

# PG010

## General purpose pressure gauge



### Product features:

- Low price commercial pressure gauge
- Wide choice of ranges and dial diameters
- For dry indoor installations
- Wide range of associated accessories available
- UKAS calibration available
- **Brannan** quality and accuracy

### Applications:

- Heating, ventilation, air-conditioning
- Plumbing
- Compressors
- Air filters
- Pneumatics

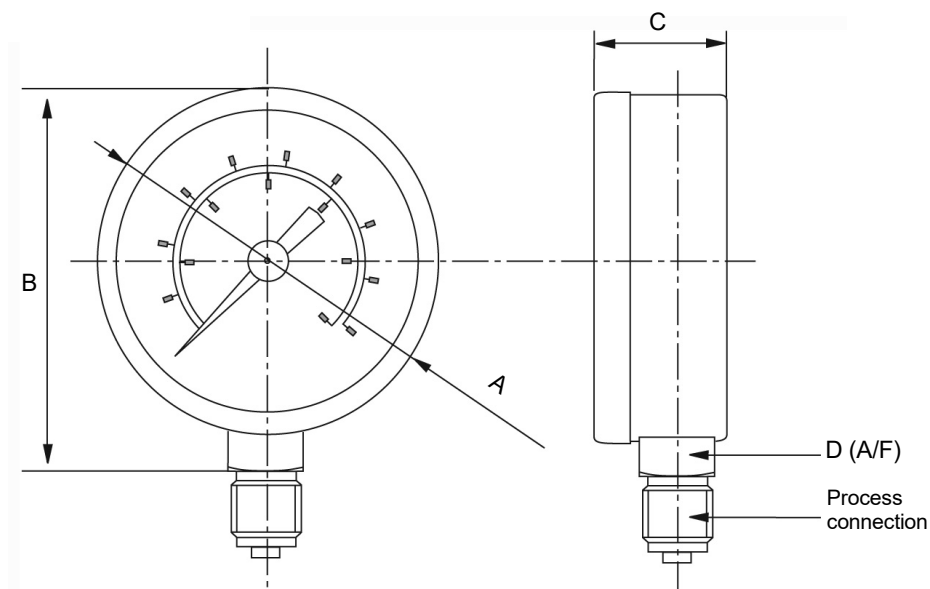
### Standard product specifications:

| PG010                  |                                                                                                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards & categories |                                                                                                                                                                     |
| Design                 | BS EN 837 / ASME B40.100                                                                                                                                            |
| Safety category        | 100mm: S1 (blow-out device gauge). Others: 0 (no blow-out device)                                                                                                   |
| Gauge construction     |                                                                                                                                                                     |
| Case                   | Black steel                                                                                                                                                         |
| Connection orientation | Bottom, centre back & lower back                                                                                                                                    |
| Connection material    | Brass                                                                                                                                                               |
| Bezel                  | Black steel (80mm & 100mm only)                                                                                                                                     |
| Pointer                | Black aluminium                                                                                                                                                     |
| Measuring principle    | Bourdon tube Cu-Alloy                                                                                                                                               |
| Movement               | Cu-Alloy                                                                                                                                                            |
| Window                 | 40mm, 50mm & 63mm: polycarbonate, snap fit / 80mm & 100mm: Glass                                                                                                    |
| Ranges & parameters    |                                                                                                                                                                     |
| Dial diameters         | 40mm (1.5"), 50mm (2"), 63mm (2.5"), 80mm (3") & 100mm (4")                                                                                                         |
| Ranges                 | -1 to 9 bar & -15 to 130 psi through to 0 to 1000 bar & 0 to 14500 psi                                                                                              |
| Thread size            | 1/8", 1/4", 3/8" & 1/2" BSP/NPT/BSPT (others available on request)                                                                                                  |
| Accuracy class         | 1.6% (except 40mm: 2.5%)                                                                                                                                            |
| Filling                | Dry                                                                                                                                                                 |
| Working pressure       | Steady: 75% full scale range, fluctuating: 60% full scale range, short time: full scale range                                                                       |
| Operating temperature  | Ambient: -20 to +60°C, medium: -20 to +60°C                                                                                                                         |
| Storage temperature    | -40 to +60°C                                                                                                                                                        |
| Protection             | IP 43                                                                                                                                                               |
| Temperature effect     | When temperature of the pressure element deviates from reference temperature of 20°C the maximum additional error is +/-0.4 per 10°C of the span rising and falling |
| Optional extras        |                                                                                                                                                                     |
| Calibration            | UKAS certification, certificate traceable to recognised national standard or statement of conformity                                                                |
| Accessories            | Syphon, needle valve, gauge cock, snubber                                                                                                                           |

