



Since 1964

BI-METAL THERMOMETERS CATALOG



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Supply House to the Processing Industries Since 1964

Trusted supply house of sanitary processing equipment, parts and supplies for the dairy and food, brewery, beverage and pharmaceutical industries.

Harco Enterprises offers a diverse line of sanitary and hygienic processing equipment, parts and supplies including pumps, sanitary valves, separators, homogenizers, gaskets and fittings, sanitary hoses, and instrumentation as well as a variety of other products from world leading manufacturers such as Alfa Laval, Ampco, Tetra Pak, Burkert, Tri-Clover, Remco, Vikan, Carlisle, Haynes, Strahman, and more.

These products are distributed to dairy, food, beverage processing facilities as well as the pharmaceutical, brewing, and fisheries industries throughout North America.

Many of our products are customized in design due to strict sanitary and hygienic standards, and all are built to stand up to the demands of high production environments. Resourcefulness and quick delivery are important to you, and Harco always provides both.

Check out our large collection of equipment, parts and supplies, including our line of color-coded products available.

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Bi-Metal Thermometers

Designed for reliable, long-term performance in demanding sanitary applications, the Bi-Metal Thermometer provides accurate temperature readings with little or no maintenance. Its durable construction makes it well suited for dairy, food processing, pharmaceutical, and other sanitary processing applications.

FEATURES

Standard 304 Stainless Steel Case and Bezel on all external parts increases corrosion resistance.

Super Sensitive Bimetallic Helix Coil is fabricated to tight tolerances. Heat treated for stress relief and silicone coated to minimize pointer vibration and maximize heat transfer and response time

Bi-Metal Bushing is pressed into groove on stem to center the coil in stem. 302 stainless steel stem wire through center of bushing connects bimetal element to pointer to minimize coil interference with tube wall.

C.I.P. - can be cleaned in place for convenience and eliminates the possibility of damage from mishandling.

Temperature Ranges from -100°F (-75°C) to 1000°F (550°C).

Hermetic Seal on Case/Bezel assembly is a precision interference fit. Silicone gasket provides dustproof and leakproof seal

External Reset Calibration adjusts using an Allen wrench to discourage tampering.

Silicone Fill is available on all gauges for additional dampening of extreme vibration, or to assure consistent performance in low process temperature/high environmental humidity

140°F (60°C) Maximum process temperature Please consult factory when ordering for higher temperature applications.

Immediate Availability from stock for all pressure gauges.

Experienced Engineers are available to answers questions and solve difficult application problems.

Unparalleled Customer Service where the customer is always right and we are not happy until the customer is satisfied.

SPECIFICATIONS

Accuracy	+/-1% of Full Scale
Over Range Capability	30%
Wetted Surfaces	316L Stainless Steel
Case Material	304 Stainless Steel
Dial Size	3", 4", 5" (76, 102, 127mm) Dia.
Standard Lens	Glass
Optional Lens	Various Shatter-Resistant Materials
Temp. Limits	-100°F/1000°F (-75°C/550°C)
Optional Fill	Silicone
Recalibration Feature	Standard
Dry Shipping Wt. 3", 4", 5"	11 oz, 16 oz, 20 oz
Filled Shipping Wt. 3", 4", 5"	14 oz, 22 oz, 30 oz

AVAILABLE RANGES

20 different temperature ranges are available in both Fahrenheit and Celsius. Refer to back page for specific information.

AVAILABLE FITTINGS

½-18 NPT.

¾" Tri-Clamp®, 1½" Tri-Clamp®, 2" Tri-Clamp®, 2½" Tri-Clamp®, 3" Tri-Clamp®, 4" Tri-Clamp®.

AVAILABLE MOUNTINGS

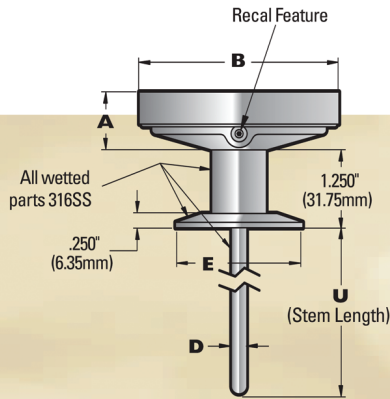
Bottom, Back and Adjustable mount.

Tri-Clamp® is a registered trademark of Tri-Clover, Inc.



