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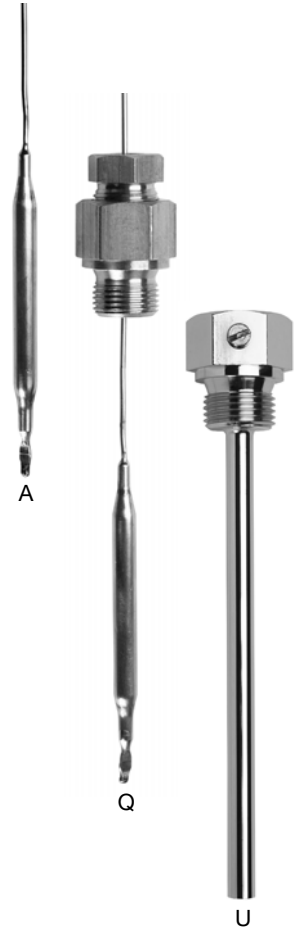


Process connections for thermostats

- Temperature probes
- Screw fittings
- Pockets

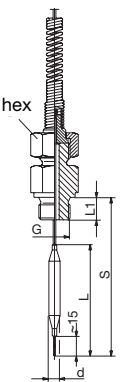
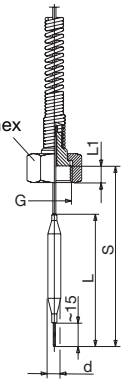
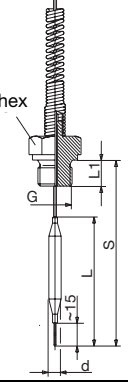
Temperature probes

Order code:	1	2	3				
Outline drawing	Designation	Material	Probe dia. d in mm				Notes
	plain cylindrical bulb A	Cu (copper) CrNi (stainless steel)	5	6	7	8	other probe diameters on request
Order code:	606710-10	40 20	5	6	7	8	
	coiled bulb H	Cu (copper)	17	35			up to +200°C max. probe temperature
Order code:	606710-15	40	17	35			



	1	2	3
Order code:	606710- . .	- . .	- .
Order example:	606710-10	- 20	- 8

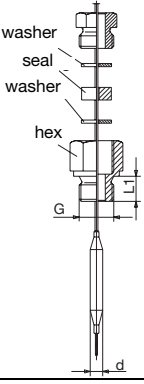
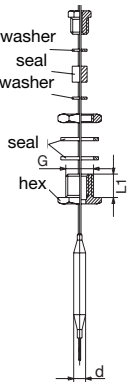
Screw fittings

Order code:	1	2			3			4	5				6	
Outline drawing	Designation	Thread G			Material of connection			Immersion tube length S in mm	Probe dia. d in mm				Material of probe	
	screw fitting B probe mounting C with loose nipple, threaded at both ends	G 1/2 L ₁ =14 27 a/f	G 3/8 L ₁ =12 22 a/f	G 3/4 L ₁ =16 32 a/f	CuZn (brass)	St (steel)	CrNi (stainless steel)	100 120 150 200 300 400 details in plain text	5	6	7	8	Cu (copper)	CrNi (stainless steel)
Order code:	606710-50	13	12	14	46	01	20	...	5	6	7	8	40	20
	screw fitting C plain cylindrical bulb with shoulder and union nut. Shoulder brazed or welded to capillary.	G 1/2 L ₁ =10 27 a/f	G 3/8 L ₁ =7,5 22 a/f	G 3/4 L ₁ =11 32 a/f	CuZn (brass)	St (steel)	CrNi (stainless steel)	100 120 150 200 300 400 details in plain text	5	6	7	8	Cu (copper)	CrNi (stainless steel)
Order code:	606710-52	13	12	14	46	01	20	...	5	6	7	8	40	20
	screw fitting D plain cylindrical bulb, threaded connector brazed or welded to capillary.	G 1/2 L ₁ =14 27 a/f	G 3/8 L ₁ =12 22 a/f		CuZn (brass)	St (steel)	CrNi (stainless steel)	100 120 150 200 300 400 details in plain text	5	6	7	8	Cu (copper)	CrNi (stainless steel)
Order code:	606710-54	13	12		46	01	20	...	5	6	7	8	40	20

Process connection B, C and D: max. permissible pressure with instrument function STB, STW (STB) = 2 bar / TR, TW and TB on request.

