

VASTUSLÄMPÖTILA-ANTURI ERILLISELLE SUOJATASKULLE

TR10-B

TR10B-14364658
PT100 3-johdin -50-500°C 150x6mm BSZ

- Mittausalueet -196-600°C
- Vaihdeettava mittaosa
- Kaulan pituus vähintään 30mm
- PT100 tai PT1000
- ATEX optiolla



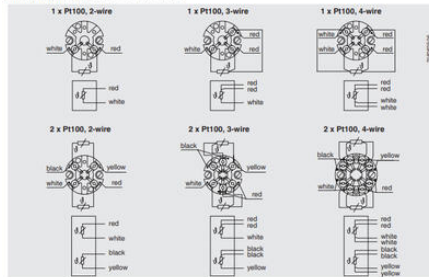
TUOTEKUVAUS

Lämpötila-antureihin on saatavilla laaja valikoima mahdollisia Pt100- tai Pt1000-anturien ja liitäntäpäiden yhdistelmiä, mittauskärkien pituuksia, kaulan pituuksia, suojataskuliitäntöjä jne., jotka sopivat minkä tahansa kokoiseen suojataskuun ja mihin tahansa käyttökohteeseen.

TEKNISEET TIEDOT

Aineen kanssa kosketuksissa olevien osien materiaali	Ruostumaton teräs 316Ti
Asennussyvyys	150 mm
IP-luokka	IP65
Kaulan pituus	0,075 m
Max. käyttölämpötila	500 °C
Max. ympäristön lämpötila	80 °C
Min. käyttölämpötila	-50 °C
Min. ympäristön lämpötila	-40 °C
Pistokkeen halkaisija	6 mm
Rungon materiaali	Alumiini

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
B5	Aluminum	M20 x 1.5 or 1/2 NPT	IP65, IP68	Flat cap with 2 screws	Blue, lacquered	M24 x 1.5, 1/2 NPT
B52	Aluminum	M20 x 1.5 or 1/2 NPT	IP65, IP68	Spherical fanged cover with cylinder head screw	Blue, lacquered	M24 x 1.5, 1/2 NPT
B52-H	Aluminum	M20 x 1.5 or 1/2 NPT	IP65, IP68	Paired fanged cover with cylinder head screw	Blue, lacquered	M24 x 1.5, 1/2 NPT
B52-H / DIN10	Aluminum	M20 x 1.5 or 1/2 NPT	IP65, IP68	Paired fanged cover with cylinder head screw	Blue, lacquered	M24 x 1.5
B55	Aluminum	M20 x 1.5 or 1/2 NPT	IP65, IP68	Paired fanged cover with cylinder head screw	Blue, lacquered	M24 x 1.5, 1/2 NPT
B55-H	Aluminum	M20 x 1.5 or 1/2 NPT	IP65	Paired fanged cover with clamping lever	Blue, lacquered	M24 x 1.5, 1/2 NPT
B55	Aluminum	M20 x 1.5 or 1/2 NPT	IP65	Paired fanged cover with clamping lever	Blue, lacquered	M24 x 1.5
B55-H	Aluminum	M20 x 1.5 or 1/2 NPT	IP65	Paired fanged cover with clamping lever	Blue, lacquered	M24 x 1.5, 1/2 NPT
B55	Stainless steel	M20 x 1.5	IP65	Precision-cast screw cap	Black, electropolished	M24 x 1.5
B52-K	Plastic	M20 x 1.5 or 1/2 NPT	IP65	Spherical fanged cover with cylinder head screw	Black	M24 x 1.5
B52-HK	Plastic	M20 x 1.5 or 1/2 NPT	IP65	Paired fanged cover with cylinder head screw	Black	M24 x 1.5

Model	Explosion protection	Ex I (gas) Zone 0, 1, 2	Ex I (dust) Zone 20, 21, 22	Ex II (gas) Zone 1, 2	Ex II (dust) Zone 22
B5	X	X	X	X	X
B52	X	X	X	X	X
B52-H	X	X	X	X	X
B52-H / DIN10	X	X	X	X	X
B55	X	X	X	X	X
B55-H	X	X	X	X	X
B55	X	X	X	X	X
B55-H	X	X	X	X	X
B55	X	X	X	X	X
B52-K	X	X	X	X	X
B52-HK	X	X	X	X	X

Cable entry



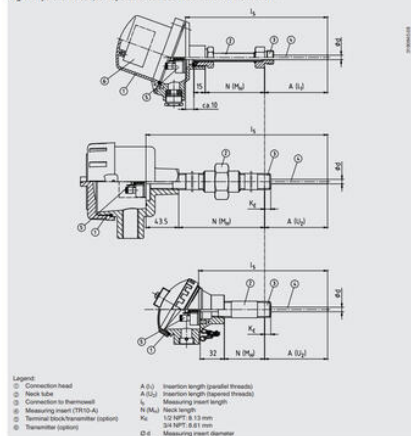
The pictures show examples of connection heads.