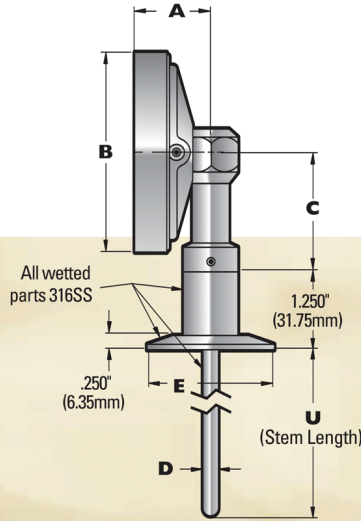
Bi-Metal Thermometers

SANITARY FITTING DIMENSIONS



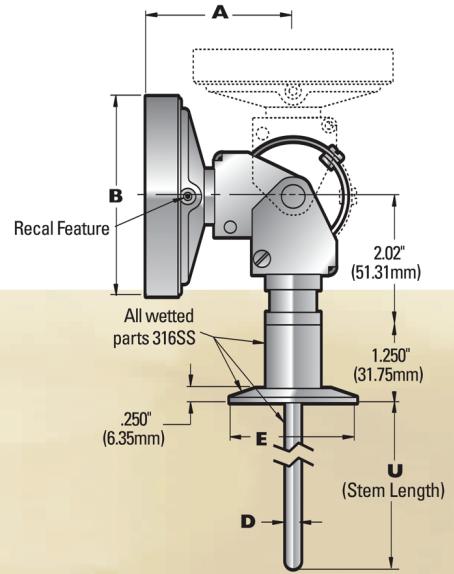
BACK MOUNT
(shown with Tri-Clamp®)

SIZE	A	B
3"	.89" (23mm)	3.19" (81mm)
4"	.89" (23mm)	4.12" (104mm)
5"	.33" (34mm)	5.04" (128mm)



BOTTOM MOUNT
(shown with Tri-Clamp®)

SIZE	A	B	C
3"	1.19" (30mm)	3.19" (81mm)	1.88" (48mm)
4"	1.19" (30mm)	4.12" (104mm)	2.62" (67mm)
5"	1.62" (41mm)	5.04" (128mm)	2.62" (67mm)

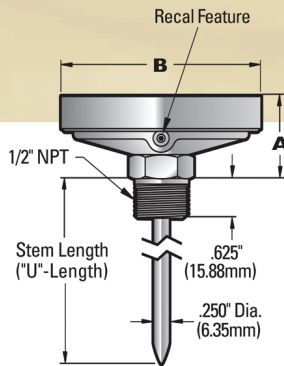


ADJUSTABLE MOUNT
(shown with Tri-Clamp®)

SIZE	A	B
3"	2.43" (62mm)	3.19" (81mm)
4"	2.43" (62mm)	4.12" (104mm)
5"	2.66" (68mm)	5.04" (128mm)

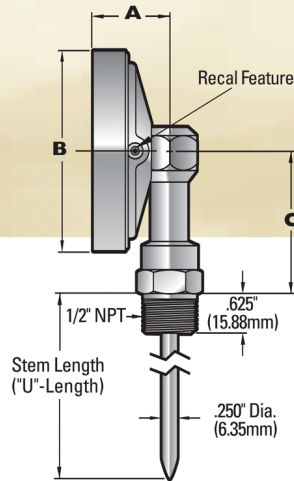
Available Tri-Clamp® Fittings (E): 3/4" Tri-Clamp = .98" (25mm), 1-1/2" Tri-Clamp = 1.98" (50mm), 2" Tri-Clamp = 2.52" (64mm), 2-1/2" Tri-Clamp = 3.05" (77mm), 3" Tri-Clamp = 3.56" (91mm), 4" Tri-Clamp = 4.68" (119mm)
Available Stem Lengths (U): 1.62" (41mm), 2.50" (64mm), 4.50" (114mm), 7.50" (190mm), 10.50" (267mm), 13.50" (343mm), 16.50" (419mm), 22.50" (572mm)

INDUSTRIAL FITTING DIMENSIONS



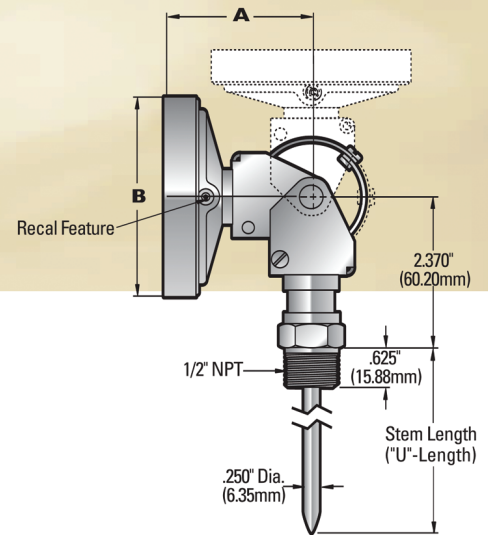
BACK MOUNT
(shown with 1/2" NPT)

SIZE	A	B
3"	1.38" (35mm)	3.19" (81mm)
4"	1.38" (35mm)	4.12" (104mm)
5"	4.72" (44mm)	5.04" (128mm)



BOTTOM MOUNT
(shown with 1/2" NPT)

SIZE	A	B	C
3"	1.19" (30mm)	3.19" (81mm)	2.30" (58mm)
4"	1.19" (30mm)	4.12" (104mm)	3.00" (76mm)
5"	1.62" (41mm)	5.04" (128mm)	3.00" (76mm)



ADJUSTABLE MOUNT
(shown with 1/2" NPT)

SIZE	A	B
3"	2.43" (62mm)	3.19" (81mm)
4"	2.43" (62mm)	4.12" (104mm)
5"	2.66" (68mm)	5.04" (128mm)

Available Stem Lengths (U): 2.50" (64mm), 4.00" (102mm), 6.00" (152mm), 9.00" (229mm), 12.00" (305mm), 15.00" (381mm), 18.00" (457mm), 24.00" (610mm)

Bi-Metal Thermometers

ORDERING INFORMATION

Below are typical examples of models with their descriptions.

