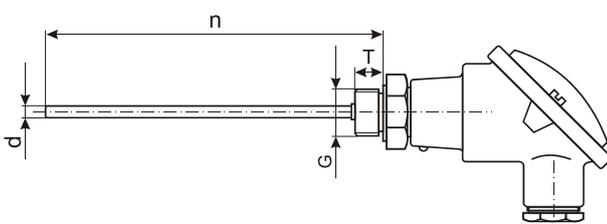
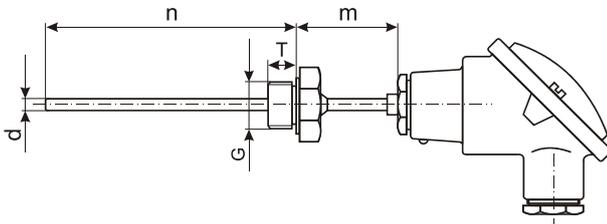
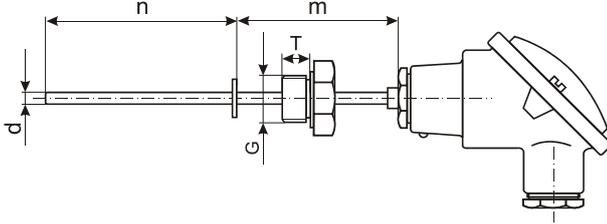
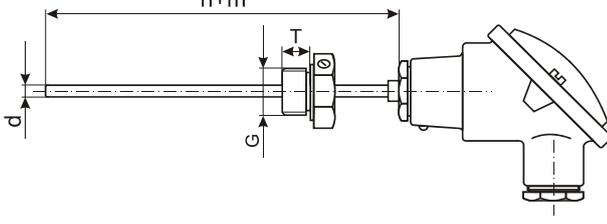
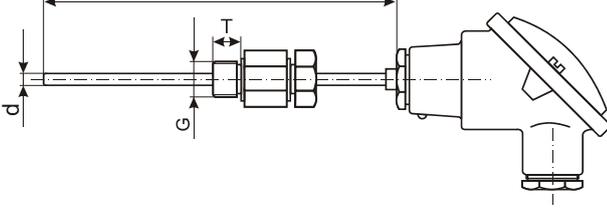


RTD PROBE WITH PROTECTION HEAD (FOR IN-HEAD TRANSMITTER)** Sheath - stainless steel (see Appendix - Sheath materials) Head - aluminum, stainless steel, iron, or plastic (see Appendix - Protection heads)	Cx (TSCx) OCx (TSOCx)	SENSITIVE ELEMENT	TEMPERATURE RANGE	DIMENSIONS																																																																																																																																																																											
				n [mm]	d [mm]	wires																																																																																																																																																																									
<b>DESIGN WITHOUT EXTENSION (C)</b>																																																																																																																																																																															
																																																																																																																																																																															
