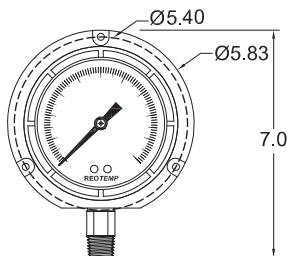


4.5" INDUSTRIAL PROCESS GAUGE

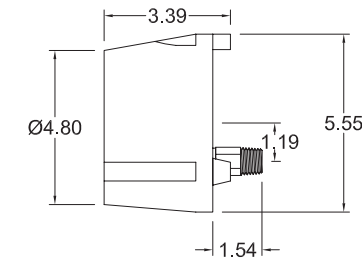
REOTEMP's Series PT45 process gauge is designed to withstand corrosive atmospheres and media, pulsation and vibration; a very rugged gauge engineered for the process industries. The solid front and blowout back provides a high degree of user safety. *Note: For highly-corrosive, high-temperature, or severe service applications a diaphragm seal is recommended.*



PT45P



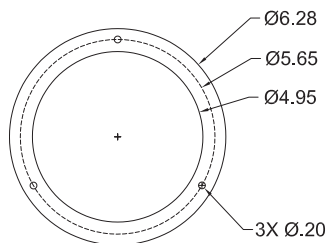
PT45P



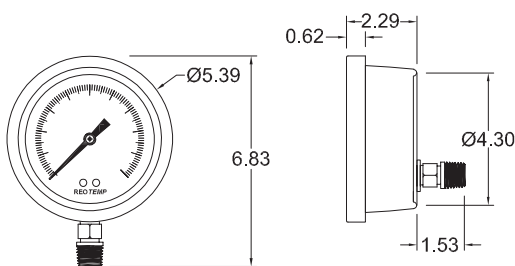
*dimensions in inches



PT45T

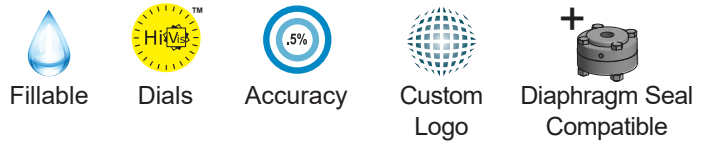


PT45T Mounting Flange



PT45T

*dimensions in inches



FEATURES / BENEFITS

- Solid Front/Blowout Back Safety Case
- All Stainless Steel Internal Parts
- Internal Overload and Underload Stops
- Field Fillable Case
- Micro-Adjustable Pointer with Floating Zero



SPECIFICATIONS

Construction Materials:

Non Wetted

Case: Reinforced Thermoplastic (Phenolic) or 316SS
Ring: Phenolic Turret Twist-Off or SS Twist-Off Bayonet
Dial: White Aluminum, Black Letters

Wetted

Tube: 316LSS
Socket: 316SS

Case-to-Socket

O-Ring

Lens

Tempered Safety Glass
Plastic
Laminated Safety Glass

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: ±0.5%, Grade 2A

(10k - 20k psi = 1% upscale, 3% downscale)

Fillable: Yes

Restrictor Screw: Yes, removable

Weight: Phenolic (Dry) = 2.5 lbs

Phenolic (Filled) = 3.5 lbs

SS (Dry) = 2 lbs

SS (Filled) = 3 lbs

Maximum Working Pressure:

Stable = 100%

Momentary = 130% of scale

4.5" INDUSTRIAL PROCESS GAUGE



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HOW TO ORDER: Choose options to build a part number. For example: **PT45P1A2P21-D-T-HV**

PT45	P	1	A	2	P21	-D	-T	-HV
DIAL SIZE	CASE TYPE	TUBE & SOCKET	MOUNT TYPE	CONNECTION	RANGE CODE	CASE FILL	LENS	ACCESSORIES
PT45 = 4.5"	P = Fiberglass Reinforced Thermo-plastic T = 316SS	1 = 316SS *3 = Monel	A = Bottom C = Lower Back E = Lower Back / Front Flange (316SS case ONLY)	2 = 1/2" NPT 4 = 1/4" NPT 5 = 1/4" Female High Pressure (9/16" - 18 UNF)	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 ■ ftH ₂ O ■ & more	-D = Dry -G = Glycerin -T = Dry, Teflon Coated Movement -W = Glycerin Water (65/35) -S = Silicone	-T = Tempered Safety Glass (std) -P = Plastic -S = Laminated Safety Glass	-HV = Hi-Vis™ Dial -C3 = 3 pt. Calibration Certificate -OX = Cleaned for O ₂ Service -TS = Stainless Steel Tag -MP = Max. Pointer -EC = Electrical Contacts -P6 = Pointer Stop at 6 O'clock -FM = Flush Mount Ring for Phenolic Case -NC = NACE Compliance Certificate

*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 PT45 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.

