

JUMO GmbH & Co. KG
 Delivery address: Mackenrodtstraße 14,
 36039 Fulda, Germany
 Postal address: 36035 Fulda, Germany
 Phone: +49 661 6003-0
 Fax: +49 661 6003-607
 e-mail: mail@jumo.net
 Internet: www.jumo.net

JUMO Instrument Co. Ltd.
 JUMO House
 Temple Bank, Riverway
 Harlow, Essex CM 20 2TT, UK
 Phone: +44 1279 635533
 Fax: +44 1279 635262
 e-mail: sales@jumo.co.uk
 Internet: www.jumo.co.uk

JUMO Process Control, Inc.
 8 Technology Boulevard
 Canastota, NY 13031, USA
 Phone: 315-697-JUMO
 1-800-554-JUMO
 Fax: 315-697-5867
 e-mail: info@jumo.us
 Internet: www.jumo.us



Process Connections for Dial Thermometers

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



Temperature probes (TF)

Type	Dimensional drawing	Description	Material	Probe dia. Ø d (mm)	For use with type	Active probe length L (mm)												
						Indication range °C												
						60	80	100	120	140	160	200	250	300	350	400	500	600
750 TF 01		Temperature probe with shouldered support tube (S ₁ min. 50 mm)	Cu (copper)	6	6082 ..	140	105	85	70	60	55	45	-	-	-	-	-	-
				8	6084 ..	75	55	45	40	35	30	25	-	-	-	-	-	-
			CuZn (brass)	6	6085 ..	140	105	85	70	60	55	45	40	35	30	-	-	-
				8		75	55	45	40	35	30	25	25	20	20	130	180	180
			CrNi (st. steel)	10		-	-	-	-	-	-	-	-	-	-	100	100	100
752 TF 11		Temperature probe without support tube	Cu (copper)	6	6082 ..	140	105	85	70	60	55	45	-	-	-	-	-	-
				8	6084 ..	75	55	45	40	35	30	25	-	-	-	-	-	-
			CuZn (brass)	6	6085 ..	140	105	85	70	60	55	45	40	35	30	-	-	-
				8		75	55	45	40	35	30	25	25	20	20	130	180	180
			CrNi (st. steel)	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
			CuZn (brass)	10	608001/01-...	65	60	45	40	65	50	45	-	-	-	-	-	-
					608001/18-...	120	120	80	80	65	50	45	-	-	-	-	-	-
			St (steel)	10	608001/01-...	65	60	45	40	65	50	45	70	55	55	45	30	-
					608001/18-...	120	120	80	80	65	50	45	70	55	55	45	30	-
			CrNi (st. steel)	6	608002/01-...	55	85	70	60	55	50	45	100	75	65	65	45	-
					608002/18-...	115	85	70	60	55	50	45	100	75	65	65	45	-
					608003/10-...													
	10	608001/01-...	65	60	45	40	65	50	45	70	55	55	45	25	-			
		608002/01-...																
		608003/01-...																
			608001/18-...	120	120	80	80	65	50	45	70	55	55	45	25	-		
			608002/18-...															
			608003/18-...															

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Process connections (TA)

Type	Description	Dimensional drawing	For use with type	Note	Screw fitting						Suitable for TF		
					Material			Pipe thread G					
					CuZn (brass)	St (steel)	CrNi (st. steel)	G 3/8	G 1/2	G 3/4		M 10x1	1/2-14NPT
010 TA 01	Immersion tube with shoulder		608001/0150-...	up to 200°C	●								TF 05
			608001/0163-...		●								
			608001/0180-...		●								
			608001/0110-...		●								
			608001/0116-...	up to 200°C	●								
608001/18-...		●											
608001/...	from 250°C												
608002/...													
608003/...													
608624/...													
843 (844) TA 02	Immersion tube with union nut and loose nipple 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 to DIN 3852 Form A

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Process connections (TA)

Type	Description	Dimensional drawing	For use with type	Note	Screw fitting							Suitable for TF	
					Material			Pipe thread G					
					CuZn (brass)	St (steel)	C/Ni (st. steel)	G 3/8	G 1/2	G 3/4	M 10x1		1/2-14NPT
846 (841) TA 04	Immersion tube with fixed hexagon screw-in spigot ¹		608001/...				●	●	●		●	TF 05	
			608002/...				●	●	●		●		
			608003/...			●							
			608624/...			●							
608225/...	608425/...				●	●	●		●	●	TF 01		
847 TA 06	Immersion tube with sliding clamping thread on support tube		608001/...			●	●	●				TF 05	
			608002/...				●	●	●				
			608003/...			●							
			608624/...	20 bar max.		●	●	●					
			608225/...	608425/...				●	●	●		●	TF 01
			608201/...	608202/...	6085...			●	●	●		●	TF 05
018 TA 08	Immersion tube with sliding fixing plate in zinc-plated steel and fixing screw		608001/...									TF 05	
608002/...	608003/...				●								
608225/...	608425/...												
608201/...	608202/...	6085...											
608624/...													
311 (842) TA 20	Immersion tube with loose nipple and shoulder ¹		608201/...				●	●	●			TF 01	
			608202/...			●							
6085...	608624/...												

