

BOURDON TUBE PRESSURE GAUGE DEFENCE STD ALUMINIUM CASE



Designed for Naval and Marine applications in accordance with Def Stan 66-2.

This gauge has been designed to withstand high level of shock and are all manufactured in accordance with EN837 -1.

Variants include an oil free pressure gauge clean for Oxygen duty with the dial marked accordingly.

The 4" and 6" flush mounting versions are available with 3 Hole front fixing flange or the Instrument black bezel with rear clamp fixing.



Size

63mm (2.25") 100 mm (4") & 150mm (6")

Mounting

Direct, Surface and Flush (3 Hole or clamp)
63mm available in 3 Hole fixing only in Flush Mounting.

Case & Bezel

Die Cast Aluminium Case, with a solid baffle partition wall and full blow out back. Powder coated brass bezel.

Scale Ranges

0 to 400 mbar to 0 to 1400 bar Pressure
Equivalent units of pressure / vacuum available
Single and dual scales are available

Pressure Element

≤80 Bar –316 Stainless Steel Bourdon Tube
≥81 Bar - 316 Stainless Steel Coil

Overload

Units withstands overload pressure up to 130% of FSD
Overload & vacuum stops are fitted on the movement

Option: Mechanical overload clamps fitted internally to enable units to withstand up to 3x the max scale reading

Pressure Connection in 316 Stainless Steel

1/4", 3/8", 1/2" BSP
1/2" NPT
Other connections available, contact our Sales Dept for details

Accuracy Class

CL:1 1.0% of FSD as defined in EN837-1
Option: 0.5% of FSD as defined in EN837-1

Temperature

Operating: -20 to +90 °C
Storage: -40 up to +100 °C
Options: for lower or higher operating temperatures, please contact our Sales Office

Dial

White Anodised Aluminium marked in black finish
Single or dual scale

Pointer

Aluminium coloured black
Options: Micrometer adjustable pointer

Movement

Stainless Steel Construction
Option : Viscous Damped movement to overcome the effects of minor pressure pulsations

Window

3mm Laminated Safety Glass (Standard)
Option: Acrylic Plastic Window

Environmental Rating

IP67 as defined in EN 60 529

Traceability

All instruments are individually calibrated and have an unique Serial Number printed on the dial. A Certificate of Conformity Traceable to National Standards is Supplied Free of Charge

Certification available

BS EN 10204 3.1B Material Certification
Point by Point Test Certificate

Safety

All units are manufactured to comply with EN 837-1, S3 specification and other regulatory standards including PED.

Installation instructions

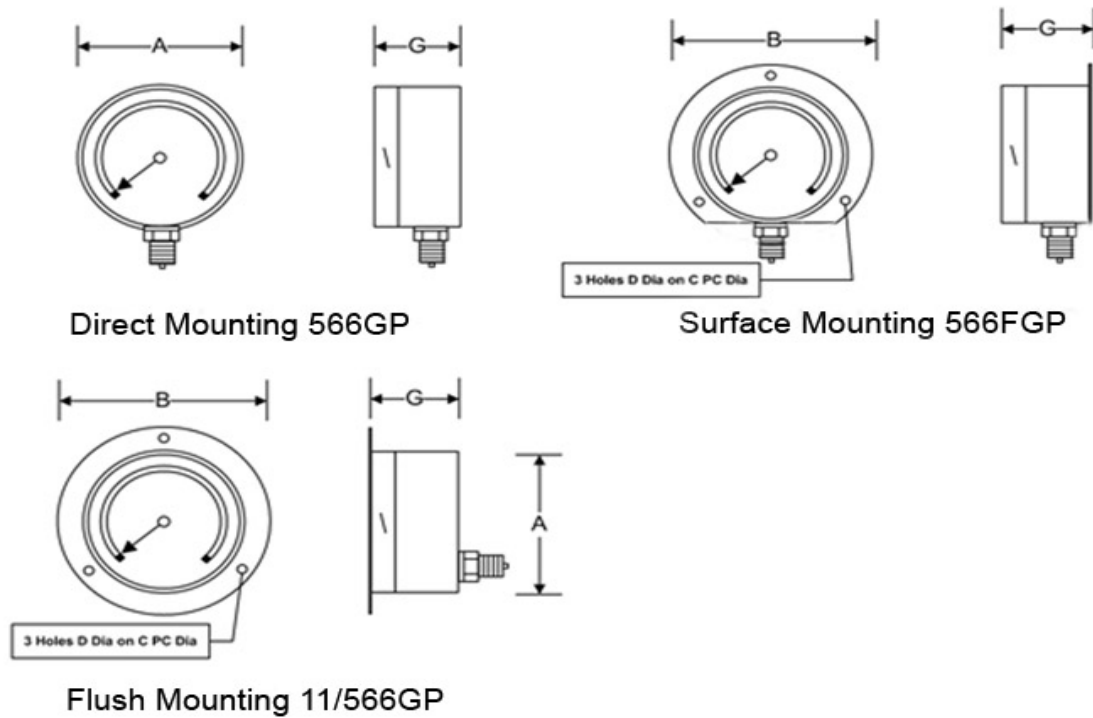
Refer to EN 837-2

Temperature Effect

Variation in indication caused by temperature shall not exceed $\pm 0.04 \times (t_2 - t_1)\%$ of the span where:
t1 is the reference ambient temperature in degrees Celsius
t2 is the ambient temperature in degrees Celsius

Dimensions

Model : 566GP



***** Dimensions are for guidance, before ordering please request an up to date Outline Drawing.**

Model No	A	B	C	D	G	Weight
63mm 566GP	67mm				42mm	1.2Kg
63mm 566FGP		86mm	76.2mm	4.3mm	42mm	1.4Kg
63mm 11/566GP	70mm	88mm			42mm	1.5Kg
100mm 566GP	105mm				55mm	2.5Kg
100mm 566FGP		127mm	116mm	5.4mm	55mm	2.7Kg
100mm 11/566GP	112mm	133mm	120.7mm	5.4mm	55mm	2.9Kg
150mm 566GP	156mm				58mm	2.8Kg
150mm 566FGP		180mm	168mm	5.4mm	58mm	3Kg
150mm 11/566GP	165mm	188mm	174.6mm	5.4mm	58mm	3.2Kg

Options

- Case : Viscous Damping
- Mounting : Flush mounting clamp fixing available (Except 63mm)
- Accuracy : 0.5% of FSD as defined in EN837-1
- Window : Acrylic Plastic Window
- Pointer : Micrometer adjustable Model 270
- Dials : Special sectors, Logos etc.

Accessories

For high temperature applications such as steam, see our range of syphons and adaptors. – See separate Datasheet.

We can supply Needle, Ball or 2 Valve manifolds for the Model 566GP – See separate Datasheet.

The manifolds in addition to allowing the instrument to operate normally allows the following: -

- a). Checking of gauge zero at line pressure.
- b). Complete isolation of the instrument.
- c). De-pressurisation of the instrument or controlled purging.
- d). Damping of pressure pulsations and surges.
- e). Inline calibration, allows in situation calibration

Specifications and dimensions in this leaflet, are subject to change without prior notice.

Budenberg Gauge Co Ltd

Unit B2, Stuart Road, Altrincham Business Park, Altrincham WA14 5GJ, United Kingdom.
 +44 (0)161 777 7300 | sales@budenberg.co.uk | www.budenberg.co.uk