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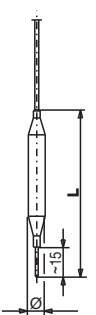
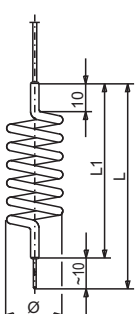
**JUMO Process Control, Inc.**  
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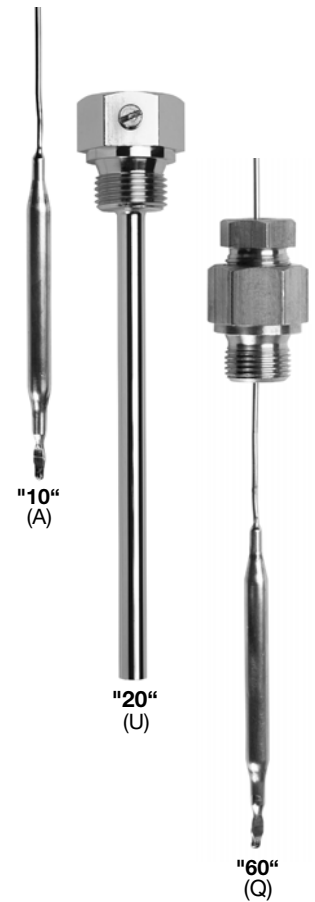


# Process connections for thermostats

- Temperature probes
- Screw fittings
- Pockets

## Temperature probe

Order code:	1	2	3				
Process connection	Material	Probe Ø in mm				Remark	
 <p><b>Plain cylindrical probe "10" (A)</b></p>	Cu (Copper) CrNi (stainless steel)	5	6	7	8	different probe diameters on request	
		Order code:	606710-10	40	20		5
 <p><b>Spiral probe "15" (H)</b></p>	Cu (Copper)	17	35			up to max. +200°C probe temperature	
		Order code:	606710-15	40	17		35



<b>Order code:</b>	1	2	3
	606710-..	..	.
<b>Order example:</b>	606710-10	20	8

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## Screw-connections

Order code:	1	2			3		4	5				6	
	Process connection	Thread G			Connection material		Immersion tube length "S" in mm	Probe Ø in mm				Probe material	
	<b>Double screw-connection for union nut "50" (B)</b>	G 1/2 L <sub>1</sub> =14	G 3/8 L <sub>1</sub> =12	G 3/4 L <sub>1</sub> =16	CuZn (brass)	CrNi (stainless steel)	100 120 150 200 300 400 Specifications in plain text	5	6	7	8	Cu (Copper)	CrNi (stainless steel)
Order code:	606710-50	13	12	14	46	20	...	5	6	7	8	40	20
	<b>Union nut "52" (C)</b> Plain cylindrical probe, with collar and union nut. Collar soldered or welded to capillary.	G 1/2 L <sub>1</sub> =10	G 3/8 L <sub>1</sub> =7.5	G 3/4 L <sub>1</sub> =11	CuZn (brass)	CrNi (stainless steel)	100 120 150 200 300 400 Specifications in plain text	5	6	7	8	Cu (Copper)	CrNi (stainless steel)
Order code:	606710-52	13	12	14	46	20	...	5	6	7	8	40	20
	<b>fixed screw-connection with hexagon "54" (D)</b> Plain cylindrical probe, thread piece soldered or welded to capillary.	G 1/2 L <sub>1</sub> =14	G 3/8 L <sub>1</sub> =12		CuZn (brass)	CrNi (stainless steel)	100 120 150 200 300 400 Specifications in plain text	5	6	7	8	Cu (Copper)	CrNi (stainless steel)
Order code:	606710-54	13	12		46	20	...	5	6	7	8	40	20

Process connections "50" (B), "52" (C) and "54" (D): max. admissible pressure for device functions STB, STW (STB) = 2 bar / TR, TW and TB on request.

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

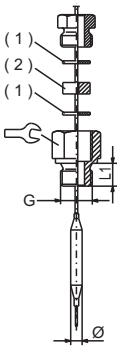




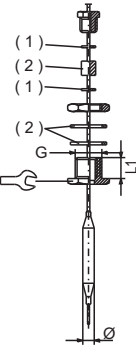



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## Screw-connections

Order code:	1	2		3		Remarks
Process connection		Thread G		Material		
 <p><b>Double screw-connection "60" (Q)</b></p> <p>for retrofitting to the capillary. Probe temperature max. +200°C.</p> <p>(1) Washer (2) Seal</p>		G 1/2 L <sub>1</sub> =14 	G 3/8 L <sub>1</sub> =12 	CuZn (brass) 	CrNi (stainless steel) 	Suitable for probe Ø up to 8 mm. Use <b>only</b> in pressureless medium.
Order code:	606710-60	13	12	46	20	
 <p><b>Stuffing box screw-connection "65" (V)</b></p> <p>for retrofitting to the capillary. Probe temperature max. +200°C.</p> <p>(1) Washer (2) Seal</p>		M 14 x 1 		CuZn (brass) 	CrNi (stainless steel) 	Suitable for probe Ø up to 6 mm. Use <b>only</b> in pressureless medium.
Order code:	606710-65	35		46	20	

