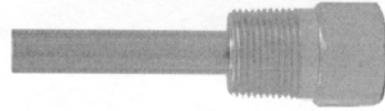


Gauges

316 Stainless Steel Threaded Thermowells

Part #	Process Connection	"U" Dimensions
75TH2R015SS	3/4" NPT	1-5/8"
75TH2R025SS	3/4" NPT	2-1/2"
75TH2R045SS	3/4" NPT	4-1/2"
75TH2R075SS	3/4" NPT	7-1/2"



Bi-Metal Pocket Thermometers

- Case: 304 stainless steel case, hermetically sealed
- Crystal: Extra heavy polycarbonate crystal
- Stem: 304 series stainless steel
- External reset: Hex nut on back case
- Bi-metal element: Responsive actuation by bi-metal helix
- Dampening: Bi-metal helix is coated with a viscous silicone to minimize pointer oscillation
- Scale length: Approximately 2-1/8" (54mm)
- Accuracy: 1%
- Carrying case: Polyethylene case with clip



Part #	Range
PT220	0-220°F
PT550	50-550°F

DF Burnham Gauges

All of the gauges supplied by DF Burnham are design for long, reliable service under rugged conditions. Typical applications include those on pumps, hydraulic and pneumatic systems, compressors, machine tools and many other installations where it is necessary to have a gauge with a non-corrosive movement. The gauges available include standard dry and liquid-filled pressure gauges, compound pressure gauges, vacuum gauges and welding gauges. Material available include brass, stainless steel and plastic.

Fig. Inter.: Figure interval. Increments between PSI numbers on gauge face.

Grad. Inter.: Graduation Interval. Fractional increments between PSI numbers on gauge face.

Brass Standard Dry Gauges

Part #	2-1/2" 1/4" Lower Mount	
	Fig. Inter.	Grad. Inter.
60P-0-15-BRASS	3	.2
60P-0-30-BRASS	5	.5
60P-0-60-BRASS	10	1
60P-0-100-BRASS	20	2
60P-0-160-BRASS	20	2
60P-0-200-BRASS	50	5
60P-0-300-BRASS	50	5
60P-0-400-BRASS	100	10
60P-0-600-BRASS	100	10
60P-0-1000-BRASS	200	20
60P-0-1500-BRASS	300	20
60P-0-2000-BRASS	500	50
60P-0-3000-BRASS	500	50
60P-0-5000-BRASS	1000	100



- 1.5% accuracy
- Polished brass case
- Polished brass ring
- Copper alloy bourdon tube
- Dual PSI / kPa scale dial
- Ambient temperature range of -10°F to 140°F

Gauges

Brass Liquid Filled Gauges

Designed for severe service in hydraulic systems and other demanding applications.



- 1.5% accuracy on 2-1/2"; 1% accuracy on 4"
- Acrylic window with membrane assembly
- Copper alloy bourdon tube
- Brass movement with highly polished bearing surfaces
- Glycerin filled
- Ambient temperature range of 0°F to 140°F

2-1/2" Face
1/4" Lower Mount

PSI	Fig. Inter.	Grad. Inter.	Part #
0-15	3	.2	<i>GLBR15</i>
0-30	5	.5	<i>GLBR30</i>
0-60	10	1	<i>GLBR60</i>
0-100	20	2	<i>GLBR100</i>
0-160	20	2	<i>GLBR160</i>
0-200	50	5	<i>GLBR200</i>
0-300	50	5	<i>GLBR300</i>
0-400	100	10	<i>GLBR400</i>
0-600	100	10	<i>GLBR600</i>
0-1000	300	20	<i>GLBR1000</i>
0-1500	500	20	<i>GLBR1500</i>
0-2000	500	50	<i>GLBR2000</i>
0-3000	1000	50	<i>GLBR3000</i>
0-5000	1000	100	<i>GLBR5000</i>

2-1/2" Face
1/4" Center Back Mount

PSI	Fig. Inter.	Grad. Inter.	Part #
0-15	3	.2	<i>GLBRC15</i>
0-30	5	.5	<i>GLBRC30</i>
0-60	10	1	<i>GLBRC60</i>
0-100	20	2	<i>GLBRC100</i>
0-160	20	2	<i>GLBRC160</i>
0-200	50	5	<i>GLBRC200</i>
0-300	50	5	<i>GLBRC300</i>
0-400	100	10	<i>GLBRC400</i>
0-600	100	10	<i>GLBRC600</i>
0-1000	300	20	<i>GLBRC1000</i>
0-1500	500	20	<i>GLBRC1500</i>
0-2000	500	50	<i>GLBRC2000</i>
0-3000	1000	50	<i>GLBRC3000</i>
0-5000	1000	100	<i>GLBRC5000</i>