<b>EXTENDED DESIGN WITH WELDED CONNECTION (C1)</b>																																																																																																																																																																															
																																																																																																																																																																															
<b>EXTENDED DESIGN WITH MOVABLE CONNECTION (C2)</b>																																																																																																																																																																															
																																																																																																																																																																															
<b>DESIGN WITH ADJUSTABLE CONNECTION (C3)</b>																																																																																																																																																																															
																																																																																																																																																																															
<b>DESIGN WITH GLAND-TYPE CONNECTION (C4)</b>																																																																																																																																																																															
																																																																																																																																																																															
		<p><b>Regular RTD Design</b></p> <table border="1"> <tr> <td rowspan="5">1 x Pt (RB,RD,RF,RG)</td> <td>T9</td> <td>-50...200 °C</td> <td rowspan="2">50...500</td> <td>4</td> <td rowspan="2">2, 3*</td> </tr> <tr> <td>T1</td> <td>-50...400 °C</td> <td>5</td> </tr> <tr> <td>T24</td> <td>-50...500 °C</td> <td rowspan="3">50...1500</td> <td>6</td> <td>2, 3, 4*</td> </tr> <tr> <td>T11*</td> <td>-50...600 °C</td> <td rowspan="2">8, 10, 12, 14, 16, 20</td> <td>2, 3, 4</td> </tr> <tr> <td>T2*</td> <td>-200...600 °C</td> <td>6*, 8, 10</td> <td>2x2(3)*</td> </tr> <tr> <td rowspan="3">2(3) x Pt (RB,RD,RF,RG)</td> <td>T4*</td> <td>0...800 °C</td> <td rowspan="2">50...3000</td> <td>12, 14, 16, 20</td> <td>2x2(3), 3x2</td> </tr> <tr> <td>T22</td> <td>-200...200 °C</td> <td></td> <td></td> </tr> <tr> <td>1 x Cu (RH, RK)</td> <td>T9</td> <td>-50...200 °C</td> <td>50...1500</td> <td>6</td> <td rowspan="2">2, 3, 4*</td> </tr> <tr> <td></td> <td></td> <td></td> <td>50...3000</td> <td>8, 10, 12, 14, 16, 20</td> </tr> <tr> <td rowspan="2">2 x Cu (RH, RK)</td> <td rowspan="2">T9</td> <td rowspan="2">-50...200 °C</td> <td rowspan="2">50...3000</td> <td>8, 10</td> <td>2x2</td> </tr> <tr> <td>12, 14, 16, 20</td> <td>2x2(3)*</td> </tr> <tr> <td rowspan="2">1 x PTC (RP, RQ)</td> <td rowspan="2">T12</td> <td rowspan="2">-50...100 °C</td> <td>50...1500</td> <td>6</td> <td rowspan="2">2, 3</td> </tr> <tr> <td>50...3000</td> <td>8, 10, 12, 14</td> </tr> <tr> <td>2 x PTC (RP, RQ)</td> <td></td> <td></td> <td>50...3000</td> <td>8, 