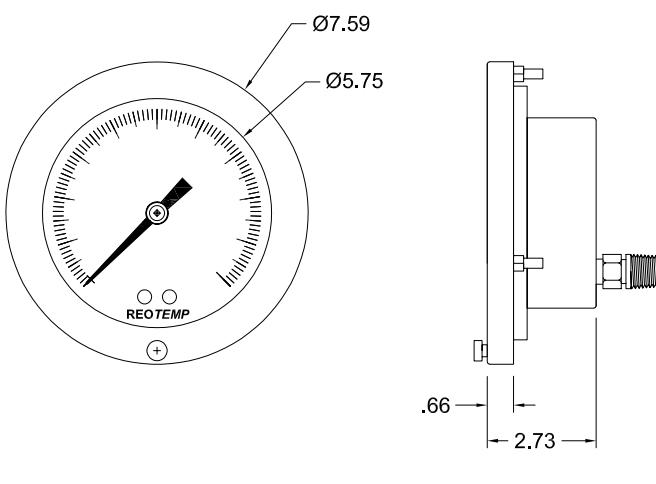
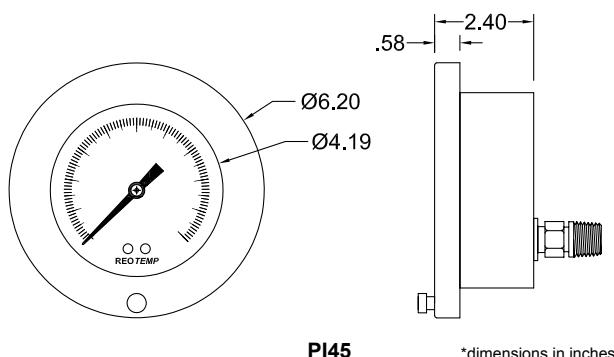


HINGE-FRONT INDUSTRIAL PROCESS GAUGE

REOTEMP's Series PI45 process gauge is designed to withstand corrosive atmospheres and media, ideal for panel builders in the heavy-industrial markets. The hinge-front case allows for easy access to the gauge dial while still panel mounted.



PI



Dials



Accuracy



Custom Logo



FEATURES / BENEFITS

- All Stainless Steel Internal Parts
- Internal Overload and Underload Stops
- Micro-Adjustable Pointer with Floating Zero
- Hinge-front Case for Easy Recalibration

SPECIFICATIONS

Construction Materials:

Non Wetted

Case: Black Painted Aluminum

Ring: Black Painted Aluminum

Dial: Aluminum

Wetted

Tube: 316L SS

Socket: 316 SS

Case-to-Socket

O-Ring, Vented

Lens

Tempered Safety Glass (std)

Plastic (optional)

Laminated Safety Glass (optional)

Temperature Limits:

Ambient

-40°F — 150°F

Process

-40°F — 250°F

Process Temperature Limits When Assembled with a Diaphragm Seal

-60°F — 400°F

Direct Mount

-100°F — 750°F

Remote Mount or Cooling Tower

*Exact temperature limits will depend on diaphragm seal & fill fluid.

Accuracy: $\pm 0.5\%$, ASME Grade 2A,
(10k-20k, 1% upscale and 3% downscale)

Fillable: No

Restrictor Screw: Yes

Weight: 2.5lbs

Overpressure:

Stable = 100%

Momentary = 130% of scale

HINGE-FRONT INDUSTRIAL PROCESS GAUGE


[Visit reotemp.com](http://reotemp.com)

- ✓ Check Stock
- ✓ Get Price
- ✓ Configure Part #
- ✓ Download PDF Data Sheets

HOW TO ORDER: Choose options to build a part number. For example: PI45H1E2P16-D-P-HV

PI45	H	1	E	2	P16	-D	-P	-HV
DIAL SIZE	CASE TYPE	TUBE & SOCKET	MOUNT TYPE	CONNECTION	RANGE CODE	CASE FILL	LENS	ACCESSORIES
PI45 = 4.5" PI60 = 6"	H = Black Painted Aluminum, Hinge- Front	1 = 316SS *3 = Monel	E =  Lower Back/Front Flange	2 = 1/2" NPT 4 = 1/4" NPT	See Master Range Code Sheet on page 41 Common Ranges P01 = -30 in Hg-0 psi P03 = -30 in Hg-0-30 psi P16 = 0-30 psi P18 = 0-100 psi P20 = 0-200 psi P21 = 0-300 psi P25 = 0-1,000 psi P34 = 0-5,000 psi	Case is Not Fillable -P = Plastic -D = Dry	-P = Plastic -C3 = 3 pt. Calibration Certificate -OX = Cleaned for O ₂ Service -NC = NACE Compliance Certificate	-HV = Hi-Vis Dial

PI45 = 4.5" **H** = Black Painted Aluminum, Hinge- Front **1** = 316SS ***3** = Monel **E** =  Lower Back/Front Flange **2** = 1/2" NPT **4** = 1/4" NPT **See Master Range Code Sheet on page 41**

Common Ranges
P01 = -30 in Hg-0 psi
P03 = -30 in Hg-0-30 psi
P16 = 0-30 psi
P18 = 0-100 psi
P20 = 0-200 psi
P21 = 0-300 psi
P25 = 0-1,000 psi
P34 = 0-5,000 psi

PI60 = 6" **H** = Black Painted Aluminum, Hinge- Front **1** = 316SS ***3** = Monel **E** =  Lower Back/Front Flange **2** = 1/2" NPT **4** = 1/4" NPT **See Master Range Code Sheet on page 41**

Common Ranges
P01 = -30 in Hg-0 psi
P03 = -30 in Hg-0-30 psi
P16 = 0-30 psi
P18 = 0-100 psi
P20 = 0-200 psi
P21 = 0-300 psi
P25 = 0-1,000 psi
P34 = 0-5,000 psi

Available Ranges
■ Vac to 20,000 psi
■ Gauge Pressure,
Vacuum, or
Compound
■ Lowest Range = 10 psi

Available Units
■ psi ■ bar
■ kPa ■ kg/cm²
■ ft_{H2}O ■ & more

*Non-standard configuration

Diaphragm Seal Suitability Guide

For applications where a diaphragm seal is required, the following diaphragm seal model types are most commonly assembled and filled to Series PI45 pressure gauges. This matrix identifies which diaphragm seal is appropriate based on the specified pressure range. Please reference the diaphragm seal data sheet and seal fill fluid guide for additional application considerations including max pressure, temperature limits, and material compatibility.

Diaphragm Seal Model

Total Gauge Span* (in psi)

	15	30	45	60	75	100	160+
Mini Seals	MS6	X	S	T	T	T	
	MS8	S	T	T			
Threaded Flush	1"	X	X	X	S	S	T
	1.5"	S	S	T	T		
Offline	W5	S	T	T			
	W6	T					
	T5	S	T				
	V5						

*Total gauge span is additive of negative and positive pressures.

Example: -15 - 0 - 30 psi = 45 psi span

 Assembly will function correctly with minimal accuracy degradation.

 Assembly will function correctly given stable process temperature.

 Assembly is highly sensitive to orientation and temperature variance. REOTEMP cannot guarantee a stated accuracy.

 Assembly will not work. The diaphragm does not displace enough fill fluid to drive the pressure gauge.