

## Sanitary Pressure Gauge

### Description

The sanitary pressure gauge for clean steam applications is made of stainless steel and can be used in general service conditions where pulsation or vibration exists. It is suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system. This comes complete with a pressure relief valve fitted in the top case.

Available pressure range	Range 1	0 to 6 bar
	Range 2	0 to 10 bar

### Surface finish

Surface finish of wetted parts (diaphragm), Ra <0.76 microns, welded seam excluded.

### Certification

Designed, manufactured and approved for Steam and Condensate applications, the Sanitary Product Gauge product range complies with:

- (EC)1935:2004 Materials and Articles Intended to come into Contact with Food
- (EC)2023:2006 Good Manufacturing Practice for Materials and Articles Intended to come into Contact with Food
- (EU)10/2011 Plastic Materials and Articles Intended to come into Contact with Food
- FDA Code of Federal Regulations - title 21 - Food and Drugs
- GB4806 Chinese National Food Safety Standards

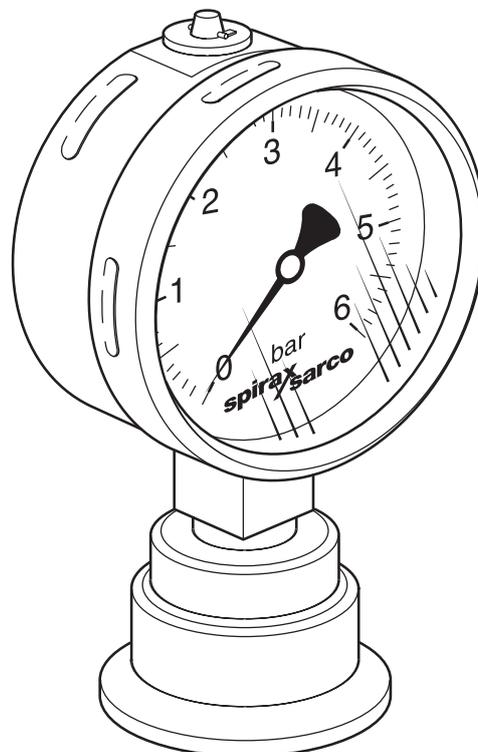
This product is intended to be connected into a system that can operate a food contact compliant process.

A list of the materials that could come directly or indirectly into contact with foodstuffs can be found in the Declaration of Compliance available for this product.

**Note:** All certification/inspection requirements must be stated at the time of order placement.

### Size and pipe connections

ASME BPE (Type B): 1", 1½", 2", 2½", 3"  
DIN 32676 A: DN25, DN32, DN40, DN50, DN65, DN80, DN100  
DIN 32676 B: DN26.9, DN33.7, DN42.4, DN48.4, DN60.3, DN76.1



## Pressure/temperature limits

PMA	Maximum allowable pressure	Steady	Full scale reading
		Fluctuating	0.9 x Full scale reading
TMA	Maximum allowable temperature		200 °C
	Minimum allowable temperature		-20 °C
PMO	Maximum operating pressure	Range 1	6 bar
		Range 2	10 bar
TMO	Maximum operating temperature	(Saturated Steam)	184 °C

## Accuracy/temperature error

Accuracy class	According to EN837-1 Class 1
Accuracy	0-6 bar < 0.4% per 10°C of full scale reading
	0-10 bar < 0.4% per 10°C of full scale reading

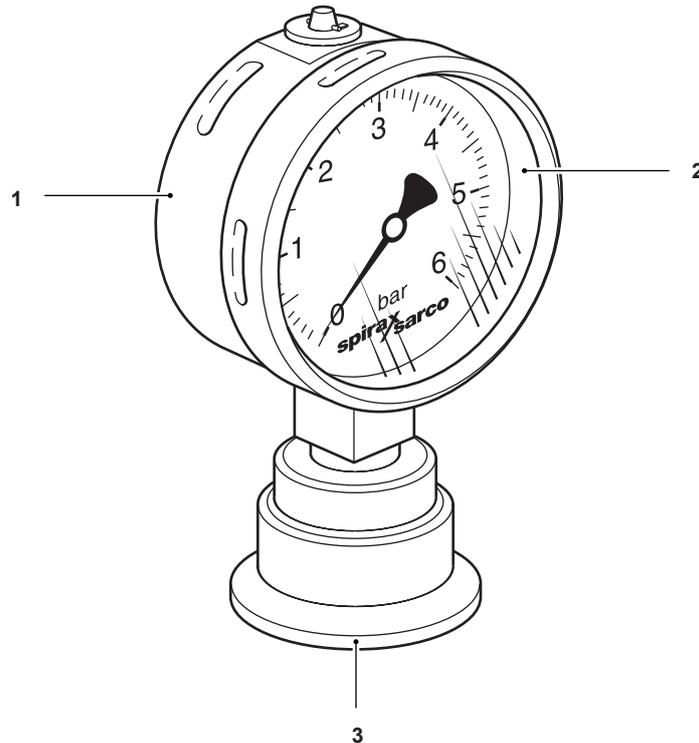
When the temperature of the pressure element rises above +20 °C add the accuracy error and when it falls below +20 °C subtract the accuracy error.

