

Datasheet

# IEC Type T Mineral Insulated Thermocouples with Threaded Pot

Type 'T' with threaded pot & tails – 316 stainless steel



- Mineral insulated Type 'T' Thermocouple
- 316 stainless steel
- Highly flexible, sheath can be bent/formed to suit many applications and processes
- diameters include 1.0, 1.5 & 3.0mm
- Insulated hot junction
- Probe temperature range -100°C to +400°C
- M8 x 1.0mm fine pitch threaded pot seal (200°C)
- M8 locknuts available as an option (see below)
- 100mm tails, PFA twin twisted 7/0.2mm, colour coded to IEC 584

**Specifications**

Sensor type:	Type 'T' to IEC 584
Construction:	Flexible mineral insulated probe with 316 stainless steel sheath with M8 x 1.0mm fine pitch threaded pot seal & tails
Element/hot junction:	Single element, junction insulated from sheath (offers protection against spurious electrical signals)
Termination:	100mm PFA twin twisted 7/0.2mm tails, +Brown/-White colour coded in accordance with IEC 584
Probe temperature range:	-100°C to +400°C
Pot seal rating:	200°C

T/C Type	Probe Dia. (mm)	Probe Length (mm)	Sheath	+Positive tail wire	-Negative tail wire	RS order code
T	1.0	150	316ss	Brown	White	<b>891-9090</b>
T	1.0	250	316ss	Brown	White	<b>891-9094</b>
T	1.0	500	316ss	Brown	White	<b>891-9104</b>
T	1.0	1000	316ss	Brown	White	<b>891-9107</b>
T	1.5	150	316ss	Brown	White	<b>891-9101</b>
T	1.5	250	316ss	Brown	White	<b>891-9110</b>
T	1.5	500	316ss	Brown	White	<b>891-9113</b>
T	1.5	1000	316ss	Brown	White	<b>891-9117</b>
T	3.0	150	316ss	Brown	White	<b>891-9126</b>
T	3.0	250	316ss	Brown	White	<b>891-9129</b>
T	3.0	500	316ss	Brown	White	<b>891-9123</b>

**Optional M8 x 1 fine pitch threaded Locknuts:**

Brass:



**Thread**

Brass M8 x 1mm

**RS order code**

762-1162

Stainless Steel:



**Thread**

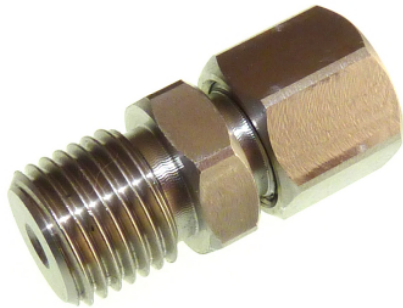
S/Steel M8 x 1mm

**RS order code**

762-1187

**Stainless Steel Compression Glands – Parallel, Tapered & M16 Thread**

(BSP, BSPT, M16)



*(BSP parallel example - 381-7362, see below for other sizes)*



*(BSPT tapered example – 286-787, see below for other sizes)*

- Thermocouple installation fittings
- To suit a wide range of mineral insulated and other probe type sensors offered by RS
- Male in-line stainless steel compression type with nut & olive
- 1/8", 1/4", & 1/2" BSP parallel or BSPT tapered threads available. 1/2" M16 thread also available.
- Suits 1.0mm, 1.5mm, 3.0mm, 4.0mm, 4.5mm, 6.0mm, 8.0mm, 1/8", 1/4" or 3/16" probe diameters
- Stainless steel locknuts also available (see below)

**BSP Parallel:**

Type	Thread Size	Thread Type	Suits Probe Ø	Allied code	RS order code
St/Steel	1/8"	BSP Parallel	1.0mm	70654828	<b>804-7975</b>
RS209/0816					

St/Steel	1/8"	BSP Parallel	1.5mm	70643728	<b>381-7334</b>
St/Steel	1/8"	BSP Parallel	3.0mm	70643729	<b>381-7340</b>
St/Steel	1/8"	BSP Parallel	4.0mm	70657784	<b>839-9566</b>
St/Steel	1/8"	BSP Parallel	4.5mm	70657785	<b>839-9569</b>
St/Steel	1/8"	BSP Parallel	6.0mm	70643730	<b>381-7356</b>
St/Steel	1/8"	BSP Parallel	1/4"		<b>110-4476</b>
St/Steel	1/8"	BSP Parallel	1/8"	70657782	<b>839-9557</b>
St/Steel	1/8"	BSP Parallel	3/16"	70657783	<b>839-9563</b>

St/Steel	1/4"	BSP Parallel	3.0mm	70643731	<b>381-7362</b>
St/Steel	1/4"	BSP Parallel	4.5mm	70657786	<b>839-9572</b>
St/Steel	1/4"	BSP Parallel	6.0mm	70643732	<b>381-7378</b>
St/Steel	1/4"	BSP Parallel	1/4"	70657787	<b>839-9575</b>
St/Steel	1/4"	BSP Parallel	3/16"	70657779	<b>839-9547</b>

St/Steel	1/2"	BSP Parallel	3.0mm	70657788	<b>839-9579</b>
St/Steel	1/2"	BSP Parallel	4.5mm	70657791	<b>839-9588</b>
St/Steel	1/2"	BSP Parallel	6.0mm	70643735	<b>381-7407</b>
St/Steel	1/2"	BSP Parallel	8.0mm	70657789	<b>839-9581</b>

