

## Convuluted diaphragm type differential pressure gauge



### Product features:

- Magnetic coupling with convuluted diaphragm used to measure differential pressure
- No migration of the process media – zero leakage from high to low port
- Aluminium, brass, SS 316 or Monel body
- Ingress protection IP 66
- +/- 2% accuracy
- Optional switch output
- **Brannan** quality and accuracy

### Applications:

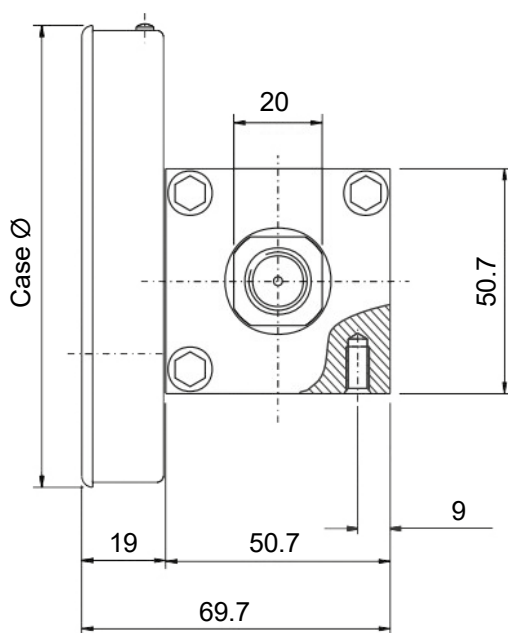
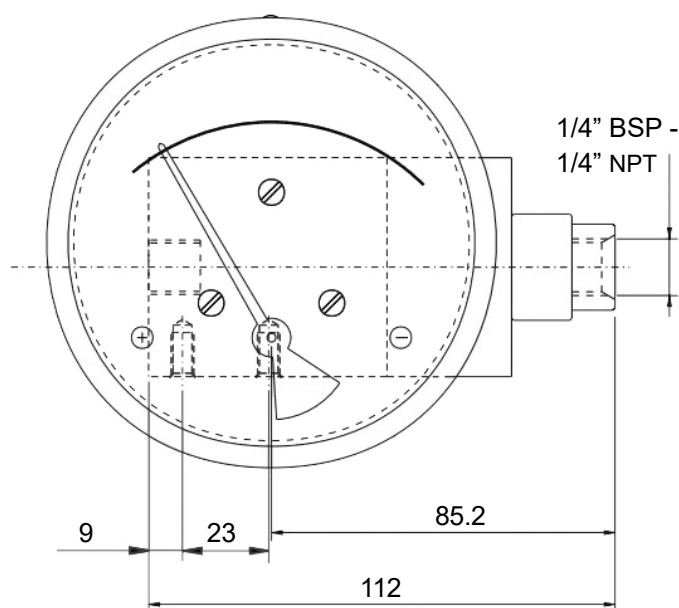
- Applications where no migration of the media from high pressure side to low pressure side is permitted
- Leak detection
- Filtration systems

### Standard product specifications:

| Migration of Media     |                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------|
|                        |                                                                                                 |
| Gauge construction     |                                                                                                 |
| Case                   | Stainless steel 304 with rubber ring (optional engineered plastic case)                         |
| Body material          | Aluminium, brass, stainless steel 316 or Monel                                                  |
| Wetted parts           | Diaphragm, body material, SS 302 spring & ceramic magnet                                        |
| Connection orientation | Bottom, back, or in-line (contact us for other variations)                                      |
| Mounting               | Direct (others on request)                                                                      |
| Measuring principle    | Magnetic coupling with convuluted diaphragm                                                     |
| Pointer                | Black aluminium                                                                                 |
| Diaphragm              | 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 0.075 bar through to 0 to 4 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    | 100 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 |

## Convolute diaphragm type differential pressure gauge

Product dimensions (in mms)



| Dial Ø       | Case Ø  |
|--------------|---------|
| 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 |

## Convuluted diaphragm type differential pressure gauge

### Product numbers:

All DG012 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<br>(BRN) | DG012<br>(DG12) | 63mm<br>(63)   | 0 to 0.075 bar<br>(0+0.075)                                                | Bar<br>(B)                      | 1/4" BSP (F)<br>(F3)  | Bottom<br>(BO)             | SS 316<br>(316)   | Plastic case* (PLA)           |
|                  |                 | 90mm<br>(90)   | 0 to 1 Psi<br>(0+1)                                                        | Psi<br>(PSI)                    | 1/4" NPT (F)<br>(F4)  | Back<br>(BK)               | Brass<br>(BRS)    | Viton diaphragm (VIT)         |
|                  |                 | 100mm<br>(100) | Through to                                                                 | mBar<br>(M)                     | 1/2" BSP (F)*<br>(F7) | In-line<br>(IL)            | Aluminium<br>(AL) | Glycerine filling (G)         |
|                  |                 | 115mm<br>(115) | 0 to 4 bar<br>(0+4)                                                        | kPa<br>(K)                      | 1/2" NPT (F)*<br>(F8) | In-line & bottom<br>(ILBO) | Monel<br>(MON)    | Silicone filling (S)          |
|                  |                 | 150mm<br>(150) | 0 to 60 Psi<br>(0+60)                                                      | in H <sub>2</sub> O<br>(W)      |                       | In-line & back<br>(ILBK)   |                   | Maximum pointer (MaxP)        |
|                  |                 |                | Other units available on request                                           |                                 |                       |                            |                   | Front flange/panel mount (FF) |
|                  |                 |                | For gauges with zero centre please specify the negative and positive range |                                 |                       |                            |                   | 2" pipe mounting kit (PMO)    |
|                  |                 |                |                                                                            | Dual scale available on request | * through adaptor     | Contact for other options  |                   | Surface mounting kit (SMO)    |
|                  |                 |                |                                                                            |                                 |                       |                            |                   | Centre zero (CZ)              |
|                  |                 |                |                                                                            |                                 |                       |                            |                   | With switch** (SWI)           |

\* 63mm, 115mm & 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 |

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| 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 |

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| 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  | DG12  | 100           | 0+0.075 | B     | F4                 | BO                     | 316           | G      |

**Product reference:** BRNDG12/100/0+0.075/B/F4/BO/316/G

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