Direct Mount & Remote Reading











35VA - Vari-angle® Direct Mount

					vari-aligie [©]					
CODE	CATALOG NO.	DESCRIPTION								
ı	35 45	CASE SI 31/2" Cas 41/2" Cas	е							
II	V B R Z	Back Flan Semi-flush	/PE [®] Direct Mage, Surface, Panel Mage Bracket, I	e Mount ount	Mount					
III	A B L	Adjustable Back Con	CASE CONNECTION Adjustable Back Connection Lower Connection							
IV	3	CASE WINDOW Snap in Lexan with "O" Ring								
		THERMA Bulb Type	L SYSTE Bulb Materi	Caj	oillary terial	Capillary Protection				
V	0 2 3 5 7 8 9	Union Copper (Vari-angle only) Plain Copper Copper Plain 316 S.S. 316 S.S. Union Copper Copper Union 316 S.S. Copper Union 316 S.S. 316 S.S. Union 316 S.S. 316 S.S. *At bulb end 31/2" long. All systems have S.S. Sprin				Cu. Braid None Cu. Braid Cu. Braid Intlock Armor* None				
		at indicating	head. No. 5- standard on N	-7 system	include S.S. s	g capillary protection spring at bulb end –				
VI	1 2 2	Thermal No. 5 Thru Dia. 7/16 7/16	9 (Union) Length 2.5" 3.4"	Therma No. 2 8 Dia. N.A. 3/8	al System 4 3 (Plain) Length N.A. 3.4	Max. System Len. 10Ft. 25Ft.				
	3 4 5 X 6	7/16 7/16 7/16 1/8" x 18 N.A.	5.4" 7.4" 9.4" 80" Averag N.A.	3/8 3/8 3/8 ing Bulb 3/8	4.9 7.9 9.4 2.5	50Ft. 99Ft. 99Ft. 10Ft. 05Ft.				

® Vari-angle is a registered trademark of Weiss Instruments, Inc.

SPECIFICATIONS

CASE & RING - drawn stainless steel case with snap-in "O" ring gasketed clear lexan window.

CASE STYLES - five case styles are available (as shown) to accommodate direct mount, surface or panel mounting.

DIAL - white coated aluminum with black markings.

POINTER - slotted adjustable type.

BOURDON TUBE - phosphor bronze.

THERMAL BULB & LINE ASSEMBLY - copper or 316 stainless steel. **PROCESS CONN. FITTING -** separable socket, union or air duct flange connections.

ACCURACY - one scale division throughout range.

VII	1 2 3 4 5 6 7 9	PROCESS CONNECTION FITTING Union Connection 1/2" NPT Union Connection 3/4" NPT Separable Socket 1/2" NPT Separable Socket 3/4" NPT Separable Socket 1/2" NPT with 2" Lag Extention (No.3 Bulb only) Separable Socket 3/4" NPT with 2" Lag Extention (No.3 Bulb only) Air Duct Flange, Union Conn., Aluminum only Plain bulb, no fitting
VIII	1 2 3 5	PROCESS CONNECTION MATERIAL Brass 304 Stainless Steel 316 Stainless Steel Aluminum (Air Duct Flange only) None – Plain Bulb
IX A-B	See Example Below	SYSTEM LENGTH SPECIFYING 9A - Use 2 digits: EX. 05, 10, 99 for length required. 9B - Use FT for feet, use IN for inches

EXAMPLE FOR OBTAINING COMPLETE CATALOG NUMBER FROM CODES - SERIES VTVA & VTR

CODE I-IV	CODE V-VIII	
(HEAD ASSY)	(THERMAL SYSTEM	١)
4 5 B L 3	- [5 2 3 1]	