**BSPT Tapered:**

Type	Thread Size	Thread Type	Suits Probe Ø	Allied code	RS order code
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St/Steel	1/8"	BSPT Tapered	1.0mm	70654831	<b>804-7984</b>
St/Steel	1/8"	BSPT Tapered	1.5mm	70637825	<b>286-743</b>
St/Steel	1/8"	BSPT Tapered	3.0mm	70636461	<b>158-610</b>
St/Steel	1/8"	BSPT Tapered	4.5mm	70637826	<b>286-759</b>
St/Steel	1/8"	BSPT Tapered	6.0mm	70657792	<b>839-9591</b>
St/Steel	1/8"	BSPT Tapered	1/4"		<b>110-4475</b>
St/Steel	1/8"	BSPT Tapered	1/8"	70657793	<b>839-9594</b>
St/Steel	1/8"	BSPT Tapered	3/16"	70657794	<b>839-9597</b>

St/Steel	1/4"	BSPT Tapered	3.0mm	70643733	<b>381-7384</b>
St/Steel	1/4"	BSPT Tapered	4.5mm	70657796	<b>839-9604</b>
St/Steel	1/4"	BSPT Tapered	6.0mm	70643734	<b>381-7390</b>
St/Steel	1/4"	BSPT Tapered	1/4"	70657797	<b>839-9608</b>
St/Steel	1/4"	BSPT Tapered	1/8"	70657795	<b>839-9601</b>
St/Steel	1/4"	BSPT Tapered	3/16"	70657790	<b>839-9585</b>

St/Steel	1/2"	BSPT Tapered	3.0mm	70657777	<b>839-9541</b>
St/Steel	1/2"	BSPT Tapered	4.5mm	70637828	<b>286-787</b>
St/Steel	1/2"	BSPT Tapered	6.0mm	70637829	<b>286-793</b>
St/Steel	1/2"	BSPT Tapered	8.0mm	70657780	<b>839-9550</b>

**M16**

St/Steel	1/2"	M16	3.0mm	70657800	<b>839-9617</b>
St/Steel	1/2"	M16	6.0mm	70657798	<b>839-9610</b>
St/Steel	1/2"	M16	8.0mm	70657799	<b>839-9614</b>

Stainless Steel locknuts also available:



Thread	Allied code	RS order code
S/Steel 1/8" BSPP	70651759	<b>762-1180</b>
S/Steel 1/4" BSPP	70651760	<b>762-1184</b>
S/Steel 1/2" BSPP	70651762	<b>762-1193</b>

## Brass Compression Glands – Parallel, Tapered & NPT Thread

BSP, BSPT & NPT



- Thermocouple installation fittings
- To suit a wide range of mineral insulated and other probe type sensors offered by RS
- Male in-line brass compression type with nut & olive
- 1/8" & 1/4" BSP parallel thread to suit 1.5, 3.0, 4.0, 4.5 & 6.0mm. 3/16 also available.
- 1/2", 1/4" & 1/8" BSPT tapered thread to suit 1.5mm, 3.0mm, 4.5mm, 6.0mm, 1/8" & 3/16"
- Brass locknuts also available

### BSPP Parallel:

Type	Thread Size	Thread Type	Suits Probe Ø	Allied code	RS order code
Brass	1/8"	BSP Parallel	1.5mm	70657765	<b>839-9496</b>
Brass	1/8"	BSP Parallel	3.0mm	70643725	<b>381-7277</b>
Brass	1/8"	BSP Parallel	4.0mm	70657764	<b>839-9490</b>
Brass	1/8"	BSP Parallel	4.5mm	70657766	<b>839-9500</b>
Brass	1/8"	BSP Parallel	6.0mm	70657768	<b>839-9507</b>
Brass	1/8"	BSP Parallel	3/16	70657767	<b>839-9503</b>
Brass	1/4"	BSP Parallel	3.0mm	70643727	<b>381-7306</b>
Brass	1/4"	BSP Parallel	4.5mm	70657770	<b>839-9519</b>
Brass	1/4"	BSP Parallel	3/16	70657769	<b>839-9513</b>

### BSPT Tapered:

Brass	1/8"	BSPT Tapered	1.5mm	70637822	<b>286-715</b>
Brass	1/8"	BSPT Tapered	3.0mm	70637823	<b>286-721</b>
Brass	1/8"	BSPT Tapered	4.5mm	70637824	<b>286-737</b>
Brass	1/8"	BSPT Tapered	6.0mm	70657773	<b>839-9529</b>
Brass	1/8"	BSPT Tapered	1/8	70657771	<b>839-9522</b>
Brass	1/8"	BSPT Tapered	3/16	70657772	<b>839-9525</b>

Brass	1/4"	BSPT Tapered	3.0mm	70657774	<b>839-9531</b>
Brass	1/4"	BSPT Tapered	6.0mm	70657778	<b>839-9544</b>
Brass	1/4"	BSPT Tapered	1/4mm	70657776	<b>839-9538</b>
Brass	1/4"	BSPT Tapered	3/16	70657775	<b>839-9535</b>
Brass	1/2"	BSPT Tapered	6.0mm	70657781	<b>286-771</b>

<b>NPT</b>					
Brass	1/8"	NPT	1.5mm	70657781	<b>839-9553</b>

**Brass locknuts also available:**



<b>Thread</b>	<b>Allied code</b>	<b>RS order code</b>
Brass 1/8" BSPP	70651756	<b>762-1171</b>
Brass 1/4" BSPP	70651757	<b>762-1174</b>
Brass 1/2" BSPP	70651758	<b>762-1178</b>