TEL-TRU
Vapor Tension
Thermometers
TEL-TRU
ROCHESTER, NY, USA
°C
°F
TEL-TRU
World Class
Thermometers

Vapor Tension Thermometers

TEL-TRU Manufacturing Company, for many years recognized as a leader in the manufacturing of Bimetal Dial Thermometers for industrial, OEM and laboratory purposes, now offers a complete line of Vapor Tension Thermometers.

TEL-TRU Vapor TensionThermometers provide an accurate indication of critical temperatures within recommended working zones. Dial graduations are non-linear with the distance between graduations increasing as the temperature range increases.

TEL-TRU Vapor Tension Thermometers offer dependability, durability, high accuracy, low ambient error and are available in various case sizes and styles.

Features

Case Sizes:	2", 2-1/2", 3-1/2", 4-1/2"
Case Type:	• Front flange • U clamp • Back flange • Front flange, semi flush • Adjustable bracket
Case Material:	Stainless Steel
Dial:	White coated aluminum with large black numbers and graduations. Easy to read from any angle.
Bulb:	Copper or Stainless Steel
Capillary:	Copper – plain or with braided armor Stainless Steel – plain or with interlocking armor
Window:	Glass or polycarbonate
Pointer:	Slotted type for field zero adjustment
Accuracy:	Within one scale division in recommended working zone
Ranges:	From-40°F (-40°C) to 350°F (175°C)

TEL-TRU Manufacturing Co.
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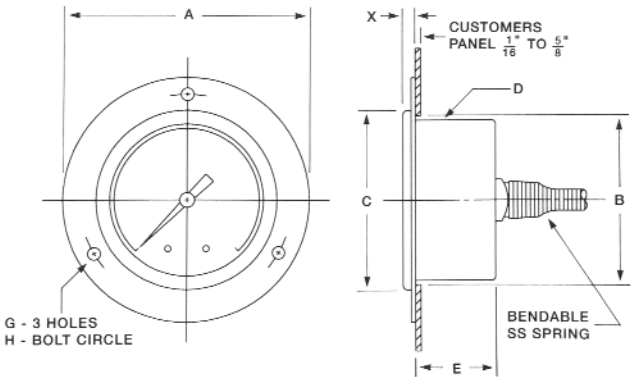
Manufacturer of Precision Products since 1916

2" Thermometers

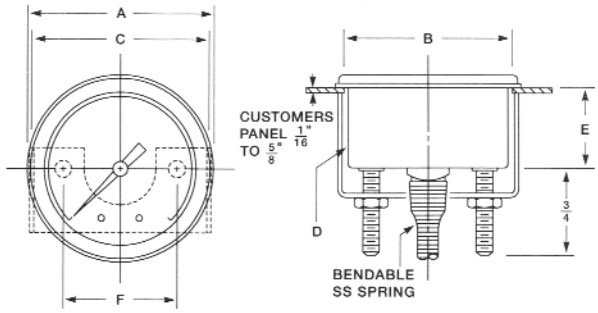
Front Flange Case

Code	Case Size	Conn.	A	Panel Hole B	C	D	E	F	G	H
V20 FB	2"	Back	2 15/16"	2 1/16"	2 11/64"	2 1/32"	31/32"	-	9/64"	2 9/16"



U-Clamp Case

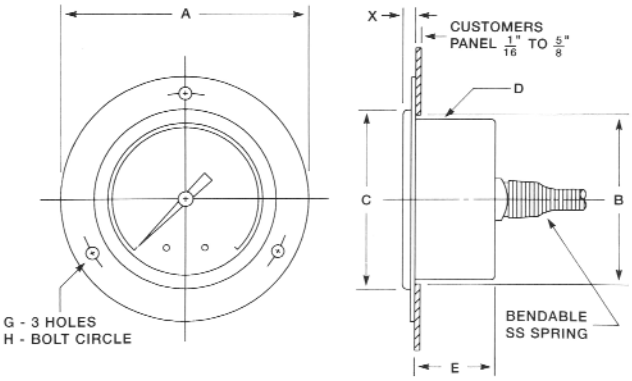
Code	Case Size	Conn.	A	Panel Hole B	C	D	E	F
V20 UB	2"	Back	2 7/32"	2 1/16"	-	2 1/32"	31/32"	1 3/8"