	<b>1</b>	<b>2</b>	<b>3</b>
Order code:	606710-..	..	..
Order example:	606710-60	13	20

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## Sheaths

Order code:	1	2		3		4	5					
Process connection		Thread G		Material		Immersion tube length "S" in mm	Immersion tube Ø in mm					
	<b>Screw-in sheath "20" (U)</b> with screw-in spigot, form A as per DIN 3852/2 with locking screw. (Clamping piece to fasten the probe for extra code "f")	G 1/2	G 3/8	CuZn (brass)	CrNi (stainless steel)	100	8 (Internal Ø 6.,5)	10 (Internal Ø 8.5)	15 (Internal Ø 13.5)			
		L <sub>1</sub> =14	L <sub>1</sub> =12			120				150	200	300
						Specifications in plain text						
Order code:	606710-20	13	12	46	20	...				8	10	15
	<b>Screw-in sheath, open "21" (UO)</b> without immersion tube base, with screw-in spigot, form A as per DIN 3852/2 with locking screw. (Clamping piece to fasten the probe for extra code "f")	G 1/2	G 3/8	CuZn (brass)	CrNi (stainless steel)	100				8 (Internal Ø 6.,5)		
		L <sub>1</sub> =14	L <sub>1</sub> =12			120					150	200
						Specifications in plain text						
Order code:	606710-21	13	12	46	20	...	8					
	<b>Sheath with welded collar "22" (US)</b> straight, with locking screw. (Clamping piece to fasten the probe for extra code "f")	without thread		St (Steel)	CrNi (stainless steel)	100	10 (Internal Ø 8.5)	15 (Internal Ø 13.5)				
						120			150		200	300
						Specifications in plain text						
Order code:	606710-22	00		01	20	...				10	15	
	<b>Sheath with welded collar "23" (US)</b> conical from 12 to 8 mm, with locking screw. (Clamping piece to fasten the probe for extra code "f")	without thread		St (Steel)	CrNi (stainless steel)	100			Immersion tube conical from 12 to 8 mm (Internal Ø 6.5)			
						120				150	200	300
						Specifications in plain text						
Order code:	606710-23	00		01	20	...	8					

<b>Order code:</b>	606710-..	-	..	-	..	-	...	-	..
<b>Order example:</b>	606710-20	-	13	-	01	-	100	-	10

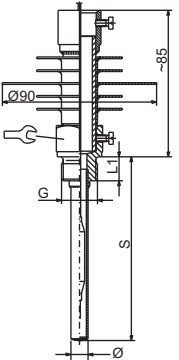
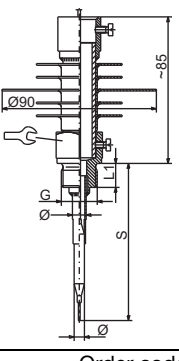
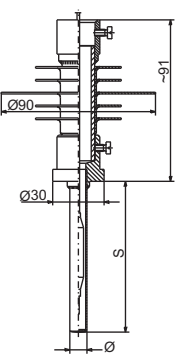
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## Sheaths

Order code:	1	2		3		4	5		
Process connection	Thread G		Material		Immersion tube length "S" in mm	Immersion tube Ø in mm			
 <p><b>Screw-in sheath with intermediate piece "30" (UZ)</b> and locking screw for thermostat with rigid shaft and probe temperature exceeding +150°C.</p>	G 1/2	G 3/8	CrNi (stainless steel)	100 120 150 200 300 400 Specifications in plain text	8 (Internal Ø 6.5)	10 (Internal Ø 8.5)	15 (Internal Ø 13.5)		
	L <sub>1</sub> =14	L <sub>1</sub> =12						27	24
Order code:	606710-30	13	12	20	...	8	10	15	
 <p><b>Sheath with screw-in piece with intermediate piece, open "31" (UZO)</b> and locking screw for thermostat with rigid shaft and probe temperature exceeding +150°C.</p>	G 1/2	G 3/8	CrNi (stainless steel)	100 120 150 200 300 400 Specifications in plain text	8 (Internal Ø 6.5)				
	L <sub>1</sub> =14	L <sub>1</sub> =12				27	24		
Order code:	606710-31	13	12	20	...	8			
 <p><b>Sheath with welded collar and intermediate piece, straight "32" (UZS)</b> and locking screw for thermostats with rigid shaft and probe temperature exceeding +150°C.</p>	without thread		St (Steel)	100 120 150 200 300 400 Specifications in plain text		10 (Internal Ø 8.5)	15 (Internal Ø 13.5)		
			CrNi (stainless steel)						
Order code:	606710-32	00	01	20	...		10	15	