2-1/2" has solid cast Brass case with polished Brass slip-fit ring

4" Face

1/2" Lower Mount

PSI	Fig. Inter.	Grad. Inter.	Part #
0-15	3	.2	<i>GLBR15-4</i>
0-30	5	.5	<i>GLBR30-4</i>
0-60	10	1	<i>GLBR60-4</i>
0-100	10	1	<i>GLBR100-4</i>
0-160	20	2	<i>GLBR160-4</i>
0-200	20	2	<i>GLBR200-4</i>
0-300	50	5	<i>GLBR300-4</i>
0-400	50	5	<i>GLBR400-4</i>
0-600	100	10	<i>GLBR600-4</i>
0-1000	100	10	<i>GLBR1000-4</i>
0-1500	300	20	<i>GLBR1500-4</i>
0-2000	200	20	<i>GLBR2000-4</i>
0-3000	500	50	<i>GLBR3000-4</i>
0-5000	500	50	<i>GLBR5000-4</i>
0-10000	1000	100	<i>GLBR10000-4</i>

4" has cast Brass, silver painted case with Chrome plated Brass ring

Gauges

Bi-Metal Thermometers

Case: Sturdy, corrosion resistant series 304 Stainless Steel case and bezel.

Crystal: Optically clear, strong glass, gasketed to maintain weather-tight integrity is standard.

Stem: 304 Series Stainless Steel, welded at tip and case connector to prevent leakage. 1/4" (6.35 mm) diameter is standard.

Hermetic Seal: Hermetically sealed per ASME B40.3

External Reset: A slotted-hex adjustment head offers screwdriver or wrench use to field calibrate the thermometer.

Bi-Metal Element: An extremely responsive temperature sensing helix which has been carefully sized and tested, heat treated and aged to relieve inherent stresses and insure continued accuracy.

Dampening: Bi-metal helix is coated with a viscous silicone to minimize pointer oscillation and to improve temperature transmission.

Immersion: For accurate temperature readings, immerse stem a minimum of 2" (50mm) in agitated liquids or 4" (100mm) in moving air or gas.

Over Range: Temporary over or under range of 50% of scale up to 260°C or 500°F will not affect the instrument accuracy.

Accuracy: Guaranteed to be accurate to within 1% of full scale (Grade A per ASME B40.3). (The American Society of Mechanical Engineers issued a new standard for Bi-Metal Thermometers in 1990 referred to as ASME B40.3.)

Standard Connection is
1/2" Male NPT.

Model 30 Back Connected 3" Thermometer

Stem Length	Range	Part #
2-1/2"	0-250°F/-20-120°C	30025064
2-1/2"	50-500°F/10-260°C	30025104
4"	0-250°F/-20-120°C	30040064
4"	50-500°F/10-260°C	30040104
6"	0-250°F/-20-120°C	30060064
6"	50-500°F/10-260°C	30060104
9"	0-250°F/-20-120°C	30090064
9"	50-500°F/10-260°C	30090104



Model 31 Bottom Connected 90° Angle Thermometer

Stem Length	Range	Part #
2-1/2"	0-250°F/-20-120°C	31025064
4"	50-500°F/10-260°C	31040104



Model 50 Back Connected 5" Thermometer

Stem Length	Range	Part #
2-1/2"	50-500°F/10-260°C	50025104
4"	0-250°F/-20-120°C	50040064



Model 52 Adjustable Angle 5" Thermometer

Stem Length	Range	Part #
2-1/2"	0-250°F/-20-120°C	52025064
4"	0-250°F/-20-120°C	52040064
4"	50-500°F/10-260°C	52040104



Magnetic Surface Mount Thermometers

2" Face

Range	Part #
0-250°F	MT250
0-500°F	MT500

Case: Steel, 2" x 1/2"

Dial: Polished Aluminum

Bi-Metal Element: Responsive actuation by bi-metal helix

Accuracy: +/- 2%



Gauges

Contractor Pressure Gauges

- Accuracy class: +/- % of span
- Material of wetted parts: copper alloy
- Window: acrylic, snap in
- Dial: aluminum, white
- Pointer: aluminum, black adjustable
- Mounting flange/bracket: rear flange, stainless steel

