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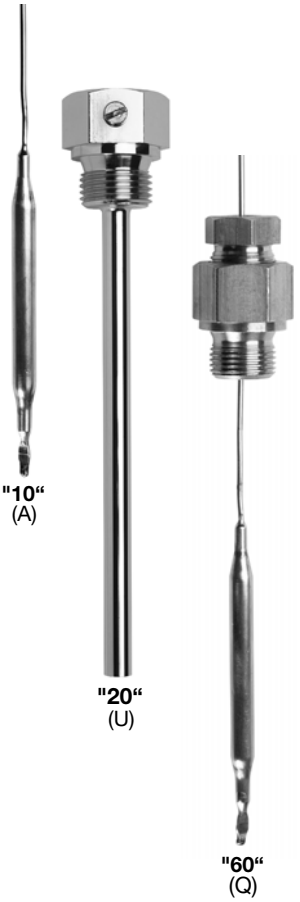
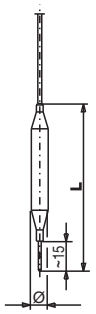
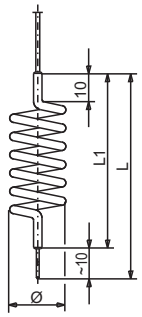
Process connections for thermostats

- **Temperature probes**
- **Screw fittings**
- **Pockets**



Temperature probe

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

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

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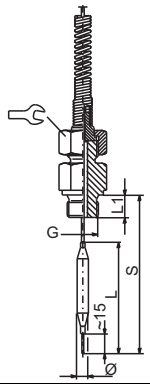
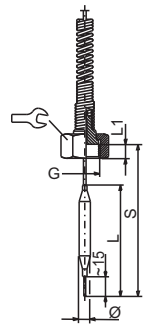
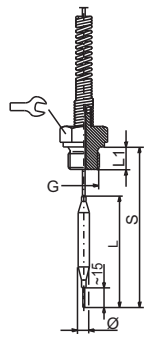
Screw-connections

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	
	**Double screw-connection for union nut "50“** (B)	G 1/2 L1=14 27	G 3/8 L1=12 22	G 3/4 L1=16 32	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
	**Union nut "52“** (C) Plain cylindrical probe, with collar and union nut. Collar soldered or welded to capillary.	G 1/2 L1=10 27	G 3/8 L1=7.5 22	G 3/4 L1=11 32	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
	**fixed screw-connection with hexagon "54“** (D) Plain cylindrical probe, thread piece soldered or welded to capillary.	G 1/2 L1=14 27	G 3/8 L1=12 22		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.

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

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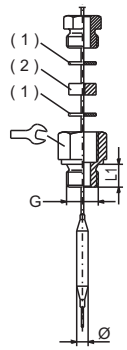
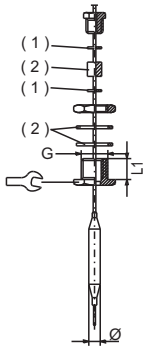
Screw-connections

Order code:	**1**	**2**		**3**		
Process connection		Thread G		Material		Remarks
	**Double screw-connection "60"** (Q) for retrofitting to the capillary. Probe temperature max. +200°C. (1) Washer (2) Seal	G 1/2 L_1=14 27	G 3/8 L_1=12 22	CuZn (brass)	CrNi (stainless steel)	Suitable for probe Ø up to 8 mm. Use **only** in pressureless medium.
Order code:	606710-**60**	13	12	46	20	
	**Stuffing box screw-connection "65"** (V) for retrofitting to the capillary. Probe temperature max. +200°C. (1) Washer (2) Seal	M 14 x 1 19		CuZn (brass)	CrNi (stainless steel)	Suitable for probe Ø up to 6 mm. Use **only** in pressureless medium.
Order code:	606710-**65**	35		46	20	

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

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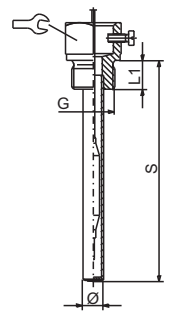
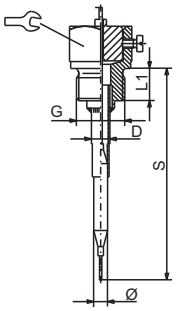
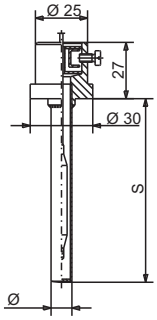
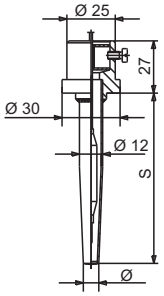
Sheaths

