

WEISS BIMETAL THERMOMETERS

SERIES BM - RBM - VBM • MODEL 134 & PT

SPECIFICATIONS

CASE

The entire case assembly is of Type 304 Stainless Steel. To insure a moisture proof unit, the heavy glass face is securely gasketed with the case and bezel assembly, hermetically sealed.

STEM ASSEMBLY

The stem and fixed thread connection is fabricated of stainless steel. All welded construction insures complete corrosion resistance. Series BM, RBM and VBM stem diameter is 1/4" and for 2" dials the fixed thread is 1/4" NPT, 3" & 5" dials are 1/2" NPT.

BIMETALLIC ELEMENT

The sensitive, precision formed bimetallic element is accurately calibrated to meet certified temperature standards. The Helix assembly is silicone damped against vibration. Silicone fluid increases the speed of responses due to more rapid heat transfer from stem to bi-metallic element.

DIAL

Heavy gauge aluminum with hard surface white matte finish to reduce glare. Black graduation lines and numerals.

ACCURACY

Accurate within 1% of scale range.

SEPARABLE SOCKETS

Separable sockets are available in all materials for direct attachment to the fixed stems.

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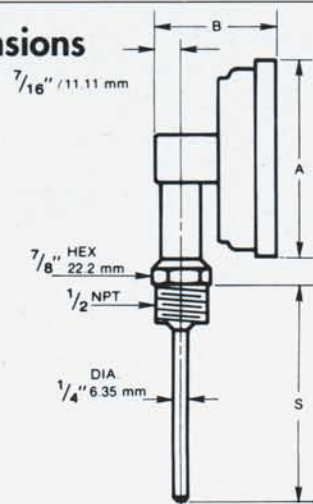
SERIES BM - BiMetal Dial Thermometers

MODEL

2BM - 3BM - 3BMS - 5BM - 5BMS

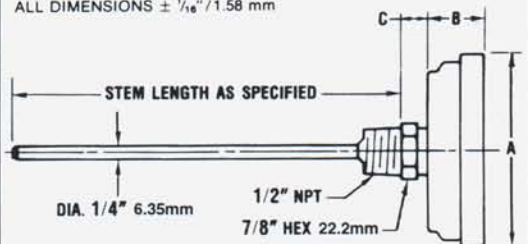


Dimensions



DIAL SIZE	A	B	S (stem length)
3"	3 1/4"	1 7/8"	as specified
76.2 mm	82.55 mm	47.62 mm	
5"	5 1/4"	1 7/8"	as specified
127 mm	133.35 mm	47.62 mm	

ALL DIMENSIONS $\pm 1/16"$ / 1.58 mm



DIAL SIZE	A	B	C
3"	3 1/4"	1 1/16"	1/4"
76.2 mm	82.55 mm	17.38 mm	6.35 mm
5"	5 1/4"	1 3/16"	7/16"
127 mm	133.35 mm	23.81 mm	11.11 mm

ALL DIMENSIONS $\pm 1/16"$ / 1.58 mm

2" Dial

3" Dial

5" Dial

Catalog No. 2" Angle	Stem Length (Incl. thread)	NPT
2BM25	2-1/2"	1/4"
2BM4	4"	1/4"
2BM6	6"	1/4"
2BM9	9"	1/4"
2BM12	12"	1/4"
Longer stems lengths available		

Catalog No. 3" Angle - 3" Str.	Stem Length (Incl. thread)	NPT
3BM25 3BMS25	2-1/2"	1/2"
3BM4 3BMS4	4"	1/2"
3BM6 3BMS6	6"	1/2"
3BM9 3BMS9	9"	1/2"
3BM12 3BMS12	12"	1/2"
Longer stem lengths available		

Catalog No. 5" Angle - 5" Str.	Stem Length (Incl. thread)	NPT
5BM25 5BMS25	2-1/2"	1/2"
5BM4 5BMS4	4"	1/2"
5BM6 5BMS6	6"	1/2"
5BM9 5BMS9	9"	1/2"
5BM12 5BMS12	12"	1/2"
Longer stem lengths available		