10, 12, 14</td> <td>2x2</td> </tr> <tr> <td colspan="7"><b>MI RTD Design</b></td> </tr> <tr> <td rowspan="5">1 x Pt (RB,RD,RF,RG)</td> <td>T9</td> <td>-50...200 °C</td> <td rowspan="5">50...50000</td> <td></td> <td>3*</td> <td>2, 3*</td> </tr> <tr> <td>T1</td> <td>-50...400 °C</td> <td>4.5</td> <td>2, 3*</td> </tr> <tr> <td>T24</td> <td>-50...500 °C</td> <td>6</td> <td>2, 3, 4*</td> </tr> <tr> <td>T11*</td> <td>-50...600 °C</td> <td>8</td> <td>2, 3, 4</td> </tr> <tr> <td>T2*</td> <td>-200...600 °C</td> <td></td> <td></td> </tr> <tr> <td rowspan="3">2 x Pt (RB,RD,RF,RG)</td> <td>T4*</td> <td>0...800 °C</td> <td rowspan="3">50...50000</td> <td>6, 8</td> <td>2x2, 2x3*</td> </tr> <tr> <td>T22</td> <td>-200...200 °C</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p><b>Protection head:</b> B, MA, MB, G, N, Cx, Dx, Ex (see Appendix - Protection heads)</p> <p><b>Process connection 'G' (nipple or union nut):</b>          - M16x1.5(Q0), M18x1.5(Q1), M20x1.5(Q2), M27x2(Q5), M33x2(Q25)          - 3/8"(Q3/Q9), 1/2"(Q4/Q10), 3/4"(Q6/Q11), 1"(Q12/Q15)          - welded or adjustable flange          - other          - w/o mounting appliances</p> <p><b>Thread length:</b>          - cylindrical thread: T = 15 mm          - NPT thread: according to ANSI B1.20.1</p> <p><b>Thermal isolation between nipple and metal head: (for TS(O)C only)</b></p> <table border="1"> <tr> <th>Protection head</th> <th>Length 'n'</th> <th>Maximum temperature</th> <th>Insulation material</th> </tr> <tr> <td>MA, MB</td> <td>up to 50 mm</td> <td rowspan="2">200 °C</td> <td rowspan="2">POM</td> </tr> <tr> <td>B</td> <td>up to 100 mm</td> </tr> <tr> <td>other</td> <td>up to 150 mm</td> <td>400 °C</td> <td>Teflon®</td> </tr> </table> <p><b>Extension length:</b> m = 0...1500 mm</p> <p><b>Extension diameter: (for TS(O)C1 and TS(O)C2 only, [mm])</b></p> <table border="1"> <tr> <th>Probe diameter 'd'</th> <th>4 mm</th> <th>5, 6 mm</th> <th>8 mm</th> <th>10 mm</th> <th>10+ mm</th> </tr> <tr> <th>Ext. length 'm'</th> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>up to 50 mm</td> <td>8</td> <td>d</td> <td>d</td> <td>d</td> <td>d</td> </tr> <tr> <td>50...150 mm</td> <td>8</td> <td>8</td> <td>d</td> <td>d</td> <td>d</td> </tr> <tr> <td>150...500 mm</td> <td>10</td> <td>10</td> <td>10</td> <td>d</td> <td>d</td> </tr> <tr> <td>500+ mm</td> <td>14</td> <td>14</td> <td>14</td> <td>14</td> <td>d</td> </tr> </table> <p><b>Tip shape:</b> standard, narrowed, pitted (see Appendix - Tip shapes)</p> <p><b>Process pressure:</b></p> <table border="1"> <tr> <th>Probe design</th> <th>C, C1</th> <th>C2</th> <th>C4</th> <th>C3</th> </tr> <tr> <td>Max. pressure *</td> <td>25 bar</td> <td>16 bar</td> <td>6 bar</td> <td>0 bar</td> </tr> </table> <p><b>Sheath material:</b> 1.4301(M1), 1.4401/1.4404(M9), 1.4541(M2), 1.4571(M3), 1.4362(M15)</p> <p><b>Wire material:</b> Cu, Ni, or Ag</p> <p><b>Accuracy class:</b> 'A', 'B', or '2xB' (see Appendix - RTD Tolerance)</p> <p>* Please contact COMECO! ** Order transmitter separately!!!