10in	40 bar	+600 °C	**9.84 in** / 250 mm	7100-0012-0050-231	**79,46 €**
TH-VA NPT 12in	40 bar	+600 °C	**11.81 in** / 300 mm	7100-0012-0060-231	**84,61 €**
TH-VA NPT 14in	40 bar	+600 °C	**13.78 in** / 350 mm	7100-0012-0070-231	**89,76 €**
TH-VA NPT 16in	40 bar	+600 °C	**15.75 in** / 400 mm	7100-0012-0080-231	**94,91 €**
TH-VA NPT xx+4in	**Stainless steel V4A (1.4571) with neck tube** (HL = 90 mm)			**Ø 8** x 0.75 mm	
TH-VA NPT 2+4in	40 bar	+600 °C	**1.97 in** / 50 mm	7100-0012-2010-231	**50,32 €**
TH-VA NPT 4+4in	40 bar	+600 °C	**3.94 in** / 100 mm	7100-0012-2020-231	**55,47 €**
TH-VA NPT 6+4in	40 bar	+600 °C	**5.91 in** / 150 mm	7100-0012-2030-231	**66,95 €**
TH-VA NPT 8+4in	40 bar	+600 °C	**7.87 in** / 200 mm	7100-0012-2040-231	**83,58 €**
TH-VA NPT 10+4in	40 bar	+600 °C	**9.84 in** / 250 mm	7100-0012-2050-231	**88,73 €**
TH-VA NPT 12+4in	40 bar	+600 °C	**11.81 in** / 300 mm	7100-0012-2060-231	**93,88 €**
Note	Inner diameter of socket: 6.5 mm				

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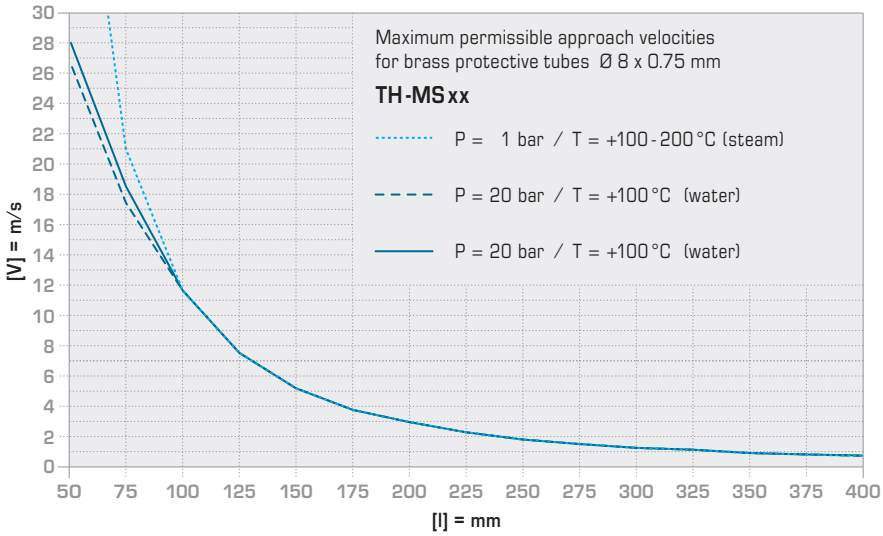
INSTRUCTIONS FOR PLANNING AND INSTALLATION

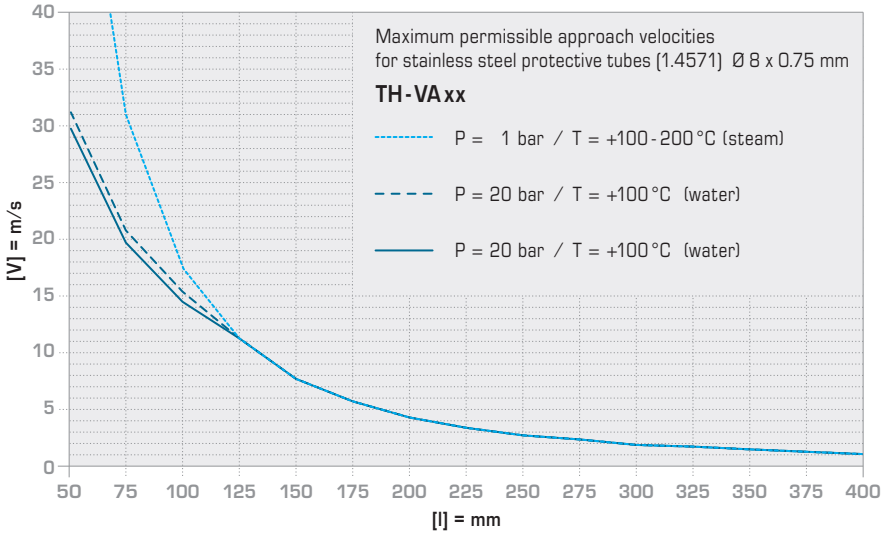
The approaching flow causes the protective tube to vibrate.

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 **TH-VA**) as well as for brass protective tubes (see graph **TH-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.

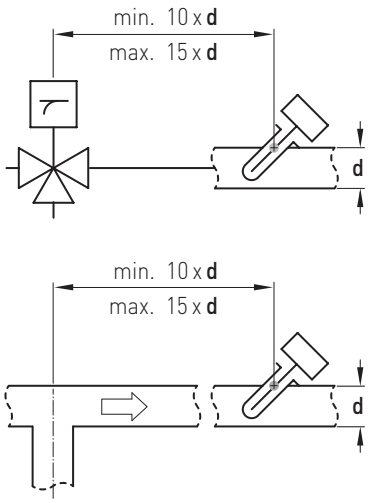




MIXING SECTION

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.

Mixing section **TH**



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 / 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).

Installation scheme **TH**