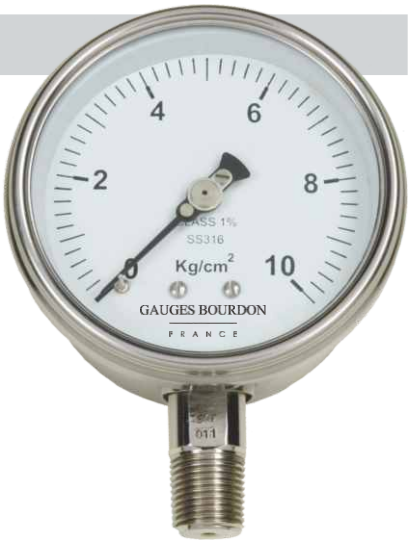
# Bourdon Sensing Pressure Gauges

Model : **BSPG** (Dry Case)
**LFBSPG** (Liquid Filled Case)

GAUGES BOURDON
FRANCE

## Features




- Compliance to latest EN-837 standard
- Range : (-)1 to 1600 kg/cm²
- Bourdon in SS316 Ti as standard providing better mechanical properties guaranteeing repeatability and accuracy
- Accuracy ±1% FSD (Standard), ± 0.5% FSD on request
- Unit of measurement - kg/cm², bar, psi, kPa, MPa

- Pressure Gauges intended for Process Industries such as Chemicals, Petro-chemicals, Energy or Gas industry, Food processing, Nuclear etc.
- These pressure gauges have been designed to satisfy requirements to operate in aggressive environment.

## Specifications

| | |
|---|---|
| **Ref. Standard** | EN-837 |
| **Dial** | 100 mm / 150 mm in Aluminium, white background, black markings |
| **Case** | SS304 / SS316 with bayonet bezel<br>Phenol with screwed bezel |
| **Protection** | IP-68 (IS:13947 part I / IEC:60529) |
| **Window** | Safety glass (Shatter proof / Toughened glass) |
| **Bourdon** | SS316, SS316 Ti, SS316L, Monel |
| **Socket** | 22mm Square in SS316, SS316 Ti, SS316L, Monel |
| **Movement** | SS304, SS316 |
| **Range** | As per EN 837 (refer table) minimum span 0.6 kg/cm2, maximum 1600 kg/cm2 |
| **Connection** | 1/2" NPT (M) as standard* (other optional) |
| **Accuracy** | ±1% FSD (0.5% on request) |
| **Over range** | As per EN 837 |
| **Zero adjustment** | Micrometer Pointer |
| **Blow out disc** | Provided (on top) |
| **Temperature suitability** | Ambient (-)20°C to 60°C, Media 200°C |
| **Temperature Effect** | Within ±0.4% FSD/10°C, when temperature changes from reference temperature of 20°C (as per EN-837 standard) |
| **Optional** | Maxima pointer<br>NACE compliance<br>External Knob for zero setting<br>Built in Snubber<br>Built in Gauge Saver<br>Liquid filled Case (SS case only)<br>Vacuum Protection<br>CE |

## Ranges

| Gauge | bar, kg/cm2 | Least count |
|---|---|---|
| Vacuum | (-)1 to 0 | 0.02 |
| | -760 to 0mmHg | 20 |
| Compound | (-)1 to 0.6 | 0.05 |
| | (-)1 to 1.5 | 0.05 |
| | (-)1 to 3 | 0.10 |
| | (-) 1 to 5 | 0.10 |
| | (-)1 to 9 | 0.20 |
| | (-)1 to 15 | 0.50 |
| | (-)1 to 24 | 0.50 |
| | (-)1 to 39 | 1.0 |
| Pressure | 0 to 0.6 | 0.01 |
| Gauge | 0 to 1 | 0.02 |
| ('C' shaped | 0 to 1.6 | 0.05 |
| Bourdon) | 0 to 2.5 | 0.05 |
| | 0 to 4 | 0.10 |
| | 0 to 6 | 0.10 |
| | 0 to 10 | 0.20 |
| | 0 to 16 | 0.50 |
| | 0 to 25 | 0.50 |
| | 0 to 40 | 1.0 |
| | 0 to 60 | 1.0 |
| Pressure | 0 to 100 | 2.0 |
| Gauge | 0 to 160 | 5.0 |
| Coil type | 0 to 250 | 5.0 |
| Bourdon | 0 to 400 | 10.0 |
| | 0 to 600 | 10.0 |
| | 0 to 800 | 20.0 |
| | 0 to 1000 | 20.0 |
| | 0 to 1600 | 50.0 |

For range other than above please contact our design dept.

