

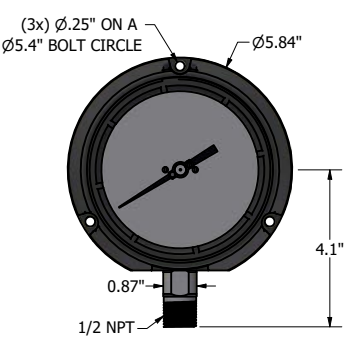
4.5" LOW PRESSURE CAPSULE GAUGE

PRESSURE GAUGES

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 precise measurement for years.



PC45A



PC45A



Dials



Custom Logo



Diaphragm Seal
Compatible

FEATURES / BENEFITS

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



SPECIFICATIONS

Accuracy	±2 - 1 - 2% of Span (Grade A)
Ambient Limits	-40°F/150°F
Process Limits	-40°F/200°F
Process Limits with Diaphragm Seal	-60°F/350°F (Direct Mount)* -110°F/750°F (Remote Mount or Cooling Tower)* *Exact limits depend on diaphragm seal and fill fluids.
Wetted Materials	Capsule: 316LSS Socket: 316SS
Lens	Tempered Safety Glass, Plastic or Laminated Safety Glass
Case	Impact Resistant, Fiberglass Reinforced PBT, Flame Retardant to UL94 V-0 Standards
O-Ring	EPDM
Fillable	No
Restrictor Screw	Yes
Maximum Working Pressure	Stable = 100% Momentary = 130% of Scale
Weight	2.3 lbs

4.5" LOW PRESSURE CAPSULE GAUGE

HOW TO ORDER: Choose options to build a part number. For example: PC45A1A4P53-D-T-HV

PC45	A	1	A	4	P53	-D	-T	-HV
DIAL SIZE	CASE TYPE	CAPSULE & SOCKET	MOUNT TYPE	CONNECTION	RANGE CODE	CASE FILL	LENS	OPTIONS
PC45 = 4.5"	A = Glass-fiber Thermoplastic (PBT)	1 = 316SS	A =  Bottom	1 = 1" NPT 2 = 1/2" NPT 3 = 3/4" NPT 4 = 1/4" NPT 6 = 3/8" NPT 0 = 1/2" Tube Fitting M = 1/4" Tube Fitting N = 3/8" Tube Fitting B = G1/2B C = G1/4B D = 1/4" BSPT E = 1/2" BSPT Y = 1/4" Male VCR Z = 1/4" Female VCR 7 = 1/4" SAE Male with 45° Flare S = 1/4" SAE Male with Nut and O-Ring Seal (O-Ring Boss)	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 -PM = Positive Material Identification Certification -R5 = 1.5% Full Scale Accuracy (Not Available on Compound Ranges)
For Additional Range Codes See Page 111								

*Non-standard configuration

Diaphragm Seal Suitability Guide

Low pressure capsule gauges are very sensitive and require diaphragm seals with high sensitivity and 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

Total Gauge Span* (in H₂O)

	10"	15"	20"	30"	40"	60"	100"	160"	200"	300"
W6	X	X	X	X	S	S	T	T		
W7	X	X	S	S	T	T				
V5	S	S	T	T						
T6	X	X	X	X	X	S	T	T		

*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 RANGES AND CODES

LOW PRESSURE RANGES (PC SERIES ONLY)

Low Pressure Ranges									
inH ₂ O		oz/in ²		inH ₂ O & oz/in ²		mbar		psi	
Code	Range	Code	Range	Code	Range	Code	Range	Code	Range
P50D	0-1.6 inH ₂ O *					M50D	0-4 mbar*		
P504	0-4*					M504	0-10*		
P506	0-6*					M506	0-16*		
P50	0-10	Z50	0-6 oz/in ²	Q50Z	0-10 inH ₂ O & 0-6 oz/in ²	M50	0-25		
P51	0-15	Z51	0-8			M51	0-40		
P49	0-20	Z49	0-10	Q49C	0-20 & 0-12				
P515	0-25	Z52E	0-15			M522	0-60		
P52	0-30			Q52N	0-30 & 0-18	M521	0-70	I52	0-1 psi
P525	0-40	Z52	0-20	Q525W	0-40 & 0-24	M525	0-100		
P53	0-60	Z535	0-35	Q53	0-60 & 0-35	M53F	0-150	I53	0-2**
P54	0-100	Z54	0-60	Q54B	0-100 & 0-60	M54	0-250	I54	0-3
P55	0-160					M55	0-400	I55	0-5
P56	0-200	Z56	0-100	Q56C	0-200 & 0-115	M56	0-500	I56	0-7
Vacuum Ranges									
P88	-10-0 inH ₂ O	Z88	-6-0 oz/in ²	Q88	-10/0 inH ₂ O & -6/0 oz/in ²				
P90	-30-0	Z90	-20-0	Q90	-30/0 & -18/0	M905	-100-0 mbar	I90	-1-0 psi
P91	-60-0	Z91	-30-0	Q91	-60/0 & -35/0	M94	-200-0	I91	-2-0
P92	-100-0	Z92	-60-0	Q92	-100/0 & -60/0	M95	-400-0		
Compound Ranges									
P7A	-5/0/5 inH ₂ O	Z7A	-3/0/3 oz/in ²			M71	-20/0/20 mbar		
P70	-10/0/10			Q70C	-10/0/10 inH ₂ O & -6/0/6 oz/in ²	M72E	-30/0/30		
P71	-15/0/15					M72	-40/0/40		
P72	-20/0/20	Z72	-10/0/10	Q72C	-20/0/20 & -12/0/12	M72A	-50/0/50	I73	-1-0-1 psi
P73	-30/0/30			Q73C	-30/0/30 & -18/0/18	M735	-100/0/100	I74	-2-0-2
P74	-60/0/60	Z745	-30/0/30					I55U	-3/0/3
P75	-100/0/100			Q75B	-100/0/100 & -60/0/60			P14C	-5/0/5

*available on 4" & 6" sizes only
 **short scaled range