

# Bourdon Sensing Pressure Gauges

**MODEL : BSPG (Dry Case)**

**LFBSPG (Liquid Filled Case)**

## Features

- Compliance to latest EN-837 standard
  - Range : (-) 1 to 1600 kg/cm<sup>2</sup>
  - 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/cm<sup>2</sup>, 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

<b>Ref. Standard</b>	EN-837
<b>Dial</b>	100 mm / 150 mm in Aluminium, white background, black markings
<b>Case</b>	SS304 / SS316 with bayonet bezel Phenol with screwed bezel
<b>Protection</b>	IP-68 (IS:13947 part I / IEC:60529)
<b>Window</b>	Safety glass (Shatter proof / Toughened glass)
<b>Bourdon</b>	SS316, SS316 Ti, SS316L, Monel
<b>Socket</b>	22mm Square in SS316, SS316 Ti, SS316L, Monel
<b>Movement</b>	SS304, SS316
<b>Range</b>	As per EN 837 (refer table 1) minimum span 0.6 kg/cm <sup>2</sup> , maximum 1600 kg/cm <sup>2</sup>
<b>Connection</b>	1/2" NPT (M) as standard (other optional)
<b>Accuracy</b>	±1% F SD (0.5% on request)
<b>Over range</b>	As per EN 837
<b>Suitability</b>	(-) 20°C to 80°C (service temperature)
<b>Zero adjustment</b>	Micrometer Pointer
<b>Blow out disc</b>	Provided (on top)
<b>Optional</b>	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

**Table 1**

Gauge	Bar, kg/cm <sup>2</sup>	Least count
Vacuum	(-)1 to 0	0.02
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
Pressure Gauge ('C' shaped Bourdon)	(-)1 to 15	0.50
	(-)1 to 24	0.50
	(-)1 to 39	1.0
	0 to 0.6	0.01
	0 to 1	0.02
	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	
Pressure Gauge (Coil type Bourdon)	0 to 25	0.50
	0 to 40	1.0
	0 to 60	1.0
	0 to 100	2.0
	0 to 160	5.0
	0 to 250	5.0
	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 : BSPG / LFBSPG



#### MOUNTING

- V Bottom Entry, Local Mounting
- C Back Entry, Local Mounting
- S Bottom Entry, Surface Mounting
- P Back Entry, Flush Panel Mounting  
(with front Flange having 3 holes)
- B Back Entry, Flush Panel Mounting  
(with Bracket from back side)
- Y Bottom Entry, 2" Pipe Mounting

#### DIAL

10 - 100 mm    15 - 150 mm

#### CASE

- PH Phenol
- S4 SS304
- S6 SS316

#### BOURDON

- S SS316
- L SS316L
- M Monel
- T SS316Ti

#### SOCKET

- S SS316
- L SS316L
- M Monel
- T SS316Ti

#### MOVEMENT

- 4 - SS304
- 6 - SS316

#### CONNECTION

SIZE	TYPE	MALE / FEMALE	METRIC THREADS
6 1/4"	NT NPT	M Male	18 M - M 18 x 1.5
10 3/8"	BP BSP	F Female	20 M - M 20 x 1.5
15 1/2"	BT BSPT		24 M - M 24 x 1.5
20 3/4"	PF PF		27 M - M 27 x 2
25 1"	GS Gas		33 M - M 33 x 2
32 1.1/4"	NS NPS		XX - Any other
40 1.1/2"			

#### OPTION

- A +/- 0.5% Accuracy
- C Colour band
- CE CE Certificate
- D Dual Scale
- E External Zero reset  
(for S4 and S6 case)
- F Flanged process connection \*\*
- G Glycerine Filled Case
- I IBR
- L Nil
- M Maxima Pointer
- N NACE
- O O<sub>2</sub> Cleaning
- R 150% over range
- S Silicone Oil Filled Case
- BB Back Blow out Disk
- BS Built in Snubber
- BG Built in Gauge Saver
- VP Vacuum Protection
- SD SS Dial
- PD Phenolic Dial
- U Chemical Seal Unit-Refer  
Catalogue CSU
- X Accessory - Refer Catalogue ACC

#### UNIT

- A kg/cm<sup>2</sup>(g)
- B Bar(g)
- C PSI(g)
- D kPa(g)
- E mmHg(g)
- H MPa(g)
- X Please Specify

#### RANGE

Refer Table 1

#### F - FLANGED PROCESS CONNECTION \*\*

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

\*\* For Flanged Process Connection refer the table (mentioned separately)

The recommendations made in this catalogue are to be used as intended guide. No guarantee of material can be undertaken since other factors may affect the performance. We reserve the right to change the specifications mentioned in this catalogue without any notice as improvements & development is a continuous process at Pyrosales. Responsibility of typographical errors is specifically disclaimed.