## Ordering Information

**MODEL**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

### BASIC MODEL CODE

| | |
|---|---|
| **BSPG** | Dry Case |
| **LFBSPG** | Liquid Filled Case |

### MOUNTING

| | |
|---|---|
| **V** | Bottom Entry, Local Mounting |
| **S** | Bottom Entry, Surface Mounting |
| **Y** | Bottom Entry, 2" Pipe Mounting |
| **C** | Back Entry, Local Mounting |
| **P** | Back Entry, Flush Panel Mounting |

### DIAL SIZE

**100** - 100 mm **150** - 150 mm

### CASE

| | |
|---|---|
| **S4S** | SS 304 |
| **S6S** | SS 316 |
| **PHN** | Phenolic |

### BOURDON

| | |
|---|---|
| **S6S** | SS 316 |
| **S6L** | SS 316L |
| **S6T** | SS 316Ti |
| **MN4** | Monel |

### SOCKET

| | |
|---|---|
| **S6S** | SS 316 |
| **S6L** | SS 316L |
| **S6T** | SS 316Ti |
| **MN4** | Monel |

### MOVEMENT

| | |
|---|---|
| **S4S** | SS 304 |
| **S6S** | SS 316 |

### CONNECTION

| Conn | Code | Size | Code | Type | Code | Male/ Female | Code |
|---|---|---|---|---|---|---|---|
| Thread | T | 1/4" | **06** | NPS | **NS** | Male | **M** |
| | | 3/8" | **10** | NPT | **NT** | Female | **F** |
| | | 1/2" | **15** | BSP | **BP** | | |
| | | 3/4" | **20** | BSPT | **BT** | | |
| | | 1" | **25** | JIS-PF | **PF** | | |
| | | M20 | **M20** | JIS-PT | **PT** | | |
| | | | | Gas | **GS** | | |
| | | | | R | **RR** | | |
| | | | | Rp | **RP** | | |
| | | | | Pitch 1.5 | **C** | | |

e.g. For 1/2"NPT(M), Code: **T15NTM**
For M20x1.5 (F), Code: **TM20CF**

### OPTION

| | |
|---|---|
| **A05** | Accuracy ±0.5%FSD |
| **BGS** | Built In Gauge Saver |
| **BOB** | Blow out disc at back |
| **BSN** | Built In Snubber |
| **CLB** | Colour Band |
| **CEM** | CE marking |
| **DC2** | Silicone Oil Filled Case |
| **DUS** | Dual Scale |
| **EXZ** | External Knob for Zero Adjustment |
| **FLG** | Flanged Process Conn |
| **GLY** | Glycerine filled Case |
| **MXP** | Maxima pointer with Acrylic Window |
| **NAC** | NACE |
| **OXY** | O2 Cleaning |
| **OR5** | 150% FSD Over range |
| **PHD** | Phenolic / Plastic Dial |
| **S4D** | SS DIAL (SS304) |
| **S6D** | SS DIAL (SS316) |
| **VCP** | Vacuum Protection |
| **L** | Nil |
| **CSU** | Chemical Seal |
| **ACC** | Accessory |
| **XXX** | Other |

### UNIT

| | |
|---|---|
| **KSC** | kg/cm2(g) |
| **BAR** | bar(g) |
| **PSI** | psi(g) |
| **KPA** | kPa(g) |
| **MPA** | MPa(g) |
| **MBR** | mbar(g) |
| **MMW** | mm WC(g) |
| **CMW** | cm WC(g) |
| **MWC** | m WC(g) |
| **INW** | inch WC(g) |
| **MMH** | mm Hg(g) |
| **CMH** | cm Hg(g) |
| **INH** | inch Hg(g) |
| **XXX** | Other (Please specify) |

### RANGE

Please select from Table

### FLG - FLANGE

| Conn | Code | Size | Code | Rating# | Code | Facing | Code |
|---|---|---|---|---|---|---|---|
| Flange | **F** | 1/2" | **15** | 150 | **A** | RF | **RF** |
| | | 3/4" | **20** | 300 | **B** | FF | **FF** |
| | | 1" | **25** | 600 | **C** | RTJ | **RJ** |
| | | 1-1/2" | **40** | 900 | **D** | LT | **LT** |
| | | 2" | **50** | 1500 | **E** | LG | **LG** |
| | | 3" | **80** | 2500 | **F** | | |

e.g. For 40 NB 300# RF flange, Model Code: **F40BRF**

**Sample Model Code: BSPG-V-150-S4S-S6S-S6S-S4S-T15NTM-(0-10)-BAR-BOB**