



Dopyt

SNÍMAČE TEPLOTY

Séria TR10-B

TR10B-14364745

PT100 2-trôd -50-500°C 150x6mm G1/2 NL=50mm



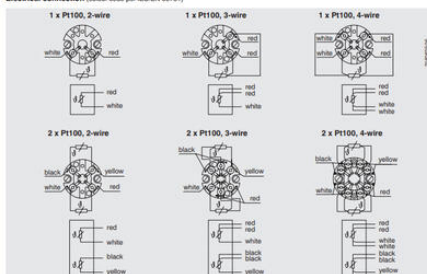
- PT100, PT1000
- Teplota -196 až 600°C
- Pripojenie M, NPT
- Médiá voda, plyny, oleje
- ATEX, IECEx, SIL2, DNV GL

POPIS PRODUKTU

ŠPECIFIKÁCIA

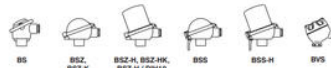
Insertion length	150 mm
Materiál kontaktnej časti	Nerezová oceľ 316Ti
Materiál tela	Hliník
Neck length	0,05 m
Plug diameter	6 mm
Prevádzková teplota max.	500 °C
Prevádzková teplota min.	-50 °C
Teplota okolia do	80 °C
Teplota okolia od	-40 °C
Trieda krytia	IP65

Electrical connection (colour code per IEC-EN 60751)



Connection head

* European designs per EN 50446 / DIN 43725



Model	Material	Cable entry thread size	Ingress protection (max.)	Cap	Surface	Connection to neck tube
BS	Aluminum	M20 x 1.5 or 1/2 NPT **	IP68, IP69	Flat cap with 2 screws	Blue, lacquered **	M24 x 1.5, 1/2 NPT
BSZ	Aluminum	M20 x 1.5 or 1/2 NPT **	IP68, IP69	Spherical fanged cover with cylinder head screw	Blue, lacquered **	M24 x 1.5, 1/2 NPT
BSZ-H	Aluminum	M20 x 1.5 or 1/2 NPT **	IP68, IP69	Paired fanged cover with cylinder head screw	Blue, lacquered **	M24 x 1.5, 1/2 NPT
BSZ-H / DIN10 **	Aluminum	2 x M20 x 1.5 or 2 x 1/2 NPT **	IP68, IP69	Paired fanged cover with cylinder head screw	Blue, lacquered **	M24 x 1.5
BSS	Aluminum	M20 x 1.5 or 1/2 NPT **	IP68	Paired fanged cover with cylinder head screw	Blue, lacquered **	M24 x 1.5, 1/2 NPT
BSS-H	Aluminum	M20 x 1.5 or 1/2 NPT **	IP68	Spherical fanged cover with clamping lever	Blue, lacquered **	M24 x 1.5, 1/2 NPT
BVS	Aluminum	M20 x 1.5 or 1/2 NPT **	IP68	Paired fanged cover with clamping lever	Blue, lacquered **	M24 x 1.5, 1/2 NPT
BVS-H	Aluminum	M20 x 1.5 or 1/2 NPT **	IP68	Paired fanged cover with clamping lever	Blue, lacquered **	M24 x 1.5, 1/2 NPT
BVS	Stainless steel	M20 x 1.5 **	IP68	Precision-cast screw cap with cylinder head screw	Black, electropolished	M24 x 1.5
BVS-H	Plastic	M20 x 1.5 or 1/2 NPT **	IP68	Spherical fanged cover with cylinder head screw	Black	M24 x 1.5
BSZ-HK	Plastic	M20 x 1.5 or 1/2 NPT **	IP68	Paired fanged cover with cylinder head screw	Black	M24 x 1.5

Model	Explosion protection				
	without	Ex I (gas) Zone 0, 1, 2	Ex I (dust) Zone 20, 21, 22	Ex II (gas) Zone 2	Ex II (dust) Zone 22
BS	X	X	X	X	X
BSZ	X	X	X	X	X
BSZ-H (2x cables outlet)	X	X	X	X	X
BSZ-H / DIN10 V	X	X	X	X	X
BSS	X	X	X	X	X
BSS-H	X	X	X	X	X
BVS	X	X	X	X	X
BVS-H	X	X	X	X	X
BSZ-HK	X	X	X	X	X

Cable entry



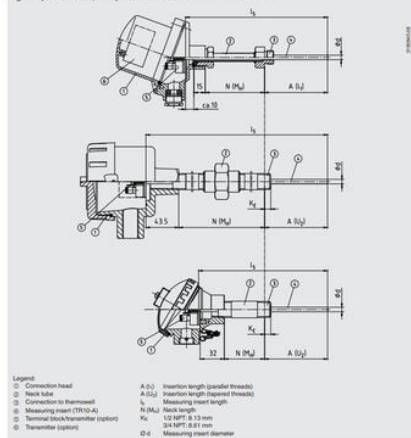
The pictures show examples of connection heads.