CODE IX A - B
(CAPILLARY LENGTH)
- 05FT

RANGE 40-240 F

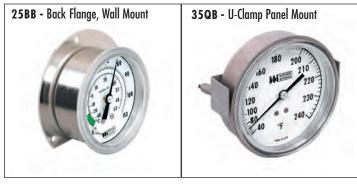
Series Panel Mounting





CODE	CATALOG NO.	DESCRIPTION
ı	15 20 25 35	CASE SIZE 1-1/2" Case 2" Case 2-1/2" Case 3-1/2" Case
II	FUBSJQ	CASE TYPE Front Flange Flush Mount, 2, 2-1/2" U-Clamp Flush Mount, 1-1/2, 2, 2-1/2" Back Flange Surface Mount, 2, 2-1/2" Front Flange U-Clamp Semi-Flush Mount, 3-1/2" U-Clamp Flush Mount, 3-1/2" U-Clamp Flush Mount, 3-1/2"
Ш	B L	CASE CONNECTION Back Connection - Standard Lower Connection
IV	3 4 5 8 9	CASE FRONT AND WINDOW Molded one-piece Lexan Stainless Steel Ring & Glass Chrome Plated Brass, Glass Crimped Ring, S.S., Plastic or Glass - Waterproof Threaded one-piece Lexan
V	1 2 3 4 5 6 7 8 9	THERMAL SYSTEM Bulb Capillary Capillary Type Material Material Protection Plain Copper Copper None Plain Copper Copper Cu. Braid Plain 316 S.S. 316 S.S. None Union Copper Copper None* Union Copper Copper Cu. Braid Union 316 S.S. Copper None Union 316 S.S. Copper Cu. Braid Union 316 S.S. Copper Cu. Braid Union 316 S.S. Copper Cu. Braid Union 316 S.S. Sopper Cu. Braid Union 316 S.S. None *At bulb end 31/2" long. All systems have S.S. Spring capillary protection at indicating head. No. 5–7 system include S.S. spring at bulb end – S.S. jam nut standard on No. 8–9 system.
VI	0 1 2 3 4 6 7	No. 4 Thru 9 (Union) Dia. Length No. 1 - 3 (Plain) Dia. Length No. 1 - 3 (Plain) Dia. Length N.A. N.A. 10Ft. 7/16 2.5" N.A. N.A. 10Ft. 7/16 3.4" 3/8 3.4 25Ft. 7/16 5.4" 3/8 4.9 50Ft. 7/16 7.4" 3/8 7.9 99Ft. N.A. N.A. N.A.

system length to bulb length. See Bulb Chart on Page 4 for Dim.



SPECIFICATIONS

CASE & RING - drawn stainless steel case with snap-in "O" ring gasketed clear lexan or glass window.

DIAL - white coated aluminum with black markings.

POINTER - slotted adjustable type which permits "zero set" calibration. **BOURDON TUBE -** precision geared brass movement and phosphor bronze tube.

THERMAL SYSTEMS - available in nine standard types, with system lengths from 6 inches thru 100 feet. Materials for the case and ring assembly are as shown in the Coding Charts.

PROCESS CONN. FITTING - separable socket, union or air duct flange connections.

ACCURACY - one scale division throughout range. Built with NSF accuracy and compliance, see our complete listing at www.nsf.org.

VII	1 2 3 4 7 9	PROCESS CONNECTION FITTING Union Connection 1/2" NPT Union Connection 3/4" NPT Separable Socket 1/2" NPT Separable Socket 3/4" NPT Air Duct Flange, Union Conn., Aluminum only Plain bulb, no fitting
VIII	1 2 3 5 0	PROCESS CONNECTION MATERIAL Brass 304 Stainless Steel 316 Stainless Steel Aluminum (Air Duct Flange only) None – Plain Bulb
IX A-B	See Example Below	SYSTEM LENGTH SPECIFYING 9A - Use 2 digits: EX. 05, 10, 99 for length required. 9B - Use FT for feet, use IN for inches
C IX		SYSTEM TIN PLATING (IF REQUIRED) 9C - Use TIN (No. 1, 4 & 5 Thermal System*) NOTE: All other system plating consult factory. *Should be specified for Foodservice Equipment Thermometers

EXAMPLE FOR OBTAINING COMPLETE CATALOG NUMBER FROM CODES - SERIES 716

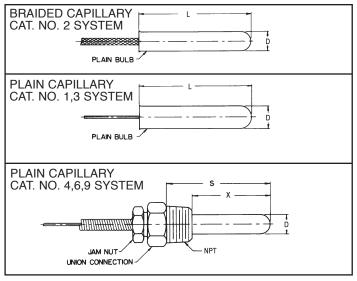
CODE I-IV (HEAD ASSY) 20FB3 CODE V-VIII (THERMAL SYSTEM) 1 6 9 0 CODE IX A - B (CAPILLARY LENGTH) - 05FT