</p>					1 x Pt (RB,RD,RF,RG)	T9	-50...200 °C	50...500	4	2, 3*	T1	-50...400 °C	5	T24	-50...500 °C	50...1500	6	2, 3, 4*	T11*	-50...600 °C	8, 10, 12, 14, 16, 20	2, 3, 4	T2*	-200...600 °C	6*, 8, 10	2x2(3)*	2(3) x Pt (RB,RD,RF,RG)	T4*	0...800 °C	50...3000	12, 14, 16, 20	2x2(3), 3x2	T22	-200...200 °C			1 x Cu (RH, RK)	T9	-50...200 °C	50...1500	6	2, 3, 4*				50...3000	8, 10, 12, 14, 16, 20	2 x Cu (RH, RK)	T9	-50...200 °C	50...3000	8, 10	2x2	12, 14, 16, 20	2x2(3)*	1 x PTC (RP, RQ)	T12	-50...100 °C	50...1500	6	2, 3	50...3000	8, 10, 12, 14	2 x PTC (RP, RQ)			50...3000	8, 10, 12, 14	2x2	<b>MI RTD Design</b>							1 x Pt (RB,RD,RF,RG)	T9	-50...200 °C	50...50000		3*	2, 3*	T1	-50...400 °C	4.5	2, 3*	T24	-50...500 °C	6	2, 3, 4*	T11*	-50...600 °C	8	2, 3, 4	T2*	-200...600 °C			2 x Pt (RB,RD,RF,RG)	T4*	0...800 °C	50...50000	6, 8	2x2, 2x3*	T22	-200...200 °C							Protection head	Length 'n'	Maximum temperature	Insulation material	MA, MB	up to 50 mm	200 °C	POM	B	up to 100 mm	other	up to 150 mm	400 °C	Teflon®	Probe diameter 'd'	4 mm	5, 6 mm	8 mm	10 mm	10+ mm	Ext. length 'm'						up to 50 mm	8	d	d	d	d	50...150 mm	8	8	d	d	d	150...500 mm	10	10	10	d	d	500+ mm	14	14	14	14	d	Probe design	C, C1	C2	C4	C3	Max. pressure *	25 bar	16 bar	6 bar	0 bar
1 x Pt (RB,RD,RF,RG)	T9	-50...200 °C	50...500	4	2, 3*																																																																																																																																																																										
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1 x Pt (RB,RD,RF,RG)	T9	-50...200 °C	50...50000		3*	2, 3*																																																																																																																																																																									
	T1	-50...400 °C		4.5	2, 3*																																																																																																																																																																										
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2 x Pt (RB,RD,RF,RG)	T4*	0...800 °C	50...50000	6, 8	2x2, 2x3*																																																																																																																																																																										
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Probe diameter 'd'	4 mm	5, 6 mm	8 mm	10 mm	10+ mm																																																																																																																																																																										
Ext. length 'm'																																																																																																																																																																															
up to 50 mm	8	d	d	d	d																																																																																																																																																																										
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Max. pressure *	25 bar	16 bar	6 bar	0 bar																																																																																																																																																																											

