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Process Connections for Dial Thermometers



Special features

- Temperature probes (TF)
- Process connections (TA)
- Thermowell (SH)

Temperature probes (TF)

(S₁ min. 25 mm for type 6080... , S₁ min. 50 mm for type 6082... , 6084... , 6085...)

Type	Dimensional drawing	Description	Material	Probe dia. Ø d (mm)	For use with type	Active probe length L (mm)														
						Scale range in °C														
						60	80	100	120	140	160	200	250	300	350	400	500	600		
750 TF 01		Temperature sensor with stepped support tube	Cu (copper)	6	6082 ..	98	74	59	48	42	37	29	-	-	-	-	-	-		
				8	6084 .. 6085 ..	51	39	31	26	23	20	16	-	-	-	-	-	-	-	
			CrNi (st. steel)	6		100	76	61	50	44	39	31	31	27	24	-	-	-	-	-
				8		53	41	33	28	25	22	18	18	16	14	130	180	180	-	-
				10		-	-	-	-	-	-	-	-	-	100	100	100	-		
752 TF 11		Temperature probe without support tube	Cu (copper)	6	6082 ..	98	74	59	48	42	37	29	-	-	-	-	-	-		
				8	6084 .. 6085 ..	51	39	31	26	23	20	16	-	-	-	-	-	-	-	
			CrNi (st. steel)	6		100	76	61	50	44	39	31	31	27	24	-	-	-	-	-
				8		53	41	33	28	25	22	18	18	16	14	130	180	180	-	-
				10		-	-	-	-	-	-	-	-	-	100	100	100	-		
753 TF 05		Temperature probe with plain support tube	CrNi (st. steel)	6	6082 ..	140	105	85	70	60	55	45	40	35	30	-	-	-		
				8	6084 ..	75	55	45	40	35	30	25	25	20	20	130	180	180	-	
				10	6085 ..	-	-	-	-	-	-	-	-	-	-	-	100	100	100	-
			CrNi (st. steel) CuZn up to 200 °C	6	608002/01-... * 608003/01-... *	60	85	70	60	55	50	45	100	75	65	65	55	-	-	-
					608002/18-... 608003/10-... *	120	90	80	70	55	50	45	110	75	70	70	55	-	-	-
					10	608001/01-... * 608002/01-... * 608003/01-... *	65	60	45	40	65	50	45	70	55	55	45	40	-	-
608001/18-... 608002/18-... 608003/10-... *	120	95	85	70		70	55	50	70	55	55	50	40	-	-	-				

* At TZ 430 and TZ 434, L = design 18 or 10

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Process connections (TA)

Type	Description	Dimensional drawing	For use with type	Note	Screw connection						Suitable for TF
					Material		Pipe thread G				
					CuZn (brass)	CrNi (st. steel)	G 3/8	G 1/2	G 3/4	1/2-14NPT	
010 TA 01	Immersion tube with collar		608001/0150-...	Up to 200 °C	●						TF 05
			608001/0163-...		●						
			608001/0180-...		●						
			608001/0110-...		●						
			608001/0116-...	Up to 200 °C	●						
			608001/18...	As of 250 °C	●						
			608001/...		●						
			608002/...			●					
			608003/...				●				
			608624/...								
843 (844) TA 02	Immersion tube with union nut and loose screw connection ¹		608001/...		●	●	●	●			TF 05
			608001/...		●	●	●	●			
			608002/...		●	●	●	●			
			608003/...		●	●	●	●			
			608624/...			●	●				
			6082...		●	●	●			TF 01	
			6084...		●	●	●				
			6085..		●	●	●				
161 (845) TA 03	Immersion tube with loose union nut		608001/...		●	●	●	●		TF 05	
			608002/...		●	●	●	●			
			608003/...		●	●	●	●			
			608624/...		●	●	●	●			
			6082...		●	●	●		TF 01		
			6084...		●	●	●				
			6085..		●	●	●				

