PG030

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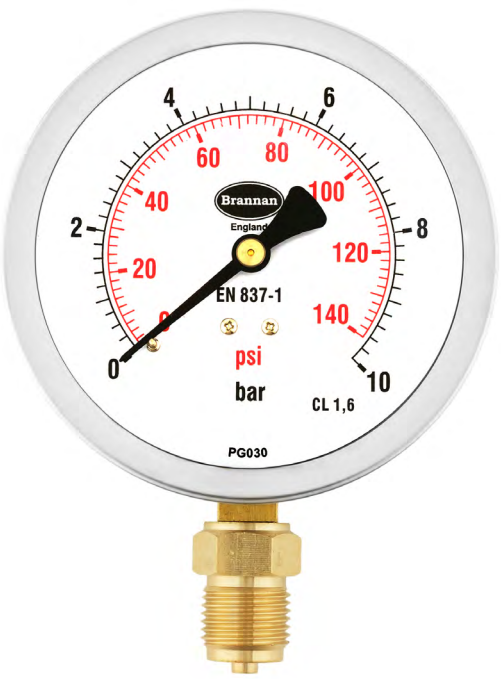
General industrial stainless steel fillable pressure gauge



Product features:

- Water and corrosion resistant, stainless steel case and brass connection
- 1.0% or 1.6% accuracy
- Available with micro adjustable pointer
- Glycerine fillable
- Front or back flange available for panel mounting
- Wide choice of pressure ranges and dial diameters
- Wide range of associated accessories
- **Brannan** quality and accuracy

Applications:

- Heating, ventilation, air-conditioning
- Outdoor installations
- High humidity installations
- Pneumatics
- Hydraulics
- Food and beverage industry
- Pulp and paper industry
- Machine and apparatus construction
- Pumps, compressors, hydraulic presses

Standard product specifications:

	PG030 - Accuracy class: 1.6%	PG030 - Accuracy class: 1.0%
Standards & categories		
Design	BS EN 837 / ASME B40.100	BS EN 837 / ASME B40.100
Safety category	100mm: S1 (blow-out device gauge). Others: 0 (no blow-out device)	S1 (blow-out device gauge)
Gauge construction		
Case	Stainless steel 304	Stainless steel 304
Connection orientation	Bottom & centre back, 100mm - bottom & lower back	Bottom & lower back
Connection material	Brass	Brass
Bezel	Stainless steel 304 crimped	Stainless steel 304 bayonet bezel
Pointer	Black aluminium	Black aluminium micro adjustable pointer
Measuring principle	Bourdon tube phosphor bronze	Bourdon tube phosphor bronze
Movement	Cu-Alloy	Cu-Alloy
Window	Polycarbonate	Tempered glass
Ranges & parameters		
Dial diameters	40mm (1.5”), 50mm (2”), 63mm (2.5”), 80mm (3”) & 100mm (4”)	100mm (4”), 115mm (4.5”) & 150mm (6”)
Ranges	-1 to 9 bar & -15 to 130 psi through to 0 to 1000 bar & 0 to 14500 psi	-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	1/2” BSP/NPT
Accuracy class	1.6% (except 40mm: 2.5%)	1.0%
Filling	Dry or glycerine filled	Dry or glycerine filled
Working pressure	Steady: 75% full scale range, fluctuating: 60% full scale range, short time: full scale range	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	Ambient: -20 to +60°C, medium: -20 to +60°C
Storage temperature	-40 to +60°C	-40 to +60°C
Protection	IP 65	IP 65
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	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	UKAS certification, certificate traceable to recognised national standard or statement of conformity
Accessories	Syphon, needle valve, gauge cock, snubber	Syphon, needle valve, gauge cock, snubber

