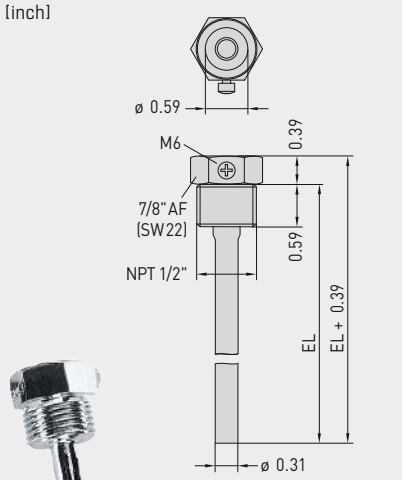
THERMASGARD® TH 08 xx in (NPT)

Immersion sleeves made of stainless steel or brass, nickel-plated, for temperature sensors and measuring transducers
TF 43, TM 43, TF 65, TM 65, TM 65-Modbus (Tyr 1)

S+S REGELTECHNIK

Dimensional drawing [inch] **TH 08-MS xx in**

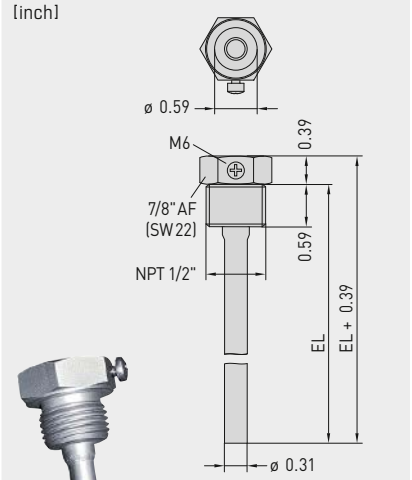


TH 08-MS xx in

Immersion sleeve, nickel-plated brass

thread-sealing, conical, according to ANSI B1.20.1, NPT 1/2"

Dimensional drawing [inch] **TH 08-VA xx in**

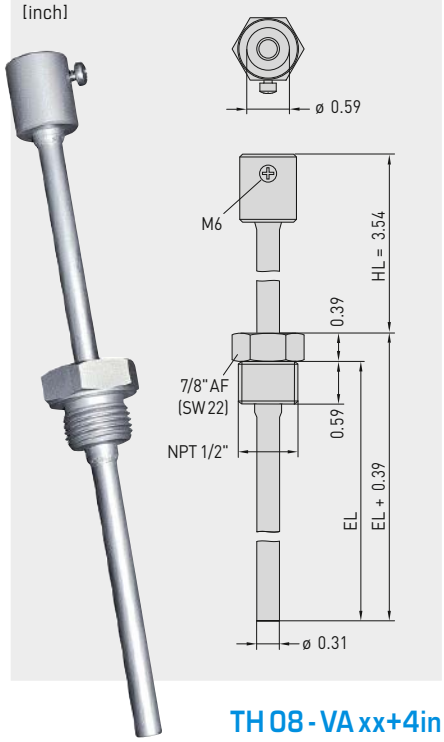


TH 08-VA xx in

Immersion sleeve, stainless steel AISI 316 Ti

thread-sealing, conical, according to ANSI B1.20.1, NPT 1/2"

Dimensional drawing [inch] **TH 08-VA xx+4in**



TH 08-VA xx+4in

Immersion sleeve, stainless steel AISI 316 Ti with neck tube

thread-sealing, conical, according to ANSI B1.20.1, NPT 1/2"

THERMASGARD® TH 08 xx in (NPT) Immersion sleeve, Ø 0.31 in, NPT 1/2"

Type / WG01	p_{max} (static)	T_{max}	Inserted length (EL)	Item No.	Price USD
TH 08-MS xx in	**Brass nickel-plated**			**Ø 0.31** x 0.03 in	
TH08-MS 2in	145 psi	+302 °F	**1.97 in** / 50 mm	7100-0011-0010-234	**10.64 $**
TH08-MS 4in	145 psi	+302 °F	**3.94 in** / 100 mm	7100-0011-0020-234	**12.12 $**
TH08-MS 6in	145 psi	+302 °F	**5.91 in** / 150 mm	7100-0011-0030-234	**12.80 $**
TH08-MS 8in	145 psi	+302 °F	**7.87 in** / 200 mm	7100-0011-0040-234	**13.21 $**
TH08-MS 10in	145 psi	+302 °F	**9.84 in** / 250 mm	7100-0011-0050-234	**15.30 $**
TH08-MS 12in	145 psi	+302 °F	**11.81 in** / 300 mm	7100-0011-0060-234	**15.72 $**
TH08-MS 14in	145 psi	+302 °F	**13.78 in** / 350 mm	7100-0011-0070-234	**15.85 $**
TH08-MS 16in	145 psi	+302 °F	**15.75 in** / 400 mm	7100-0011-0080-234	**16.00 $**
TH 08-VA xx in	**Stainless steel AISI 316 Ti**			**Ø 0.31** x 0.03 in	
TH08-VA 2in	580 psi	+1112 °F	**1.97 in** / 50 mm	7100-0012-0010-234	**23.17 $**
TH08-VA 4in	580 psi	+1112 °F	**3.94 in** / 100 mm	7100-0012-0020-234	**25.61 $**
TH08-VA 6in	580 psi	+1112 °F	**5.91 in** / 150 mm	7100-0012-0030-234	**27.52 $**
TH08-VA 8in	580 psi	+1112 °F	**7.87 in** / 200 mm	7100-0012-0040-234	**29.00 $**
TH08-VA 10in	580 psi	+1112 °F	**9.84 in** / 250 mm	7100-0012-0050-234	**36.06 $**
TH08-VA 12in	580 psi	+1112 °F	**11.81 in** / 300 mm	7100-0012-0060-234	**37.68 $**
TH08-VA 14in	580 psi	+1112 °F	**13.78 in** / 350 mm	7100-0012-0070-234	**37.93 $**
TH08-VA 16in	580 psi	+1112 °F	**15.75 in** / 400 mm	7100-0012-0080-234	**38.60 $**
TH 08-VA xx+4in	**Stainless steel AISI 316 Ti with neck tube** (4 in)			**Ø 0.31** x 0.03 in	
TH08-VA 2+4in	580 psi	+1112 °F	**1.97 in** / 50 mm	7100-0012-0012-234	**33.19 $**
TH08-VA 4+4in	580 psi	+1112 °F	**3.94 in** / 100 mm	7100-0012-0022-234	**34.68 $**
TH08-VA 6+4in	580 psi	+1112 °F	**5.91 in** / 150 mm	7100-0012-0032-234	**36.38 $**
TH08-VA 8+4in	580 psi	+1112 °F	**7.87 in** / 200 mm	7100-0012-0042-234	**37.93 $**
TH08-VA 10+4in	580 psi	+1112 °F	**9.84 in** / 250 mm	7100-0012-0052-234	**39.76 $**
TH08-VA 12+4in	580 psi	+1112 °F	**11.81 in** / 300 mm	7100-0012-0062-234	**43.09 $**
Note	Inner diameter of socket: 0.59 in				