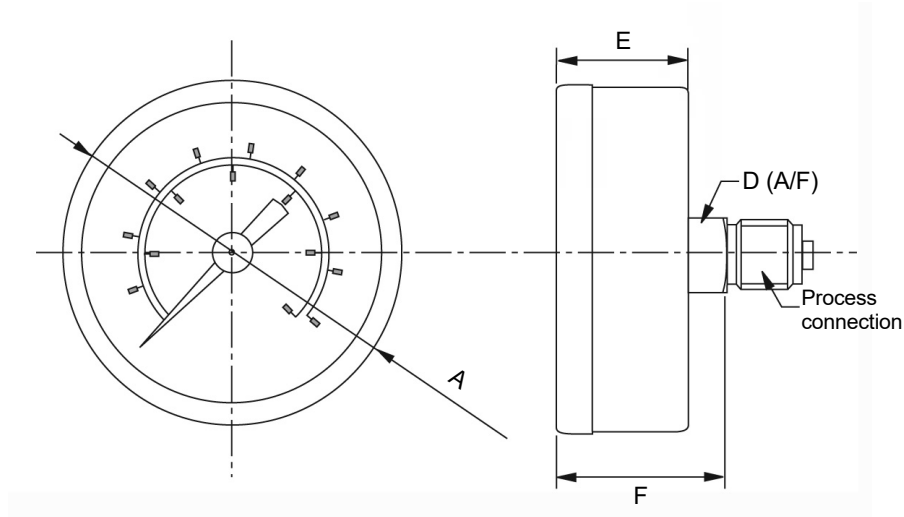
## General purpose pressure gauge

### Product dimensions:

#### Bottom entry



#### Back entry



| Dial diameter | ØA      | B       | C      | D (A/F) | E      | F      |
|---------------|---------|---------|--------|---------|--------|--------|
| 40mm (1.5")   | 40.0mm  | 46.0mm  | 24.0mm | 11mm    | 26.0mm | 32.0mm |
| 50mm (2.0")   | 50.0mm  | 57.0mm  | 28.0mm | 14mm    | 28.0mm | 34.0mm |
| 63mm (2.5")   | 63.0mm  | 70.0mm  | 29.0mm | 14mm    | 29.0mm | 37.0mm |
| 80mm (3.0")   | 81.5mm  | 91.0mm  | 33.0mm | 14mm    | 33.0mm | 41.0mm |
| 100mm (4.0")  | 100.4mm | 110.0mm | 36.5mm | 17mm    | 36.5mm | 44.5mm |

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### Approx weights:

Supplied in individual box with instruction sheet.

| Dial diameter | Orientation | Net weight | Box weight | Total weight |
|---------------|-------------|------------|------------|--------------|
| 40mm (1.5")   | Back        | 50g        | 8g         | 58g          |
| 40mm (1.5")   | Bottom      | 68g        | 6g         | 74g          |
| 50mm (2.0")   | Back        | 89g        | 11g        | 100g         |
| 50mm (2.0")   | Bottom      | 80g        | 8g         | 88g          |
| 63mm (2.5")   | Back        | 118g       | 14g        | 132g         |
| 63mm (2.5")   | Bottom      | 113g       | 10g        | 123g         |
| 80mm (3.0")   | Back        | TBC        | TBC        | TBC          |
| 80mm (3.0")   | Bottom      | 168g       | 13g        | 181g         |
| 100mm (4.0")  | Back        | TBC        | TBC        | TBC          |
| 100mm (4.0")  | Bottom      | 305g       | 26g        | 331g         |