2-1/2" Thermometers

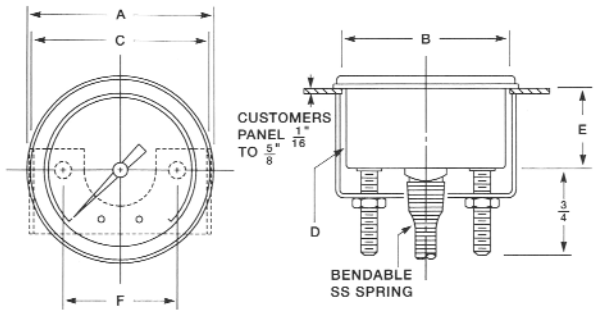
Front Flange Case

Code	Case Size	Conn.	A	Panel Hole B	C	D	E	F	G	H
V25 FB	2 1/2"	Back	3 11/16"	2 39/64"	2 7/8"	2 9/16"	1"	-	11/64"	3 5/16"



U-Clamp Case

Code	Case Size	Conn.	A	Panel Hole B	C	D	E	F
V25 UB	2 1/2"	Back	2 13/16"	2 39/64"	-	2 9/16"	1"	2"



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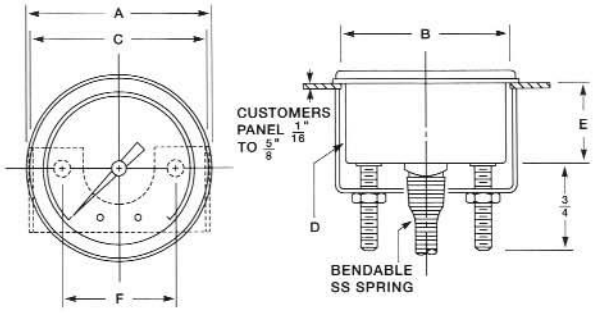
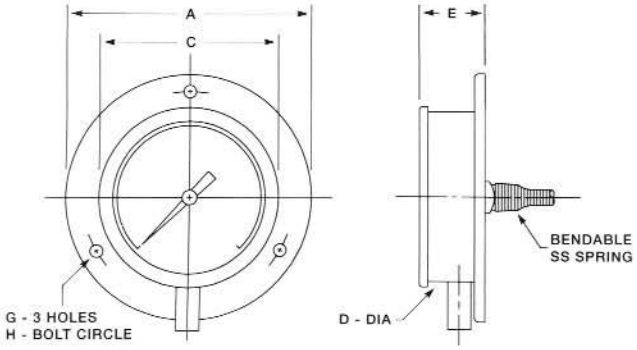
U-Clamp Case

Code	Case Size	Conn.	A	Panel Hole B	C	D	E	F
V-35 QB	3 1/2"	Back	3 7/8"	3 5/8"	-	3 19/32"	1"	3 1/16"



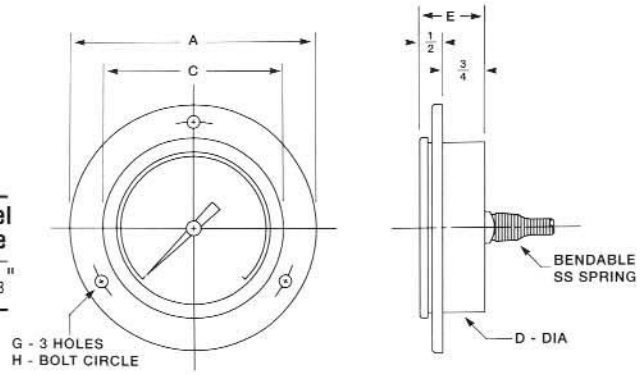
Back Flange Case

Code	Case Size	Conn.	A	C	D	E	G	H
V35 BB	3 1/2"	Back	4 3/4"	3 11/16"	3 19/32"	1 1/4"	5/32	4 5/16"
V35 BL	3 1/2"	Bottom	4 3/4"	3 11/16"	3 19/32"	1 1/4"	5/32	4 5/16"



