

HINGE-FRONT INDUSTRIAL PROCESS GAUGE

PRESSURE GAUGES

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



Diaphragm Seal
Compatible

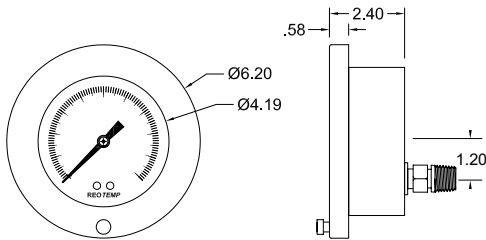
FEATURES / BENEFITS

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



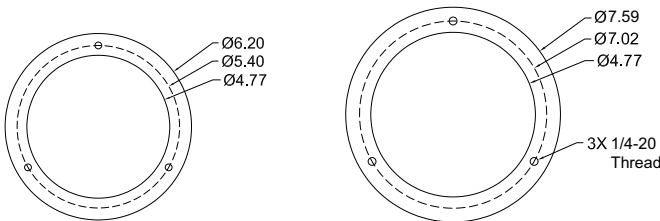
SPECIFICATIONS

Accuracy	±0.5%, ASME Grade 2A, (10k-20k psi, 1% upscale and 3% downscale)
Ambient Limits	-40°F/150°F
Process Limits	-40°F/250°F
Process Limits with Diaphragm Seal	-60°F/400°F (Direct Mount)* -110°F/750°F (Remote Mount or Cooling Tower)* *Exact limits depend on diaphragm seal and fill fluids.
Wetted Materials	Tube: 316SS Seamless Socket: 316SS
Lens	Glass (Standard on 6") Plastic (Standard on 4.5")
Other Materials	Case: Black Painted Aluminum Ring: Black Painted Aluminum Dial: Aluminum Case-to-Socket: O-Ring, Vented
Fillable	No
Restrictor Screw	Yes
Maximum Working Pressure	Stable = 100% Momentary = 130% of scale
Weight	2.5 lbs



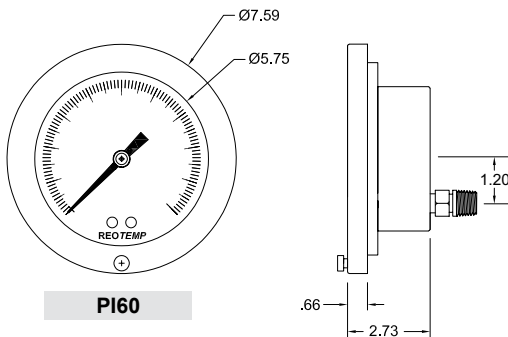
PI45

*dimensions in inches



Integrated PI45 Mounting Flange

Integrated PI60 Mounting Flange



PI60

*dimensions in inches

HINGE-FRONT INDUSTRIAL PROCESS GAUGE



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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	OPTIONS
PI45 = 4.5" *PI60 = 6"	H = Black Painted Aluminum, Hinge- Front	1 = 316SS *3 = Monel	E = Lower Back/Front Flange G = Bottom Mount/Front Flange	2 = 1/2" NPT 4 = 1/4" NPT	Common Ranges P01 = -30 inHg-0 psi P03 = -30 inHg-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/cm ² ■ ftH ₂ O ■ & more	-D = Dry <i>Case is not fillable.</i>	-P = Plastic -G = Glass	-HV = Hi-Vis™ Dial -C3 = 3 pt. Calibration Certificate -OX = Cleaned for O ₂ Service -NC = NACE Compliance Certificate -PM = Positive Material Identification Certification
						For Additional Range Codes See Page 75		

*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)

Mini Seals

		15	30	45	60	75	100	160+
	MS6	X	S	T	T	T		
	MS8	S	T	T				

Threaded Flush

		15	30	45	60	75	100	160+
	1"	X	X	X	S	S	T	
	1.5"	S	S	T	T			

Offline

		15	30	45	60	75	100	160+
	W5	S	T	T				
	W6	T						
	T5	S	T					
	W7/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 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.

