

Service Intended

Suitable for measuring low pressure / vacuum in gaseous, non-aggressive dry media that does not attack copper alloy or stainless steel parts or will obstruct the pressure system. Typical applications will be in the medical, laboratory, vacuum and filter monitoring industry.

Case Details

Nominal Dia: 63, 80, 100, 160mm
Material: Stainless steel 304

Bezel

Sizes 63, 80 & 100mm Roll ring type - tamper proof.
Size 160mm Bayonet locking, twist type - removable.
Material: Stainless steel 304

Pressure Connections

Material: Type 3: Brass. Type 4: Stainless steel 316
Sizes: 63, 80mm nom. dia: 1/8" & 1/4" in BSP or NPT
Sizes: 100, 160mm nom. dia: 1/4", 3/8" & 1/2" in BSP or NPT (Position: See "Mounting Configurations".)

Mounting Flange

Material: Polished stainless steel 304
(Position: See "Mounting Configurations".)

Pressure Element - Capsule

Material: Type 3: Cu-alloy.
Type 4: Stainless steel 316.

Pressure Ranges

0 to 2.5...40 kPa pressure or vacuum
(see standard pressure ranges)

Geared Movement

Material: Clockwork brass or stainless steel.
Special feature: External zero adjustable from the front.

Pointer

Collet: Aluminium or brass Blade: Black aluminium

Dial

Material: Aluminium, white with black lettering.

Window

Plexiglass / polycarbonate.

Weather Protection

IP 54

Working Pressure

Steady: Full scale value
Fluctuating: 90% of full scale value
For pulsating pressure, the use of an inlet restrictor is recommended.

Accuracy Class

63mm & 80mm dia: Class 2.5
100mm & 160mm dia: Class 1.6

Operating Temperature

Ambient: -20 °C to +60 °C
Medium: +70 °C

Optional Extras

Calibration Certificate
Customized scale plates (customer logo, red line, etc)
Special Dials, other than standard (dual scale, bar, psi)
Colour Coding of dial
Blow out disc

PRESSURE MEASUREMENT

Capsule Gauge - Low Pressure

Type R3: Stainless steel case with brass capsule

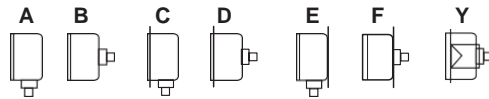
Type R4: Stainless steel case with stainless steel capsule

Data Sheet P CAP3-4



For dimensional drawing see technical section

MOUNTING CONFIGURATIONS



- A:** Bottom connection, no flange
- B:** Rear connection, no flange
- C:** Bottom connection, front flange
- D:** Rear connection, front flange
- E:** Bottom connection, rear flange
- F:** Rear connection, rear flange
- Y:** Rear con. narrow front ring (clamp mtg)

STANDARD PRESSURE RANGES

Ranges	Figure Interval	Minor Graduations	Ranges	Figure Interval	Minor Graduations
Pressure			Pressure		
0/2.5 kPa	0.5	0.05	0/25 mbar	5	0.5
0/4 kPa	1	0.1	0/40 mbar	10	1
0/6 kPa	1	0.1	0/60 mbar	10	1
0/10 kPa	2	0.2	0/100 mbar	20	2
0/16 kPa	2	0.2	0/160 mbar	20	2
0/25 kPa	5	0.5	0/250 mbar	50	5
0/40 kPa	10	1	0/400 mbar	100	10
Vacuum			Vacuum		
2.5/0 kPa	0.5	0.05	25/0 mbar	5	0.5
4/0 kPa	1	0.1	40/0 mbar	10	1
6/0 kPa	1	0.1	60/0 mbar	10	1
10/0 kPa	2	0.2	100/0 mbar	20	2
16/0 kPa	2	0.2	160/0 mbar	20	2
25/0 kPa	5	0.5	250/0 mbar	50	5

HOW TO ORDER USING OUR PART NUMBERS

Customized and other scales such as bar, psi, mmHg etc. are available on request.

R 3 A 100 D 1/2 B 10 kPa

Casing Type: _____

Gauge Type: _____

Configuration: _____

Dial Size: _____

Dry: _____

Connection Size: _____

Pressure Range: _____