**Note:** These errors are computer generated and for guidance only.

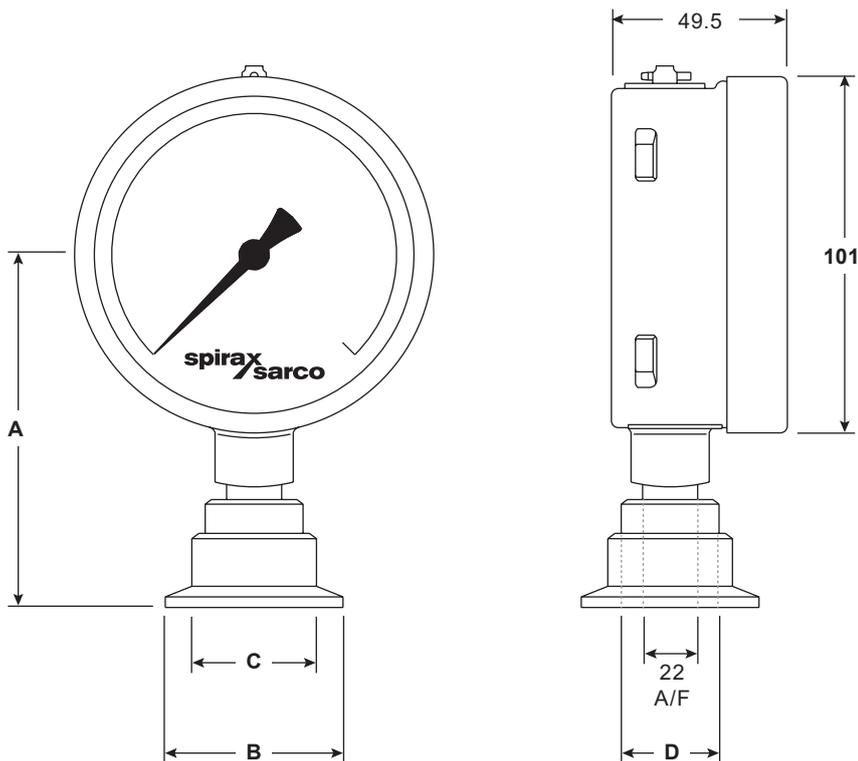
## Materials

No.	Part	Material	
1	Gauge case	Stainless steel	1.4301
2	Gauge window	Laminated safety glass	
3	Diaphragm	Stainless steel	1.4435

Diaphragm fill fluid is FDA approved and meets United States FDA regulations 21.CFR172.878 and 178.3620(a).



**Dimensions/weight** (approximate) in mm and kg



End connection size	End connection type	Dimensions (mm)				Weight (kg)
		A	B	C	D	
1"	ASME BPE - TYPE B	115	Ø50.5	Ø25.4	22	1.4
1½"	ASME BPE - TYPE B	115	Ø50.5	Ø38.1	32	1.4
2"	ASME BPE - TYPE B	118	Ø64	Ø50.8	4	1.4
2½"	ASME BPE - TYPE B	119	Ø77.5	Ø63.5	52	1.4
3"	ASME BPE - TYPE B	122	Ø91	Ø76.2	72	1.4
DN25	DIN 32676 A	115	Ø50.5	Ø29	25	1.4
DN32	DIN 32676 A	115	Ø50.5	Ø35	29	1.4
DN40	DIN 32676 A	115	Ø50.5	Ø41	32	1.4
DN50	DIN 32676 A	118	Ø64	Ø53	40	1.8
DN65	DIN 32676 A	122	Ø91	Ø70	60	1.8
DN80	DIN 32676 A	124	Ø106	Ø85	72	1.8
DN100	DIN 32676 A	125	Ø119	Ø104	90	1.8
DN26.9 (NW20)	DIN 32676 B	115	Ø50.5	Ø26.9	22	1.8
DN33.7 (NW25)	DIN 32676 B	115	Ø50.5	Ø33.7	25	1.8
DN42.4 (NW32)	DIN 32676 B	118	Ø64	Ø42.4	32	2
DN48.3 (NW40)	DIN 32676 B	118	Ø64	Ø48.3	40	2
DN60.3 (NW50)	DIN 32676 B	122	Ø77.5	Ø60.3	52	2
DN76.1 (NW65)	DIN 32676 B	123	Ø91	Ø76.1	72	2

## Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P027-10) supplied with the product.

### Installation note

It is recommended that all gauges are fitted with suitable isolation valves to allow for safe maintenance/replacement. Fittings, clamps and gaskets for pipe end connections are not supplied.

### Maintenance note

The only maintenance work necessary is regular cleaning of the Laminated safety glass. Solvents should not be used to clean the window as it may impair clarity.

### Caution

Do not over-tighten the clamp as this may cause the gasket to spread/extrude.

### Disposal

The product is recyclable. Care must be taken to ensure disposal of oil is carried out in accordance with national and local regulations regarding disposal of waste oil.

### Spare parts

No spare parts are available for the sanitary pressure gauge.

### How to order

**Example:** 1 off Spirax Sarco 1½" sanitary pressure gauge, ASME BPE - TYPE B, with a pressure range of 0 - 10 bar and having sanitary clamp connections.