

# DG010

## Piston type differential pressure gauge



### Product features:

- Magnetic piston principle used to measure pressure differentiation
- High static pressure
- Bottom, back or In-line connection
- Aluminium, brass or SS 316 body & Monel
- Ingress protection IP 66
- +/- 2% accuracy
- Optional switch output
- **Brannan** quality and accuracy

### Applications:

- Used to measure pressure drops
- Filtration systems
- Hydraulic systems
- Leak detection
- Water treatment
- Applications where marginal migration of the media from high pressure side to low pressure side is permitted

### Standard product specifications:

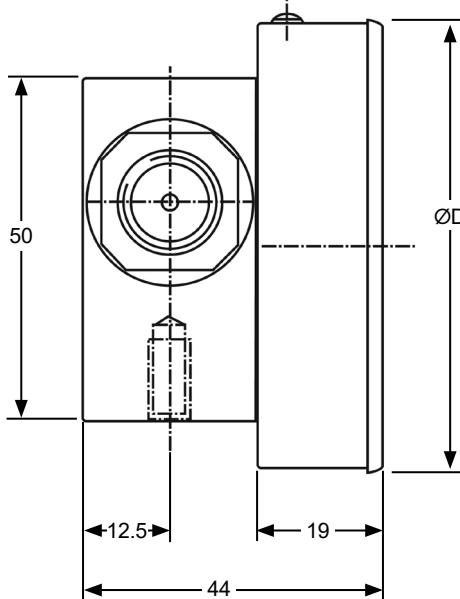
Migration of Media	DG010
Gauge construction	Marginal
Case	Stainless steel 304 with rubber ring (optional engineered plastic case)
Body material	Aluminium, brass, stainless steel 316 or Monel
Wetted parts	Body material, SS 302 spring, ceramic magnet, seals
Connection orientation	Bottom, back, or in-line (contact us for other variations)
Mounting	Direct (others on request)
Measuring principle	Magnetic coupling using piston
Pointer	Black aluminium
Seals	Buna-N (Viton available on request)
Window	Instrument glass, acrylic or safety glass
Dial	White aluminium
Ranges & parameters	
Dial diameters	63mm (2.5"), 90mm (3.5"), 100mm (4"), 115mm (4.5") and 150mm (6")
Ranges	0 to 0.15 bar through to 0 to 70 bar
Thread size	1/4" NPT/BSP F (others available through adaptor)
Accuracy class	+/- 2% FS
Filling	Dry (glycerine/silicone filling optional)
Max static pressure	Aluminium & brass: 200 bar, SS 316 & Monel: 400 bar
Operating temperature	Ambient: 0 to 80°C / Medium temperature: 0 to 80°C
Protection	IP 66
Optional extras	
Calibration	Certification, certificate traceable to recognised national standard or statement of conformity

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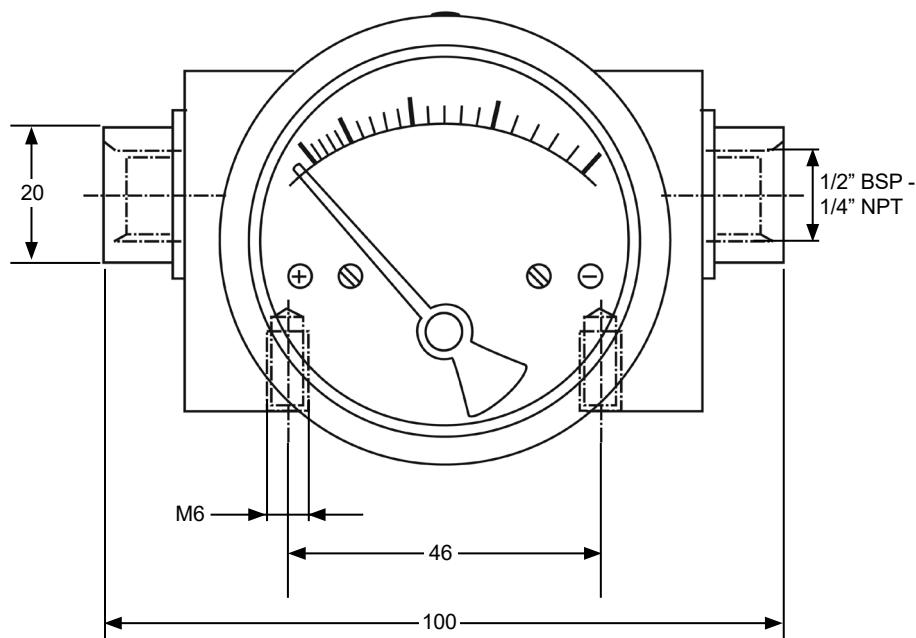
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### Product dimensions:



Dial Ø	Case Ø (ØD)
63mm / 2.5"	66.0mm
90mm / 3.5"	83.0mm
100mm / 4.0"	104.3mm
115mm / 4.5"	119.7mm
150mm / 6.0"	154.3mm



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### Product numbers:

All DG010 dials are ordered to specific customer specifications. Please use below matrix to create your unique ordering product reference, using the values in bold.

Make	Model	Dial diameter	Ranges	Units	Process connection	Connection orientation	Body material	Extras	
Brannan (BRN)	DG010 (DG10)	63mm (63)	0 to 0.15 bar (0+0.15)	Bar (B)	1/4" BSP (F) (F3)	Bottom (BO)	SS 316 (316)	Viton seals (VIT)	
		90mm (90)	0 to 2 Psi (0+2)	Psi (PSI)	1/4" NPT (F) (F4)	Back (BK)	Brass (BRS)	Plastic case* (PLA)	
		100mm (100)	Through to	mBar (M)	1/2" BSP (F)* (F7)	In-line (IL)	Aluminium (AL)	Glycerine filling (G)	
		115mm (115)	0 to 70 bar (0+70)	kPa (K)	1/2" NPT (F)* (F8)	In-line & bottom (ILBO)	Monel (MON)	Silicone filling (S)	
		150mm (150)	0 to 1015 Psi (0+1015)	in H <sub>2</sub> O (W)		In-line & back (ILBK)		Max pointer (MaxP)	
				Kg/cm <sup>2</sup> (KG)				Front flange/ panel mount (FF)	
								2" pipe mounting kit (PMO)	
								Surface mounting kit (SMO)	
								Centre zero (CZ)	
								With switch** (SWI)	
								* 63, 115 & 150mm only	
								** See below table to select switch specifications	

### Optional switch specifications:

1A	One SPST with a DIN plug
1B	One SPST with a terminal strip
1C	One SPST with built in relay
2A	Two SPSTs with a DIN plug
2B	Two SPSTs with a terminal strip
2C	Two SPSTs with built in relay

SPST Specifications (AC / DC max)			
1 (standard)	2	3	4
10 VA	40 VA	100 VA	60 VA
100 V	230 V	300 V	240V
0.5 Amp	1 Amp	1 Amp	3 Amp
Adjustable*	Adjustable*	Adjustable*	Adjustable*

1D	One SPDT with a DIN plug
1E	One SPDT with a terminal strip
2D	Two SPDTs with a DIN plug
2E	Two SPDTs with a terminal strip

SPDT Specifications (AC / DC max)			
1 (standard)	2	3	4
3 VA	5 VA	5 VA	60 VA
30 V	125 V	175 V	400 V
0.3 Amp	0.25 Amp	0.25 Amp	1 Amp
Adjustable*	Adjustable*	Adjustable*	Factory Set

\*Adjustable from 30% to 100% of range.

Order example: 2A1 is Two SPSTs with DIN plug, with switch specifications 10VA, 100V, 0.5Amp

### Order example:

Make	Model	Dial diameter	Ranges	Units	Process connection	Connection orientation	Body material	Extras
BRN	DG10	100	0+15	P	F4	BO	316	S

**Product reference:** BRNDG10/100/0+15/P/F4/BO/316/S

NB. When more than one extra is required, separate each code with a hyphen when building your product reference.