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Immersion Sleeves for Heat Meter Temperature Probes

- For RTD temperature probes
- RTD temperature probes can be replaced without emptying the system •
- . Immersion sleeves made from various materials
- Compliant with magnetic inductive flow meters with identification marking
- Available with inspection certificate 3.1

Brief description

Immersion sleeves are used when a replacement of the RTD temperature probes is required without emptying the system and/or pressure resistance. Shorter immersion sleeves are mostly screwed into T-pieces while longer design types are screwed into special welded sockets or welded directly in the pipe wall.

For nominal values up to DN 50, the immersion sleeve should dip above the middle. For larger diameters it should dip into the cross section of the pipe so that it is deep enough (≥ 50 mm) to avoid heat conduction errors.

The minimum immersion depth of the probe being used must also be observed. The specified dimensions for EL refer to the insertion length of the RTD temperature probe; the dimensions for L provide the insertion lengths of the immersion sleeves.

Note:

We recommend the following installation in accordance with technical directive TR-K9 (current state of technology):

For heat/cold meters with nominal flows \leq qp 6 m³/h, the temperature probes must only be installed directly immersed in the area of the measuring point with nominal pressures ≤ 16 bar when the pipeline section is newly installed. Temperature probes with immersion sleeves can also be installed under these circumstances, but only when under increased strain (for example pressure, temperature, flow velocity, or oscillation).



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Technical data

Process connection	Screws G 1/4, G 3/8, G 1/2, G 3/4 or welding in		
Protection tube			
Material	Stainless steel 1.4571		
	Stainless steel 1.4435		
	Brass		
Insertion lengths			
Stainless steel	L = 68 to 400 mm		
Brass	L = 28 to 165 mm		

Max. temperature of the immersion sleeves according to the type examination certificate

Basic type	Material	Internal diameter of protection tube D in mm	Insertion length L in mm	Thread	Max. temperature in °C	
902440/40	Drace	E 0 to 6 0	28 to 115	M10 to G 1/4	105	
902440/41	Brass	5.0 to 6.0			105	
902440/40	Drees	E 0 4- 0 0	35 to 115	M10 to G 1/2	105	
902440/41	Brass	5.0 to 6.0				
902440/40	Drace	5.0.4. 5.0	40 to 115	M10 to G 1/4	150	
902440/41	Brass	5.0 to 5.2				
902440/40	Drees	5 0 to 5 0	50 to 115	M14 to G 1/2	150	
902440/41	Brass	5.0 to 5.2				
902440/40			00 1. 405	G 1/4 to G 1/2	450	
902440/41	Brass	5.0 to 6.0	68 to 165	G 1/4 to G 1/2	150	
902440/42	Stainless steel	5.0 to 6.0	68 to 285	G 1/4 to G 1/2	150	
902440/42	Stainless steel	6.0	85 to 280	M10 to G 1/2	180	
902440/43	Stainless steel	6.2	85 to 280	M10 to G 1/2	180	
902440/44	Stainless steel	6.05	120 to 400	G 3/8 to G 3/4	180	
902440/45	Stainless steel	6.2	85 to 280	M10 to G 1/2	180	

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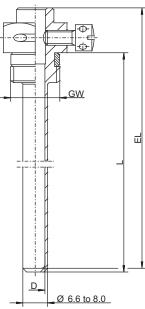
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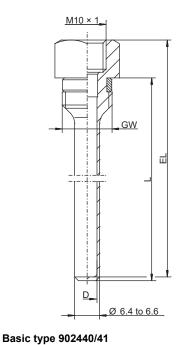


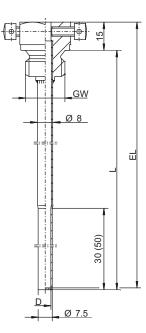
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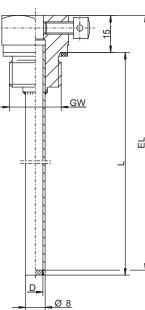
Dimensions