SERIES BM - BiMetal Dial Thermometers

SERIES RBM - BiMetal with Recalibrator

MODEL

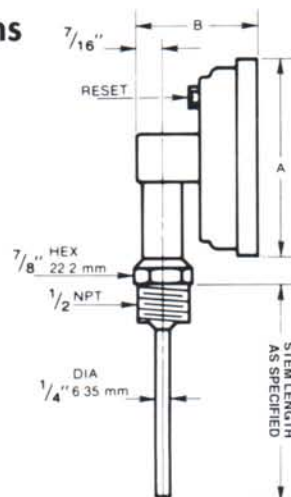
3RBM - 3RBMS - 5RBM - 5RBMS



3RBMS - 5RBMS
Straight Form

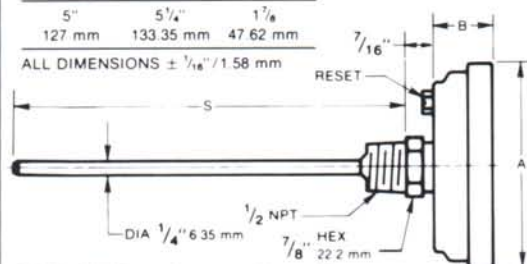
3RBM - 5RBM
Angle Form

Dimensions



DIAL SIZE	A	B
3"	3 1/4"	1 7/8"
76.2 mm	82.55 mm	47.62 mm
5"	5 1/4"	1 7/8"
127 mm	133.35 mm	47.62 mm

ALL DIMENSIONS $\pm 1/16"$ 1.58 mm



DIAL SIZE	A	B	S (stem length)
3"	3 1/4"	1 5/8"	as specified
76.2 mm	82.55 mm	23.81 mm	specified
5"	5 1/4"	1 5/8"	as specified
127 mm	133.35 mm	23.81 mm	specified

ALL DIMENSIONS $\pm 1/16"$ 1.58 mm

3" Dial

Catalog No.	Stem Length (Incl. thread)	NPT
3RBM25 3RBMS25	2-1/2"	1/2"
3RBM4 3RBMS4	4"	1/2"
3RBM6 3RBMS6	6"	1/2"
3RBM9 3RBMS9	9"	1/2"
3RBM12 3RBMS12	12"	1/2"

Longer stems lengths available

NOTE: When ordering Liquid Filled BiMetals add Prefix SF to appropriate Catalog Number. Ex: SF3RBM25

5" Dial

Catalog No.	Stem Length (Incl. thread)	NPT
5RBM25 5RBMS25	2-1/2"	1/2"
5RBM4 5RBMS4	4"	1/2"
5RBM6 5RBMS6	6"	1/2"
5RBM9 5RBMS9	9"	1/2"
5RBM12 5RBMS12	12"	1/2"

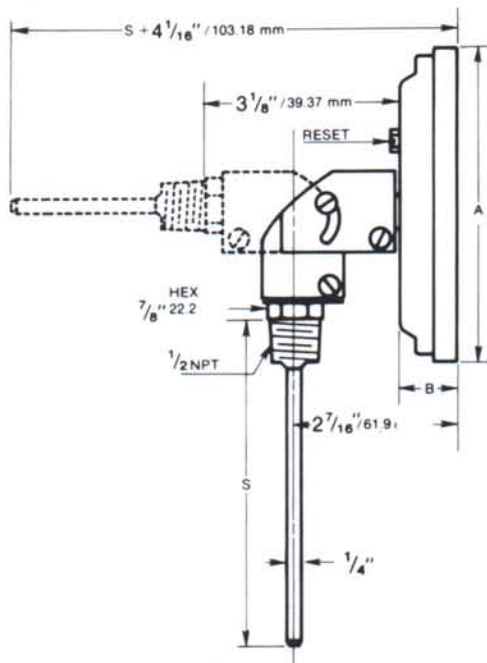
Longer stem lengths available

SERIES VBM - BiMetal with Recalibrator



MODEL 3VBM - 5VBM

Dimensions



DIAL SIZE	A	B	S (stem length)
3"	3 1/4"	1 5/16"	as specified
76.2 mm	82.55 mm	23.81 mm	
5"	5 1/4"	1 5/16"	as specified
127 mm	133.35 mm	23.81 mm	

ALL DIMENSIONS $\pm 1/16"$ 1.58 mm



3VBM - 5VBM
Vari-angle Form



SF3VBM - SF5VBM
Liquid Filled Vari-angle

3" Dial

Catalog No.	Stem Length (Incl. thread)	NPT
3VBM25	2-1/2"	1/2"
3VBM4	4"	1/2"
3VBM6	6"	1/2"
3VBM9	9"	1/2"
3VBM12	12"	1/2"

Longer stems lengths available

NOTE: When ordering Liquid Filled BiMetals add Prefix SF to appropriate Catalog Number. Ex: SF3VBM25

5" Dial

Catalog No.	Stem Length (Incl. thread)	NPT
5VBM25	2-1/2"	1/2"
5VBM4	4"	1/2"
5VBM6	6"	1/2"
5VBM9	9"	1/2"
5VBM12	12"	1/2"

Longer stem lengths available

Weiss Series RBM and VBM Silicone Filled BiMetal Thermometers are offered for those applications where severe vibration is a condition. The silicone filling dampens and lubricates the internal parts which reduces pointer flutter and prolongs instrument life. The silicone allows more rapid temperature response.

