

MODELS- 1232, 1233 Series



PHENOLIC SAFETY PATTERN CASE CHEMICAL SEAL GAUGE

APPLICATIONS

Diaphragm seal gauges commonly known as "chemical seal" gauges are designed and recommended to isolate the measuring system of a pressure gauge from corrosive, pasty or dangerous fluid depending on the viscosity, pressure, temperature, solidification of a particular process medium.

VIBRAGAUGE® Option also available.

VIBRAGAUGE® for Dampening of vibration & pulsation without liquid filling.

STANDARD SPECIFICATION

Solid Front Safety Pattern Diaphragm Seal Gauge
(Weatherproof Construction to IP65)

Sizes

4½" (115mm)

Case/ Bezel

Moulded Fibreglass / Phenolic
Full Safety Pattern Construction
Threaded Fibreglass / Polycarbonate Window Ring
Elastomer with integral O' Ring Seal
Compensation Diaphragm
Polopropylene with Reinforced Fibreglass Blow-Out Back

Socket & Bourdon Tube

316 Stainless Steel

Movement

Stainless Steel Construction

Blowout Protection

S3 Baffle wall with blow-out backplate

Dial

White Anodised Aluminium (Black Printing)

Pointer

Black Aluminium

Window

Laminated Safety glass

Traceability

All instruments are individually calibrated and have an unique Serial Number.

Certification available on request

- Certificate of Conformity Traceable to National Standards
- Group Certification (Pressure Test Calibration Statement)
- Point to Point Test Certificate
- BS EN 10204 3.1 Material Certification

Safety

All units are manufactured to comply with EN 837-1, S3 specification and other regulatory standards including PED 2014/68/EU.

Installation instructions

Refer to EN 837-2 and our [Guidance On Use of Equipment](#) data sheet.

Accuracy class

ACCURACY CLASS EN837-1 (Optional Consult Sales)			
	0 - 100 bar	>100 - 420 bar	>420 - 700 bar
115mm	1.6 (1.0)	1.6 (1.0)	1.6
Overpressured	1.25 FSD	1.15 FSD	1.15 FSD

Options: 1.5% (Consult Sales)

Scale Range

Vacuum / Compound to -1 to 0 to -1 to 24 bar (Where applicable)

Standard 0 to 700 bar

Or other equivalent units of pressure or vacuum

PED 2014/68/EU limits, GAS Group.1 <1000 bar,

Operating Temperature Range EN837

-20° to 60°C (-4°F to 140°F)

Options for lower/higher operating ranges (Contact Sales)

Temperature Error

Additional error when temperature changes from reference

Temperature of 20°C (68°F) ±0.4% for every 10°C (18°F) rising or Falling % of span

Note: Cooling syphon recommended between diaphragm chamber and gauge for process temperatures above 60°C

Model-1232



See Page-2 for Dimension, Page-3 for Fill fluids and Available materials

Optional Extras

- Micro adjustable pointer /Black finish
- Optional dial materials & Custom markings
- ISO 15156 / NACE MR-01-75 wetted parts
- Spiral wound Armoured capillary (remote mounted)
- Laminated safety glass / Perspex window
- Orifice Restrictor Screw (standard Ø0.9mm, Ø0.4mm on request)
- Customer logo printed on dial
- Nitelitegag® (See data sheet)
- Vibragauge® (See data sheet)
- Snubbagauge® (See data sheet)
- Gauge overpressure up to 130% of FSD

Further options on request

Available with a wide range of accessories

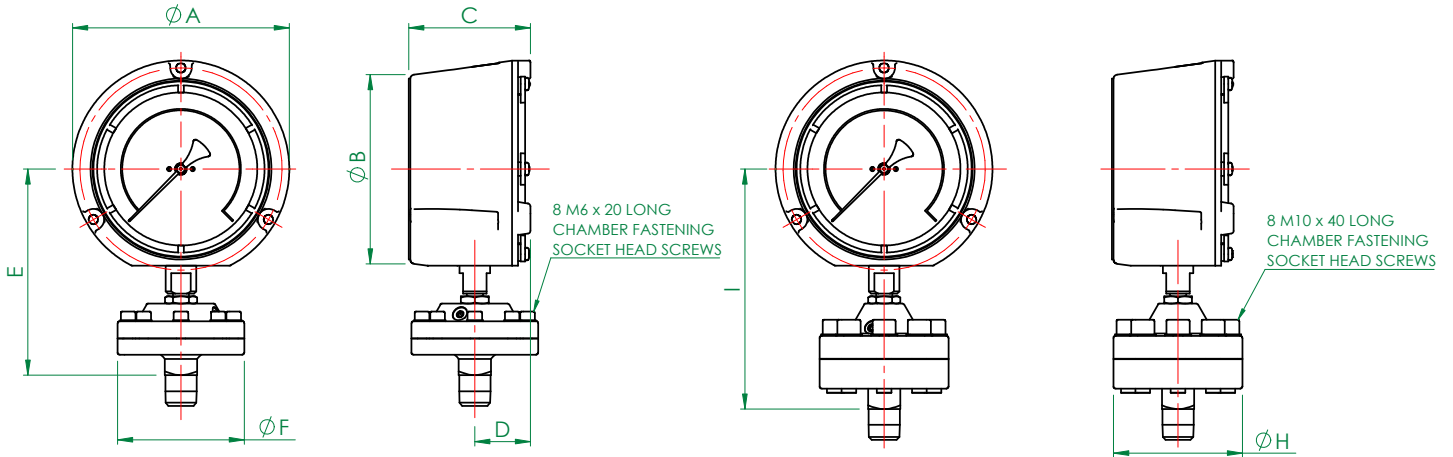
Interposed: Syphons, Snubbers, Overrange gauge protectors.

