



## BSP Pressure Gauge with Syphon and Cock

### Description

Pressure gauge with 100 mm diameter dial with units marked in bar, psi and inches hg for vacuum as appropriate and having a BSP connection. The gauge is supplied with either:

- Ring type syphon tube and cock or a 'U' type syphon tube and cock.

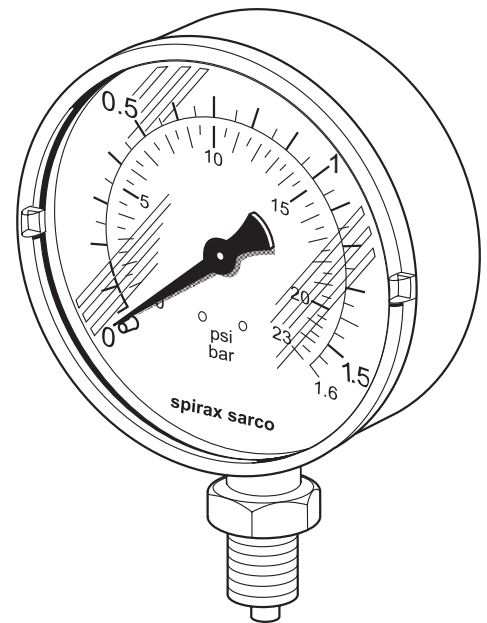
### For the following options, consult Spirax Sarco:

Pressure gauges with **NPT** connections.

### Available pressure range

<b>Steel</b>	Range	0 to 1.6 bar	0 to 23 psi
	Range*	0 to 4.0 bar	0 to 53 psi
	Range*	0 to 6.0 bar	0 to 86 psi
	Range*	0 to 10.0 bar	0 to 145 psi
	Range*	0 to 16.0 bar	0 to 230 psi
	Range*	0 to 25.0 bar	0 to 360 psi
	Range	-1 to 1.5 bar	30" Hg to 20 psi
	Range	-1 to 3.0 bar	30" Hg to 40 psi
	Range	-1 to 5.0 bar	30" Hg to 70 psi
	Range	0 to 4.0 bar	0 to 53 psi
<b>Stainless steel</b>	Range	0 to 10.0 bar	0 to 145 psi
	Range	0 to 16.0 bar	0 to 230 psi
	Range	0 to 25.0 bar	0 to 360 psi

**Note:** Where indicated (\*) a dial with MPa units is available.



### Standards

The product fully complies with the requirements of the EU Pressure Equipment Directive/UK Pressure Equipment (Safety) Regulations.

This pressure gauge conforms to:

- DIN EN 837-1:1997-02 Pressure gauges - Part 1: Bourdon tube pressure gauges; dimensions, metrology, requirements and testing, and
- DIN EN 837-1:1997-02 Pressure gauges - Part 3: Diaphragm and capsule pressure gauges; dimensions, metrology, requirements and testing

### Certification

A certificate of conformity is available as standard for this product. A calibration certificate is available by special order at extra cost.

## Sizes and pipe connections

<b>Pressure gauge</b>		3/8" BSP male	
<b>Gauge cock</b>	Gauge end	3/8" BSP female	EN ISO 228-1
	Syphon end	3/8" BSP female parallel	
<b>Ring/'U' syphon</b>	Cock end	3/8" BSP male taper	EN 10226-1
	Process end	3/8" male parallel	

## Materials

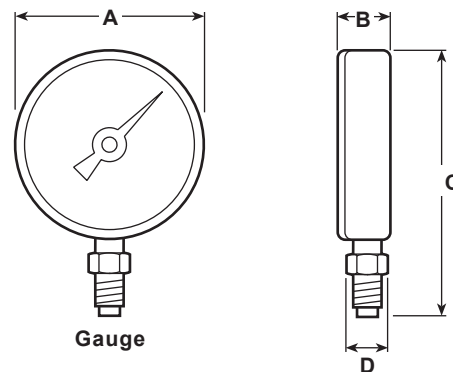
	Part	Material	
<b>Steel</b>	Case	Pressed steel	
	<b>Gauge</b>	Glass	Snap fit perspex
		Bourdon tube	CuSh 8 (92% Cu 8% Zn)
	<b>Ring and 'U' syphon</b>	Mild steel tube BS 1387 heavy grade	
	<b>Gauge cock (for use up to 16 bar g)</b>	Body	Brass
Handle		Phenolic	
	* For use on pressures above 16 bar g	3/8" M10S2 ball valve	Carbon steel
<b>Stainless steel</b>	Case	Stainless steel	
	<b>Gauge</b>	Glass	Snap-fit perspex
		Bourdon tube	Stainless steel 316TI
	<b>'U' syphon</b>		Stainless steel
	<b>Gauge cock</b>	Use a Spirax Sarco 3/8" M10S4	Stainless steel