Laboratory Thermometers

MODEL 134 & PT

These versatile all stainless steel Bimetal Thermometers are specifically designed for general testing.

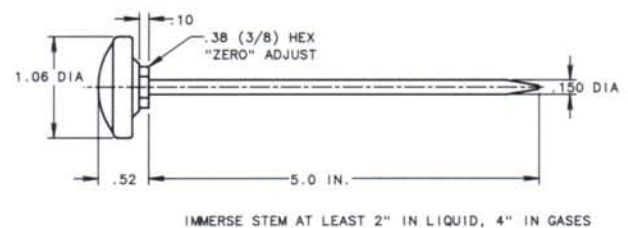
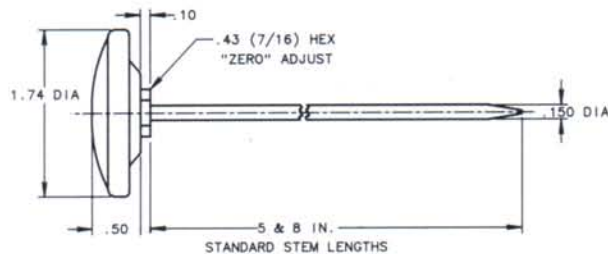


Model 134



Model PT

Dimensions



MODEL 134

1-3/4" diameter head, .150" diameter stem and 8" stem length (5" stem length also available).
1% Accuracy of entire scale range.

STANDARD RANGES

Fahrenheit	Celsius
40-0-160°	0-100°
25-125°	10-150°
0-220°	0-200°
50-550°	

MODEL PT

1" diameter head, .150" diameter stem, 5" stem length with recalibrator. Includes pocket case and clip. Spike stems standard.
1% Accuracy of scale range.

Order by Model No., include scale range and stem length.

STANDARD RANGES

Fahrenheit	Celsius
40-0-180°	0-100°
25-125°	0-250°
0-220°	
50-550°	

Thermowell Conversion Kit

Designed to permit installation of Weiss Bimetal Thermometer in existing mercury-in-glass industrial thermometer thermowells.

Easy To Determine Stem Length

Measure exiting well depth by inserting a small diameter rod (or pencil will do) into well until it reaches the bottom (Fig.1). Using your thumb as the index, remove rod and measure distance from end of rod to the index point (Fig.2). Use selector table to determine thermometer stem length to fit well.

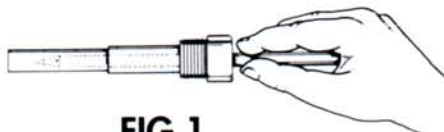


FIG.1

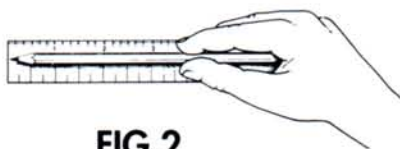
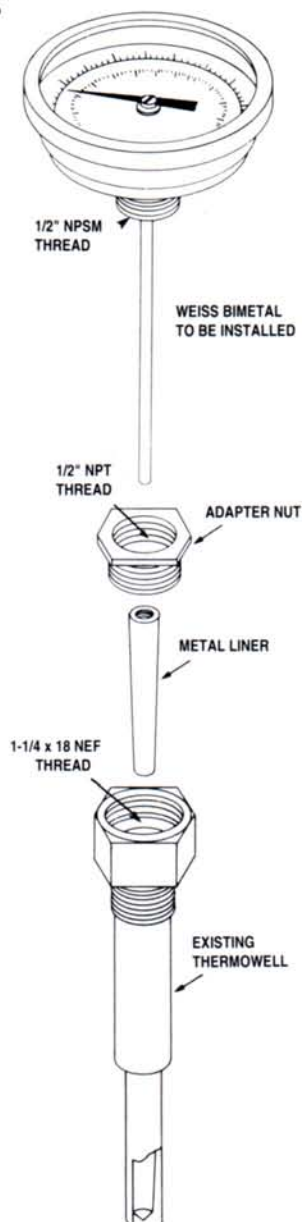


FIG.2

Assemble Adapter/Install Thermometer

Drop or push metal liner into well, thread adapter nut into well and tighten, install Weiss Bimetal Thermometer. Note: As with any thermowell, a small amount of graphite and oil on the lower 2" of the stem will improve response time.