¹Screw-in spigot according to DIN 3852 Form A

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Type	Description	Dimensional drawing	For use with type	Note	Screw connection							Suitable for TF
					Material			Pipe thread G				
					CuZn (brass)	St (steel)	CrNi (st. steel)	G 3/8	G 1/2	G 3/4	1/2-14NPT	
846 (841) TA 04	Immersion tube with fixed hexagon screw-in spigot ¹		608001/...				●	●	●	●	TF 05	
			608002/...			●	●	●	●			
			608003/...			●	●	●	●			
			608624/...			●	●	●	●			
			608225/...			●	●	●	●	TF 01		
			608425/...			●	●	●	●			
847 TA 06	Immersion tube with sliding clamping screw connection on support tube	 * Adjustment range	608001/...	20 bar max.			●	●	●		TF 05	
			608002/...				●	●	●			
			608003/...				●	●	●			
			608624/...				●	●	●			
			608225/...				●	●	●		TF 01 TF 05	
			608425/...				●	●	●			
018 TA 08	Immersion tube with sliding mounting plate in zinc-plated steel and fixing screw	 * Adjustment range	608001/...								TF 05	
			608002/...									
			608003/...			●						
311 (842) TA 20	Immersion tube with loose screw connection and connection collar ¹		608201/...		●		●	●	●	TF 01		
			608202/...		●		●	●	●			
			6085...								TF 05	
			608624/...			●		●	●	●		

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Type	Description	Dimensional drawing	For use with type	Note	Screw connection						Suitable for TF
					Material		Pipe thread G				
					CuZn (brass)	CrNi (st. steel)	G 3/8	G 1/2	G 3/4	M 10x1	
872 (403) TA 21	Immersion tube with loose pressure screw and conical seal		608201/... 608202/... 6085...	With rigid imm. tube connection CuZn only	●	●	●				TF 01
873 (351) TA 22	Immersion tube with loose pressure screw, conical seal, and loose screw connection ¹		608201/... 608202/... 6085...	With rigid imm. tube connection CuZn only	●	●	● L ₁ =12 a/f=22	● L ₁ =14 a/f=27	● L ₁ =16 a/f=32		TF 01
401 TA 23	Immersion tube with pressure screw and spring clip		608201/... 608202/... 6085...		●					●	TF 01
874 TA 24	Immersion tube with screw connection, O ring seal, and clamping screw ¹		608005/... 608540/1080 608540/0280		●			● L ₁ =14 a/f=27	● L ₁ =16 a/f=27		TF 05
			608540/2280 608540/2380								
848 TA 25	Sliding clamping screw connection on capillary ¹		608201/... 608202/...	Only with FL 17 and FL 21 Up to 250 °C	●	●		● L ₁ =12 a/f=22	● L ₁ =14 a/f=27		TF 11

¹Screw-in spigot according to DIN 3852 Form A

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Thermowells (SH)

Type	Description	Dimensional drawing	dia. Ø D (SH)	dia. Ø d (TF)	Screw connection								Suitable for	
					Material			Pipe thread G						
					CuZn (brass)	St (steel)	CrNi (st. steel)	G 3/8	G 1/2	G 3/4	1/2-14NPT			
858 SH 04	Single-part screw-in sleeve according to DIN 43772 T2-Form 9 ¹ . Steel: Mat. no. 1.5415		17	10		●	●			● L ₁ =14 L ₂ =25 a/f=27	● L ₁ =16 L ₂ =29 a/f=32		TA 03	
891 SH 05	Screw-in sleeve, multi-part ¹		12	10	●					● L ₁ =14 L ₂ =25 a/f=27	● L ₁ =16 L ₂ =29 a/f=32		TA 03	
			14	10			●				● L ₁ =14 L ₂ =25 a/f=27	● L ₁ =16 L ₂ =29 a/f=32		● L ₁ =20 L ₂ =25 a/f=27
913 SH 07	Screw-in sleeve multi-part, with fixing screw ¹		8	6	●		●			● L ₁ =12 a/f=22	● L ₁ =14 a/f=27	● L ₁ =16 a/f=32		TA 01 TF 01 TF 11
			10	8	●		●			● L ₁ =12 a/f=22	● L ₁ =14 a/f=27	● L ₁ =16 a/f=32		
			12	10	●					● L ₁ =12 a/f=22	● L ₁ =14 a/f=27	● L ₁ =16 a/f=32		
			14	10			●				● L ₁ =14 a/f=27	● L ₁ =16 a/f=32	● L ₁ =20 a/f=27	
820 SH 09	Weld-in sleeve, multi-part, with fixing screw. Welding collar for steel, mat. no. 1.5415.		8	6		●	●							TA 01 TF 01 TF 11
			10	8		●	●							
			14	10		●	●							
876 SH 10	Screw-in sleeve, multi-part ¹		8	6	●		●			● L ₁ =12 a/f=22	● L ₁ =14 a/f=27	● L ₁ =16 a/f=32		TA 21
			10	8	●		●			● L ₁ =12 a/f=22	● L ₁ =14 a/f=27	● L ₁ =16 a/f=32		
871 SH 11	Screw-in sleeve, multi-part ¹		10	8	●		●			● L ₁ =12 a/f=22	● L ₁ =14 a/f=27		TA 23	