### Product numbers:

The following products are usually kept in stock at Brannan and can therefore be ordered on the below numbers. Other PG010 dials are ordered to specific customer specifications. Please use below matrix overleaf to create your unique ordering product reference.

### PG010 pressure gauges (bar outer scale, psi inner scale)

| Range<br>bar &<br>PSI | Ø40mm (1.5") |          | Ø50mm (2.0") |          | Ø63mm (2.5") |          |
|-----------------------|--------------|----------|--------------|----------|--------------|----------|
|                       | Connection   |          |              |          |              |          |
|                       | 1/8" BSP     |          | 1/4" BSP     |          | 1/4" BSP     |          |
|                       | Bottom       | Back     | Bottom       | Back     | Bottom       | Back     |
| 0 to 1                | -            | -        | -            | -        | -            | 34/441/0 |
| 0 to 1.6              | -            | -        | 34/122/0     | 34/142/0 | -            | 34/442/0 |
| 0 to 2.5              | 34/023/0     | -        | 34/123/0     | 34/143/0 | -            | 34/443/0 |
| 0 to 4                | 34/024/0     | 34/044/0 | 34/124/0     | 34/144/0 | 34/424/0     | 34/444/0 |
| 0 to 6                | 34/025/0     | 34/045/0 | 34/125/0     | 34/145/0 | 34/425/0     | 34/445/0 |
| 0 to 10               | 34/026/0     | 34/046/0 | 34/126/0     | 34/146/0 | 34/426/0     | 34/446/0 |
| 0 to 16               | 34/027/0     | 34/047/0 | 34/127/0     | 34/147/0 | 34/427/0     | 34/447/0 |
| 0 to 25               | 34/028/0     | 34/048/0 | 34/128/0     | 34/148/0 | 34/428/0     | 34/448/0 |
| 0 to 40               | 34/029/0     | 34/049/0 | 34/129/0     | 34/149/0 | 34/429/0     | 34/449/0 |
| 0 to 60               | -            | -        | -            | -        | -            | 34/480/0 |
| 0 to 100              | -            | -        | -            | -        | 34/461/0     | -        |
| 0 to 160              | -            | -        | -            | -        | 34/462/0     | 34/482/0 |
| 0 to 250              | -            | -        | -            | -        | 34/463/0     | 34/483/0 |
| 0 to 400              | -            | -        | -            | -        | 34/464/0     | 34/484/0 |
| -1 to 0               | -            | -        | -            | -        | -            | 34/486/0 |
| -1 to 3               | -            | -        | -            | -        | -            | 34/489/0 |
| -1 to 5               | -            | -        | -            | -        | 34/468/0     | 34/488/0 |
| -1 to 9               | -            | -        | -            | -        | 34/467/0     | 34/487/0 |

### Calibration product numbers:

| Calibration                        | No of points | Product number |
|------------------------------------|--------------|----------------|
| UKAS                               | 5pt          | 49/075/0       |
| Traceable to<br>National Standards | 5pt          | 49/060/0       |