	1	2	3	4	5	6
Order code:	606710-..	..	..	...	.	..
Order example :	606710-50	13	20	200	6	20

Screw fittings

Order code:	1	2		3		Notes
Outline drawing	Designation	Thread		Material		
	screw fitting Q thread at both ends, for retrofitting on capillary. Max. probe temperature +200°C.	$G \frac{1}{2}$ $L_1=14$ 27 a/f	$G \frac{3}{8}$ $L_1=12$ 22 a/f	CuZn (brass)	CrNi (stainless steel)	Only suitable for probe dia. d up to 8 mm. For use in unpressurized media only .
Order code:	606710- 60	13	12	46	20	
	screw fitting V sealing gland for retrofitting on capillary. Max. probe temperature +200°C.	$M 14 \times 1$ 19 a/f		CuZn (brass)	CrNi (stainless steel)	Only suitable for probe dia. d up to 6 mm. For use in unpressurized media only .
Order code:	606710- 65	35		46	20	

	1		2		3
Order code:	606710-..	-	..	-	..
Order example:	606710- 60	-	13	-	20

Pockets

Order code:	1	2		3			4	5		
Outline drawing	Designation	Thread G		Material			Immersion tube length S in mm	Immersion tube dia. D in mm		
	screw-in pocket U with screw-in spigot, Form A to DIN 3852/2 with fixing screw	$G \frac{1}{2}$ $L_1=14$ 27 a/f	$G \frac{3}{8}$ $L_1=12$ 24 a/f	CuZn (brass)	St (steel)	CrNi (stainless steel)	100 120 150 200 300 400 details in plain text	8 (inside dia. 6.5)	10 (inside dia. 8.5)	15 (inside dia. 13.5)
Order code:	606710-20	13	12	46	01	20	...	8	10	15
	screw-in pocket UO open at end, with screw-in spigot, Form A to DIN 3852/2 with fixing screw (clip for securing bulb supplied with code f)	$G \frac{1}{2}$ $L_1=14$ 27 a/f	$G \frac{3}{8}$ $L_1=12$ 24 a/f	CuZn (brass)	St (steel)	CrNi (stainless steel)	100 120 150 200 300 400 details in plain text	8 (inside dia. 6.5)		
Order code:	606710-21	13	12	46	01	20	...	8		
	weld-in pocket US with fixing screw	no thread			St (steel)	CrNi (stainless steel)	100 120 150 200 300 400 details in plain text	10 (inside dia. 8.5)	15 (inside dia. 13.5)	
Order code:	606710-22	00			01	20	...		10	15
	weld-in pocket US with fixing screw, immersion tube tapered from 12 to 8 mm	no thread			St (steel)	CrNi (stainless steel)	100 120 150 200 300 400 details in plain text	immersion tube tapered from 12 to 8 mm (inside dia. 6.5)		
Order code:	606710-23	00			01	20	...	8		

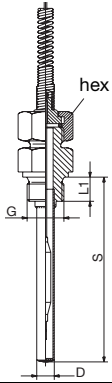
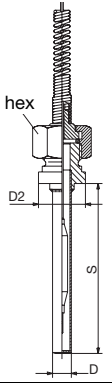
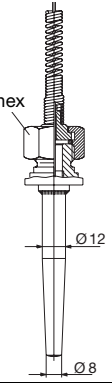
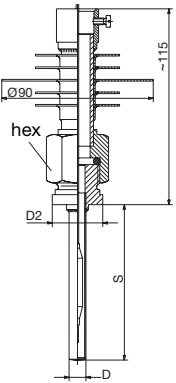
Order code:	1	2	3	4	5
Order example:	606710-..	..	..	...	..
	606710-20	13	01	100	10

Pockets

Order code:	1	2	3	4	5				
Outline drawing	Designation	Thread G		Material	Immersion tube length S in mm	Immersion tube dia. D in mm			
	screw-in pocket UH with fixing screw, no sealing shoulder, for sealing with hemp	G 1/2		CuZn (brass)	120	15 mm			
Order code:	606710-24	13		46	120	15			
	screw-in pocket UZ with fixing screw and ex- tension, for thermo- stat with rigid stem and probe tempera- ture above +150°C	G 1/2	G 3/8	St (steel)	CrNi (stainless steel)	100 120 150 200 300 400 details in plain text	8 (inside dia. 6.5)	10 (inside dia. 8.5)	15 (inside dia. 13.5)
Order code:	606710-30	13	12	01	20	...	8	10	15
	screw-in pocket UZO open at end, with fixing screw and ex- tension, for thermo- stat with rigid stem and probe tempera- ture above +150°C	G 1/2	G 3/8	St (steel)	CrNi (stainless steel)	100 120 150 200 300 400 details in plain text	8		
Order code:	606710-31	13	12	01	20	...	8		
	weld-in pocket UZS with fixing screw and ex- tension, for thermo- stat with rigid stem and probe tempera- ture above +150°C	no thread		St (steel)	CrNi (stainless steel)	100 120 150 200 300 400 details in plain text		10 (inside dia. 8.5)	15 (inside dia. 13.5)
Order code:	606710-32	00		01	20	...		10	15