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Admissible load at the thermowell

Thermowells 820, 876, 871, 913

The following values describe the maximum capacity of the corresponding connection type.
 The maximum sealable pressure depends on the fitting conditions and may be lower.

Thermowell made of stainless steel

Material	Pipe and nipple: Stainless steel (1.4571)		
Capacity	Temperature	Pipe diameter	
		8 x 0.75 mm or conical	10 x 0.75 mm
	Max. allowable pressure		
	100 °C	92 bar	74 bar
	150 °C	88 bar	71 bar
	200 °C	83 bar	67 bar
	300 °C	72 bar	58 bar
400 °C	67 bar	54 bar	
Max. allowable operating temperature*	Static load +400 °C		Without load +530 °C
	Observe max. allowable probe temperature of the respective thermometer version.		

Thermowell made of brass

Material	Pipe and nipple: CuZn		
Capacity	Temperature	Pipe diameter	
		8 x 0.75 mm	10 x 0.75 mm
	Max. allowable pressure		
	100 °C	50 bar	40 bar
	150 °C	48 bar	39 bar
Max. allowable operating temperature*	+150 °C		
	Observe max. allowable probe temperature of the respective thermometer version.		

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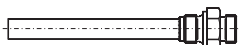

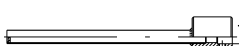


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Order details

Thermowells for dial thermometers, type 608730

Order code	(1) Basic type
608730	Thermowells for dial thermometers
(2) Basic type extensions	
858	SH 04 Single-part screw-in sleeve according to DIN 43772 T2 - form 9; screw-in spigot according to DIN 3852, form A. 
891	SH 05 Multi-part screw-in sleeve; screw-in spigot according to DIN 3852, form A. 
913	SH 07 Multi-part screw-in sleeve with fixing screw; screw-in spigot according to DIN 3852, form A. 
820	SH 09 Multi-part weld-in sleeve with fixing screw 
876	SH 10 Multi-part screw-in sleeve; screw-in spigot according to DIN 3852, form A. 
871	SH 11 Multi-part screw-in sleeve; screw-in spigot according to DIN 3852, form A. 
(3) Thread "G"	
000	Without (only SH 09)
103	G 3/8
105	G 3/4
104	G 1/2
144	1/2-14NPT
114	M 10 x 1 (only SH 11)
(4) Material	
46	Brass (CuZn)
01	Steel (St) (only TA08 and SH09)
26	Stainless steel (CrNi)
(5) Insertion length "EL"	
50	50 mm
63	63 mm
80	80 mm
100	100 mm
130	130 mm
150	150 mm
200	200 mm
250	250 mm
300	300 mm
...	Special length (specifications in plain text - 50 mm steps)
(6) Outer diameter "D"	
8	8 mm
10	10 mm
12	12 mm
14	14 mm
17	17 mm
(7) Collar diameter "d₁₅"	
000	Without (only SH 04, SH 05, SH 10, SH 11)
10.3	10.3 mm
16.3	16.3 mm (for type 608001, 608002, 608003, 608624)

Order code:

(1) / (2) - (3) - (4) - (5) - (6) - (7)

608730 / ... - ... - .. - ... - .. - ...

Order example:

608730 / 891 - 105 - 26 - 100 - 10 - 000