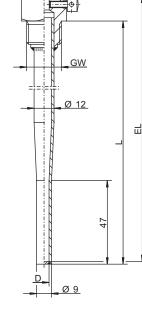


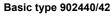


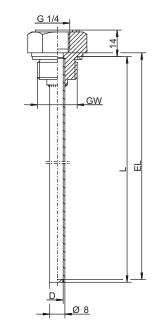


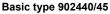
Basic type 902440/40











Basic type 902440/43

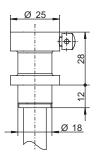
Basic type 902440/44

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Alternatively, process connection 790 for basic types 902440/42, 902440/43, and 902440/44 with welded-on piece

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Order details

							(1)	Basic type	
						902440/40		Immersion sleeve with seal option, straight protection tube, outer diameter 6.6 to 8.0 mm, PN 25	
						902440/41		Immersion sleeve with internal thread M10 × 1, straight protection tube, outer diameter 6.4 to 6.6 mm, PN 25	
						902440/42		Immersion sleeve with seal option, offset protection tube, outer diameter 8 mm, fit tolerance H10, PN 40	
						902440/43		Immersion sleeve with seal option, straight protection tube, outer diameter 8 mm, internal diameter 6.2 mm, PN 40	
						902440/44		Immersion sleeve with seal option, offset protection tube, outer diameter 12 mm narrowing to 9 m, internal diameter 6 mm, PN 40	
						902440/45		Immersion sleeve with internal thread G 1/4 and seal option, straight protection tube, outer diameter 8 mm, internal diameter 6.15 mm, PN 40	
							(2)	Internal diameter of protection tube D in mm	-
х	х					5		Ø 5 mm	
х	х	х				5.2		Ø 5.2 mm	
х	х	х		х		6		Ø 6 mm	
			х		x	6.2	(0)	Ø 6.2 mm	
~						25	(3)	Insertion length L in mm (85 to 400 mm for basic type 90	J2440/42 and 902440/43)
x x	x					35 40		35 mm (EL = 46 mm) 40 mm (EL = 47 mm)	
	x					40 50		50 mm (EL = 57 mm)	
Â	~	x	x		x	85		85 mm (EL = 98 mm, for basic type 902440/45 EL = 85.5 mr	n)
					x	92.5		92.5 mm (EL = 93 mm)	,
		x	x	x	x	120		120 mm (EL = 133 mm, for basic type 902440/45 EL = 120.	5 mm)
					x	147.5		147.5 mm (EL = 148 mm)	
		х	х	х		155		155 mm (EL = 168 mm)	
		х	х	х		210		210 mm (EL = 223 mm)	
								Specifications in plain text	
							(4)	Process connection GW	
х	х					102		Screw connection G 1/4	
х						103		Screw connection G 3/8	
х		х	х	х	x	104		Screw connection G 1/2	
				х		105		Screw connection G 3/4	
		х	х	х		790		Weld-in sleeve according to AGFW	
							(5)	Material	
		х	х	х	x	20		Stainless steel	
x	х					46		Brass	

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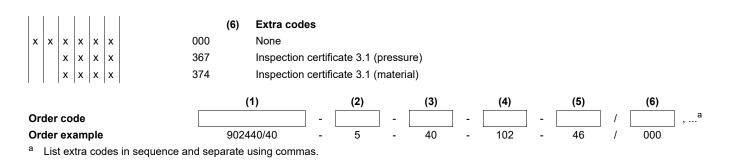
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Note:

Accessories, data sheet, and price sheet 902442

Stock versions

Order code	Part no.
902440/40-5.2-35-102-46/000	00611470
902440/40-5.2-50-104-46/000	00326403
902440/41-5.2-40-102-46/000	00362827
902440/43-6.2-85-104-20/000	00349100
902440/43-6.2-120-104-20/000	00352465
902440/43-6.2-155-104-20/000	00352467
902440/43-6.2-210-104-20/000	00372878
902440/45-6.2-92.5-104-20/000	00037054
902440/45-6.2-147.5-104-20/000	00037944