PRESSURE GAUGE OPTIONS

Part #	Description	Heavy-Duty Industrial Gauges				Process Gauges			Stainless Steel Case Industrial Gauges			
		PR25	PR35	PR40	PR60	PT45P	PT45T	PI45	PM25/40	PM15/20	PG**C	PG**S
CASE FILL OPTIONS												
-G	Glycerin Filled Case	✓	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓
-W	Glycerin Water Filled Case (65/35)	✓	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓
-S	Silicone Filled Case	✓	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓
-T	Teflon-coated Movement (No Case Fill)	✓	✓	✓	✓	✓	✓	✓	✓	N/A	N/A	N/A
-I	Inert Case Fill	✓	✓	✓	✓	✓	✓	N/A	✓	N/A	N/A	N/A
LENS OPTIONS												
-P	Plastic Lens	STD	✓	✓	✓	✓	✓	STD	STD	STD	STD	✓
-T	Tempered Safety Glass Lens	✓	STD	STD	STD	STD	STD	N/A	N/A	N/A	N/A	STD
-S	Laminated Safety Glass Lens	✓	✓	✓	✓	✓	✓	N/A	✓	N/A	N/A	✓
-G	Plain Glass	N/A	N/A	N/A	N/A	N/A	N/A	N/A	MQ	MQ	MQ	N/A
POINTER OPTIONS												
-RP	Red Pointer	✓	✓	✓	✓	✓	✓	✓	✓	N/A	N/A	N/A
-MP	Min/Max Pointer (Drag Hand)†	✓	N/A	✓	✓	✓	✓	N/A	N/A	N/A	N/A	N/A
-MQ	Min/Max Pointer (Tamper-proof)†	✓	N/A	✓	✓	✓	✓	N/A	N/A	N/A	N/A	N/A
-RH	Red Set Hand (Manual Adjustment)	N/A	N/A	✓	✓	✓	✓	N/A	N/A	N/A	N/A	N/A
-EC	Electrical Contacts	N/A	N/A	✓	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A
DIAL OPTIONS												
-CL	Custom Logo Dial	✓	✓	✓	✓	✓	✓	✓	✓	MQ	MQ	✓
-HV	Hi-Vis Dial	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-CB	Color Band	✓	✓	✓	✓	✓	✓	✓	✓	MQ	MQ	✓
-CP	Color Pie	✓	✓	✓	✓	✓	✓	✓	✓	MQ	MQ	✓
-DM	Dial Marking	✓	✓	✓	✓	✓	✓	✓	✓	MQ	MQ	✓
-LP	Removable Lens Protector	N/A	N/A	N/A	N/A	✓	✓	✓	N/A	N/A	N/A	N/A
CALIBRATION OPTIONS												
-R1	Upgrade to 1% FS Accuracy	✓	✓	STD	STD	N/A	N/A	N/A	✓	N/A	N/A	✓
-R2	Upgrade to 0.5% FS Accuracy	N/A	N/A	✓	✓	STD	STD	STD	N/A	N/A	N/A	N/A
-R5	Upgrade to 1.5% FS Accuracy	✓	✓	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A
-C1	1pt. NIST Calibration Cert	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-C3	3pt. NIST Calibration Cert	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-C5	5pt. NIST Calibration Cert	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-CX	10pt. NIST Calibration Cert	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-CS	Calibration Sticker (No logged pts.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TAG OPTION												
-TS	Stainless Steel Tag (1-10 Characters)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-TM	Stainless Steel Tag (11-80 characters)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-TP	Paper Tag	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CERTIFICATION OPTIONS												
-CM	General Material Conformance	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-NC	Certificate of NACE Compliance	✓	✓	✓	✓	✓	✓	✓	N/A	N/A	N/A	N/A
-PM	Positive Material Identification Certificate (PMI)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-HT	Hydrostatic Test per ASME B31.3 (5 min)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-LC	Argon Leak Check Certificate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLEANING OPTIONS												
-DG	Degreased - Wiped Clean of Oils, Shipped in Sealed Bag	✓	✓	✓	✓	✓	✓	✓	✓	N/A	N/A	✓
-OX	Cleaned for Oxygen Service per ASME B40.1	✓	✓	✓	✓	✓	✓	✓	✓	MQ	MQ	✓
-OY	Cleaned for Oxygen Service per MIL-STD-1330D	✓	✓	✓	✓	✓	✓	✓	✓	N/A	N/A	✓
OTHER OPTIONS												
-NR	No Restrictor Screw	✓	✓	✓	✓	✓	✓	✓	✓	N/A	N/A	N/A

✓	Indicates that the option is available with the model.	N/A	Indicates the option is not available with this model.
STD	Indicates standard options with no additional cost.	MQ	Minimum order quantity applies.

†This option is only available with a plastic lens.

PRESSURE GAUGE RANGES AND CODES

PRESSURE GAUGES

VACUUM/COMPOUND RANGES

psi		Dual Scale & psi & Metric						Single Scale-Metric					
"Hg/0/psi		psi & bar		psi & kg/cm ²		psi & kPa		bar		kg/cm ²		kPa	
Code	Range	Code	Range	Code	Range	Code	Range	Code	Range	Code	Range	Code	Range
P01	-30"/Hg/0	D01	"Hg & -1/0 bar	G01	"Hg & -1/0 kg/cm ²	L01	"Hg & -100/0 kPa	B00	-1/0 bar	K00	-1/0 kg/cm ²	A00	-100/0 kPa
P02	-30/0/15	D02	psi & -1/0/1	G02	psi & -1/0/1	L02	psi & -100/0/100	B01	-1/0/1	K01	-1/0/1	A01	-100/0/100
P03	-30/0/30	D03	psi & -1/0/2	G03	psi & -1/0/2	L03	psi & -100/0/200	B02	-1/0/2	K02	-1/0/2	A02	-100/0/200
P04	-30/0/60	D04	psi & -1/0/4	G04	psi & -1/0/4	L04	psi & -100/0/400	B04	-1/0/4	K04	-1/0/4	A04	-100/0/400
P05	-30/0/100	D05	psi & -1/0/7	G05	psi & -1/0/7	L05	psi & -100/0/700	B07	-1/0/7	K07	-1/0/7	A07	-100/0/700
P06	-30/0/160	D06	psi & -1/0/11	G06	psi & -1/0/11	L06	psi & -100/0/1,100	B011	-1/0/11	K011	-1/0/11	A011	-100/0/1,100
P07	-30/0/200	D07	psi & -1/0/14	G07	psi & -1/0/14	L07	psi & -100/0/1,400	B014	-1/0/14	K014	-1/0/14	A014	-100/0/1,400
P08	-30/0/300	D08	psi & -1/0/20	G08	psi & -1/0/20	L08	psi & -100/0/2,000	B020	-1/0/20	K020	-1/0/20	A020	-100/0/2,000

