

# Diaphragm Sensing Pressure Gauges



- MODEL : DSPG** (Dry Case)  
**LFDSPG** (Liquid Filled Case)  
**SF DSPG** (Solid Front, Dry Case)  
**LSDSPG** (Liquid filled, Solid Front Case)

## Features

- Compliance to latest EN-837 standard
- Range : (-)10000 to (+)10000 mmWC
- All SS internals
- Special design with built in Gauges saver also available



## Specifications

<b>Ref. Standard</b>	EN-837
<b>Dial</b>	100 mm / 150 mm / 250 mm in Aluminium, white background, black markings
<b>Case</b>	SS304 / SS316 with bayonet bezel
<b>Protection</b>	IP-68 (IS:13947 part I / IEC:60529)
<b>Window</b>	Safety glass (Shatter proof / Toughened glass)
<b>Movement</b>	SS304 / SS316
<b>Top Chamber</b>	SS304 / SS316
<b>Diaphragm</b>	SS316, PTFE lined SS316 (other material optional)
<b>Bottom flange</b>	SS304 / SS316 / SS316 + PTFE Block / PTFE lined SS316 (other material optional)
<b>Connection</b>	1/2" NPT (M) or flanged (specify size & rating)
<b>Range</b>	Refer table
<b>Accuracy</b>	±2% FSD (1.6% FSD on request)
<b>Over range</b>	As per EN 837
<b>Zero adjustment</b>	Micrometer pointer
<b>Blow out disc</b>	Provided
<b>Temperature suitability</b>	Ambient (-)20°C to 60°C, Media 100°C
<b>Temperature Effect</b>	Within ±0.8% FSD/10°C, when temperature changes from reference temperature of 20°C (as per EN-837 standard)
<b>Optional</b>	<ul style="list-style-type: none"> <li>• Flushing connection on the bottom chamber to facilitate cleaning</li> <li>• Liquid Filled Case (Minium Span of Range 400mmWC)</li> <li>• Solid Front Case</li> <li>• Special Construction to withstand high design pressure (Built in Gauge Saver)</li> <li>• Built in Snubber</li> <li>• External Knob for zero setting</li> <li>• CE</li> <li>• Atex</li> </ul>

## Ranges

0-250 mm WC	(-)250 to 0 mm WC
0-400 mm WC	(-)400 to 0 mm WC
0-600 mm WC	(-)600 to 0 mm WC
0-1000 mm WC	(-)1000 to 0 mm WC
0-1600 mm WC	(-)1600 to 0 mm WC
0-2500 mm WC	(-)2500 to 0 mm WC
0-4000 mm WC	(-)4000 to 0 mm WC
0-6000 mm WC	(-)6000 to 0 mm WC
0-1.0 bar or 0-10000 mm WC	(-)10000 to 0 mmWC