Other calibration types available on request

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Other PG010 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                                                 | Connection size                                                                                  | Connection orientation                 | Extras                                                                                                                                           |
|------------------|-----------------|------------------------------|---------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Brannan<br>(BRN) | PG010<br>(PG10) | 40mm (1.5")<br><b>(40)</b>   | -1 to 9 bar<br><b>(-1+9)</b>          | Bar only (black)(B)                                   | 1/8" BSP <sub>1</sub> <b>(1)</b>                                                                 | Bottom<br><b>(BO)</b>                  | Front flange<br><b>(FF)</b>                                                                                                                      |
|                  |                 | 50mm (2.0")<br><b>(50)</b>   | -30 to 130 Hg/Psi<br><b>(-30+130)</b> | Psi only (black)<br><b>(P)</b>                        | 1/8" NPT <sub>1</sub> <b>(2)</b>                                                                 | Centre back<br><b>(CB)</b>             | Back flange<br><b>(BF)</b>                                                                                                                       |
|                  |                 | 63mm (2.5")<br><b>(63)</b>   | through to                            | Bar outer (black) /<br>psi inner (red)<br><b>(BP)</b> | 1/4" BSP <b>(3)</b>                                                                              | Lower back <sub>1</sub><br><b>(LB)</b> |                                                                                                                                                  |
|                  |                 | 80mm (3.0")<br><b>(80)</b>   | 0 to 1000 bar<br><b>(0+1000)</b>      | Psi outer (red) /<br>bar inner (black)<br><b>(PB)</b> | 1/4" NPT <b>(4)</b>                                                                              |                                        |                                                                                                                                                  |
|                  |                 | 100mm (4.0")<br><b>(100)</b> | 0 to 14500 Psi<br><b>(0+14500)</b>    | kPa outer (black) /<br>Psi inner (red)<br><b>(KP)</b> | 3/8" BSP <sub>2</sub> <b>(5)</b>                                                                 |                                        |                                                                                                                                                  |
|                  |                 |                              |                                       | Psi outer (red) /<br>kPa inner (black)<br><b>(PK)</b> | 3/8" NPT <sub>2</sub> <b>(6)</b>                                                                 |                                        |                                                                                                                                                  |
|                  |                 |                              |                                       |                                                       | 1/2" BSP <sub>3</sub> <b>(7)</b>                                                                 |                                        |                                                                                                                                                  |
|                  |                 |                              |                                       |                                                       | 1/2" NPT <sub>3</sub> <b>(8)</b>                                                                 |                                        |                                                                                                                                                  |
|                  |                 |                              |                                       |                                                       | 1/8" BSPT <sub>1</sub> <b>(9)</b>                                                                |                                        |                                                                                                                                                  |
|                  |                 |                              |                                       |                                                       | 1/4" BSPT <b>(10)</b>                                                                            |                                        |                                                                                                                                                  |
|                  |                 |                              |                                       |                                                       | 3/8" BSPT <sub>2</sub> <b>(11)</b>                                                               |                                        |                                                                                                                                                  |
|                  |                 |                              |                                       |                                                       | 1/2" BSPT <sub>3</sub> <b>(12)</b>                                                               |                                        |                                                                                                                                                  |
|                  |                 |                              |                                       |                                                       | 7/16" UNF <b>(13)</b>                                                                            |                                        |                                                                                                                                                  |
|                  |                 |                              |                                       |                                                       | 1. Not 80mm or 100mm<br>2. 80mm & 100mm only<br>3. 100mm only<br>NB. others available on request |                                        |                                                                                                                                                  |
|                  |                 |                              |                                       |                                                       |                                                                                                  | 1. 100mm only                          |                                                                                                                                                  |
|                  |                 |                              |                                       |                                                       |                                                                                                  |                                        | NB. Flange for 100mm only.<br>When more than one extra is required, please separate each code with a hyphen when building your product reference |

### Order example:

| Make | Model | Dial diameter | Ranges | Units | Connection size | Connection orientation | Extras |
|------|-------|---------------|--------|-------|-----------------|------------------------|--------|
| BRN  | PG10  | 100           | 0+10   | B     | 4               | BO                     |        |

Product reference: BRNPG10/100/0+10/B/4/BO

### Product accessories:

Please see accessories section of this catalogue for associated items for use with these gauges.

- Syphons
- Gauge cocks
- Adaptors
- Snubbers



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