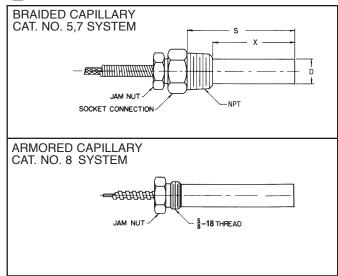
CODE IX C

RANGE 40-0-60 F&C

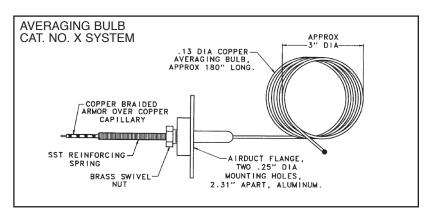
Code V



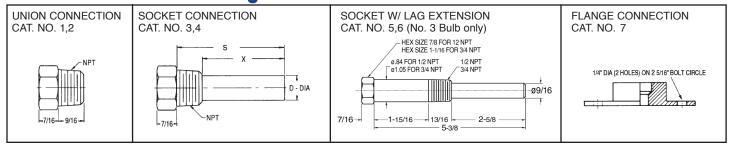




Code VI



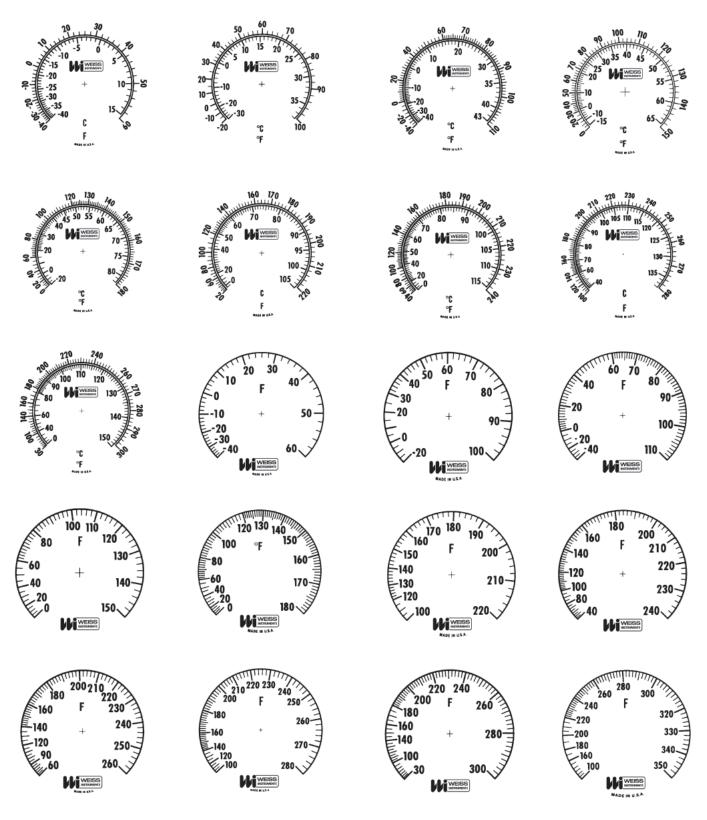
Process Connection Fittings - Code VII



Bulb Dimensions

BULB NO.			UNION CONNECTION			(FLANGE CONNECTION			
(CODE VI)	L	D	Х	S	D	Х	S	D	Х	D
0	N/A	N/A	1	1 7/8	7/16	N/A	N/A	N/A	N/A	N/A
1	N/A	N/A	113/16	2 3/8	7/16	115/16	2 1/2	9/16	2 3/16	7/16
2	3 7/16	3/8	2 5/8	3 3/8	7/16	2 5/8	3 3/8	9/16	3	7/16
3	4 7/8	3/8	4 5/8	5 3/8	7/16	4 5/8	5 3/8	9/16	5	7/16
4	7 7/8	3/8	6 5/8	7 3/8	7/16	6 5/8	7 3/8	9/16	7	7/16
5	9 7/16	3/8	8 5/8	9 3/8	7/16	8 5/8	9 3/8	9/16	9	7/16
6	2 1/2	3/8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7	3	5/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

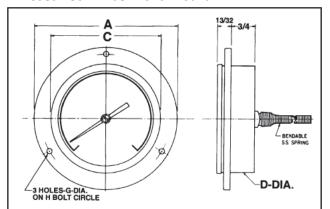
Standard Ranges VTVA-VTR-716



NOTE: Careful consideration should be used when selecting a range, since Vapor Thermometers have progressive graduations and are best read within the upper two thirds of range. Other ranges are available, consult the factory.

Series VTVA & VTR

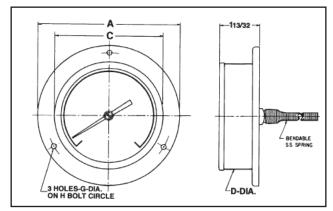
RB Case - Semi Flush Panel Mount



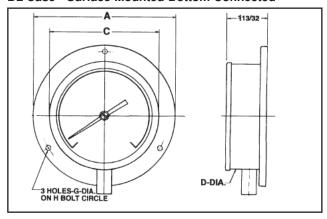
DIAL SIZE	A	С	D	E	G	Н	*PANEL HOLE
3 1/2"	4 3/4	3 11/16	3 19/32	1 1/4	5/32	4 5/16	3 5/8
4 1/2"	5 7/8	4 11/16	4 19/32	1 1/4	7/32	5 3/8	4 5/8

