

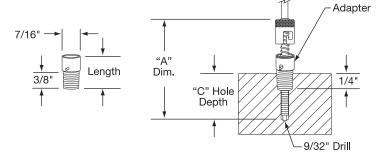
Bayonet Type Adapters

Bayonet Type Adapters



Table 1A—Adapter Length for Bayonet Type Thermocouples (page 14-4) and RTDs (page 14-62)

Hole	Probe Length A (in)			
"C"	7/8" Long	1-3/8" Long	2-1/2" Long	
(in)	Adapter	Adapter	Adapter	
½ to ½	15%	2	31/8	
½ to 1	2	2½	35/8	
1 to 1½	2½	3	41/8	
2 to $2\frac{1}{2}$	3½	4	51/8	
2½ to 3	4	4½	5 %	
3 to 3½	4½	5	61/8	
3½ to 4	5	5½	65/8	
4 to 4½	5½	6	71/8	
4½ to 5	6	6½	7%	
5 to 5½	6½	7	81/8	
5½ to 6	7	7½	85%	
6 to 6½	7½	8	91/8	



Spring-Loaded Bayonet Cap Type Thermocouples are used in conjunction with bayonet adapters. After inserting the thermocouple sheath through the adapter the spring is compressed and locked by the cap, pushing the sensing junction tight against the surface being measured for increased accuracy and faster response time.

Adapter Selection and Installation

- **1.** Select an adapter length by comparing the hole depth and thermocouple probe length in Table **1A**.
- 2. Select from Table 1B a thread type for the adapter length determined in Table 1A.

Table 1B—Bayonet Adapter for Threaded Type Thermocouples and RTDs

Part Number	Length (in)	Thread	Material
TCA-104-101	7/8	1/8-27 NPT	Plated Steel
TCA-104-103	1%	1/8-27 NPT	Plated Steel
TCA-104-121	1½	1/8-27 NPT	Plated Steel
TCA-104-118	2	1/8-27 NPT	Plated Steel
TCA-104-105	2½	1/8-27 NPT	Plated Steel
TCA-104-115	3½	1/8-27 NPT	Plated Steel
TCA-104-110	4	1/8-27 NPT	Plated Steel
TCA-104-102	7/8	3/8-24 UNF	Plated Steel
TCA-104-104	1%	%-24 UNF	Plated Steel
TCA-104-106	2½	3/8-24 UNF	Plated Steel
TCA-104-107	23/8	14 × 1.5mm	Stainless Steel
TCA-104-108	2½	10 × 1.5mm	Plated Steel
TCA-104-111	2½	12 × 1mm	Plated Steel
†TCA-104-116	23/8	12 × 1.5mm	Plated Steel
TCA-104-126	2	12 × 1mm	Plated Steel
†TCA-104-127	1	12 × 1mm	Plated Steel
TCA-104-128	1	12 × 1.75mm	Plated Steel
TCA-104-131	3	12 × 1mm	Plated Steel
TCA-104-132	5	12×1mm	Plated Steel

[†]Must be used with 12 mm ID bayonet caps

Pipe Clamp Adapters for Bayonet Type Thermocouples

Spring-loaded bayonet cap type thermocouples are used in conjunction with bayonet adapters. After inserting the thermocouple sheath through the adapter the spring is compressed and locked by the cap, pushing the sensing junction tight against the surface being measured for increased accuracy and faster response time.

Pipe Clamp adapters permit thermocouple placement without the drilling and tapping of holes to attach the adapter.

Part Number		meter (in) Max.	
TCH00001	1/2	7/8	
TCH00002	7/8	$1\frac{1}{2}$	
TCH00003	$1\frac{5}{16}$	$2\frac{1}{4}$	
TCH00004	$2\frac{1}{4}$	$3\frac{5}{16}$	
TCH00005	35/16	41/4	
TCH00006	$4\frac{5}{16}$	51/4	