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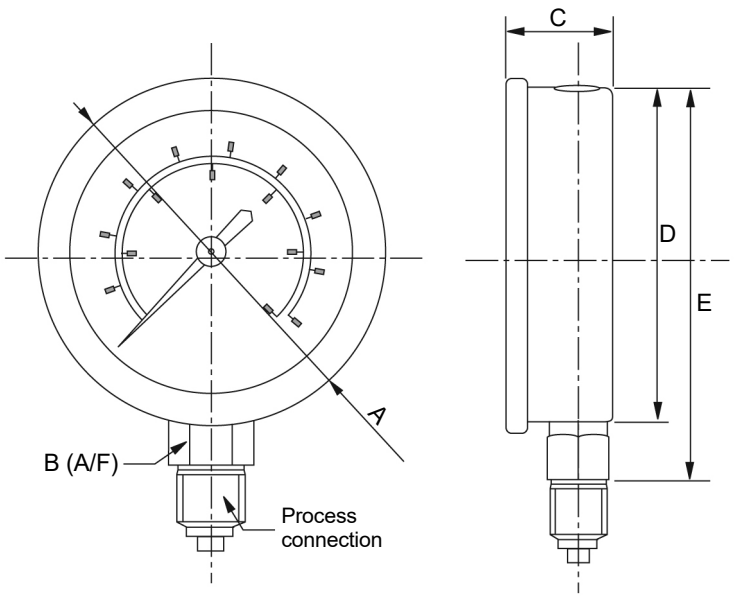
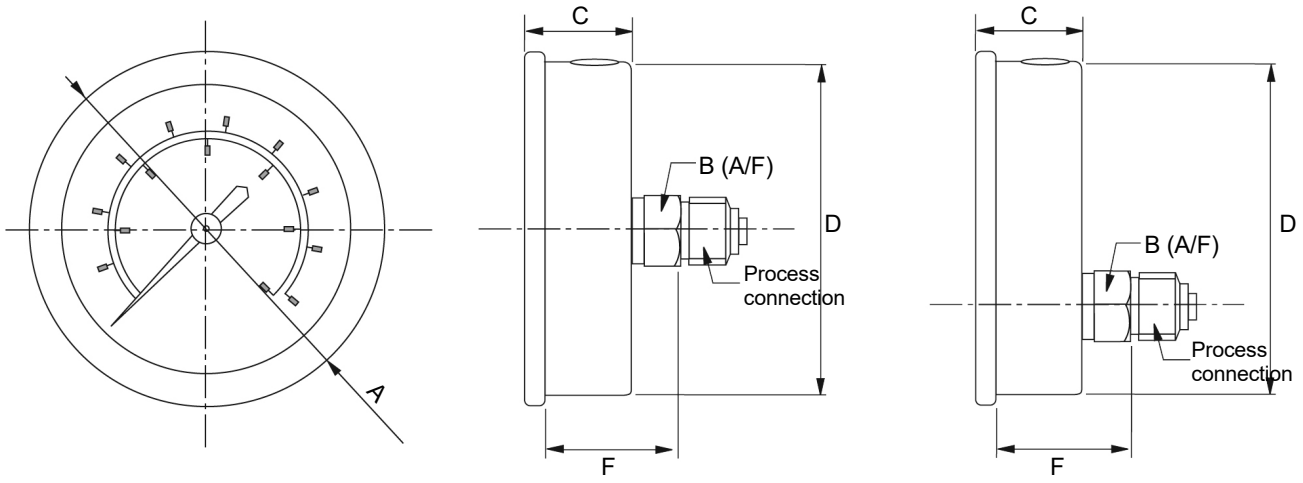
1.6% accuracy class dimensions:

Bottom entry



Back entry



Dial diameter	ØA	B (A/F)	C	ØD	E	F
40mm (1.5”)	46.7mm	11mm	24.8mm	40.0mm	48.0mm	30.0mm
50mm (2.0”)	58.0mm	14mm	29.0mm	52.0mm	62.0mm	34.5mm
63mm (2.5”)	68.0mm	14mm	29.0mm	61.0mm	72.0mm	34.5mm
80mm (3.0”)	87.0mm	17mm	31.0mm	80.0mm	93.0mm	63.5mm
100mm (4.0”)	110.0mm	22mm	34.0mm	100.0mm	122.0mm	39.5mm