Cable entry	Cable entry thread size
Standard cable entry	M20 x 1.5 or 1/2 NPT
Plastic cable gland (cable Ø 4 ... 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, 2	Ex II (dust) Zone 22
Standard cable entry	Black	IP65, IP68	-40 ... +80 °C	X	X	X	X	X
Plastic cable gland	Black or grey	IP65, IP68	-40 ... +80 °C	X	X	X	X	X
Plastic cable gland, Ex	Light blue	IP65, IP68	-20 ... +80 °C (optional)	X	X	X	X	X
Plastic cable gland, Ex	Black	IP65, IP68	-20 ... +80 °C (optional)	X	X	X	X	X
Nickel-plated brass cable gland	Black	IP65, IP68	-40 ... +80 °C	X	X	X	X	X
Nickel-plated brass cable gland, Ex	Black	IP65, IP68	-40 ... +80 °C	X	X	X	X	X
Stainless steel cable gland	Black	IP65, IP68	-40 ... +80 °C	X	X	X	X	X
Stainless steel cable gland, Ex	Black	IP65, IP68	-40 ... +80 °C	X	X	X	X	X
Plain threaded	X	IP50	-40 ... +80 °C	X	X	X	X	X
2 x plain threaded	X	IP50	-40 ... +80 °C	X	X	X	X	X
Junction box M12 x 1 (4-pin)	X	IP65	-40 ... +80 °C	X	X	X	X	X
Sealing plugs for transport	Transparent	X	-40 ... +80 °C	Not applicable, transport protection	X	X	X	X

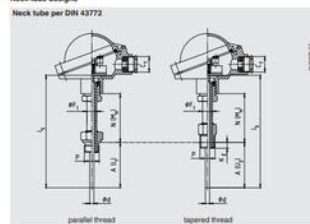
Components model TR10-B

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

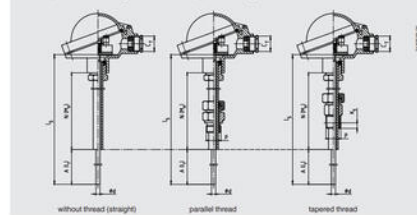


Neck tube

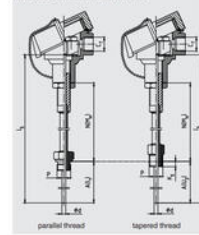
Neck tube designs



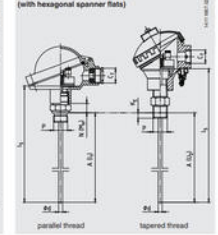
Neck tube per DIN 43772, straight, with/without compression fitting



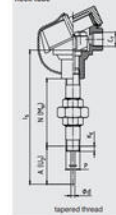
Neck tube, with counter nut to head



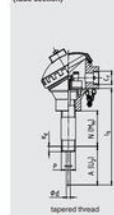
Double threaded hex bushing (with hexagonal spanner flats)



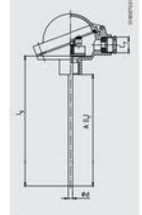
"Nipple-union-nipple" neck tube



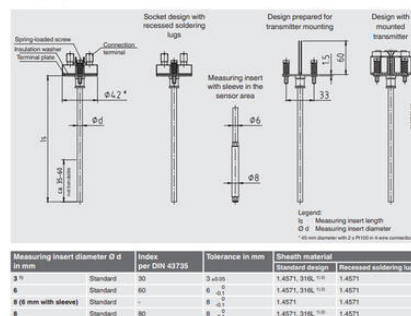
Double threaded hex bushing (tube section)



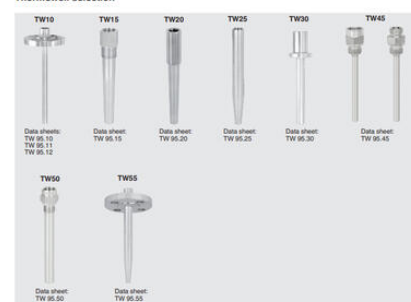
Without neck tube



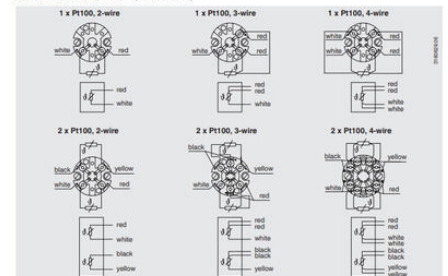
Dimensions in mm



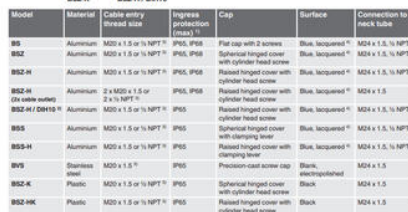
Thermowell selection



Electrical connection (colour code per IEC/EN 60751)