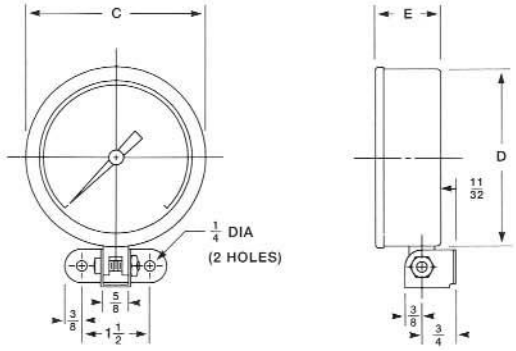
Semi-Flush Case

Code	Case Size	Conn.	A	C	D	E	G	H	Panel Hole
V35 RB	3 1/2"	Back	4 3/4"	3 11/16"	3 19/32"	1 1/4"	5/32"	4 5/16"	3 5/8"



Adjustable Bracket Case

Code	Case Size	Conn.	A	C	D	E
V35 ZL	3 1/2"	Bottom	-	3 11/16"	3 19/32"	1 1/4"



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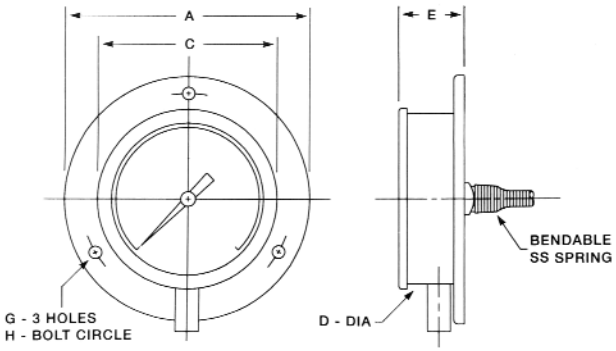
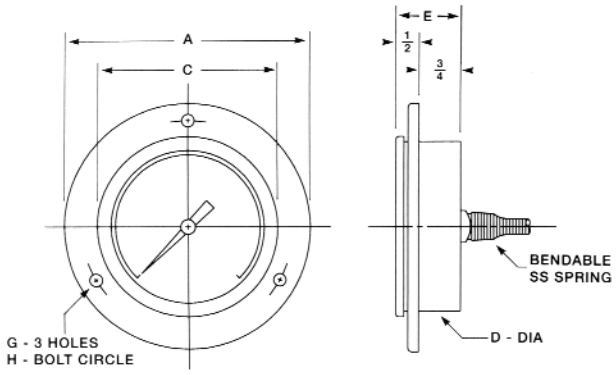
Back Flange Case

Code	Case Size	Conn.	A	C	D	E	G	H
V45 BB	4 1/2"	Back	5 7/8"	4 11/16"	4 19/32"	1 1/4"	7/32"	5 3/8"
V45 BL	4 1/2"	Bottom	5 7/8"	4 11/16"	4 19/32"	1 1/4"	7/32"	5 3/8"



