

4.5" LOW PRESSURE CAPSULE GAUGE

REOTEMP's Series PC45 low pressure capsule gauges offer accurate and reliable measurements of gaseous media. Offered with stainless steel internals, they are designed to withstand corrosive media and ensure a long-lasting instrument.



PC45



Dials



Custom Logo



Diaphragm Seal
Compatible

FEATURES / BENEFITS

- Sensitive Diaphragm/Capsule Mechanism
- Safety Blowout Back
- Easy-Access Zero Reset on Dial



SPECIFICATIONS

Construction Materials:

Non Wetted

Case: Reinforced Thermoplastic, Phenolic

Ring: Phenolic, Twist-Off

Dial: Aluminum

Wetted

Capsule: 316L SS

Socket: 316SS

Case-to-Socket

O-ring

Vented Case

Lens

Tempered Safety Glass, Plastic, or Laminated Safety Glass

Temperature Limits:

Ambient

-40°F ————— 150°F

Process

-40°F ————— 200°F

Process Temperature Limits When Assembled with a Diaphragm Seal

-60°F ————— 350°F

Direct Mount

-100°F ————— 750°F

Remote Mount or Cooling Tower

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

Accuracy: 2-1.6-2% Full Scale

Fillable: No

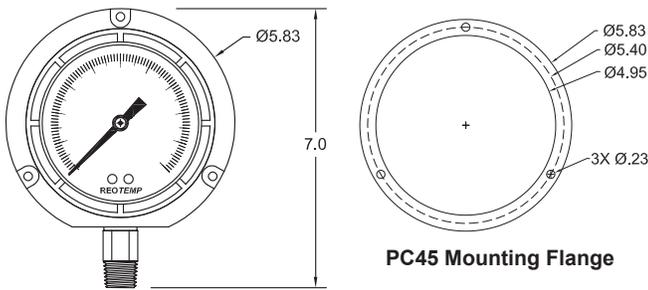
Restrictor Screw: Yes

Weight: 2.3 lbs

Maximum Working Pressure:

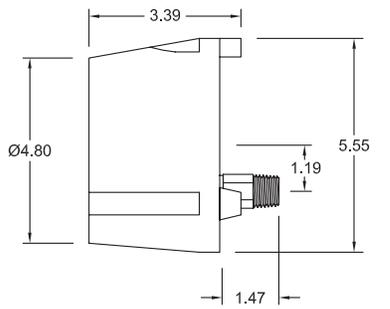
Stable = 100%

Momentary = 130% of scale



PC45 Mounting Flange

PC45 *dimensions in inches



PC45 *dimensions in inches

4.5" LOW PRESSURE CAPSULE GAUGE



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HOW TO ORDER: Choose options to build a part number. For example: **PC45P1A4P53-D-T-HV**

PC45	P	1	A	4	P53	-D	-T	-HV
DIAL SIZE	CASE TYPE	CAPSULE & SOCKET	MOUNT TYPE	CONNECTION	RANGE CODE	CASE FILL	LENS	ACCESSORIES
PC45 = 4.5"	P = Fiberglass Reinforced Thermoplastic	Wetted 1 = 316SS	A = Bottom *C = Lower Back	4 = 1/4" NPT 2 = 1/2" NPT	See Master Range Code Sheet on page 43 Common Ranges P50 = 0-10 in H ₂ O P51 = 0-15 in H ₂ O P52 = 0-30 in H ₂ O P53 = 0-60 in H ₂ O P54 = 0-100 in H ₂ O P55 = 0-160 in H ₂ O P56 = 0-200 in H ₂ O Available Ranges ■ 10" to 300" Water Column ■ Gauge Pressure, Vacuum, or Compound Standard Units ■ in H ₂ O Available Units ■ kPa ■ inHg ■ mbar ■ mmHg ■ psi ■ oz/in ² ■ mmH ₂ O & more	-D = Dry Case is not fillable.	-T = Tempered Safety Glass (std) -P = Plastic -S = Laminated Safety Glass	-HV = Hi-Vis™ Dial -C3 = 3pt. Calibration Certificate -TS = Stainless Steel Tag -FM = Flush Mount Ring for Panel Mounting -NC = NACE Compliance Certificate -CP = Positive Material Identification Certification -R5 = 1.5% Full Scale Accuracy (Not Available on Compound Ranges)

*Non-standard configuration

Diaphragm Seal Suitability Guide

Low pressure capsule gauges are very sensitive and require diaphragm seals with high fluid displacement. If a diaphragm seal is required to isolate the process fluid from the pressure gauge, the following seal model types are available for the Series PC.

Diaphragm Seal Model

High Displacement



Model	Total Gauge Span* (in H ₂ O)									
	10"	15"	20"	30"	40"	60"	100"	160"	200"	300"
W6	X	X	X	X	X	X	S	S	T	T
W7	X	X	X	S	S	T	T	T		
V5	X	S	S	T	T	T	T			
T6	X	X	X	X	X	S	S	S	S	S

*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.

T Assembly will function correctly given stable process temperature.

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

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