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TF 43, TM 43, TF 65, TM 65, TM 65-Modbus (Tyr 1)

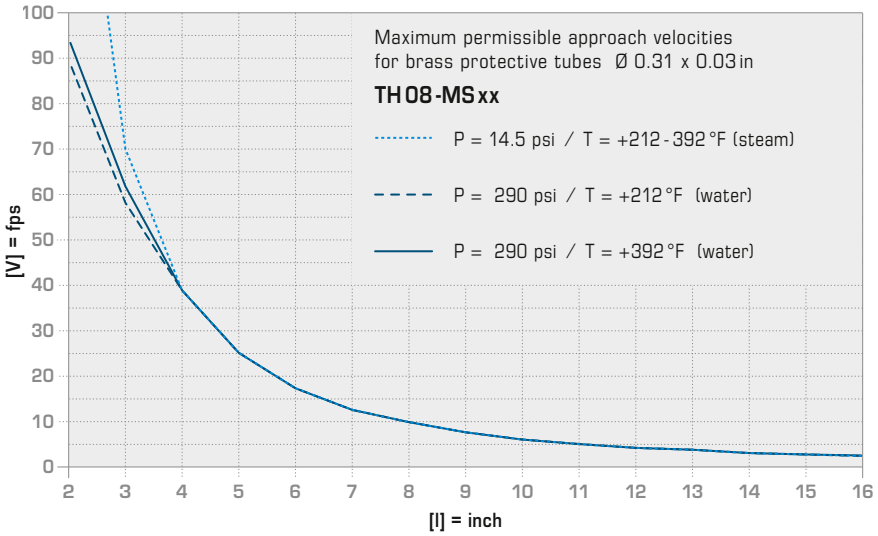
INSTRUCTIONS FOR PLANNING AND INSTALLATION

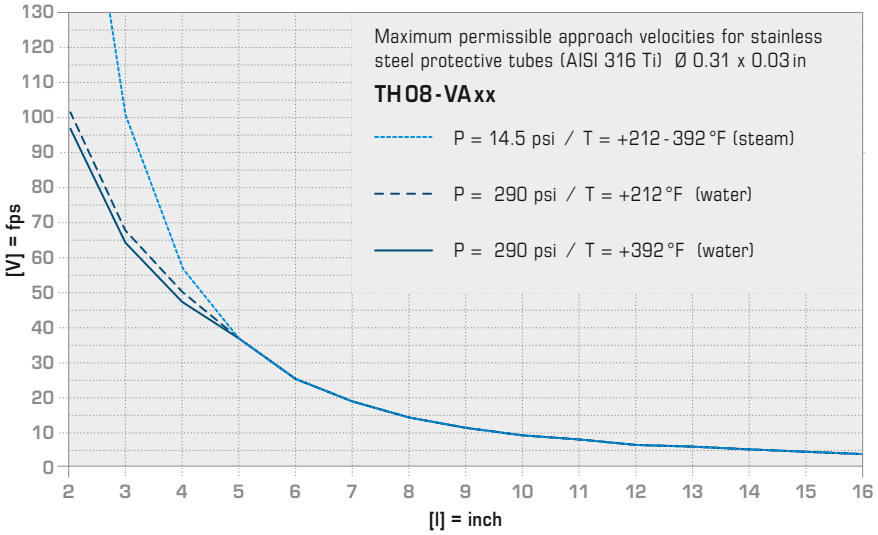
The approaching flow causes the protective tube to vibrate.

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 **TH08-VA**) as well as for brass protective tubes (see graph **TH08-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.

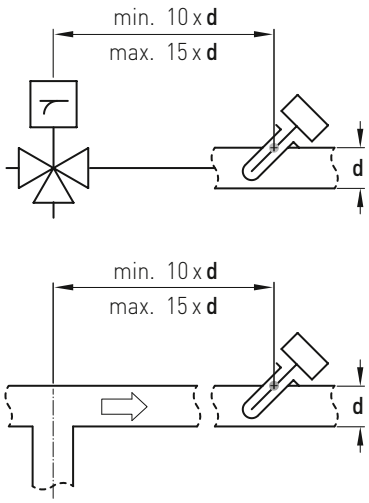




MIXING SECTION

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 **TH08**



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 **TH08**