

Accessories - Pencil-type Thermocouples

Pressures to 11,500 psi (793 bar)

Thermocouples provide reliable temperature measurement within a fluid system.

The design permits installation of the element in direct contact with the fluid stream, thereby providing reliable temperature measurement. The quick-connector affords system flexibility. The thermocouple tip has a grounded-type junction.

Materials

Precision-molded plastic connectors have heavy duty, spring-loaded jack inserts for positive contact. The sheath is type 316 stainless steel with 316 SS ferrule and gland. We offer a choice of iron constantan (J) or chromel-alumel (K) type elements (please specify when ordering). Basic assembly includes 1/8" Autoclave Speedbite connection with adapters for other connection sizes.

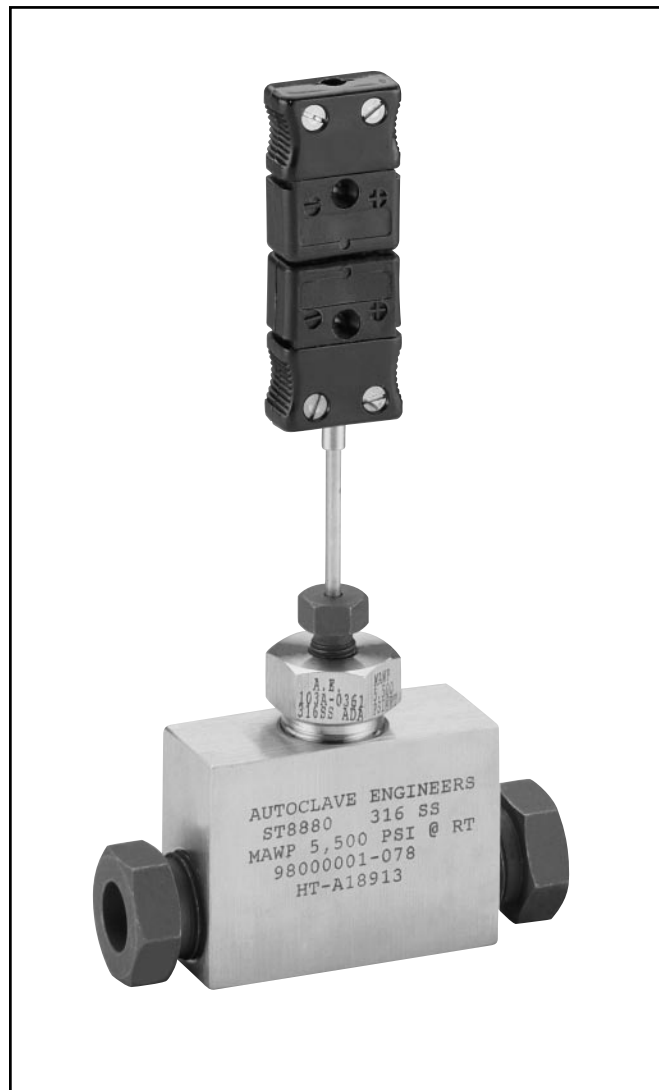
Pressure/Temperature Ratings

Ratings to 11,500 psi (793 bar) maximum working pressure. Temperatures at thermocouple tip can range to 1,200°F (649°C) (SpeedBite connection not recommended below 0°F (-17.8°C) or above 650°F (343°C).)

Ordering Information

Catalog order numbers in the table refer to the complete assembly. Add suffix "J" for iron constantan element or "K" for chromel-alumel. To order a basic thermocouple with plug/jack assembly and connection (without through or angle block), change last digit in order number to "0" and specify sheath length if different from standard 3.62" (91.94 mm) length.

Ordering examples: TP4400K 6" (152.4 mm) denotes basic thermocouple to fit into a 1/4" Autoclave SpeedBite connection with chromel-alumel element and 6" (152.4 mm) sheath. TP 4401K denotes the above unit complete with through-type block and standard 3.62" (91.94 mm) sheath.



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Catalog Number	Fits Connection Type	Tubing Size Inches (mm)	Dimensions - inches (mm)						Block Thickness	Fitting Pattern
			A	B	C	D	E	H		

Through-Type

TP2201	W125	1/8 (3.18)	1.38 (35.05)	0.69 (17.53)	0.31 (7.87)	3.62 (91.95)	1.00 (25.40)	7.18 (182.37)	0.50 (12.70)	See Figure 1
TP4401	SW250	1/4 (6.35)	1.75 (44.45)	0.88 (22.35)	0.44 (11.18)	3.62 (91.95)	1.19 (30.23)	7.25 (184.15)	0.62 (15.75)	
TP6601	SW375	3/8 (9.52)	2.00 (50.80)	1.00 (25.40)	0.53 (13.46)	3.62 (91.95)	1.38 (35.05)	7.31 (185.67)	0.75 (19.05)	
TP8801	SW500	1/2 (12.70)	2.50 (63.50)	1.25 (31.75)	0.53 (13.46)	3.62 (91.95)	1.75 (44.45)	7.44 (188.98)	1.00 (25.40)	

Angle-Type

TP2202	W125	1/8 (3.18)	1.00 (25.40)	0.75 (19.05)	0.31 (7.87)	3.62 (91.95)	1.38 (35.05)	7.62 (193.55)	0.50 (12.70)	See Figure 2
TP4402	SW250	1/4 (6.35)	1.19 (30.23)	0.88 (22.35)	0.44 (11.18)	3.62 (91.95)	1.75 (44.45)	7.81 (198.37)	0.62 (15.75)	
TP6602	SW375	3/8 (9.52)	1.38 (35.05)	1.00 (25.40)	0.53 (13.46)	3.62 (91.95)	2.00 (50.80)	7.94 (201.68)	0.75 (19.05)	
TP8802	SW500	1/2 (12.70)	1.75 (44.45)	1.25 (31.75)	0.53 (13.46)	3.62 (91.95)	2.50 (63.50)	8.19 (208.03)	1.00 (25.40)	

Note: All thermocouples are furnished complete with connection components unless otherwise specified.

All dimensions for reference only and subject to change.
For prompt service, Autoclave stocks select products. Consult your local representative.

Maximum pressure rating is based on the lowest rating of any component.
Actual working pressure may be determined by tubing pressure rating, if lower.