## Bourdon Sensing Pr. Gauges - 250mm

**MODEL : BSPG25 (Dry Case)**

**LFBSPG25 (Liquid Filled Case)**

### Features

- Compliance to latest EN-837 standard
- Range : (-) 1 to 1600 kg/cm<sup>2</sup>
- 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/cm<sup>2</sup>, bar, PSI, kPa, MPa



### Specifications

<b>Ref. Standard</b>	EN-837
<b>Dial</b>	250 mm in Aluminium, white background, black markings
<b>Case</b>	SS304 / SS316 with bayonet bezel
<b>Protection</b>	IP-67 (IS:13947 part I / IEC:60529)
<b>Window</b>	Safety glass (Shatter proof / Toughened glass)
<b>Bourdon</b>	SS316, SS316 Ti, SS316L, Monel
<b>Socket</b>	22mm Square in SS316, SS316 Ti, SS316L, Monel
<b>Movement</b>	SS304, SS316
<b>Range</b>	As per EN 837 (refer table 1) minimum span 0.6 kg/cm <sup>2</sup> , maximum 1600 kg/cm <sup>2</sup>
<b>Connection</b>	1/2" NPT (M) as standard (other optional)
<b>Accuracy</b>	$\pm 1.0\%$ FSD standard ( $\pm 0.5\%$ FSD on request)
<b>Over range</b>	As per EN 837
<b>Suitability</b>	(-) 20°C to 80°C (service temperature)
<b>Zero adjustment</b>	Micrometer Pointer
<b>Blow out disc</b>	Provided (on top)
<b>Optional</b>	IBR certification NACE compliance Liquid Filled Case External Knob for zero setting Vacuum Protection

**Table 1**

Gauge	Bar, kg/cm <sup>2</sup>	Least count	
Vacuum	(-)1 to 0	0.02	
Compound Bourdon ('C' shaped)	(-)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 Gauge Bourdon	0 to 0.6	0.01
		0 to 1	0.02
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 Gauge Bourdon	0 to 100	2.0	
	0 to 160	5.0	
	0 to 250	5.0	
	0 to 400	10.0	
	0 to 600	10.0	
	0 to 800	20.0	
Pressure Gauge Bourdon	0 to 1000	20.0	
	0 to 1600	50.0	

For range other than above please contact our design dept.

# Ordering Information

## MODEL : BSPG25 / LFBSPG25



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

**CASE**  
 S4 SS304  
 S6 SS316

**BOURDON**  
 S SS316  
 L SS316L  
 M Monel  
 T SS316Ti

**SOCKET**  
 S SS316  
 L SS316L  
 M Monel  
 T SS316Ti

**MOVEMENT**  
 4 - SS304  
 6 - SS316

CONNECTION			
SIZE	TYPE	MALE / FEMALE	METRIC THREADS
6 1/4"	NT NPT	M Male	18 M - M 18 x 1.5
10 3/8"	BP BSP	F Female	20 M - M 20 x 1.5
15 1/2"	BT BSPT		24 M - M 24 x 1.5
20 3/4"	PF PF		27 M - M 27 x 2
25 1"	GS Gas		33 M - M 33 x 2
32 1.1/4"	NS NPS		XX - Any other
40 1.1/2"			

**OPTION**  
 A +/- 0.5% Accuracy  
 C Colour band  
 CE CE Certificate  
 D Dual Scale  
 E External Zero reset  
 F Flanged process connection \*\*  
 G Glycerine Filled Case  
 I IBR  
 L Nil  
 N NACE  
 O O<sub>2</sub> Cleaning  
 R 150% over range  
 S Silicon Oil Filled Case  
 BB Back Blow out Disc  
 SF Solid Front Case  
 VP Vacuum Protection  
 U Chemical Seal Unit-Refer Catalogue CSU  
 X Accessory - Refer Catalogue ACC

**UNIT**  
 A kg/cm<sup>2</sup>(g)  
 B Bar(g)  
 C PSI(g)  
 D kPa(g)  
 E mmHg(g)  
 H MPa(g)  
 X Please Specify

**RANGE**  
 Refer Table 1

F - FLANGED PROCESS CONNECTION **					
Size	Code	Rating	Code	Facing	Code
1/2"	15	150#	A	RF	RF
3/4"	20	300#	B	FF	FF
1"	25	600#	C	RTJ	RTJ
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2"	50	1500#	E	LG	LG
3"	80	2500#	F		

\*\* For Flanged Process Connection refer the table (mentioned separately)