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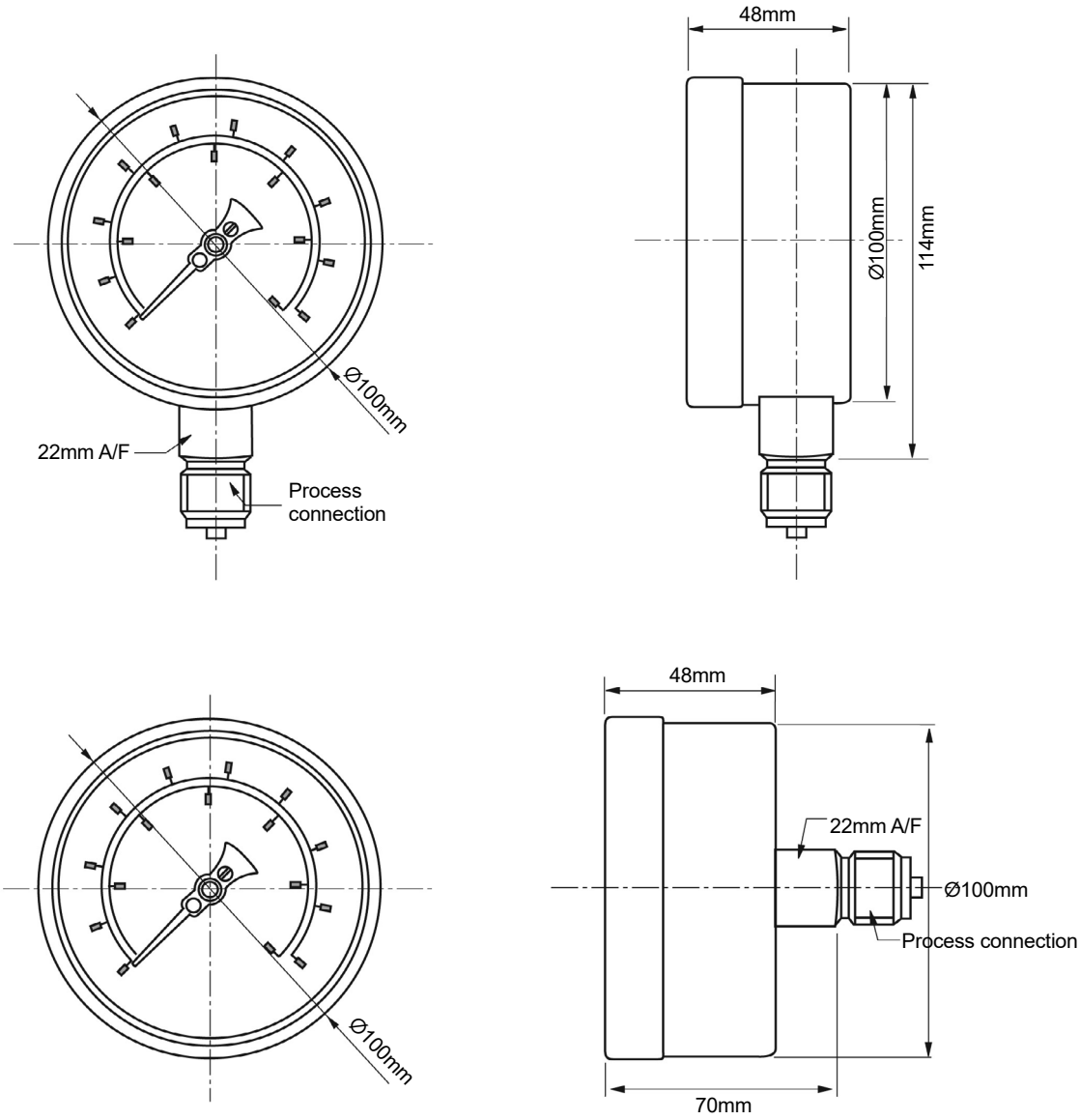
Ø100mm (4”) 1.0% accuracy class dimensions:



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1.6% accuracy class approx weights: (dry gauges)

Dial diameter	Orientation	Box dimensions	Net weight	Box weight	Gross weight
40mm (1.5”)	Bottom	75 x 60 x 32mm	50.0g	11.0g	61.0g
40mm (1.5”)	Back	TBC	TBC	TBC	TBC
50mm (2.0”)	Bottom	76 x 64 x 33mm	88.5g	11.5g	102.0g
50mm (2.0”)	Back	60 x 62 x 57mm	84.5g	13.5g	98.0g
63mm (2.5”)	Bottom	87 x 70 x 35mm	109.5g	14.5g	126.0g
63mm (2.5”)	Back	62 x 71 x 71mm	105.5g	17.5g	125.0g
80mm (3.0”)	Bottom	105 x 88 x 36mm	189.5g	12.5g	202.5g
80mm (3.0”)	Back	TBC	TBC	TBC	TBC
100mm (4.0”)	Bottom	131 x 118 x 40mm	366.0g	30.0g	358.0g
100mm (4.0”)	Back	114 x 114 x 82mm	288.0g	40.0g	330.5g