Cable entry	Cable entry thread size
Standard cable entry **	M20 x 1.5 or 1/2 NPT
Plastic cable gland (cable Ø 6 ... 10 mm) **	M20 x 1.5 or 1/2 NPT
Nickel-plated brass cable gland (cable Ø 6 ... 12 mm)	M20 x 1.5 or 1/2 NPT
Stainless steel cable gland (cable Ø 7 ... 12 mm)	M20 x 1.5 or 1/2 NPT
Plain threaded	M20 x 1.5 or 1/2 NPT
2 x plain threaded **	2 x M20 x 1.5 or 2 x 1/2 NPT
Junction box M12 x 1 (4-pin) **	M20 x 1.5
Sealing plugs for transport	M20 x 1.5 or 1/2 NPT

Cable entry	Colour	Ingress protection (max.)	Min./max. ambient temperature	Explosion protection (max.)	Ex I (gas) Zone 0, 1, 2	Ex I (dust) Zone 20, 21, 22	Ex II (gas) Zone 1	Ex II (dust) Zone 22
Standard cable entry **	Black	IP68	-40 ... +80 °C	X	X	X	X	X
Plastic cable gland **	Black or grey	IP68, IP69	-40 ... +80 °C	X	X	X	X	X
Light blue	IP68, IP69	-20 ... +80 °C (optional)	X	X	X	X	X	X
Plastic cable gland, Ex **	Black	IP68, IP69	-20 ... +80 °C (optional)	X	X	X	X	X
Nickel-plated brass cable gland, Ex *	Black	IP68, IP69	-40 ... +80 °C	X	X	X	X	X
Nickel-plated brass cable gland, Ex *	Black	IP68, IP69	-40 ... +80 °C	X	X	X	X	X
Stainless steel cable gland	Black	IP68, IP69	-40 ... +80 °C	X	X	X	X	X
Stainless steel cable gland, Ex *	Black	IP68, IP69	-40 ... +80 °C	X	X	X	X	X
Plain threaded	X	IP50	-	X	X	X	X	X
2 x plain threaded **	X	IP50	-	X	X	X	X	X
Junction box M12 x 1 (4-pin) **	X	IP68	-40 ... +80 °C	X	X	X	X	X
Sealing plugs for transport	Transparent	-	-40 ... +80 °C	not applicable, transport protection	-	-	-	-

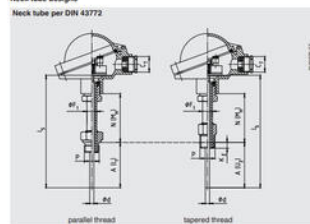
Components model TR10-B

Fig. with parallel thread, for tapered thread see "Connection to thermowell"

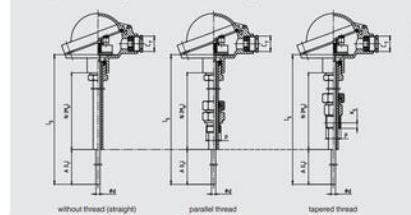


Neck tube

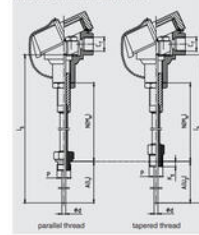
Neck tube designs



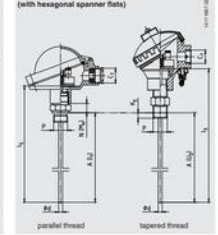
Neck tube per DIN 43772, straight, with/without compression fitting



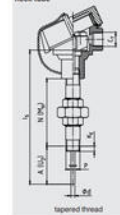
Neck tube, with counter nut to head



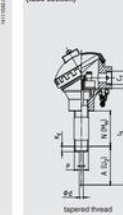
Double threaded hex bushing (with hexagonal spanner flats)



