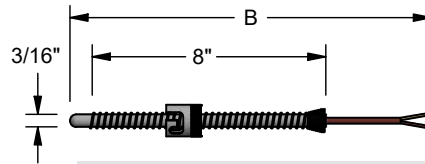
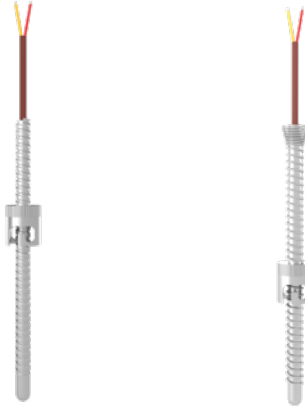


PLASTICS MACHINERY THERMOCOUPLE

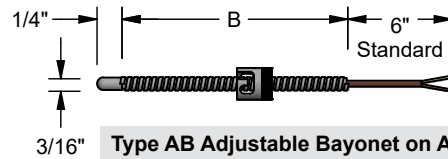
Plastics Machinery Thermocouples are commonly used on presses and injection molding machines. Several models feature spring loaded adjustable depth bayonet cap design, this allows the same length thermocouple to fit multiple machines.



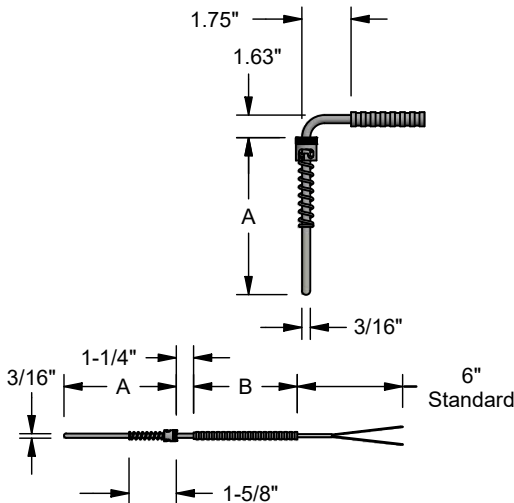
Made in USA



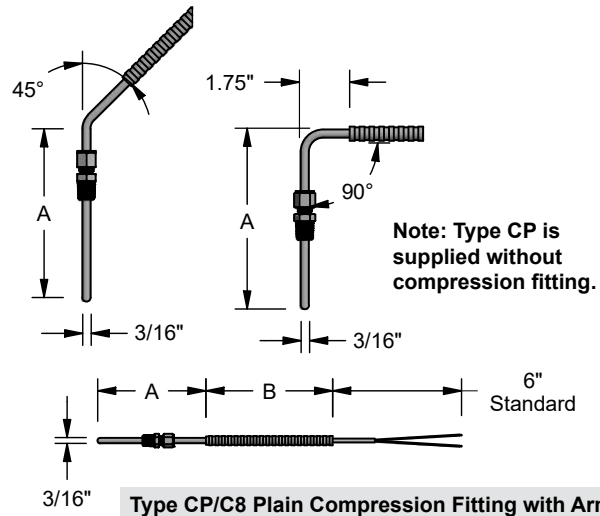
Type SB Adjustable Bayonet on Spring



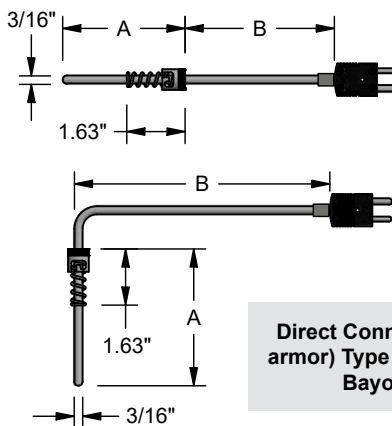
Type AB Adjustable Bayonet on Armor



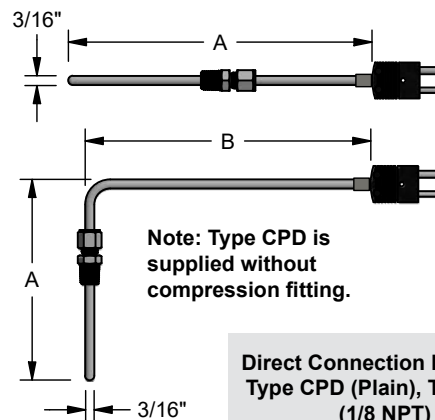
Type FB Fixed Bayonet



Type CP/C8 Plain Compression Fitting with Armor



Direct Connection (no armor) Type FBD (Fixed Bayonet)



Direct Connection No Armor Type CPD (Plain), Type C8D (1/8 NPT)

PLASTICS MACHINERY THERMOCOUPLE

BUILD YOUR PLASTICS THERMOCOUPLE: Choose options to build a part number. For example: **PFBJSJG2.512S**