Additional: Swivel Adaptors, Valves, Manifolds etc ensures that STEWARTS can provide you with the right product to suit any individual application or requirement.

Ordering Parameters, Please state the following: SIZE, MODEL NO, SCALE RANGE, CONNECTION, PRESSURE MEDIUM & OPTIONAL EXTRAS

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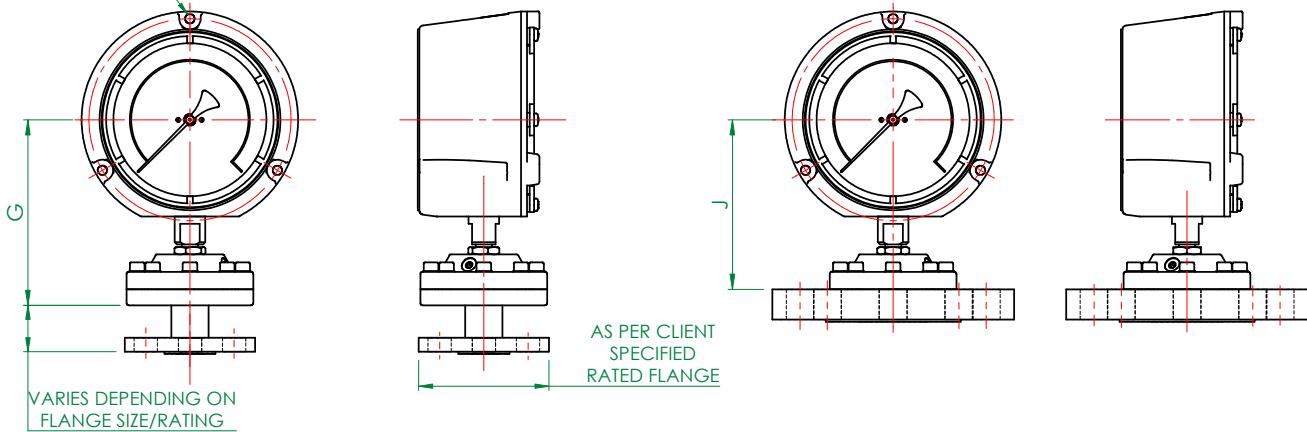
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MODEL 1232

MODEL 1232/HP

3 HOLES $\phi 6.4$
@120° ON 138 PCD



**MODEL 1233
FLANGE MOUNTED SIZE BELOW 2"**

**MODEL 1233
FLANGE MOUNTED SIZE 2" & ABOVE**

General Arrangement Dimensions in mm, tol' ± 1 mm

Dim	UNIT	A	B	C	D	E	F	G	H	I	J
Dial ϕ	mm	148	129	83	38	141	86.5	127	88	164	116
	in	5.8	5.1	3.3	1.5	5.6	3.4	5	3.5	6.5	4.6

STEWART-BUCHANAN GAUGES LTD

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DATA SHEET REF: 123-REV02-17



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Materials and Fill Fluids

Available Materials	Diaphragm	Lower Housing
Carbon Steel	☒	☑
316 St.St	☑	☑
MONEL® 400	☑	☑
HASTELLOY® C276	☑	☑
HASTELLOY® C22	☑	☑
INCONEL® 625	☑	☑
INCOLOY® 825	☑	☑
TITANIUM Gr2	☑	☑
DUPLEX S31803	☑	☑
*SUPER DUPLEX S32760	☑	☑
6% Moly S31254	☒	☑
Tantalum	☑	☒
PTFE (Protection)	☑	☑
PVDF (Protection)	☑	☑

*** Note DIAPHRAGM UNS S32750**

SBG Code	Application	Fill Fluids	Temperature Range
1	Vacuum or Compound	Silicone DC 704 / CVC-4	0 to 250°C
8	Vacuum or Compound	Vegetable / Rapeseed Oil	0 to 100°C
14	Vacuum or Compound Low Temperature (PFPE)	FOMBLIN® Y L-VAC 06/6	-50 to 80°C
2	Standard	Silicone 200/100	-40 to 200°C
13	Standard	Silicone 200/20	-50 to 240°C
15	Standard	Silicone 200/5	-70 to 130°C
4	Low Temperature	Fluorinert™ FC-77	-100 to 90°C
3	High Temperature	Silicone DC 550	-40 to 315°C
9	High Temperature	Octoil	315 to 400°C
12	High Temperature	SYLTHERM 800	-40 to 200°C
5	Oxygen & Chlorine (PFPE)	Galden® D05 PFPE	-40 to 140°C
11	Oxygen & Chlorine (PFPE)	Halocarbon 6.3	-40 to 180°C
2	High Pressure	Silicone 200/100	-20 to 160°C
6	Food Industry (FDA)	NEOBEE® M-20	-20 to 150°C
7	Food Industry (FDA)	Medicinal paraffin	-20 to 150°C
10	Food Industry (FDA)	Pure Glycerine	0 to 120°C
<i>Other fill fluids available</i>			

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