COMECO reserves the right of changing specifications without prior notice!

**Ordering code** TS\*(1,2,3,4) - G0.G1G2.G3.G4.G6.G7.G9'9".G10.G11.G12.G13.G14 - #1.#2

Code	Feature or option	Code values	
*	Base model variant	<b>C</b> - standard (w/ terminal block), <b>OC</b> - prepared for in-head transmitter (w/o terminal block)	
G0	Protection head	<b>B</b> - type "B", <b>CC</b> - type "CC", <b>CS</b> - type "CS", <b>D</b> - type "D", <b>DH</b> - type "DH", <b>DHW</b> - type "DHW", <b>DW</b> - type "DW", <b>E</b> - type "E", <b>EG</b> - type "EG", <b>EGS</b> - type "EGS", <b>EGW</b> - type "EGW", <b>ES</b> - type "ES", <b>G</b> - type "G", <b>MA</b> - type "MA", <b>MB</b> - type "MB", <b>N</b> - type "N"	
G1	Number of RTD sensors	<b>1, 2, or 3</b> <sup>(9)</sup>	
G2	Sensor	<b>RB</b> - Pt50, <b>RD</b> - Pt100, <b>RF</b> - Pt500, <b>RG</b> - Pt1000, <b>RH</b> - Cu50, <b>RK</b> - Cu100, <b>RP</b> - PTC 1k, <b>RQ</b> - PTC 2k	
G3	Temperature range	<b>T1</b> - -50...400 °C, <b>T2</b> - -200...600 °C (Ni or Ag wires only!), <b>T4</b> - 0...800 °C (Ag wires only!), <b>T9</b> - -50...200 °C, <b>T11</b> - -50...600 °C (Ni or Ag wires only!), <b>T22</b> - -200...200 °C, <b>T24</b> - -50...500 °C	
G4	Diameter 'd' [mm]	regular RTD	<b>4, 5, 6, 8, 10, 12, 14, 16, 20</b>
		MI RTD	<b>3</b> <sup>(9)</sup> , <b>4.5, 6, 8</b>
G6	Probe length 'n' [mm] <sup>(1)</sup>	<b>50...50000</b> (see table overleaf)	
G7	Probe length 'm' [mm] <sup>(2)</sup>	<b>0...1500</b>	
G9'	Mounting connection	<b>X</b> - no mounting appliances <sup>(3)</sup> , <b>Q0</b> - M16x1.5, <b>Q1</b> - M18x1.5, <b>Q2</b> - M20x1.5, <b>Q3</b> - G3/8", <b>Q4</b> - G1/2", <b>Q5</b> - M27x2, <b>Q6</b> - G3/4", <b>Q9</b> - 3/8" NPT, <b>Q10</b> - 1/2" NPT, <b>Q11</b> - 3/4" NPT, <b>Q12</b> - G1", <b>Q15</b> - 1" NPT, <b>Q25</b> - M33x2, <b>Uxx</b> - union nut (xx - same as for Qxx), <b>F</b> - flange (specify!), <b>Z</b> - other connection (specify!)	
G9"	Compression fitting ferrule <sup>(4)</sup>	<b>BR</b> - brass, <b>GR</b> - graphite, <b>SS</b> - stainless steel, <b>TF</b> - Teflon®	
G10	Sheath material (wetted parts)	regular RTD	<b>M1</b> - 1.4301, <b>M2</b> - 1.4541, <b>M3</b> - 1.4571, <b>M9</b> - 1.4401 (1.4404), <b>M15</b> - 1.4362 <sup>(9)</sup>
		MI RTD	<b>M1</b> - 1.4301, <b>M2</b> - 1.4541, <b>M3</b> - 1.4571, <b>M9</b> - 1.4401 (1.4404)
G11	Accuracy class	<b>X</b> - none <sup>(5)</sup> , <b>A</b> - 'A', <b>B</b> - 'B', <b>C</b> - '2xB'	
G12	Number of wires	<b>2, 3, 4</b>	
G13	Wire material <sup>(6)</sup>	<b>CU</b> - copper, <b>NI</b> - nickel, <b>AG</b> - silver <sup>(7)</sup>	
G14	Tip shape	<b>X</b> - standard closed, <b>N</b> - narrowed <sup>(7)</sup> , <b>P</b> - pitted <sup>(7)</sup>	
#1	Options	<b>X</b> - none, <b>OV</b> - vibration proof (spring terminals, MgO or Silicone filled, secured screws) <sup>(7)</sup> , <b>OT</b> - thermal isolation <sup>(3)</sup> , <b>OP</b> - electrochemically polished wetted parts <sup>(7)</sup>	
#2	Local indicator	<b>X</b> - none, <b>A</b> - local indicator mounted <sup>(8)</sup>	

<sup>(1)</sup> 'n+m' for TS(O)C3 and TS(O)C4!

<sup>(2)</sup> Only for TS(O)C1 and TS(O)C2!

<sup>(3)</sup> Only for TS(O)C!

<sup>(4)</sup> Only for TS(O)C4!

<sup>(5)</sup> For non-Pt sensors

<sup>(6)</sup> Only for Pt sensors!

<sup>(7)</sup> Only for non-MI (regular) sheath types!

<sup>(8)</sup> With windowed head only! See indicator datasheets and order separately!

<sup>(9)</sup> Contact COMECO!