Order code:	**1**	**2**		**3**		**4**	**5**		
Process connection		Thread G		Material		Immersion tube length "S" in mm	Immersion tube Ø in mm		
	**Screw-in sheath "20"** (U) 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 $^1/_2$ L_1=14 27	G $^3/_8$ L_1=12 24	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)	15 (Internal Ø 13.5)
Order code:	606710-**20**	13	12	46	20	. . .	8	10	15
	**Screw-in sheath, open "21"** (UO) 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 $^1/_2$ L_1=14 27	G $^3/_8$ L_1=12 24	CuZn (brass)	CrNi (stainless steel)	100 120 150 200 300 400 Specifications in plain text	8 (Internal Ø 6.,5)		
Order code:	606710-**21**	13	12	46	20	. . .	8		
	**Sheath with welded collar "22"** (US) straight, with locking screw. (Clamping piece to fasten the probe for extra code "f")	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-**22**	00		01	20	. . .		10	15
	**Sheath with welded collar „23"** (US) 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)	100 120 150 200 300 400 Specifications in plain text	Immersion tube conical from 12 to 8 mm (Internal Ø 6.5)		
Order code:	606710-**23**	00		01	20	. . .	8		

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

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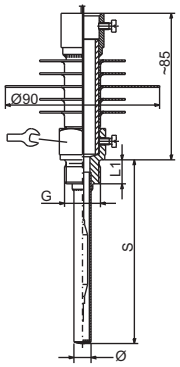
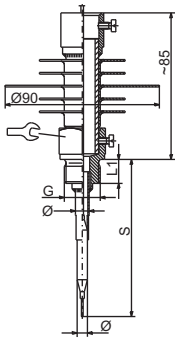
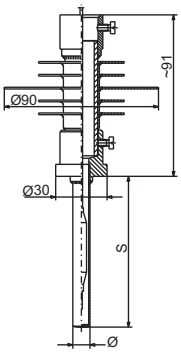
Sheaths

Order code:	**1**	**2**		**3**		**4**	**5**		
Process connection		Thread G		Material		Immersion tube length "S" in mm	Immersion tube Ø in mm		
	**Screw-in sheath with intermediate piece "30"** (UZ) and locking screw for thermostat with rigid shaft and probe temperature exceeding +150°C.	G $^1/_2$ L_1=14 27	G $^3/_8$ L_1=12 24		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)
Order code:	606710-**30**	13	12		20	. . .	8	10	15
	**Sheath with screw-in piece with intermediate piece, open "31"** (UZO) and locking screw for thermostat with rigid shaft and probe temperature exceeding +150°C.	G $^1/_2$ L_1=14 27	G $^3/_8$ L_1=12 24		CrNi (stainless steel)	100 120 150 200 300 400 Specifications in plain text	8 (Internal Ø 6.5)		
Order code:	606710-**31**	13	12		20	. . .	8		
	**Sheath with welded collar and intermediate piece, straight "32"** (UZS) and locking screw for thermostats with rigid shaft and probe temperature exceeding +150°C.	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-**32**	00		01	20	. . .		10	15

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

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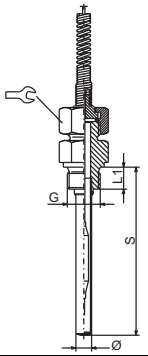
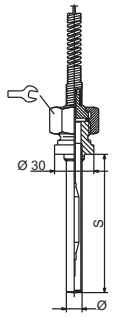
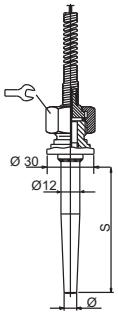
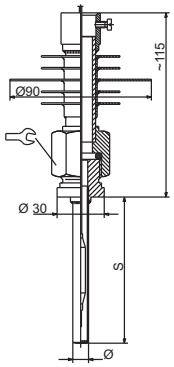
Sheaths

Order code:	**1**	**2**		**3**			**4**	**5**		
Process connection		Thread G		Material			Immersion tube length "S" in mm	Immersion tube Ø in mm		
	**Screw-in sleeve for union nut** (52) **"40"** (E) Screw-in spigot*, form A as per DIN 3852/2.	G $^1/_2$ L_1=14 27	G $^3/_8$ L_1=12 22	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	
	**Welding sleeve for union nut** (52) **straight "41"** (ES)	without thread 27			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	
	**Welding sleeve for union nut** (52) **conical "42"** (ES)	without thread 27			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		
	**Welding sleeve for union nut** (52) **with intermediate piece, straight "45"** (EZS)	without thread 32			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

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

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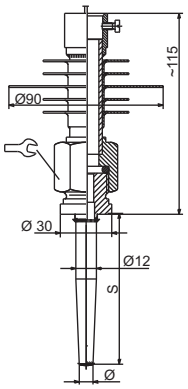
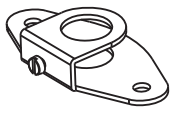
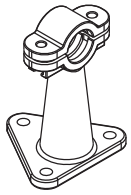
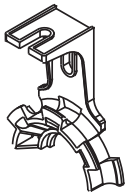
Sheaths

Order code:	**1**	**2**	**3**			**4**	**5**
Process connection		Thread G	Material			Immersion tube length "S" in mm	Immersion tube Ø in mm
	**Welding sleeve for union nut** (52) **with intermediate piece, conical "46"** (EZS)	without thread  32		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-**46**			01	20	. . .	8

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

Optional accessories

		Abbreviation for process connections	Part No.
	Sheet steel flange	**72**	60/60677200
	Wall support	**73**	60/60171300
	Holder	**78**	60/00558731 3 pieces
		79	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*	
			static load	without load
	St 35.8 I	Screw-in nipples	+300°C	+530°C
		Welding nipples	+450°C	
	* 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

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.