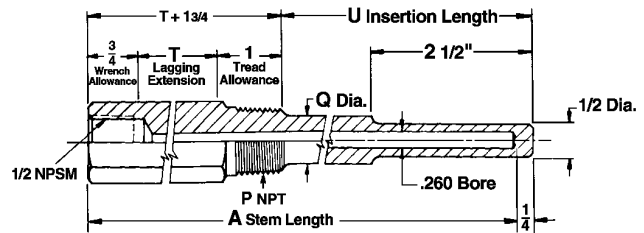
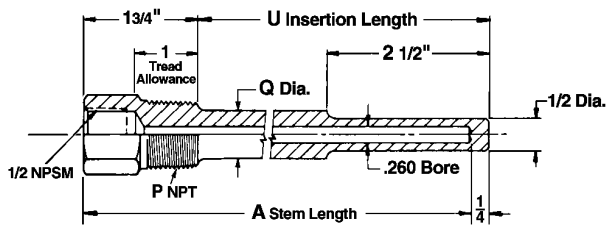


Stem Length Selection Table

Nominal Stem Length	3-1/2"	6"	8"	9"	10"	12"	18"	24"
Well Depth	4-1/2"	6-1/2"	8-1/2"	9-1/2"	10-1/2"	12-1/2"	18-1/2"	24-1/2"
Bimetal Stem Length	4"	6"	*8"	9"	*10"	12"	18"	24"

* Non-standard stem length thermometer available with prompt delivery.

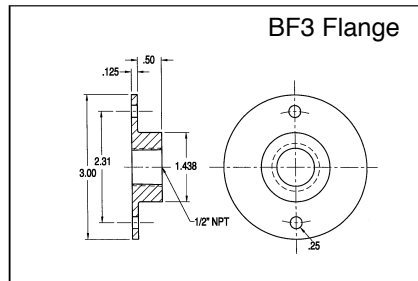
Separable Socket - Series 3 & 5"



EXT. TH'D P	CAT NO.	STEM LGTH. A	INSERT LGTH. U	SHANK DIA. Q
3/4" NPT	* B25	2 1/2	1	—
	* B35	4	2 1/2	3/4
	BR6	6	4 1/2	3/4
	BR9	9	7 1/2	3/4
	BR12	12	10 1/2	3/4
	BR15	15	13 1/2	3/4
	BR18	18	16 1/2	3/4
	BR24	24	22 1/2	3/4
1" NPT	B35	4	2 1/2	3/4
	BR6	6	4 1/2	3/4
	BR9	9	7 1/2	3/4
	BR12	12	10 1/2	3/4
	BR15	15	13 1/2	3/4
	BR18	18	16 1/2	3/4
*1/2" NPT Available	BR24	24	22 1/2	3/4

EXT. TH'D P	CAT NO.	STEM LGTH. A	INSERT LGTH. U	LAG EXT. T	SHANK DIA. Q
3/4" NPT	BSS35	4	1 1/2	1 3/4	3/4
	BN6	6	2 1/2	2	3/4
	BN9	9	4 1/2	3	3/4
	BN12	12	7 1/2	3	3/4
	BN15	15	10 1/2	3	3/4
	BN18	18	13 1/2	3	3/4
	BN24	24	19 1/2	3	3/4
1" NPT	BSS35	4	1 1/2	1 3/4	7/8
	BN6	6	2 1/2	2	7/8
	BN9	9	4 1/2	3	7/8
	BN12	12	7 1/2	3	7/8
	BN15	15	10 1/2	3	7/8
	BN18	18	13 1/2	3	7/8
	BN24	24	19 1/2	3	7/8

Wells should be used on all pressurized applications, to protect the stem of the thermometer from corrosion and physical damage and to facilitate removal of the thermometer without disturbing the process.



Also available with Fixed Extension Neck - Cat. No. BF3-2

FAHRENHEIT	FIG. INTERVAL	SCALE DIV.	CELSIUS	FIG. INTERVAL	SCALE DIV.	DUAL SCALE - F&C	
-80/0/120	20°	2°	-50/0/50	10°	1°	-80/0/120F	-60/0/50C
-20/0/120	20°	2°	**0/50	5°	1/2°	-20/0/120F	-30/0/50C
**30/130	10°	1°	0/100	10°	1°	**30/130F	0/55C
0/200	20°	2°	0/150	10°	1°	0/200F	-15/0/90C
0/250	20°	2°	0/200	20°	2°	0/250F	-20/0/120C
50/300	20°	2°	0/300	50°	2°	50/300F	10/150C
50/400	50°	5°	*0/450	50°	5°	50/400F	10/200C
50/550	50°	5°	**100/550	50°	5°	50/550F	10/260C
*100/800	100°	10°				*100/800F	40/425C
**200/1 000	100°	10°				**200/1000F	100/540C

* Satisfactory for continuous service up to 800°F or 425°C. Can be used for intermittent service from 800-1000°F or 425-500°C.
 * Minimum stem length for these Ranges is 4". ** Minimum stem length is 4" Straight and Vari-angle Form.