T/C PROBE WITH PROTECTION HEAD (FOR IN-HEAD TRANSMITTER)** Sheath - stainless steel (see Appendix - Sheath materials) Head - aluminum, stainless steel, iron, or plastic (see Appendix - Protection heads)	Cx (TSCx) OCx (TSOCx)	SENSITIVE ELEMENT	TEMPERATURE RANGE	DIMENSIONS																														
				n [mm]	d [mm]	wires																												
<b>DESIGN WITHOUT EXTENSION (C)</b>		Regular Thermocouple Design																																
	1(2) x J 1(2) x L	T4 0...800 °C	50...1500 50...3000	6 8, 10, 12, 14, 16, 20, 22	2 (2x2)																													
	1(2) x K	T3 0...850 °C T16 0...1100 °C T6* 0...1150 °C	50...1500 50...3000	6 8, 10, 12, 14, 16, 20, 22	2 (2x2)																													
	1(2) x E	T3 0...850 °C T13 0...1000 °C	50...1500 50...3000	6 8, 10, 12, 14, 16, 20, 22	2 (2x2)																													
	1(2) x S 1(2) x R	T16 0...1100 °C T6* 0...1150 °C	50...1500 50...3000	6 8, 10, 12, 14, 16, 20, 22	2 (2x2)																													
<b>EXTENDED DESIGN WITH WELDED CONNECTION (C1)</b>		MI Thermocouple Design																																
	1 x J 2 x J	T4 0...800 °C	50...50000	3, 4.5, 6, 8, 10*	2 2x2																													
	1 x T 2 x T	T8 0...400 °C	50...50000	3, 4.5, 6, 8, 10*	2 2x2																													
	1 x K 1 x N, 1 x E	T3 0...850 °C T16 0...1100 °C	50...50000	3, 4.5, 6, 8, 10*	2																													
	2 x K 2 x N, 2 x E	T6* 0...1150 °C T6* 0...1250 °C	50...50000	3, 4.5, 6, 8, 10*	2x2																													
	2 x S 2 x R	T16 0...1100 °C T6* 0...1150 °C	50...10000	3, 4.5, 6	2x2																													
	<b>Protection head:</b> B, MA, MB, G, N, Cx, Dx, Ex (see Appendix - Protection heads) <b>Process connection 'G' (nipple or union nut):</b> - M16x1.5(Q0), M18x1.5(Q1), M20x1.5(Q2), M27x2(Q5), M33x2(Q25) - 3/8"(Q3/Q9), 1/2"(Q4/Q10), 3/4"(Q6/Q11), 1"(Q12/Q15) - welded or adjustable flange - other - w/o mounting appliances <b>Thread length:</b> - cylindrical thread: T = 15 mm - NPT thread: according to ANSI B1.20.1 <b>Thermal isolation between nipple and metal head: (for TS(O)C only)</b>																																	
<b>DESIGN WITH ADJUSTABLE CONNECTION (C2)</b>		<table border="1"> <thead> <tr> <th>Protection head</th> <th>Length 'n'</th> <th>Maximum temperature</th> <th>Insulation material</th> </tr> </thead> <tbody> <tr> <td>MA, MB</td> <td>up to 50 mm</td> <td>200 °C</td> <td>POM</td> </tr> <tr> <td>B</td> <td>up to 100 mm</td> <td>400 °C</td> <td>Teflon®</td> </tr> <tr> <td>other</td> <td>up to 150 mm</td> <td></td> <td></td> </tr> </tbody> </table>		Protection head	Length 'n'	Maximum temperature	Insulation material	MA, MB	up to 50 mm	200 °C	POM	B	up to 100 mm	400 °C	Teflon®	other	up to 150 mm																	
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		* Please contact COMECO! ** Order transmitter separately!!!																																