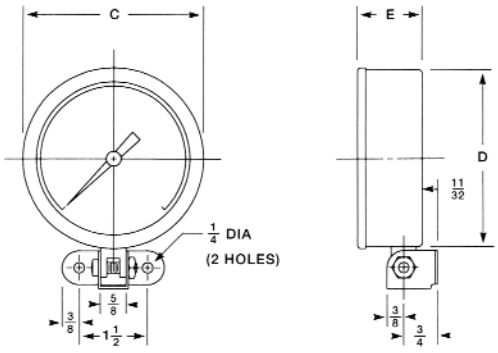
Semi-Flush Case

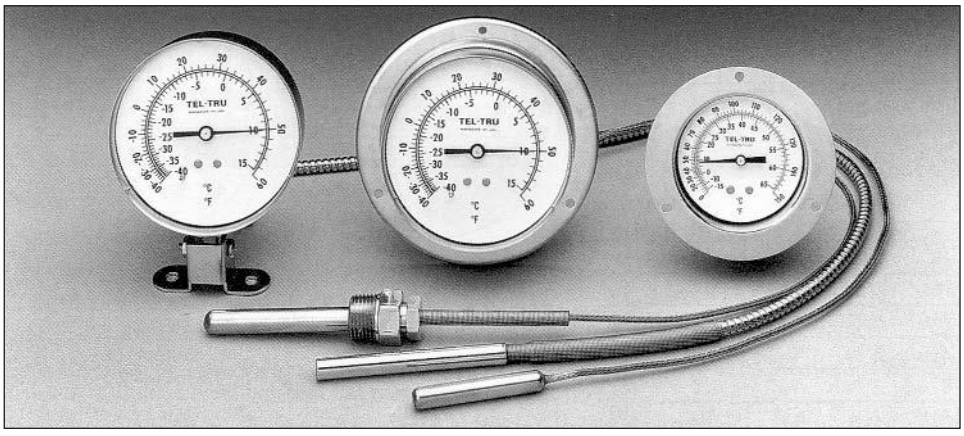
Code	Case Size	Conn.	A	C	D	E	G	H	Panel Hole
V45 RB	4 1/2"	Back.	5 7/8"	4 11/16"	4 19/32"	1 1/4"	7/32"	5 3/8"	4 5/8"



Adjustable Bracket Case

Code	Case Size	Conn.	A	C	D	E
V45 ZL	4 1/2"	Bottom	-	4 11/16"	4 19/32"	1 1/4"





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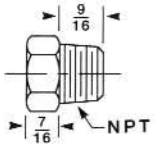
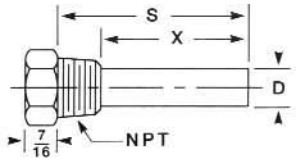
Process Connection

Table 5:

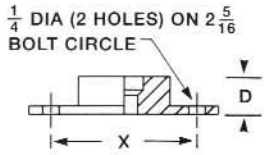
Code 1, 2
Union
Connection



Code 3, 4
Thermowell
Connection



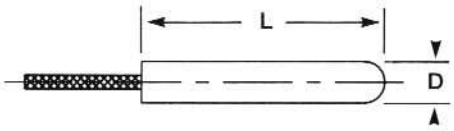
Code 7
Flange
Connection



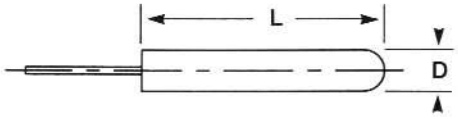
Thermal System Selection

Table 7:

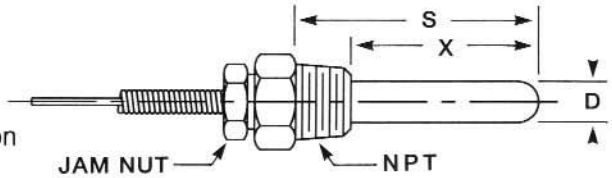
Code 2
Plain Bulb
Braided Capillary



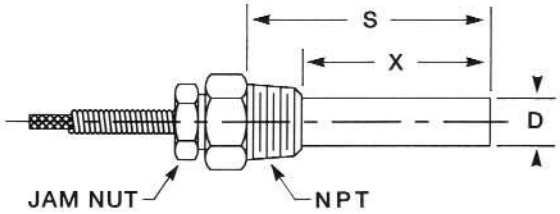
Code 3
Plain Bulb
Plain Capillary



Code 5, 8, 9
Capillary with
Union Connection



Code 5, 8, 9
Capillary with
Thermowell

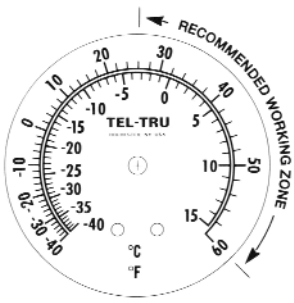


Bulb Dimensions

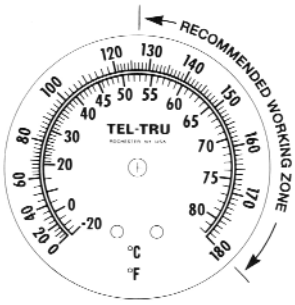
Code	Plain Bulb		Union Connection			Thermowell Connection			Flange Connection	
	L	D	X	S	D	X	S	D	X	D
1	N/A	N/A	1 13/16"	2 3/8"	7/16"	1 15/16"	2 1/2"	9/16"	2 3/16"	7/16
2	3 7/16"	3/8"	2 5/8"	3 3/8"	7/16"	2 5/8"	3 3/8"	9/16"	3"	7/16
3	4 7/8"	3/8"	4 5/8"	5 3/8"	7/16"	4 5/8"	5 3/8"	9/16"	5"	7/16
4	7 7/8"	3/8"	6 5/8"	7 3/8"	7/16"	6 5/8"	7 3/8"	9/16"	7"	7/16
6	2 1/2"	3/8"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: "X" for flange connection is the insertion length from tip of bulb to face of flange (not pictured)

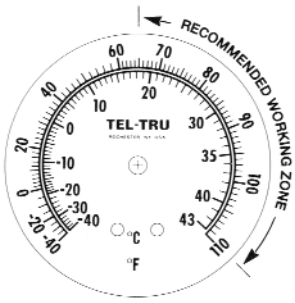
Vapor Thermometer Dials



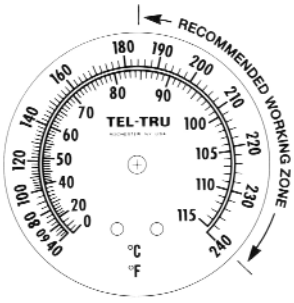
Code DA -40/60°F -40/15°C



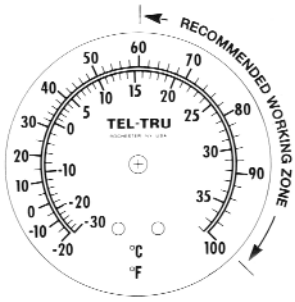
Code DF 0/180°F -20/82°C



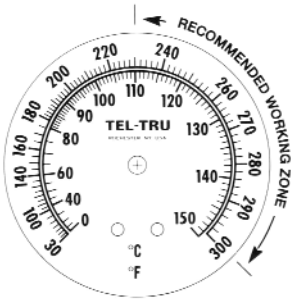
Code DB -40/110°F -40/43°C



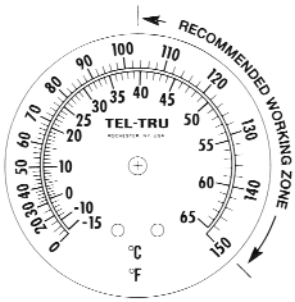
Code DG 40/240°F 0/115°C



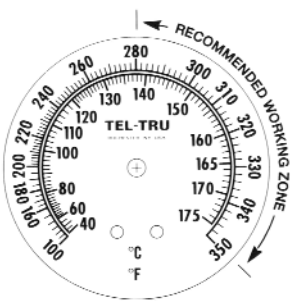
Code DC -20/100°F -30/38°C



Code DH 30/300°F 0/150°C



Code DE 0/150°F -15/65°C



Code DJ 100/350°F 40/175°C

Note: Accuracy is ± one graduation in the recommended working zone

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How to Order:

Select proper code from tables, in order, and combine to provide complete thermometer description.