<b>Order code:</b>	1	2	3	4	5
	606710-..	..	..	...	..
<b>Order example:</b>	606710-30	13	20	200	8

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## Sheaths

Order code:	1	2		3		4	5	
Process connection		Thread G		Material		Immersion tube length "S" in mm	Immersion tube Ø in mm	
<p><b>Screw-in sleeve for union nut (52) "40" (E)</b>            Screw-in spigot*, form A as per DIN 3852/2.</p>		G 1/2 L <sub>1</sub> =14 	G 3/8 L <sub>1</sub> =12 	CuZn (brass)	CrNi (stainless steel)	100 120 150 200 300 400 Specifications in plain text	8 (Internal Ø 6.5)	10 (Internal Ø 8.5)
Order code:	606710-40	13	12	46	20	...	8	10
<p><b>Welding sleeve for union nut (52) straight "41" (ES)</b></p>		without thread 		St (Steel)	CrNi (stainless steel)	100 120 150 200 300 400 Specifications in plain text	10 (Internal Ø 8.5)	
Order code:	606710-41	00			01 20	...		10
<p><b>Welding sleeve for union nut (52) conical "42" (ES)</b></p>		without thread 		St (Steel)	CrNi (stainless steel)	100 120 150 200 300 400 Specifications in plain text	Immersion tube conical from 12 to 8 mm (Internal Ø 6.5)	
Order code:	606710-42	00			01 20	...	8	
<p><b>Welding sleeve for union nut (52) with intermediate piece, straight "45" (EVS)</b></p>		without thread 		St (Steel)	CrNi (stainless steel)	100 120 150 200 300 400 Specifications in plain text	10 (Internal Ø 8.5)	15 (Internal Ø 13.5)
Order code:	606710-45	00			01 20	...	10	15

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

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## Sheaths

Order code:	1	2	3		4	5
Process connection		Thread G	Material		Immersion tube length "S" in mm	Immersion tube Ø in mm
<p><b>Welding sleeve for union nut (52) with intermediate piece, conical "46" (EZS)</b></p>		without thread	St (Steel)	CrNi (stainless steel)	100	Immersion tube conical from 12 to 8 mm (Internal Ø 6.5)
					120	
150						
200						
300						
400						
Specifications in plain text			01	20	...	8

Order code:	1	2	3	4	5
Order example:	606710-...	..	..	...	..

## Optional accessories

		Abbreviation for process connections	Part No.
	Sheet steel flange	<b>72</b>	60/60677200
	Wall support	<b>73</b>	60/60171300
	Holder	<b>78</b>	60/00558731 3 pieces
		<b>79</b>	60/00558730 6 pieces

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## Admissible load at the sheath

### Sheaths **20 (U), 22 (US), 30 (UZ), 32 (UZS), 40 (E), 41 (ES), 45 (EZS) and 46 (EZS)**

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

### Sheath made of steel **22, 23, 32, 41, 42, 45 and 46** (Discontinued types: 20, 30, 32 and 40)

Material	Tube	Screw-in nipples	Welding nipples	
	St 35.8 I	Steel 1.0038	Steel 1.5415	
Capacity	Temperature	Pipe diameter		
		8 x 0.75 mm or conical	10 x 0.75 mm	15 x 0.75 mm
	Maximum admissible 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	
350°C	50 bar	40 bar	27 bar	
max. admissible operating temperature	Tube	Nipple	max. admissible operating temperature*	
	St 35.8 I	Screw-in nipples	+300°C	static load
		Welding nipples	+450°C	without load
* observe the max. admissible probe temperature of the respective thermostat version. For operating temperatures > +420°C: observe the operating life of 200,000 h at a static load TRD508. Sheath "21" (UO) and "31" (UZO): Use only in pressureless medium.				

### Sheath 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	15 x 0.75 mm
	Maximum admissible 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. admissible operating temperature*	static load +400°C		without load +530°C	
	* observe the max. admissible probe temperature of the respective thermostat version.			

### Sheath made of brass (must not be used for requirements acc. to PED)

Material	Pipe and nipple: CuZn, nickel plated			
Capacity	Temperature	Pipe diameter		
		8 x 0.75 mm	10 x 0.75 mm	15 x 0.75 mm
	Maximum admissible pressure			
	100°C	50 bar	40 bar	27 bar
150°C	48 bar	39 bar	26 bar	
max. admissible operating temperature*	+150°C			
	* observe the max. admissible probe temperature of the respective thermostat version.			