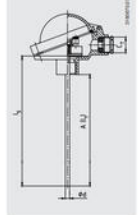
"Nipple-union-nipple" neck tube



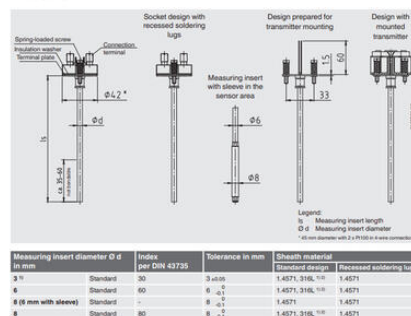
Double threaded hex bushing (tube section)



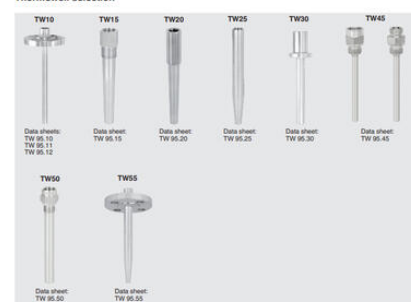
Without neck tube



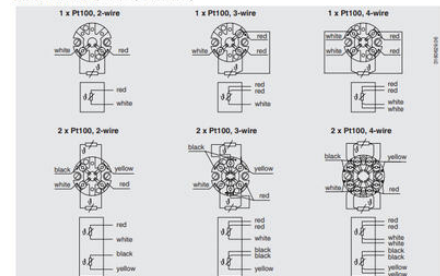
Dimensions in mm



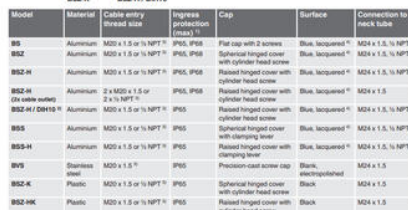
Thermowell selection



Electrical connection (colour code per IEC/EN 60751)



■ European designs per EN 50446 / DIN 43735

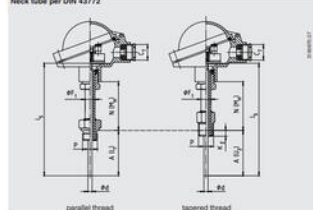


Model	Explosion protection				
	without	Ex 1 (pass) Zone 0, 1, 2	Ex 1 (dust) Zone 20, 21, 22	Ex nA (pass) Zone 0	Ex tc (dust) Zone 22
BS	X	X	-	-	-
BS2	X	X	X	X	-
BS2-H	X	X	X	X	X
BS2-H (2x cable outlet)	X	X	X	X	X
BS2-H / DIN19 1	X	X	-	-	-
BS5	X	X	-	-	-
BS5-H	X	X	-	-	-
BSV	X	X	-	-	-
BS2-K	X	X	-	-	-

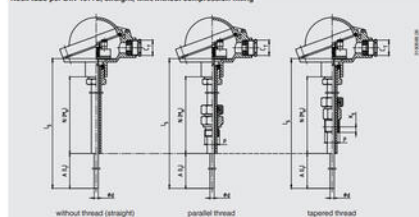
Neck tube designs

Neck tube designs

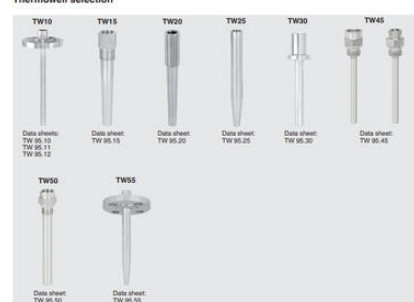
Neck tube per DIN 43772



Neck tube per DIN 43772, straight, with/without compression fitting



Thermowell selection



Standard Plastic Plastic (Ex) Brass, nickel-plated Stainless steel Junction box, M12 x 1 (8-pin)