## Pressure/temperature limits

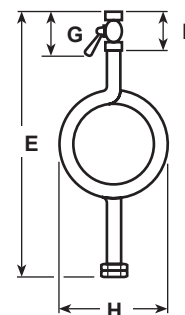
Maximum design conditions		Full scale reading		
PMA	Maximum allowable pressure	Full scale reading		
TMA	Maximum allowable temperature of gauge. <b>Note:</b> Either a 'U' or a ring syphon must be fitted to achieve this.	217 °C		
Minimum allowable temperature		-40 °C		
PMO	Maximum operating pressure <b>Please note:</b>  1. Where indicated (†) these units are available as compound gauges down to full vacuum.  2. For compressed air and steam services the maximum operating pressure for this product is 16 bar g.  3. Gauge cock limited to 16 bar g. Use M10S2 or M10S4 for higher pressures.	Range †	1.5 bar	20 psi
		Range	1.6 bar	23 psi
		Range †	3 bar	40 psi
		Range	4 bar	53 psi
		Range †	5 bar	70 psi
		Range	6 bar	86 psi
		Range	10 bar	145 psi
		Range	16 bar	230 psi
		Range	25 bar	360 psi
Maximum ambient temperature		50 °C		

## Dimensions/weights (approximate) in mm and kg

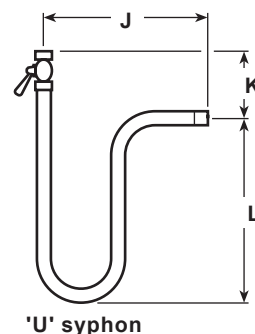
Gauge				
A	B	C	D	Weight
100	29	137	22 A/F	0.43



Ring syphon						Weight	
E	F	G	H	Syphon	Cock	M10S2 and M10S4 ball valve	
321	35	80	116	0.94	0.21	0.61	



'U' syphon					Weight	
J	K	L	Syphon	Cock	M10S2 and M10S4 ball valve	
167.5	61.5	136.5	0.59	0.21	0.61	



## Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P027-02) supplied with the product.

### Installation note:

As with all instrumentation, the Spirax Sarco pressure gauge is a delicate measuring device and care has to be taken in its installation and use if it is to remain reliable.

It is recommended that all gauges are fitted with a gauge cock to assist when calibration or maintenance is necessary. When used on steam or other hot gases, gauges must be protected from heat by the use of a 'U' syphon or ring syphon tube and gauge cock. The syphon pipe should be primed with water prior to fitting the gauge. Care should be taken if the installation is exposed to frost as gauges can burst.

### Disposal:

The product is recyclable. No ecological hazard is anticipated with the disposal of this product providing due care is taken, with the exception of PTFE (ball valves).

### PTFE:

- Can only be disposed of by approved methods, not incineration.
- Keep PTFE waste in a separate container, do not mix it with other rubbish, and consign it to a landfill site.

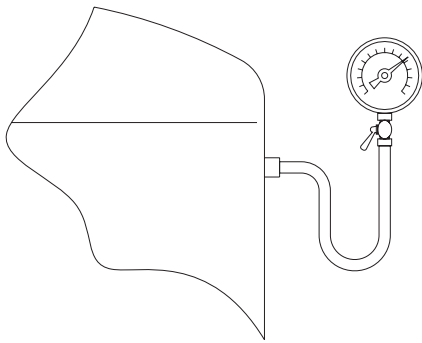
### How to order

Example: 1 off Spirax Sarco 4" pressure gauge with a pressure range of 0 - 10 bar and having screwed 3/8" BSP connections.

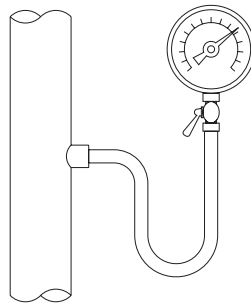
## Spare parts

There are no spare parts available for Spirax Sarco pressure gauges.

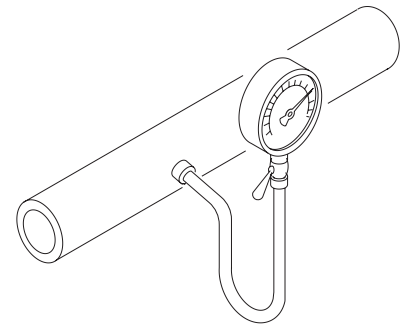
## Typical uses of a 'U' syphon and gauge



Side of vessel

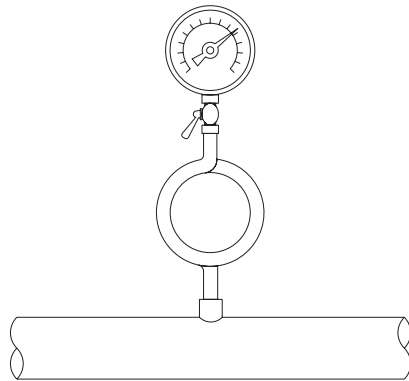


Vertical pipe

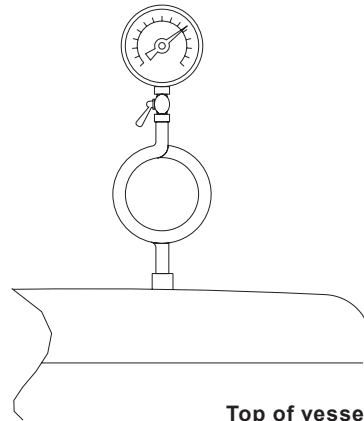


Horizontal pipe  
(where no headroom exists)

## Typical uses of a ring syphon and gauge



Horizontal pipe (where headroom allows)



Top of vessel