

## BOURDON TUBE PRESSURE GAUGE PREMIUM INDUSTRIAL SERVICE



An impressive technical specification and wide range of standard features make the PREMIUM the obvious choice for a wide range of process and engineering applications.

Embodying an all 316 Stainless Steel construction, the 966GP incorporates a solid baffle wall and blow out back for operator protection and standard features such as IP67 environmental protection, not normally available on comparative units.

An extensive choice of options can be fitted to any standard unit whilst fully customised units can be manufactured to suit any customer's requirements

Monel wetted parts, can be provided for customers who seek units to meet NACE-01-75 specification see 966MGP.



### Size

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

### Mounting

Direct, Surface and Flush

### Case & Bezel

Rugged one-piece full Safety Pattern case to S3 standard with a solid baffle partition wall and full blow out back manufactured in 1.6mm thick, 316L stainless steel.

### Scale Ranges

0 to 600 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

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

Stainless steel 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

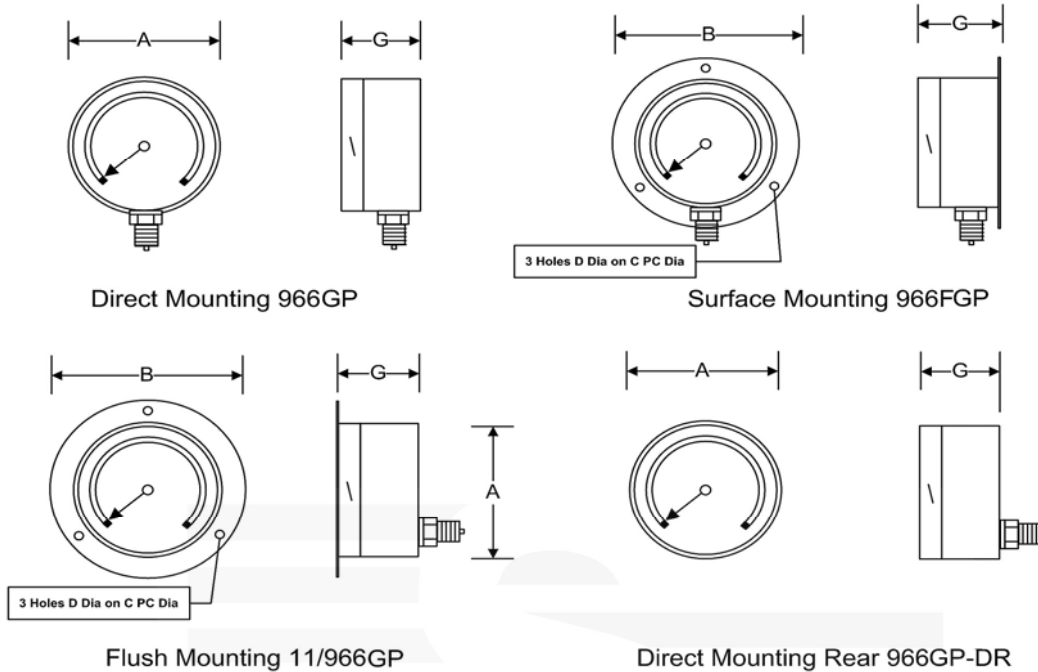
Refer to EN 837-2

### 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 : 966GP**

Model No	A	B	C	D	G	Weight
100mm 966 (Dry Case)	105mm	131mm	118mm	6mm	52mm	0.7kg
100mm 966 (Glycerine Filled)	105mm	131mm	118mm	6mm	52mm	1.1kg
150mm 966 (Dry Case)	162mm	183mm	168mm	6mm	53mm	1.34kg
150mm 966 (Glycerine Filled)	162mm	183mm	168mm	6mm	53mm	2.30kg

**Options**

Case : Glycerine filled  
 Mounting : Flush mounting clamp fixing available  
 Element : 316L Stainless Steel  
 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 966GP – See separate Datasheet.

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

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

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

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