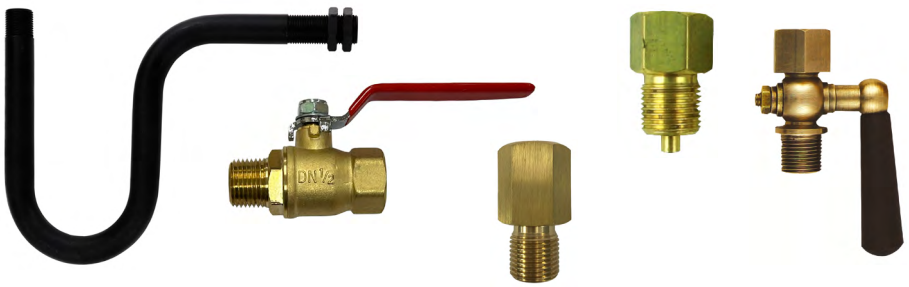
1.0% accuracy class approx weights: (dry gauges)

Dial diameter	Orientation	Box dimensions	Net weight	Box weight	Gross weight
100mm (4.0”)	Bottom	156 x 116 x 56mm	510.5g	38.5g	551.5g
115mm (4.5”)	Bottom	150 x 128 x 50mm	610.5g	30.0g	640.5g
150mm (6.0”)	Bottom	TBC	TBC	TBC	TBC

Filled gauges:
Ø40mm (1.5”): add approx 20g
Ø50mm (2.0”): add approx 40g
Ø63mm (2.5”): add approx 90g
Ø80mm (3.0”): add approx 150g
Ø100mm (4.0”): add approx 250g
Ø115mm (4.5”): add approx 447.5g

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

- Syphons
- Adaptors
- Gauge cocks
- Ball valves
- Snubbers



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Product numbers:

The following PG030 pressure gauges are usually kept in stock at Brannan and can therefore be ordered on the below numbers. Other PG030 dials are ordered to specific customer specifications. Please use matrix overleaf to create your unique ordering product reference.

The following product numbers are bar outer scale - black, psi inner scale - red, Ø50mm, Ø63mm and Ø100mm.
These products are dry gauges. For glycerine filled, please change the last digit (0) of the product code to “5”.
So 37/204/0 with glycerine filling becomes 37/204/5.

Ø50mm (2”) dial pressure gauges:

Range bar & psi	Bottom connection	
	1/4” BSP	1/4” NPT
0 to 4	37/204/0	37/224/0
0 to 6	37/205/0	37/225/0
0 to 10	37/206/0	37/226/0
0 to 16	37/207/0	37/227/0
0 to 25	37/208/0	37/228/0
0 to 40	37/209/0	-

Ø63mm (2.5”) dial pressure gauges:

Range bar & psi	Bottom connection		Back connection	
	1/4” BSP	1/4” NPT	1/4” BSP	1/4” NPT
0 to 1	37/501/0	-	37/541/0	-
0 to 1.6	37/502/0	-	-	-
0 to 2.5	37/503/0	-	-	-
0 to 4	37/504/0	37/524/0	37/544/0	37/564/0
0 to 6	37/505/0	37/525/0	37/545/0	37/565/0
0 to 10	37/506/0	37/526/0	37/546/0	37/566/0
0 to 16	37/507/0	37/527/0	37/547/0	37/567/0
0 to 25	37/508/0	37/528/0	37/548/0	37/568/0
0 to 40	37/509/0	37/529/0	37/549/0	-
0 to 60	37/510/0	37/530/0	-	-
0 to 100	37/511/0	-	37/551/0	-
0 to 160	-	-	37/552/0	-
0 to 250	37/513/0	-	-	-
0 to 400	37/514/0	-	-	-
0 to 600	37/515/0	-	-	-
-1 to 0	37/516/0	-	-	-
-1 to 3	37/517/0	-	-	-
-1 to 5	37/518/0	-	37/558/0	-
-1 to 9	37/519/0	-	-	-

Ø100mm (4”) dial pressure gauges - 1.6% accuracy:

Range bar & psi	Bottom connection		Back connection	
	1/2” BSP	1/2” NPT	1/2” BSP	1/2” NPT
0 to 1	37/801/0	37/821/0	-	-
0 to 1.6	37/802/0	37/822/0	-	-
0 to 2.5	37/803/0	37/823/0	-	-
0 to 4	37/804/0	37/824/0	37/844/0	37/864/0
0 to 6	37/805/0	37/825/0	37/845/0	37/865/0
0 to 10	37/806/0	37/826/0	37/846/0	37/866/0
0 to 16	37/807/0	37/827/0	37/847/0	37/867/0
0 to 25	37/808/0	37/828/0	37/848/0	37/868/0
0 to 40	37/809/0	37/829/0	37/849/0	37/869/0
0 to 60	37/810/0	37/830/0	37/850/0	37/870/0
0 to 100	37/811/0	37/831/0	37/851/0	37/871/0
0 to 160	37/812/0	37/832/0	-	-
0 to 250	37/813/0	37/833/0	37/853/0	-
0 to 400	37/814/0	37/834/0	37/854/0	-
0 to 600	37/815/0	37/835/0	37/855/0	-
-1 to 0	37/816/0	37/836/0	37/856/0	-
-1 to 1.5	-	-	37/860/0	-
-1 to 3	37/817/0	37/837/0	37/857/0	-
-1 to 5	37/818/0	37/838/0	37/858/0	-
-1 to 9	37/819/0	37/839/0	37/859/0	-

The following product numbers are psi dominant, psi outer scale - red, bar inner scale - black.
These gauges are bottom connection.

Range psi & bar	1/4” BSP		1/2” BSP					
	Ø63mm 1.6% acc		Ø100mm 1.6% acc		Ø100mm 1.0% acc		Ø115mm 1.0% acc	
	Dry	Filled	Dry	Filled	Dry	Filled	Dry	Filled
0 to 160	35/285/1	35/285/5	35/305/1	35/305/5	35/505/1	35/505/5	35/325/1	35/325/5
0 to 230	35/286/1	32/286/5	35/306/1	35/306/5	35/506/1	35/506/5	35/326/1	35/326/5
0 to 300	35/287/1	35/287/5	35/307/1	35/307/5	35/507/1	35/507/5	35/327/1	35/327/5
0 to 400	-	-	-	-	35/508/1	35/508/5	-	-

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For PG030 dials to be 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	Filling	Extras
Brannan **(BRN)**	PG030 **(PG30)**	40mm (1.5") **(40)** 50mm (2.0") **(50)** 63mm (2.5") **(63)** 80mm (3.0") **(80)** 100mm (4.0")* **(100)** 115mm (4.5") **(115)** 150mm (6.0") **(150)** * 1.6% accuracy is standard for Ø100mm. If 1% accuracy is required, please specify in the extras column	-1 to 9 bar **(-1+9)** -30 to 130 Hg/Psi **(-30+130)** through to 0 to 1000 bar **(0+1000)** 0 to 14500 Psi **(0+14500)** NB. 400 bar max for 40mm dial size	Bar only (black) **(B)** Psi only (black) **(P)** Bar outer (black) / psi inner (red) **(BP)** Psi outer (red) / bar inner (black) **(PB)** kPa outer (black) / Psi inner (red) **(KP)** Psi outer (red) / kPa inner (black) **(PK)** NB. Other units available on request	1/8" BSP_1 **(1)** 1/8" NPT_1 **(2)** 1/4" BSP **(3)** 1/4" NPT **(4)** 3/8" BSP_2 **(5)** 3/8" NPT_2 **(6)** 1/2" BSP_3 **(7)** 1/2" NPT_3 **(8)** 1/8" $BSPT_1$ **(9)** 1/4" BSPT **(10)** 3/8" $BSPT_2$ **(11)** 1/2" $BSPT_3$ **(12)** 7/16" UNF **(13)** 1. 40 & 50mm only 2. 63, 80 and 100mm only 3. 80,100, 115 & 150mm only NB. Others available on request	Bottom **(BO)** Centre $back_1$ **(CB)** Lower $back_2$ **(LB)** 1. Not 100, 115 or 150mm 2. 100, 115 & 150mm only	Dry - no filling **(D)** Glycerine **(G)**	Tempered safety glass window **(TG)** Front flange **(FF)** Back flange **(BF)** 1% accuracy (for Ø100mm) **(1%)** NB. flange not available for 40mm dial. 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	Filling	Extras
BRN	**PG30**	**100**	**0+10**	**B**	**4**	**BO**	**D**	**TG-FF**

Product reference: BRNPG30/100/0+10/B/4/BO/D/TG-FF

Calibration:

UKAS certification, certificate traceable to recognised national standard or statement of conformity, if required.

Calibration	No of points	Product number
UKAS	5pt	49/075/0
Traceable to National Standards	5pt	49/060/0

Other calibration types available on request

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Measurement for life.

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