Part #	PSI
4277750-0001	0-15
4277768-0001	0-30
4277776-0001	0-60



Liquid Filled Stainless Case Gauges

- ASME B40.1, Grade B (+/- 3-2-3% accuracy)
- Helical wound bronze bourdon tube (**1000 PSI** and above)
- White aluminum dial with black numbers and black aluminum pointer
- PowerFlex™ movement with polyester segment designed to resist the effects of shock, vibration and pulsation.
- 1/4" NPT brass connection
- Glycerin liquid fill
- Ambient temperature range **20°F to 150°F**

2-1/2" Face
1/4" Lower Mount

Part #	Fig. Inter.	Grad. Inter.	PSI
70G-0-15	1	.5	0-15
70G-0-30	5	.5	0-30
70G-0-60	5	1	0-60
70G-0-100	10	2	0-100
70G-0-160	20	5	0-160
70G-0-200	20	5	0-200
70G-0-300	30	5	0-300
70G-0-400	50	10	0-400
70G-0-600	50	10	0-600
70G-0-1000	200	20	0-1000
70G-0-1500	300	50	0-1500
70G-0-2000	400	50	0-2000
70G-0-3000	500	100	0-3000
70G-0-5000	1000	100	0-5000



2-1/2" Face
1/4" Back Mount

Part #	Fig. Inter.	Grad. Inter.	PSI
71G-0-15	1	.5	0-15
71G-0-30	5	.5	0-30
71G-0-60	5	1	0-60
71G-0-100	10	2	0-100
71G-0-160	20	5	0-160
71G-0-200	20	5	0-200
71G-0-300	30	5	0-300
71G-0-400	50	10	0-400
71G-0-600	50	10	0-600
71G-0-1000	200	20	0-1000
71G-0-1500	300	50	0-1500
71G-0-2000	400	50	0-2000
71G-0-3000	500	100	0-3000
71G-0-5000	1000	100	0-5000

180° Steam Gauge Siphon

In order to prevent live steam from entering a pressure gauge bourdon tube, a siphon filled with water should be installed between the gauge and the process line. If freezing of the condensate in the loop of a siphon is a possibility, a diaphragm seal should be used to isolate the gauge from the process steam. Also use siphons whenever condensing hot vapors (not just steam) are present.

- 1/4" standard weight red brass pipe
- Complies with ASTM B-43
- Withstands combined pressure of 200 PSI and 406°F



Part #	Size
401-01	1/4"

Gauges

Compound Gauges



2-1/2" Face
1/4" Lower Mount

Mercury (Hg)	PSI	Fig. Inter. Hg / PSI	Minor Grad. Hg / PSI	Part #
30"	0-100	15 / 10	5 / 2	DFB310
30"	0-160	30 / 20	10 / 10	DFB110
30"	0-200	30 / 20	10 / 10	DFB315

2-1/2" Face
1/4" Center Back Mount

Mercury (Hg)	PSI	Fig. Inter. Hg / PSI	Minor Grad. Hg / PSI	Part #
30"	0-160	30 / 20	5 / 5	DFB210

- ASME B40.1, Grade B accuracy (+/- 3-2-3 % accuracy)
- ABS Plastic case
- Bronze bourdon tube / Brass socket
- Polycarbonate crystal
- Black Aluminum pointer
- Brass movement with polyester segment, designed for extended wear.
- Ambient temperature range of -40°F to 150°F

Vacuum Gauges



- ASME B40.1, Grade B accuracy (+/- 3-2-3 % accuracy)
- ABS Plastic case
- Bronze bourdon tube
- Polycarbonate crystal
- Black Aluminum pointer
- Brass movement with Polyester segment, designed for extended wear.
- Ambient temperature range of -40°F to 150°F

2" Face
1/4" Lower Mount

Mercury (Hg)	Fig. Inter.	Minor Grad.	Part #
30"	5"	.5"	DFB105

2" Face
1/4" Center Back Mount

Mercury (Hg)	Fig. Inter.	Minor Grad.	Part #
30"	5"	.5"	DFB205

2-1/2" Face
1/4" Lower Mount

Mercury (Hg)	Fig. Inter.	Minor Grad.	Part #
30"	5"	.5"	DFB305

Brass Welding Gauges



- 3-2-3% accuracy according to ANSI B.40.1 Grade B
- Polished drawn Brass case
- Twist-lock Polycarbonate window
- Copper alloy bourdon tube
- "Use no oil" in red on face
- Temperature Range: -10°F to 140°F

