

# Special Stems for Gas-actuated Thermometers

Stem without bent tube

Connection screw fitting adjustable at the capillary line

A2/A7

A7.1

## Application

For difficult installation conditions and overlong thermowells.

## Standard Versions

For thermometers, with capillary line ① between thermometer and vessel ② (active length  $L_a$ ), connection screw fitting ③ turnable and adjustable at the capillary line, capillary line wetted, if applicable.

## Temperature Sensor (Vessel)

Made of stainless steel 316Ti (1.4571)  
Stem models optionally: A2, A7 or A7.1

## Stem $\varnothing$ dF

8, 10 or 12 mm

## Capillary Line

Stainless steel,  $\varnothing$  2 mm

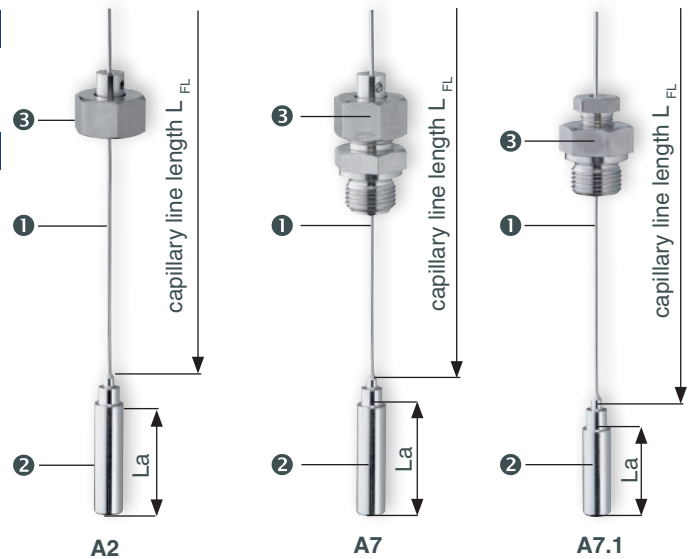
Buckle protection to thermometer case

## Capillary Line Length

$L_{FL}$  = 1 m to 15 m

## Material Connection Screw Fitting

Stainless steel 316Ti (1.4571)



## Options

- Other connection threads upon request
- Other stem (vessel) diameters upon request
- Capillary line > 15 m upon request

Stem Model:	A2	A7	A7.1																																																																																										
Process connection:	Union nut lateral retaining screw	Male thread, turnable/double male adapter lateral retaining screw	Male thread, clamping connection at capillary line																																																																																										
Specifics:	not sealing if applied without thermowell, only for unpressurised media	not sealing if applied without thermowell, only for unpressurised media	clamping ring FPM (Viton®) medium temperature: max. 180 °C																																																																																										
Order length:	$L_{FL}$	$L_{FL}$	$L_{FL}$																																																																																										
P max.:	unpressurised	unpressurised	1.5 bar																																																																																										
Suitable thermowell models: (data sheet)	SF4.1 (8.8111) SF4.1F (8.8113) SF8 (8.8130) SF9 (8.8131)	SF4 (8.8110) SF4F (8.8112) SF5 (8.8120) SF6, SF7 (8.8121)	SF4 (8.8110) SF4F (8.8112) SF5 (8.8120) SF6, SF7 (8.8121)																																																																																										
Thread (dimensional data in mm):	<table border="1"> <thead> <tr> <th>G</th> <th>SW</th> <th>i</th> </tr> </thead> <tbody> <tr> <td>G 1/2</td> <td>27</td> <td>10</td> </tr> <tr> <td>G 3/4</td> <td>32</td> <td>12</td> </tr> <tr> <td>M20x1.5</td> <td>27</td> <td>10</td> </tr> <tr> <td>M24x1.5</td> <td>32</td> <td>12</td> </tr> <tr> <td>M27x2</td> <td>32</td> <td>12</td> </tr> </tbody> </table>	G	SW	i	G 1/2	27	10	G 3/4	32	12	M20x1.5	27	10	M24x1.5	32	12	M27x2	32	12	<table border="1"> <thead> <tr> <th>G1</th> <th>G2</th> <th>SW1</th> <th>SW2</th> <th>i</th> </tr> </thead> <tbody> <tr> <td>G 1/2 B</td> <td>G 1/2 B</td> <td>27</td> <td>27</td> <td>14</td> </tr> <tr> <td>G 3/4 B</td> <td>G 1/2 B</td> <td>32</td> <td>27</td> <td>16</td> </tr> <tr> <td>1/2" NPT</td> <td>G 1/2 B</td> <td>27</td> <td>27</td> <td>19</td> </tr> <tr> <td>3/4" NPT</td> <td>G 1/2 B</td> <td>27</td> <td>27</td> <td>19</td> </tr> <tr> <td>M20x1.5</td> <td>M20x1.5</td> <td>27</td> <td>27</td> <td>14</td> </tr> <tr> <td>M24x1.5</td> <td>M20x1.5</td> <td>32</td> <td>27</td> <td>14</td> </tr> <tr> <td>M27x2</td> <td>M20x1.5</td> <td>32</td> <td>27</td> <td>16</td> </tr> </tbody> </table>	G1	G2	SW1	SW2	i	G 1/2 B	G 1/2 B	27	27	14	G 3/4 B	G 1/2 B	32	27	16	1/2" NPT	G 1/2 B	27	27	19	3/4" NPT	G 1/2 B	27	27	19	M20x1.5	M20x1.5	27	27	14	M24x1.5	M20x1.5	32	27	14	M27x2	M20x1.5	32	27	16	<table border="1"> <thead> <tr> <th>G</th> <th>SW1</th> <th>SW2</th> <th>i</th> </tr> </thead> <tbody> <tr> <td>G 1/2 B</td> <td>27</td> <td>17</td> <td>14</td> </tr> <tr> <td>G 3/4 B</td> <td>32</td> <td>17</td> <td>16</td> </tr> <tr> <td>1/2" NPT</td> <td>27</td> <td>17</td> <td>19</td> </tr> <tr> <td>3/4" NPT</td> <td>27</td> <td>17</td> <td>19</td> </tr> <tr> <td>M20x1.5</td> <td>27</td> <td>17</td> <td>14</td> </tr> <tr> <td>M24x1.5</td> <td>32</td> <td>17</td> <td>14</td> </tr> <tr> <td>M27x2</td> <td>32</td> <td>17</td> <td>16</td> </tr> </tbody> </table>	G	SW1	SW2	i	G 1/2 B	27	17	14	G 3/4 B	32	17	16	1/2" NPT	27	17	19	3/4" NPT	27	17	19	M20x1.5	27	17	14	M24x1.5	32	17	14	M27x2	32	17	16
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## Active Length (mm)

Stem model:	Length:	Thread:	Capillary line including vessel $\leq$ 5 m			Capillary line including vessel > 5 m to 15 m								
			up to max. 500 °C			up to max. 500 °C								
			Stem $\varnothing$ dF:			Stem $\varnothing$ dF:								
A2/A7/A7.1	$L_a$	all standard threads	12	10	8	12	10	8	12	10	8	12	10	8
			35	45	75	75	105	165	53	80	115	150	200	320

The active length  $L_a$  is the temperature-sensitive part of the stem.