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Process connections (TA)

Type	Description	Dimensional drawing	For use with type	Note	Screw fitting						Suitable for TF		
					Material			Pipe thread G					
					CuZn (brass)	St (steel)	CrNi (st. steel)	G 3/8	G 1/2	G 3/4	M 10x1	1/2-14NPT	
872 (403) TA 21	Immersion tube with loose plug and conical seal		608201/... 608202/... 6085...	with rigid imm. tube mounting CuZn only	●		●	●					TF 01
873 (351) TA 22	Immersion tube with loose plug, conical seal and loose nipple ¹		608201/... 608202/... 6085...	with rigid imm. tube mounting 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 plug and spring clip		608201/... 608202/... 6085...		●						●		TF 01
874 TA 24	Immersion tube with screw fitting, O ring seal and clamping screw		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 clamp fitting 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

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Pockets (SH)

Type	Description	Dimensional drawing	dia. Ø D (SH)	dia. Ø d (TF)	Screw fitting								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	Screw-in pocket, machined from solid, to DIN 43772 T2-Form 9 ¹ . Steel: Mat.Ref. 1.5415		17	10		●	●			●	●			TA 03
										L ₁ =14 L ₂ =25 a/f=27	L ₁ =16 L ₂ =29 a/f=32			
891 SH 05	Screw-in pocket, assembled ¹		12	10	●					●	●			TA 03
			14	10		●	●			●	●			
			14	10			●					●	L ₁ =20 L ₂ =25 a/f=27	
913 SH 07	Screw-in pocket assembled, with fixing screw ¹		8	6	●		●			●	●	●		TA 01 TF 01 TF 11
			10	8	●		●			●	●	●		
			12	10	●					●	●	●		
			14	10		●	●			●	●	●	L ₁ =20 a/f=27	
820 SH 09	Weld-in pocket, assembled, with fixing screw. Welding shoulder for steel, Mat.Ref. 1.5415.		8	6		●	●							TA 01 TF 01 TF 11
			10	8		●	●							
			14	10		●	●							
876 SH 10	Screw-in pocket, assembled ¹		8	6	●		●			●	●	●		TA 21
			10	8	●		●			●	●	●		
871 SH 11	Screw-in pocket, assembled ¹		10	8	●		●			●	●			TA 23

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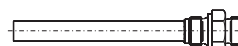
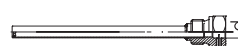
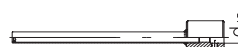


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Order details

Pockets for dial thermometers, type 608730

Order code	(1) Basic type	
608730	Pockets for dial thermometers	
	(2) Basic type extensions	
858	SH 04 Screw-in pocket, machined from solid, to DIN 43772 T2 - Form 9; Screw-in spigot to DIN 3852 Form A.	
891	SH 05 Screw-in pocket, assembled; Screw-in spigot to DIN 3852 Form A.	
913	SH 07 Screw-in pocket, assembled, with fixing screw; Screw-in spigot to DIN 3852 Form A.	
820	SH 09 Weld-in pocket, assembled, with fixing screw	
876	SH 10 Screw-in pocket, assembled; Screw-in spigot to DIN 3852 Form A.	
871	SH 11 Screw-in pocket, assembled; Screw-in spigot to DIN 3852 Form A.	
	(3) External diameter D	
8	8 mm	
10	10 mm	
12	12 mm	
14	14 mm	
17	17 mm	
	(4) Material	
46	brass (CuZn)	
01	steel (St)	
26	stainless steel (CrNi)	
	(5) Thread G	
000	none (SH 09 only)	
103	G 3/8 (3/8" pipe)	
105	G 3/4 (3/4" pipe)	
104	G 1/2 (1/2" pipe)	
144	1/2-14NPT	
114	M 10 x 1 (SH 11 only)	
	(6) Shoulder diameter d₁₅	
000	none (SH 04, SH 05, SH 10, SH 11 only)	
10,3	10.3 mm	
16.3	16.3 mm (types 608001, 608002, 608003, 608624)	
	(7) Fitting 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 (details in plain text, in 50 mm steps)	

Order code

(1) / (2) - (3) - (4) - (5) - (6) - (7)
 608730 / ... - .. - .. - ... - ... - ...

Order example

608730 / 891 - 14 - 26 - 104 - 000 - 150