P	FB	JS	G	2.5	12
SERIES	STYLE	THERMOCOUPLE TYPE	SENSOR GROUNDING	STEM LENGTH "A" (FIXED STYLE ONLY)	"B" LENGTH
P = Plastics Machinery Thermocouple	Adjustable Bayonet AB = Adjustable Bayonet on Armor SB = Adjustable Bayonet on Spring Fixed Bayonet FB = Fixed Bayonet Compression Fitting/ Armor C8 = With 1/8" Male NPT CP = Plain without Fitting Direct Connect/ No Armor FBD = Fixed Bayonet without Armor C8D = 1/8" Male NPT CPD = Plain	JS = Type J Single KS = Type K Single ES = Type E Single TS = Type T Single JD = Type J Dual KD = Type K Dual ED = Type E Dual TD = Type T Dual <i>For thermocouple accuracy information see page 5.</i> <i>For thermocouple temperature operating ranges see page 6.</i>	G = Grounded U = Ungrounded	NA = Enter "NA" for style AB or SB 1.0 = 1" 1.2 = 1-1/4" 1.5 = 1-1/2" 1.7 = 1-3/4" 2.0 = 2" 2.5 = 2-1/2" 2.7 = 2-3/4"	= Leave blank if None 12 = 12" 24 = 24" ?? = Custom Length in Inches
S					
WIRE TERMINATION		BEND ANGLE (OPTIONAL)			

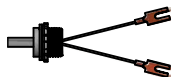
S = Stripped Leads
L = Spade Lugs
F = Standard Male Plug
G = Standard Female Jack
C = Mini Male Plug
D = Mini Female Plug
B = BX Connector with Spade Lugs



G= Standard Female Jack

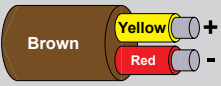
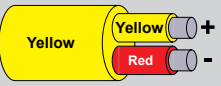
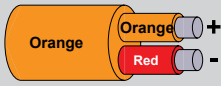
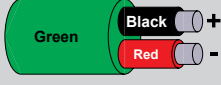
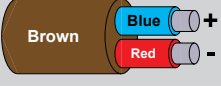
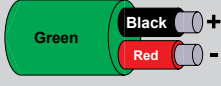


F= Standard Male Plug



B = BX Connector

REFERENCE INFORMATION

THERMOCOUPLE WIRE COLOR CODES (U.S.A. ANSI) 					
Thermocouple Grade	Extension Grade	Plug/Jack	Thermocouple Grade	Extension Grade	Plug/Jack
K 		Yellow	N 		Orange
J 		Black	S None Established		Green
T 		Blue	R None Established		Green
E 		Purple	B None Established		White

THERMOCOUPLE & RTD ACCURACIES										
	Type K	Type J	Type T	Type E	Type N	Type S	Type R	Type B	RTD Class B	RTD Class A
-328°F	*	—	*	*	—	—	—	—	± 2.34°F	± 2.34°F
-148°F	*	—	*	*	—	—	—	—	± 1.44°F	± 1.44°F
32°F	± 3.96°F	± 3.96°F	± 1.8°F	± 3.06°F	± 3.96°F	± 2.7°F	± 2.7°F	—	± 0.54°F	± 0.27°F
392°F	± 3.96°F	± 3.96°F	± 2.7°F	± 3.06°F	± 3.96°F	± 2.7°F	± 2.7°F	—	± 2.34°F	± 0.99°F
752°F	± 5.4°F	± 5.4°F	—	± 3.6°F	± 5.4°F	± 2.7°F	± 2.7°F	—	± 4.14°F	± 4.14°F
1112°F	± 8.1°F	± 8.1°F	—	± 5.4°F	± 8.1°F	± 2.7°F	± 2.7°F	—	± 5.94°F	± 5.94°F
1472°F	± 10.8°F	—	—	± 7.2°F	± 10.8°F	± 3.6°F	± 3.6°F	—	—	—
1832°F	± 13.5°F	—	—	—	± 13.5°F	± 4.5°F	± 4.5°F	± 9°F	—	—
2192°F	± 16.2°F	—	—	—	± 16.2°F	± 5.4°F	± 5.4°F	± 10.8°F	—	—
2552°F	—	—	—	—	—	± 6.3°F	± 6.3°F	± 12.6°F	—	—
2912°F	—	—	—	—	—	—	—	± 14.4°F	—	—

Note: The accuracies in the above table are estimates given at fixed points, they do not apply to temperature ranges and are intended only as examples to give a general idea of what can be expected. Consult Reotemp if a specific accuracy is required or to confirm accuracies at any points not listed in the above table.

*Thermocouples are normally supplied to meet the tolerances specified in the table for temperatures above 32°F. The same materials, however, may not fall within the tolerances for temperatures below 32°F. If materials are required to meet the tolerances stated for temperatures below 32°F, contact Reotemp sales.