Series VTR Dimensions

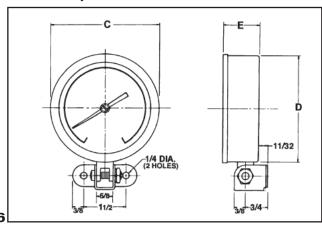
BB Case - Surface Mounted Back Connected



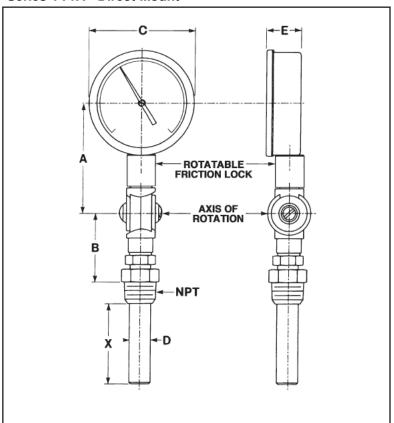
BL Case - Surface Mounted Bottom Connected



ZL Case - Adjustable Bracket Mount



Series VTVA - Direct Mount

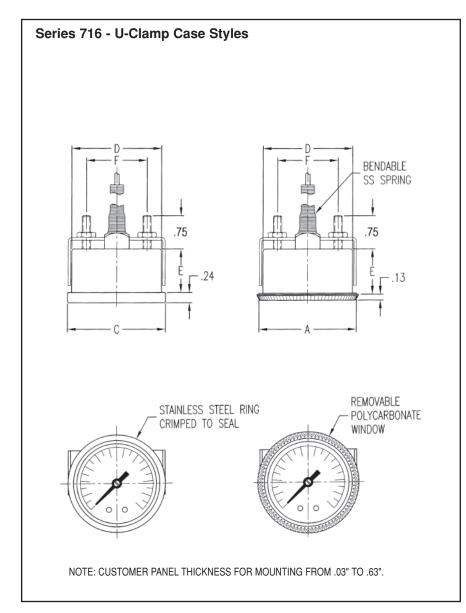


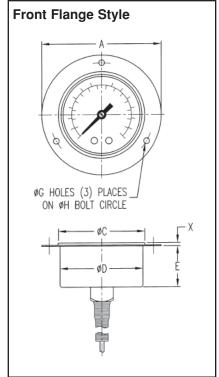
DIAL SIZE	Α	В	С	Е	*D	**X LENGTH FOR BULB NO. (CODE VI)						
SIZE)			2	3	4	5			
3 1/2"	3 7/8	2 9/16	3 11/16	1 1/4	9/16	2 5/8	A 5/0	6 5/8	9 5/0			
4 1/2"	4 3/8	2 9/16	4 11/16	1 1/4	9/16		4 5/6		0 5/8			

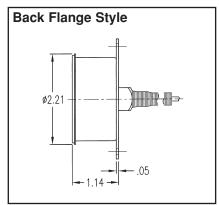
*D Dimension for Union Connection and Air Duct Union Flange Conn. is 7/16"

** Same for Union Conn. and Air Duct Union Flange Connection.

Series 716 Dimensions







Case Dimensions

CASE	CASE	CODE	FLGE DIA.			DIA.	E	F	G	н	X CASE FRONT CODE IV		
SIZE	TYPE	ı	Α	С	В	D					4	3	5
1-1/2"	U-CLAMP	15U	1-13/16	-	1-5/8	1-19/32	7/8	1-1/16	-	-	1	-	-
2"	U-CLAMP	20U	2-7/32	2-11/16	2-1/16	2-1/32	31/32	1-3/8	-	-	3/16	3/32	ı
2"	FRONT FLGE	20F	2-15/16	2-11/64	2-1/16	2-1/32	31/32	_	9/64	2-9/16	3/16	3/32	ı
2-1/2"	U-CLAMP	25U	2-13/16	2-7/8	2-39/64	2-9/16	1	2	-	-	3/16	1/4	-
2-1/2"	FRONT FLGE	25F	3-11/16	2-7/8	2-39/64	2-9/16	1	_	11/64	3-5/16	3/16	1/4	-
2-1/2"	FRONT FLGE	25S	3-11/16	2-7/8	2-21/32	2-41/64	3/4	_	7/32	3-5/16	3/8	-	-
3-1/2"	FRONT FLGE	35S	4-3/4	3-31/32	3-5/8	3-19/32	3/4	_	5/32	4-5/16	7/16	ı	-
3-1/2"	U-CLAMP	35J	3-31/32	3-31/32	3-5/8	3-19/32	3/4	3-1/16	-	ı	7/16	ı	ı
3-1/2"	U-CLAMP	35Q	3-7/8	3-29/32	3-5/8	3-19/32	1	3-1/16	-	ı	ı	ı	1/8