EXAMPLE 1:

3B - T67 - 2U - BK - L4.5 - 3/8 - A

Describes a 3" (76mm) Bi-metal Thermometer, 0 to 250°F, 2" Tri-Clamp fitting, back mounted, 4½" probe length with a 0.375" probe diameter, standard glass lens.

EXAMPLE 2:

4B - T87 - 3U - BT - L22.5 - 3/8 - C

Describes a 4" (102mm) Bi-metal Thermometer, -75 to 175°C, 3" Tri-Clamp fitting, bottom mounted, 22½" probe length with a 0.375" probe diameter, safety glass lens.

EXAMPLE 3:

5B - T61 - 1/2NPT - AA - L7.5 - 3/8 - E

Describes a 5" (127mm) Bi-metal Thermometer, 50 to 250°F, ½" NPT fitting, adjustable angle, 7½" probe length with a 0.375" probe diameter, polycarbonate lens.

MODEL NUMBER CONSISTS OF:

SERIES	TEMP. RANGE	FITTING	MOUNT	PROBE LENGTH	PROBE DIA.	LENS
3B	T67	2U	BK	L4.5	3/8	A

Please make a selection from each category below:

SERIES

3B	3" Dial
4B	4" Dial
5B	5" Dial

TEMPERATURE RANGE

T5 1	-100/100°F	T87	-75/175°C
T52	-50/120°F	TEA	-70/70°C
T53	-40/160°F	T7 1	-50/100°C
T54	0/140°F	T72	-50/25°C
T55	0/180°F	T73	-50/50°C
T50	0/200°F	T84	-40/70°C
T56	0/220°F	T86	-20/120°C
T67	0/250°F	T74	-10/110°C
T57	0/300°F	T75	0/50°C
T58	0/500°F	T95	0/60°C
T59	20/240°F	TEI	0/80°C
T60	25/125°F	T76	0/100°C
T6 1	50/250°F	T77	0/150°C
T62	50/300°F	T78	0/200°C
T63	50/400°F	T79	0/250°C
T64	50/500°F	T80	0/300°C
T68	50/550°F	T8 1	0/400°C
T44	100/800°F	T90	0/450°C
T65	150/750°F	T82	100/400°C
T66	*200/1000°F	T83	*100/550°C

*Not for continued use above 800°F (425°C)
(for intermittent use only).

Ranges vary by dial size and fitting.

FITTINGS

¾U	¾" Tri-Clamp (3 16SS)*
1½U	1½" Tri-Clamp (316SS)**
2U	2" Tri-Clamp (3 16SS)
2½U	2½" Tri-Clamp (3 16SS)
3U	3" Tri-Clamp (3 16SS)
4U	4" Tri-Clamp (3 16SS)
½NPT	½" NPT (316SS)

* Used on both ½" and ¾" lines.

** Used on both 1" and 1½" lines.

MOUNT

BT	Bottom Mount
BK	Back Mount
AA	Adjustable Angle

PROBE LENGTH (U)

L2.5	2½" (½" NPT)
L4	4" (½" NPT)
L6	6" (½" NPT)
L9	9" (½" NPT)
L12	12" (½" NPT)
L15	15" (½" NPT)
L18	18" (½" NPT)
L24	24" (½" NPT)
L30	30" (½" NPT)
L36	36" (½" NPT)
L42	42" (½" NPT)
L1.625	1.625" (Tri-Clamp)
L2.5	2.5" (Tri-Clamp)
L4.5	4.5" (Tri-Clamp)
L7.5	7.5" (Tri-Clamp)
L10.5	10.5" (Tri-Clamp)
L13.5	13.5" (Tri-Clamp)
L16.5	16.5" (Tri-Clamp)
L22.5	22.5" (Tri-Clamp)

PROBE DIAMETER (D)

15/64	.236"
1/4	.250" Standard on NPT
5/16	.315"
3/8	.375" Standard on Tri-Clamp

LENS

A	Glass (Standard)
B	Tempered Glass
C	Safety Glass
D	Plastic, Acrylic
E	Plastic, Polycarbonate



Product Line Card

Supply House to the Processing Industries Since 1964

Harco partners with leading manufacturers in the industry to bring you an innovative range of sanitary and hygienic processing equipment and supplies. With experience in design, manufacturing and support, our partners are selected for their quality, reliability, and advanced products.



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