

Bourdon Sensing Pressure Gauges

PRISMA
Instruments
& Gauge Bourdon France

MODEL : BSPG (Dry Case)

LFBSPG (Liquid Filled Case)

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 $\pm 1\%$ FSD (Standard), $\pm 0.5\%$ FSD on request
 - Unit of measurement - kg/cm², bar, psi, kPa, MPa
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- 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 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/cm ² , maximum 1600 kg/cm ²
Connection	1/2" NPT (M) as standard* (other optional**)
Accuracy	$\pm 1\%$ 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 $\pm 0.4\%$ FSD/10°C, when temperature changes from reference temperature of 20°C (as per EN-837 standard)
Optional	IBR certification Maxima pointer NACE compliance External Knob for zero setting Built in Snubber Built in Gauge Saver Liquid filled Case (SS case only) Vacuum Protection CE Atex

* For ranges above 1000 bar, connection shall be 1/2"BSP(M) with Bottom Entry only

** Autoclave connection available on request

Ranges

Gauge	bar, kg/cm ²	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 Bourdon)	0 to 1.6	0.05
	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
	0 to 2000	50.0
	0 to 2500	50.0

For range other than above please contact our design dept.

The parameters mentioned here are the standard specifications / values generally used for most of the process applications. Any other specification not appearing here also can be provided as per customer requirement. For higher temperature services above 100°C, we recommend to provide suitable cooling arrangement (Syphon, Cooling Tower, Impulse Tubing, Diaphragm Seal etc.)

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
(with front Flange having 3 holes)
B Back Entry, Flush Panel Mounting
(with Bracket from back side)

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**

* For Autoclave connection, please contact our design department

OPTION

A05 Accuracy $\pm 0.5\%$ FSD
ATX Atex
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
IBR IBR
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		

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

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