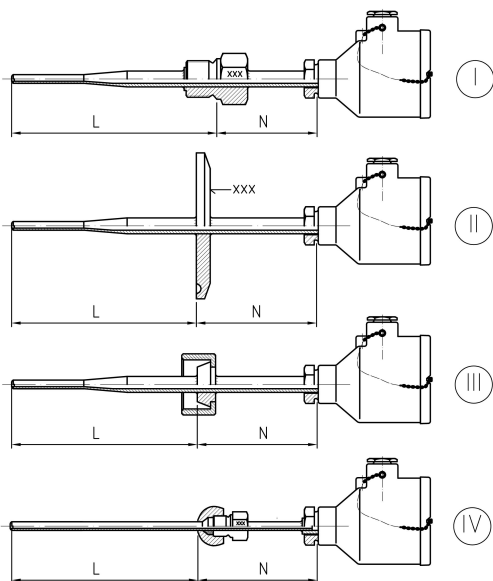




## RESISTANCE THERMOMETER Pt100 with sanitary connection Type TOP-PF-55



Resistance thermometer with sanitary connection TOP-PF-55 meets international hygienic standards and has been designed for temperature measurement particularly in food, pharmaceutical and chemical industry.

Protection tube is made of food applicable stainless steel 1.4404 (316L). According to hygienic requirements, it assures measuring surface roughness optionally  $Ra < 0,8 \mu m$  or  $Ra < 0,4 \mu m$ .

Model	Execution	Intrinsic safe execution
I	With process connection fitting	Exi
II	With clamp acc. ISO 2852 (triclamp)	
III	With disc and nut acc. DIN 11851	
IV	With sphere clamp (sphere)	

### THERMOMETER SPECIFICATION

Temperature Resistor	Version	Characteristic	Measuring range	Accuracy class	Maximum sensor current	Lead wire configuration
1xPt100 2xPt100	standard shockproof	wg PN-EN-60751	from $-50^{\circ}C$ to $+450^{\circ}C$	B	8 mA	2 wire
			$-50^{\circ}C..+150^{\circ}C$	A	5 mA	3, 4 wire
				1/3 B DIN	2 mA	

### Protection tube

Type	Process connection fitting G 1/2"	Process connection fitting 1/2" NPT	Triclamp	Disc with nut
Necked tube $\varnothing 10$ to $\varnothing 6$	$L \geq 70mm$	$L \geq 55mm$	$L \geq 55mm$	$L \geq 55mm$
Immersion $\varnothing 6$ / extension $\varnothing 10$	$L < 70mm$	$L < 55mm$	$L < 55mm$	$L < 55mm$
Tube with sphere $\varnothing 25$ with pipe $\varnothing 6$	$L \text{ od } 25 \div 500 \text{ [mm]}$			
<b>Limiting tube dimensions</b>	<b><math>L</math> from <math>25 \div 2500 \text{ [mm]}</math>, <math>N</math> from <math>50 \div 990 \text{ [mm]}</math></b>			

### Connections

Process connection fitting	Triclamp	Disc acc. DIN 11851	Sphere
G 1/2 " 1/2 NPT	1/2 ", 3/4 ", 1", 1 1/2 " 2", 3", 4"	for pipes DN10, DN25, DN32, DN40, DN50	$\varnothing 25$ insert PEEK $\varnothing 25$ insert from 1.4571

### Connection head

Type	Material	Transmitter
BAEGF	1.4541	on request

**NOTE: Non-standard models available**

## Ordering Information

TOP-PF-55 - A - B - C - D - E - F - G - H - I - K - L - M

<b>A. Execution</b>		<b>A</b>
	With process connection fitting	I
	With clamp acc. ISO 2852 (triclamp)	II
	With disc and nut acc. DIN 11851	III
	With sphere clamp (sphere)	IV
<b>B. Resistor</b>		<b>B</b>
	Single	1xPt100
	Double	2xPt100
<b>C. Class</b>		<b>C</b>
	B	B
	A	A
	1/3 B DIN	1/3 B DIN
<b>D. Configuration</b>		<b>D</b>
	2-wire	2p
	3-wire	3p
	4-wire	4p
<b>E. Type of protection tube</b>		<b>E</b>
	Necked tube $\varnothing 10$ to $\varnothing 6$	Z
	Immersion $\varnothing 6$ / extension $\varnothing 10$	R
	Tube with sphere $\varnothing 25$ with pipe $\varnothing 6$	K
<b>F. Connection</b>		<b>F</b>
	process connection fitting G 1/2 "	G 1/2 "
	process connection fitting 1/2 NPT	1/2 NPT
	triclamp 1"	TC1
	triclamp 1 1/2 "	TC1 1/2 "
	triclamp 2 "	TC2
	triclamp 2 1/2 "	TC2 1/2 "
	triclamp 3 "	TC3
	triclamp 4 "	TC4
	triclamp 1/2 "	TC 1/2 "
	triclamp 3/4 "	TC 3/4 "
	sphere $\varnothing 25$ insert PEEK	SP2
	sphere $\varnothing 25$ insert z 1.4571	SP4
	disc DIN11851 for pipe DN10	DN10
	disc DIN11851 for pipe DN25	DN25
	disc DIN11851 for pipe DN32	DN32
	disc DIN11851 for pipe DN40	DN40
	disc DIN11851 for pipe DN50	DN50
<b>G. Protection tube length L</b>		<b>G</b>
	L	specify in mm
<b>H. Length N</b>		<b>H</b>
	N	specify in mm
<b>I. Protection tube material</b>		<b>I</b>
	1.4404	1.4404
<b>J. Measures surface roughness</b>		<b>J</b>
	Ra < 0,8 $\mu$ m	Ra0,8
	Certification 3.1B and Ra < 0,8 $\mu$ m	Ra0,8-3.1
	Ra < 0,4 $\mu$ m	Ra0,4
	Certification 3.1B and Ra < 0,4 $\mu$ m	Ra0,4-3.1
<b>K. Connection head</b>		<b>K</b>
	BEG	BEG
<b>L. Transmitter</b>		<b>L</b>
		specify type and range in °C
<b>M. Sensor version</b>		<b>M</b>
	standard	Z
	shockproof	W

**TOP-PF-55-II-1xPt100-B-2p-Z-TC2-150-100-1.4404-Ra0,8-BEG-Z**

stands for: **Resistance thermometer with sanitary connection, with clamp acc. ISO 2852 (triclamp), with single resistor, class B, configuration 2-wire, compressed protection tube, triclamp 2", length L=150mm, length N=100mm, material 1.4404, surface roughness Ra < 0,8 $\mu$ m, connection head type BEG, standard sensor version.**