Example

V25	U	B	4	1	2	3	1	05	DE	0

Table 1	**Case Size:**	2-1/2"
Table 2	**Case Type:**	SS U Clamp
Table 3	**Connection:**	Back
Table 4	**Case Front/Window**	Glass w/SS ring
Table 5	**Process Connection**	1/2" N PT Union
Table 6	**Process Conn. Material**	304 SS
Table 7	**Thermal System**	Plain Bulb - Capillary SS
Table 8	**Bulb Selection**	7/16" x 2.5"
Table 9	**Capillary Length**	05'
Table 10	**Temperature Range**	0/150°F & -15/65°C
Table 11	**Options**	None

Table 1:

Code	Case Size
V 20	2"
V 25	2 1/2"
V 35	3 1/2"
V 45	4 1/2"

Table 2:

Code	Case Type & Material
F	SS Front Flange 2" & 2 1/2"
U	SS U-Clamp 2" & 2 1/2"
Q	SS U-Clamp 3 1/2"
B	SS Back Flange 3 1/2" & 4 1/2"
R	SS Front Flange, semi flush 3 1/2" & 4 1/2"
Z	SS Adjustable bracket 3 1/2" & 4 1/2"

Table 3:

Code	Connection
B	Back Connection (N/A Type Z Case)
L	Lower (N/A Type F, U, Q, R Cases)

Table 4:

Code	Case Front and Window
3	Lexan snap in lens
4	Glass lens with SS ring 2" & 2 1/2"
5	Glass lens w/Chrome/brass ring 'Q' 3 1/2"
7	Glass lens w/rubber ring 3 1/2" & 4 1/2"
8	Glass lens w/crimped SS ring water resist. 2" & 2 1/2"
9	Lexan Threaded lens 2", 2 1/2", 3 1/2"

Table 5:

Code	Process Connection
1	Union 1/2" npt
2	Union 3/4" npt
3	Thermowell 1/2"npt
4	Thermowell 3/4" npt
7	Air duct Flange union
9	Plain bulb no fitting

Table 6:

Code	Process Connection material
1	Brass
2	304 Stainless Steel
3	316 Stainless Steel
5	Aluminum – air duct only
0	none - plain bulb

Table 7:

	Thermal System			
Code	Bulb Type	Bulb Material	Capillary Material	Protection
2	Plain	Copper	Copper	Braided
3	Plain	SS	SS	none
5	Union	Copper	Copper	Braided
8	Union	SS	SS	Armored
9	Union	SS	SS	None

Table 8:

	Bulb Selection		
Code	Max. Cap. Length	Union Dim.	Plain Dim.
1	10 ft.	7/16" x 2.5"	N/A
2	25 ft.	7/16" x 3.4"	3/8" x 3.4"
3	50 ft.	7/16" x 5.4"	3/8" x 5.4"
4	99 ft.	7/16" x 7.4"	3/8" x 7.4"
6	5 ft.	N/A	3/8" x 2.5"

Table 9:

Code	Capillary Length – Ft.
XX	Use 2 digits; ex. 05', 10'

Table 10:

	Dual Temperature Ranges				
Code	°F	°C	Code	°F	°C
DA	-40/60	-40/15	DF	0/180	-20/82
DB	-40/110	-40/43	DG	40/240	0/115
DC	-20/100	-30/38	DH	30/300	0/150
DE	0/150	-15/65	DJ	100/350	40/175

See page 6 for recommended working zone. Other ranges available.

Table 11:

Code	Options
0	None
1	Vibration Dampening

REPRESENTED BY: YATES & COMPANY, INC. ♦ 1 Hollywood Ave, Unit 22 HoHoKus, NJ 07423
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