PRESSURE RANGES

psi		Dual Scale & psi & Metric						Single Scale-Metric					
psi		psi & bar		psi & kg/cm ²		psi & kPa		bar		kg/cm ²		kPa	
Code	Range	Code	Range	Code	Range	Code	Range	Code	Range	Code	Range	Code	Range
P14	0-10 psi	D14	psi & .7 bar	G14	psi & .7 kg/cm ²	L14	psi & 70 kPa						
P15	0-15	D15	psi & 0-1	G15	psi & 0-1	L15	psi & 0-100	B1	0-1 bar	K1	0-1 kg/cm ²	A1	0-100 kPa
P16	0-30	D16	psi & 0-2	G16	psi & 0-2	L16	psi & 0-200	B2	0-2	K2	0-2	A2	0-200
P17	0-60	D17	psi & 0-4	G17	psi & 0-4	L17	psi & 0-400	B4	0-4	K4	0-4	A4	0-400
P18	0-100	D18	psi & 0-7	G18	psi & 0-7	L18	psi & 0-700	B7	0-7	K7	0-7	A7	0-700
P19	0-160	D19	psi & 0-11	G19	psi & 0-11	L19	psi & 0-1,100	B11	0-11	K11	0-11	A11	0-1,100
P20	0-200	D20	psi & 0-14	G20	psi & 0-14	L20	psi & 0-1,400	B14	0-14	K14	0-14	A14	0-1,400
P21	0-300	D21	psi & 0-20	G21	psi & 0-20	L21	psi & 0-2,000	B20	0-20	K20	0-20	A20	0-2,000
P22	0-400	D22	psi & 0-28	G22	psi & 0-28	L22	psi & 0-2,800	B28	0-28	K28	0-28	A28	0-2,800
P23	0-600	D23	psi & 0-40	G23	psi & 0-40	L23	psi & 0-4,000	B40	0-40	K40	0-40	A40	0-4,000
P24	0-800	D24	psi & 0-55	G24	psi & 0-55	L24	psi & 0-5,500	B55	0-55	K55	0-55	A55	0-5,500
P25	0-1,000	D25	psi & 0-70	G25	psi & 0-70	L25	psi & 0-7,000	B70	0-70	K70	0-70	A70	0-7,000
P30	0-1,500	D30	psi & 0-100	G30	psi & 0-100	L30	psi & 0-10,000	B100	0-100	K100	0-100	A100	0-10,000
P31	0-2,000	D31	psi & 0-140	G31	psi & 0-140	L31	psi & 0-14,000	B140	0-140	K140	0-140	A140	0-14,000
P32	0-3,000	D32	psi & 0-200	G32	psi & 0-200	L32	psi & 0-20,000	B200	0-200	K200	0-200	A200	0-20,000
P33	0-4,000	D33	psi & 0-280	G33	psi & 0-280	L33	psi & 0-28,000	B280	0-280	K280	0-280	A280	0-28,000
P34	0-5,000	D34	psi & 0-350	G34	psi & 0-350	L34	psi & 0-35,000	B350	0-350	K350	0-350	A350	0-35,000
P35	0-6,000	D35	psi & 0-400	G35	psi & 0-400	L35	psi & 0-40,000	B400	0-400	K400	0-400	A400	0-40,000
P36	0-8,000	D36	psi & 0-550	G36	psi & 0-550	L36	psi & 0-55,000	B550	0-550	K550	0-550	A550	0-55,000
P37	0-10,000	D37	psi & 0-700	G37	psi & 0-700	L37	psi & 0-70,000	B700	0-700	K700	0-700	A700	0-70,000
P38	0-15,000	D38	psi & 0-1,000	G38	psi & 0-1,000	L38	psi & 0-100,000	B1K	0-1,000	K1K	0-1,000	A1K	0-100,000
P39	0-20,000	D39	psi & 0-1,400	G39	psi & 0-1,400	L39	psi & 0-140,000						
P40	0-30,000	D40	psi & 0-2,000	G40	psi & 0-2,000	L40	psi & 0-200,000						
P41	0-40,000	D41	psi & 0-2,800	G41	psi & 0-2,800	L41	psi & 0-280,000						
P42	0-50,000	D42	psi & 0-3,500	G42	psi & 0-3,500	L42	psi & 0-350,000						



Don't See The Range You Need? Reotemp has thousands of specialty dial ranges available and will work with you to create a custom range, just contact Reotemp customer service.