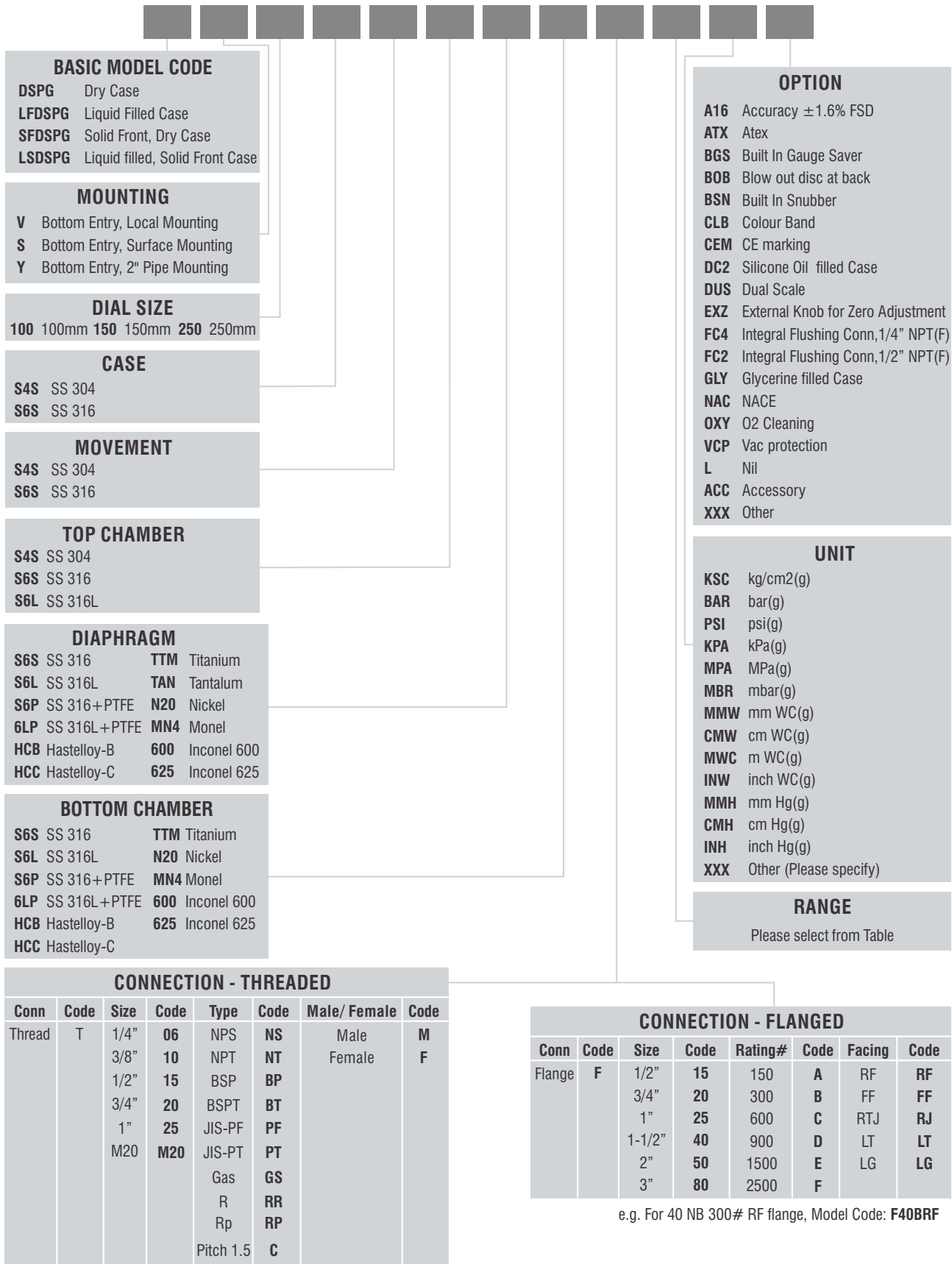
Special combination for compound ranges available, within the above span



**Note:** PTFE block / moulded construction available in flanged connection only.

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 etc.)

## MODEL



**BASIC MODEL CODE**

**DSPG** Dry Case  
**LFDSPG** Liquid Filled Case  
**SF DSPG** Solid Front, Dry Case  
**LS DSPG** Liquid filled, Solid Front Case

**MOUNTING**

**V** Bottom Entry, Local Mounting  
**S** Bottom Entry, Surface Mounting  
**Y** Bottom Entry, 2" Pipe Mounting

**DIAL SIZE**

**100** 100mm **150** 150mm **250** 250mm

**CASE**

**S4S** SS 304  
**S6S** SS 316

**MOVEMENT**

**S4S** SS 304  
**S6S** SS 316

**TOP CHAMBER**

**S4S** SS 304  
**S6S** SS 316  
**S6L** SS 316L

**DIAPHRAGM**

**S6S** SS 316 **TTM** Titanium  
**S6L** SS 316L **TAN** Tantalum  
**S6P** SS 316+PTFE **N20** Nickel  
**6LP** SS 316L+PTFE **MN4** Monel  
**HCB** Hastelloy-B **600** Inconel 600  
**HCC** Hastelloy-C **625** Inconel 625

**BOTTOM CHAMBER**

**S6S** SS 316 **TTM** Titanium  
**S6L** SS 316L **N20** Nickel  
**S6P** SS 316+PTFE **MN4** Monel  
**6LP** SS 316L+PTFE **600** Inconel 600  
**HCB** Hastelloy-B **625** Inconel 625  
**HCC** Hastelloy-C

**CONNECTION - THREADED**

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	
	M20	M20	1/2"	15	BSP	BP		
			3/4"	20	BSPT	BT		
			1"	25	JIS-PF	PF		
					JIS-PT	PT		
					Gas	GS		
					R	RR		
		Rp	RP					
		Pitch 1.5	C					

**CONNECTION - FLANGED**

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**

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

**Sample Model Code: LFDSPG-V-150-S4S-S4S-S4S-S6L-S6L-T15NTM-(0-2500)-MMW-GLY**