Order code:	1	2	3	4	5
Order example:	606710-30	13	20	200	8

Pockets

Order code:	1	2		3			4	5		
Outline drawing	Designation	Thread G		Material			Immersion tube length S in mm	Immersion tube dia. D in mm		
	screw-in pocket E with screw-in spigot*, Form A to DIN 3852/2, pocket secured with union nut, probe mounting C. (52)	G 1/2 L ₁ =14 27 a/f	G 3/8 L ₁ =12 22 a/f	CuZn (brass)	St (steel)	CrNi (stainless steel)	100 120 150 200 300 400 details in plain text	8 (inside dia. 6.5)	10 (inside dia. 8.5)	
Order code:	606710-40	13	12	46	01	20	...	8	10	15
	weld-in pocket ES for thermostats with capillary, with welding shoulder. Pocket secured with union nut, probe mounting C. (52)	no thread			St (steel)	CrNi (stainless steel)	100 120 150 200 300 400 details in plain text		10 (inside dia. 8.5)	
Order code:	606710-41	00			01	20	...		10	15
	weld-in pocket ES immersion tube tapered from 12 to 8 mm, for thermostats with capillary, with welding shoulder. Pocket secured with union nut, probe mounting C. (52)	no thread			St (steel)	CrNi (stainless steel)	100 120 150 200 300 400 details in plain text	immersion tube tapered from 12 to 8 mm (inside dia. 6.5)		
Order code:	606710-42	00			01	20	...	8		
	weld-in pocket EZS with thread G ³ / ₄ on instrument side and extension, for thermostats with rigid stem and probe temperature above +150°C	no thread			St (steel)	CrNi (stainless steel)	100 120 150 200 300 400 details in plain text		10 (inside dia. 8.5)	15 (inside dia. 13.5)
Order code:	606710-45	00			01	20	...		10	15

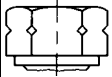
Order code:	1	2	3	4	5
	606710-..	..	..	...	..
Order example:	606710-42	00	01	300	8

Permissible loading on the pocket

Pockets U, US, UZ, UZS, E, ES and EZS

The values below refer to the maximum loading on the corresponding probe mounting.
The maximum pressure that can be sealed depends on the mounting conditions and may be lower.

Steel pocket

Material	Tube	Screw-in nipple up to 300°C	Screw-in nipple up to 450°C	Weld-in nipple	
	St 35.8 I	9 SMnPb28 K	16 Mo 3 (turned groove)	16 Mo 3 (no turned groove)	
Loading	Temperature	Tube diameter D			
		8 x 0.75 mm or taper	10 x 0.75 mm	15 x 0.75 mm	
	Maximum permissible pressure				
	100°C	89 bar	72 bar	48 bar	
	150°C	83 bar	67 bar	45 bar	
	200°C	78 bar	63 bar	42 bar	
	300°C	59 bar	47 bar	32 bar	
	450°C	24 bar	19 bar	13 bar	
Max. permissible operating temperature	Tube	Nipple	Max. permissible operating temperature*		
	St 35.8 I	9 SMnPb28 K	+300°C	static load	no load
		16 Mo 3	+450°C		+530°C
* Please observe the maximum permissible probe temperature for the corresponding thermostat version. At operating temperatures above +420°C: operating time with static load is limited to 200,000 hrs. TRD 508 must be observed. Pockets UO and UZO: for use in unpressurized media only.					

Stainless steel pocket

Material	Tube and nipple: X 6 CrNiMoTi 17 122 (1.4571)			
Loading	Temperature	Tube diameter D		
		8 x 0.75 mm or taper	10 x 0.75 mm	15 x 0.75 mm
	Maximum permissible pressure			
	100°C	92 bar	74 bar	50 bar
	150°C	88 bar	71 bar	48 bar
	200°C	83 bar	67 bar	45 bar
	300°C	72 bar	58 bar	39 bar
	400°C	67 bar	54 bar	36 bar
Max. permissible operating temperature*	static load +400°C		no load +530°C	
	* Please observe the maximum permissible probe temperature for the corresponding thermostat version.			

Brass pocket

Material	Tube and nipple: brass (CuZn)			
Loading	Temperature	Tube diameter D		
		8 x 0.75 mm	10 x 0.75 mm	15 x 0.75 mm
	Maximum permissible pressure			
	100°C	50 bar	40 bar	27 bar
	150°C	48 bar	39 bar	26 bar
Max. permissible operating temperature*	+150°C			
	* Please observe the maximum permissible probe temperature for the corresponding thermostat version.			
Pocket UH*	Temperature	Maximum permissible pressure		
	110°C	16 bar		
	* Please observe the maximum permissible probe temperature for the corresponding thermostat version.			