**Ordering code** TS\*(1,2,3,4) - G0.G1G2.G3.G4.G6.G7.G9'9".G10.G11.G14 - #1.#2

Code	Feature or option	Code values	
<b>*</b>	Base model variant	<b>C</b> - standard (w/ terminal block), <b>OC</b> - prepared for in-head transmitter (w/o terminal block)	
<b>G0</b>	Protection head	<b>B</b> - type "B", <b>CC</b> - type "CC", <b>CS</b> - type "CS", <b>D</b> - type "D", <b>DH</b> - type "DH", <b>DHW</b> - type "DHW", <b>DW</b> - type "DW", <b>E</b> - type "E", <b>EG</b> - type "EG", <b>EGS</b> - type "EGS", <b>EGW</b> - type "EGW", <b>ES</b> - type "ES", <b>G</b> - type "G", <b>MA</b> - type "MA", <b>MB</b> - type "MB", <b>N</b> - type "N"	
<b>G1</b>	Number of thermocouples	<b>1</b> or <b>2</b>	
<b>G2</b>	Thermocouple	<b>E</b> - type "E", <b>J</b> - type "J", <b>K</b> - type "K", <b>L</b> - type "L", <b>N</b> - type "N", <b>R</b> - type "R", <b>S</b> - type "S", <b>T</b> - type "T"	
<b>G3</b>	Temperature range	<b>T3</b> - 0...850 °C, <b>T4</b> - 0...800 °C, <b>T6</b> - 0...1200 °C <sup>(7)</sup> , <b>T13</b> - 0...1000 °C, <b>T16</b> - 0...1100 °C	
<b>G4</b>	Diameter 'd' [mm]	regular T/C	<b>6, 8, 10, 12, 14, 16, 20, 22</b>
		MI T/C	<b>3, 4.5, 6, 8, 10</b>
<b>G6</b>	Probe length 'n' [mm] <sup>(1)</sup>	<b>50...50000</b> (see table overleaf)	
<b>G7</b>	Probe length 'm' [mm] <sup>(2)</sup>	<b>0...1500</b>	
<b>G9'</b>	Mounting connection	<b>X</b> - no mounting appliances <sup>(3)</sup> , <b>Q0</b> - M16x1.5, <b>Q1</b> - M18x1.5, <b>Q2</b> - M20x1.5, <b>Q3</b> - G3/8", <b>Q4</b> - G1/2", <b>Q5</b> - M27x2, <b>Q6</b> - G3/4", <b>Q9</b> - 3/8" NPT, <b>Q10</b> - 1/2" NPT, <b>Q11</b> - 3/4" NPT, <b>Q12</b> - G1", <b>Q15</b> - 1" NPT, <b>Q25</b> - M33x2, <b>Uxx</b> - union nut (xx - same as for Qxx), <b>F</b> - flange (specify!), <b>Z</b> - other connection (specify!)	
<b>G9"</b>	Compression fitting ferrule <sup>(4)</sup>	<b>BR</b> - brass, <b>GR</b> - graphite, <b>SS</b> - stainless steel, <b>TF</b> - Teflon®	
<b>G10</b>	Sheath material (wetted parts)	regular T/C	<b>M2</b> - 1.4541, <b>M3</b> - 1.4571, <b>M4</b> - 1.4762, <b>M5</b> - 1.4841, <b>M6</b> - 1.4845, <b>M7</b> - 1.4876, <b>M8</b> - 2.4816, <b>M9</b> - 1.4401 (1.4404), <b>M15</b> - 1.4362
		MI T/C	<b>M2</b> - 1.4541, <b>M3</b> - 1.4571, <b>M4</b> - 1.4762 (1.4749), <b>M5</b> - 1.4841, <b>M7</b> - 1.4876 (Incolloy 800), <b>M8</b> - 2.4816 (Inconel 600), <b>M9</b> - 1.4401 (1.4404), <b>M10</b> - Niobell®
<b>G11</b>	Accuracy class	<b>1</b> - '1' <sup>(7)</sup> , <b>2</b> - '2'	
<b>G14</b>	Tip shape (hot junction)	<b>X</b> - standard (isolated from sheath), <b>G</b> - grounded, <b>E</b> - exposed hot junction, <b>O</b> - open-tube design	
<b>#1</b>	Options	<b>X</b> - none, <b>OV</b> - vibration proof (spring terminals <sup>(7)</sup> , secured screws), <b>OT</b> - thermal isolation <sup>(3)</sup> , <b>OP</b> - electrochemically polished sheath surface <sup>(5)</sup>	
<b>#2</b>	Local indicator	<b>X</b> - none, <b>A</b> - local indicator mounted <sup>(6)</sup>	

<sup>(1)</sup> 'n+m' for TS(O)C3 and TS(O)C4!

<sup>(2)</sup> Only for TS(O)C1 and TS(O)C2!

<sup>(3)</sup> Only for TS(O)C!

<sup>(4)</sup> Only for TS(O)C4!

<sup>(5)</sup> Only for non-MI (regular) sheath types!

<sup>(6)</sup> With windowed head only! See indicator datasheets and order separately!

<sup>(7)</sup> Contact COMECO!