Plain 2 x plain threaded Sealing plugs for

The pictures show examples of correction heads

Cable entry	Cable entry thread size
Standard cable entry ¹⁾	M20 x 1.5 or 1/4" NPT
Plastic cable gland (cable Ø 6 ... 10 mm) ¹⁾	M20 x 1.5 or 1/4" NPT
Nickel-plated brass cable gland (cable Ø 6 ... 12 mm)	M20 x 1.5 or 1/4" NPT
Stainless steel cable gland (cable Ø 7 ... 12 mm)	M20 x 1.5 or 1/4" NPT
Plan threaded	M20 x 1.5 or 1/4" NPT
2 x plain thread ¹⁾	2 x M20 x 1.5 or 2 x 1/4" NPT
1 x plain thread M10 x 1 (4 pin) ¹⁾	M20 x 1.5
Sealing flange for threaded	M20 x 1.5 or 1/4" NPT

Table entry	Colour	Ingress protection (max.)	Min./max. ambient temperature	Exlosion protection without Ex II Zone 1, 2	Exlosion protection with Ex II Zone 1, 2	Ex max. ambient temperature	Ex max. ambient pressure
Standard cable entry ¹⁾	Black	IP68	-40...+80 °C	x	x	-	-
Plastic cable gland ²⁾	Black or grey	IP68, IP69	-40...+80 °C	x	x	-	-
Plastic cable gland, Ex e ³⁾	Light blue	IP68	-40...+80 °C	x	x	-	-
Plastic cable gland, Ex e ⁴⁾	Black	IP68	-40...+80 °C	x	x	-	-
Nickel-plated brass cable gland	-	IP68	-40...+80 °C	x	x	-	-
Nickel-plated brass cable gland, Ex e	-	IP68	-40...+80 °C	x	x	-	-
Stainless steel cable gland	-	IP68	-40...+80 °C	x	x	-	-
Stainless steel cable gland, Ex e	-	IP68	-40...+80 °C	x	x	-	-
Stainless steel cable gland, Ex e	-	IP68	-40...+80 °C	x	x	-	-
2 pins threaded	-	IP60	-40...+80 °C	x	x	x	x
2 pins threaded	-	IP60	-40...+80 °C	x	x	x	x
3 pin lock with M12 x 1 (4 pins) ⁵⁾	-	IP60	-40...+80 °C	x	x	x	x
3 pin lock with M12 x 1 (4 pins) ⁶⁾	Transparent	IP60	-40...+80 °C	x	x	x	x

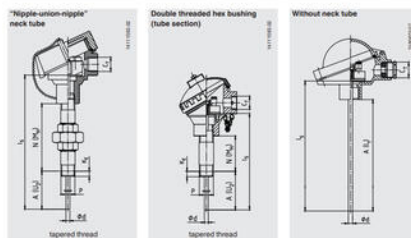
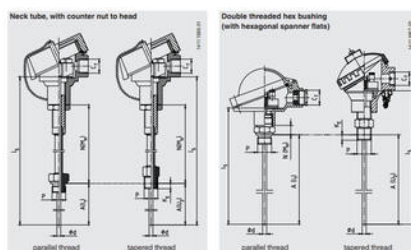
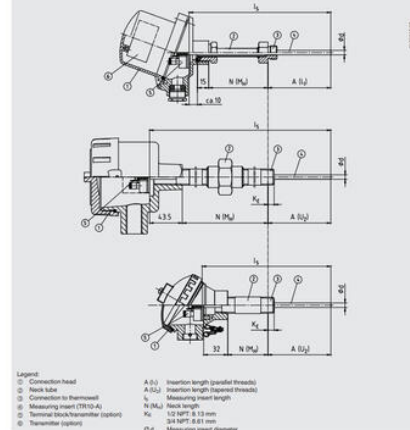
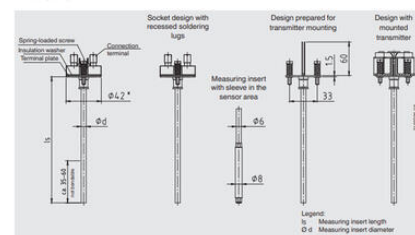


Fig. with parallel thread, for tapered thread see "Connection to thermowell"



Dimensions in mm



Measuring insert diameter Ø d in mm	Index per DIN 43735	Tolerance in mm	Sheath material	
			Standard design	Recessed soldering lug
3 1/2	30	3 +0.05	1.4571, 316L ⁽¹⁾	1.4571
6	60	6 0 -0.1	1.4571, 316L ⁽¹⁾	1.4571
Ø (6 mm with sleeve)	Standard	8 0 -0.1	1.4571	1.4571
8	80	8 0 -0.1	1.4571, 316L ⁽¹⁾	1.4571