2-1/2" Face
1/4" Lower Mount

PSI	Fig. Inter.	Minor Grad.	Part #
0-30	5	.5	DFBW30
0-30	5	.5	DFBW30R*
0-60	10	1	DFBW60
0-100	20	2	DFBW100
0-200	50	5	DFBW200
0-400	100	10	DFBW400
0-600	100	50	DFBW600
0-4000	1000	100	DFBW4000

* Red band between 15 to 30 PSI on GBRW30R

Gauges

Standard Dry Gauges

- ASME B40.1, Grade B (+/- 3-2-3% accuracy)
- ABS Plastic case
- C-shaped bronze safety bourdon tube (**600 PSI** and lower)
- Helical wound bronze safety bourdon tube (**1000 PSI** and higher)
- Polycarbonate crystal
- Black aluminum pointer
- PowerFlex™ movement with polyester segment, designed to resist the effects of shock, vibration and pulsation.
- Ambient temperature range of **-40°F to +150°F**

Center Back Mount Standard Dry Gauges

2" Face
1/4" Center Back Mount

Part #	Fig. Inter.	Grad. Inter.	PSI
61P-0-15-2.0	1	.5	0-15
61P-0-30-2.0	5	.5	0-30
61P-0-60-2.0	5	1	0-60
61P-0-100-2.0	10	2	0-100
61P-0-160-2.0	20	5	0-160
61P-0-200-2.0	20	5	0-200
61P-0-300-2.0	30	5	0-300



1-1/2" Face
1/8" Center Back Mount

Part #	Fig. Inter.	Grad. Inter.	PSI
SG-02-30	5	.5	0-30
SG-02-60	5	1	0-60
SG-02-100	10	2	0-100
SG-02-160	20	5	0-160
SG-02-200	20	5	0-200

Brass Standard Dry Gauges



2-1/2" Face
1/4" Lower Mount

Part #	Fig. Inter.	Grad. Inter.	PSI
60P-0-15	1	.5	0-15
60P-0-30	5	.5	0-30
60P-0-60	5	1	0-60
60P-0-100	10	2	0-100
60P-0-160	20	5	0-160
60P-0-200	20	5	0-200
60P-0-300	30	5	0-300
60P-0-400	50	10	0-400
60P-0-600	50	10	0-600
60P-0-1000	200	20	0-1000
60P-0-1500	300	50	0-1500
60P-0-2000	400	50	0-2000
60P-0-3000	500	100	0-3000
60P-0-5000	1000	100	0-5000

2" Face
1/4" Lower Mount

Part #	Fig. Inter.	Grad. Inter.	PSI
60P-0-15-2.0	1	.5	0-15
60P-0-30-2.0	5	.5	0-30
60P-0-60-2.0	5	1	0-60
60P-0-100-2.0	10	2	0-100
60P-0-160-2.0	20	5	0-160
60P-0-200-2.0	20	5	0-200
60P-0-300-2.0	30	5	0-300

3-1/2" Face
1/4" Lower Mount

Part #	Fig. Inter.	Grad. Inter.	PSI
60P-0-15-3.5	1	.5	0-15
60P-0-30-3.5	5	.5	0-30
60P-0-60-3.5	5	1	0-60
60P-0-100-3.5	10	2	0-100
60P-0-160-3.5	20	5	0-160
60P-0-200-3.5	20	5	0-200
60P-0-300-3.5	30	5	0-300
60P-0-400-3.5	50	10	0-400
60P-0-600-3.5	50	10	0-600
60P-0-1000-3.5	200	20	0-1000



Gauges



2-1/2" Face
1/4" Center Back Mount

Part #	Fig. Inter.	Grad. Inter.	PSI
61P-0-15	1	.5	0-15
61P-0-30	5	.5	0-30
61P-0-60	5	1	0-60
61P-0-100	10	2	0-100
61P-0-160	20	5	0-160
61P-0-200	20	5	0-200
61P-0-300	30	5	0-300
61P-0-400	50	10	0-400
61P-0-600	50	10	0-600
61P-0-1000	200	20	0-1000
61P-0-1500	300	50	0-1500
61P-0-2000	400	50	0-2000
61P-0-3000	500	100	0-3000
61P-0-5000	1000	100	0-5000



Gauges