■ European designs per EN 50446 / DIN 43735

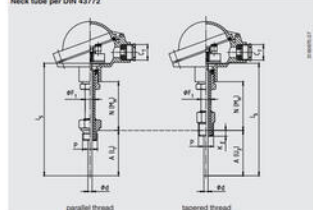


Model	Exposition protection				
	without	Ex 1 (apt) Zone 0, 1, 2	Ex 1 (dwelt) Zone 20, 21, 22	Ex xA (apt) Zone 2	Ex 1c (dwelt) Zone 23
BS	X	X	-	-	-
BS2	X	X	-	-	-
BS2-H	X	X	X	X	X
BS2-H (2x cable outlet)	X	X	X	X	X
BS2-H / DIN19 1	X	X	-	-	-
BS5	X	X	-	-	-
BS5-H	X	X	-	-	-
BS6	X	X	-	-	-
BS2-H	X	X	-	-	-
BS2-HV	X	X	-	-	-

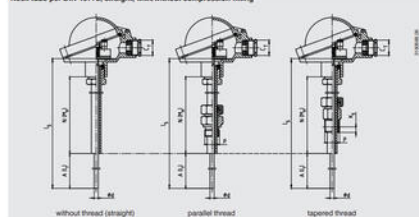
Neck tube designs

Neck tube designs

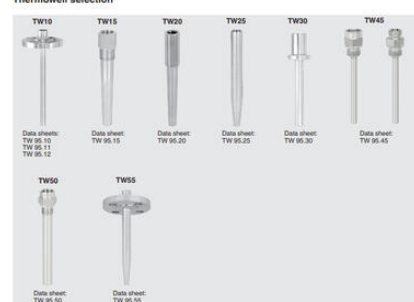
Neck tube per DIN 43772



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 (4-pin)

Plain 2 x plain threaded Sealing plugs for

The pictures show examples of correction heads

Cable entry	Cable entry threaded size
Standard cable entry 1)	M20 x 1.5 or 1/2" NPT
Plastic cable gland (cable Ø 6 ... 10 mm) 1)	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
Pin threaded 1)	M20 x 1.5 or 1/2" NPT
2 pin threaded 1)	2 x M20 x 1.5 or 2 x 1/2" NPT
Insertion from M12 x 1 (4 pin) 1)	M20 x 1.5
Sealing flange for 1/2" NPT 1)	M20 x 1.5 or 1/2" NPT

Table entry	Colour	Ingress protection (max.)	Min./max. ambient temperature	Exhaustion without Exh. Zone 1, 2	Exhaustion with Exh. Zone 1, 2	Ex. max. 20 min	Ex. max. 30 min
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 pin threaded	-	IP60	-40...+80 °C	x	x	x	x
3 pin threaded	-	IP60	-40...+80 °C	x	x	x	x
2 pin lock with M12 x 1 (4 pins) ⁵⁾	-	IP60	-40...+80 °C	x	x	x	x
2 pin lock with M12 x 1 (4 pins) ⁶⁾	Translucent	IP60	-40...+80 °C	x	x	x	x

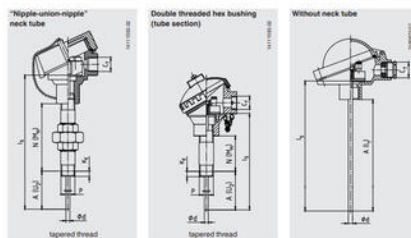
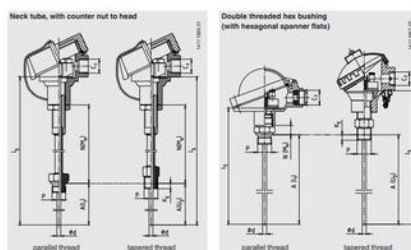
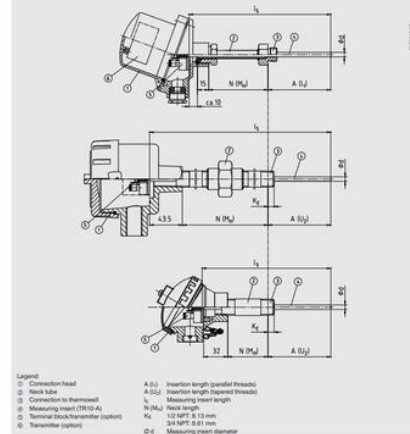
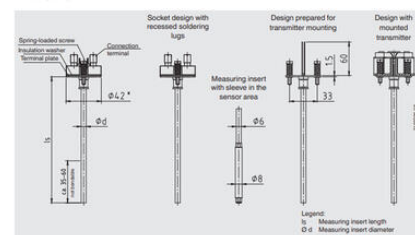


Fig. with parallel thread, for tapered thread see "Connection to thermowell"



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	1.4571, 316L ⁽¹⁾	1.4571
Ø (6 mm with sleeve)	Standard	8 -0.1	1.4571	1.4571
8	80	8 0	1.4571, 316L ⁽¹⁾	1.4571