Looking
for better
accuracy?



Reotemp offers **RTDs** up to 5x more accurate than Class B RTDs with the Hi-Accuracy™ option.

Thermocouples up to 2x more accurate with the Special Limits of Error option.

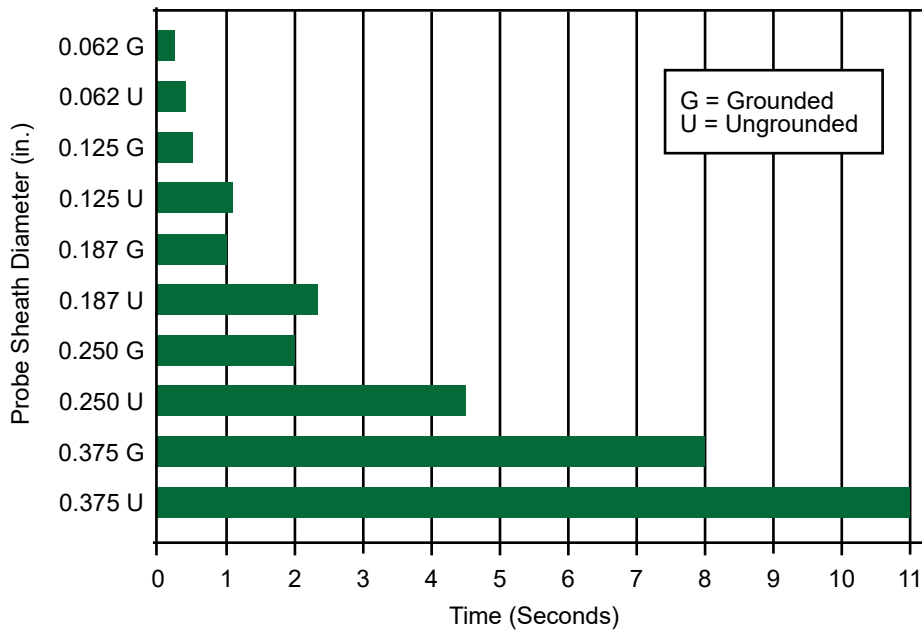
REFERENCE INFORMATION

THERMOCOUPLES

THERMOCOUPLE TEMPERATURE OPERATING RANGES		
Type	Minimum Temp. °F	Maximum Temp. °F
K	-328	2300
J	32	1400
T	-328	700
E	-328	1600
N	32	2300
S	32	2700
R	32	2700
B	1600	3100

THERMOCOUPLE TYPICAL RESPONSE TIMES

63.2% Temperature Change in an Agitated Water Bath



TEMP. LIMITS OF WIRE JACKETS	
Jacket	Temp. Limit
PVC	221°F
Teflon	400°F
Std. Fiberglass	900°F
High Temp Fiberglass	1,300°F
Ceramic Fiberglass	2,200°F

THERMOCOUPLE & RTD OPTIONS

		Thermocouple	RTD	Digital Thermometers	Handheld Digital
CERTIFICATION OPTIONS					
-R1	1 Point Calibration Certification, Reotemp Chooses	✓	✓	✓	✓
-R3	3 Point Calibration Certification, Reotemp Chooses	✓	✓	✓	✓
-C1	1 Point Calibration Certification, Customer Chooses	✓	✓	✓	✓
-C3	3 Point Calibration Certification, Customer Chooses	✓	✓	✓	✓
-CC	Certificate of Conformance	✓	✓	✓	✓
-CS	NIST Calibration Sticker (No Logged Points)	✓	✓	✓	✓
OTHER OPTIONS					
-VB	Hi-Vibration	N/A	✓	✓	✓
-AC	Hi-Accuracy	N/A	✓	N/A	N/A
-PS	Pointed Stem	✓	✓	✓	✓
-TF	Teflon Coating	✓	✓	✓	✓
-SS	316 SS stem	N/A	STD	✓	✓
-NL	No Logo	✓	✓	✓	✓
-HT	Heat Transfer Compound (2 oz)	✓	✓	✓	N/A
-GL	Plain Glass Lens	N/A	N/A	✓	✓
-CL	Custom Logo Dial	N/A	N/A	✓	✓
-BP	Replacement Battery Pack	N/A	N/A	✓	✓
-WD	White Dial	N/A	N/A	✓	✓
-AS	Allows to Fit 1-1/4-18 Industrial Thermowell	✓	✓	✓	N/A
TAG OPTION					
-TS	Stainless Steel Tag (1-10 Characters)		✓		
-TM	Stainless Steel Tag (11-80 Characters)		✓		
-TP	Paper Tag		✓		

✓	Indicates that the option is available with this model.
N/A	Indicates the option is not available with this model.
STD	Indicates standard options with no additional cost.