Pressure gauges and temperature gauges



TI-P027-01 CMGT Issue 14

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:

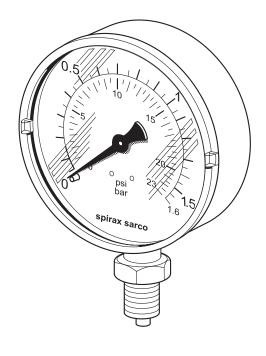
Ring type syphon tube and cock or a 'U' type syphon tube and cock.

For the following options, consult Spirax Sarco:

Pressure gauges with NPT connections.

Available pressure range

	Range	0 to 1.6 par	0 to 23 psi
	Range*	0 to 4.0 bar	0 to 53 psi
	Range*	0 to 6.0 bar	0 to 86 psi
Steel	Range*	0 to 10.0 bar	0 to 145 psi
	Range*	0 to 16.0 bar	0 to 230 psi
Note: Where indicated (*) a dial with MPa units is	Range*	0 to 25.0 bar	0 to 360 psi
available.	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
	Range	0 to 10.0 bar	0 to 145 psi
Stainless steel	Range	0 to 16.0 bar	0 to 230 psi
	Range	0 to 25.0 bar	0 to 360 psi



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,
- 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.

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Sizes and pipe connections

Pressure gauge		³⁄₅" BSP male	EN 100 220 4
Gauge cock	Gauge end	³∕₅" BSP female	EN ISO 228-1
	Syphon end	³⁄₅" BSP female parallel	
Ring/'U' syphon	Cock end	³∕₅" BSP male taper	EN 10226-1
	Process end	³⁄₅" male parallel	

Materials

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

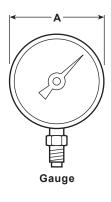
Pressure/temperature limits

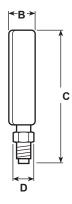
Maxim	num design conditions		Full sc	ale reading
РМА	Maximum allowable pressure		Full sc	ale reading
TMA	Maximum allowable temperature of gauge. Note: Either a 'U' or a ring syphon must be fitted to achieve this.			217 °C
Minim	um allowable temperature			-40 °C
		Range †	1.5 bar	20 psi
DMO	Martinum	Range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

Pressure gauges and temperature gauges

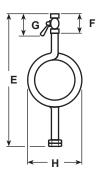
Dimensions/weights (approximate) in mm and kg

Gauge									
Α	В	С	D	Weight					
100	29	137	22 A/F	0.43					

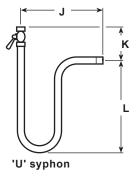




Ring syphon										
Weight										
E	F G H		l Syphon Coc		M10S2 and M10S4 ball valve					
321	35	80	116	0.94	0.21	0.61				



U' syphon									
	Weight								
J	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).

- 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.

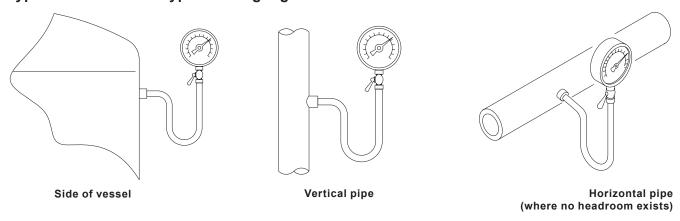
How to order

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

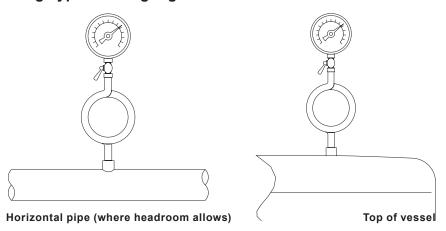
Pressure gauges and temperature gauges

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

Typical uses of a 'U' syphon and gauge



Typical uses of a ring syphon and gauge





Pressure gauges and temperature gauges



TI-P027-03 CMGT Issue 7

NPT Pressure Gauge with Syphon and Cock

Description

Pressure gauge with 4" (100 mm) diameter dial with units marked in psi and inches Hg for vacuum as appropriate. The gauge is supplied with

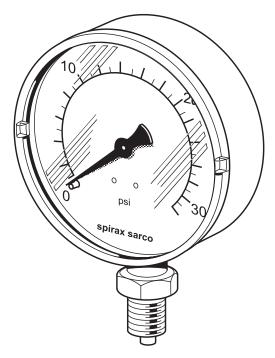
- Ring type syphon tube and cock or a 'U' type syphon tube and cock.
- Bourdon tube gauge, constructed in accordance with DIN 16005.

For the following options, consult Spirax Sarco:

Pressure gauges with BSP connections.

A dial with MPa units is available where indicated (*) in the 'Available pressure range' table below.

Available pressure range							
	Range	0 to 30 psi					
	Range *	0 to 60 psi					
	Range *	0 to 100 psi					
Steel	Range *	0 to 160 psi					
Note: Where indicated (*) a dial with MPa units is available.	Range *	0 to 300 psi					
	Range	30" Hg to 15 psi					
	Range	30" Hg to 30 psi					
	Range	30" Ha to 60 psi					



Standards

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

Certification

A certificate of conformity is available as standard for this product. A calibration certificate is available by special order at extra cost. Note: All certification/inspection requirements must be specified at the time of order placement.

Sizes and pipe connections

Pressure gauge		
Gauge cock	Gauge end	
	Syphon end	½" NPT
Ding/III overbon	Cock end	
Ring/'U' syphon	Process end	

Pressure gauges and temperature gauges

Materials

Part		Material
	Case	Pressed steel
Gauge	Glass	Snap fit perspex
	Bourdon tube	CuSh 8 (92% Cu 8% Zn)
Ring and 'U' syphon		Mild steel tube BS 1387 heavy grade
	Body	Brass
Gauge cock	Handle	Phenolic

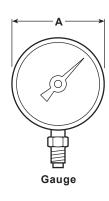
Pressure/temperature limits

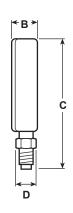
Maxim	num design conditions	Full scale	e reading			
РМА	Maximum allowable pressure	Full scale reading				
TMA	Maximum allowable temperature					
Note:	Either a 'U' or a ring syphon must be fitted to achieve this.					
Minim	um allowable temperature		-40 °C			
РМО	Maximum operating pressure	Range †	15 psi			
	Please note:	Range †	30 psi			
	 Where indicated (†) these units are available as compound gauges down to full vacuum. For compressed air and steam services the maximum operating pressure for this product is 300 psi. 	Range †	60 psi			
		Range	100 psi			
		Range	160 psi			
		Range	300 psi			
ТМО	Maximum operating temperature		50 °C			

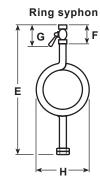
Dimensions/weights (approximate) in mm and kg

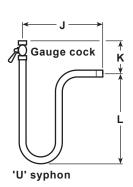
	Gauge					Ring syphon						'U' s	yphon		
					Weight							Wei	ght		
Α	В	С	D	Weight	E	F	G	Н	Syphon	Cock	J	K	L	Syphon	Cock
100	29	132	22 A/F	0.43	390	66	89	100	1.07	0.23	216	92	175	0.90	0.23

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Pressure gauges and temperature gauges

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.

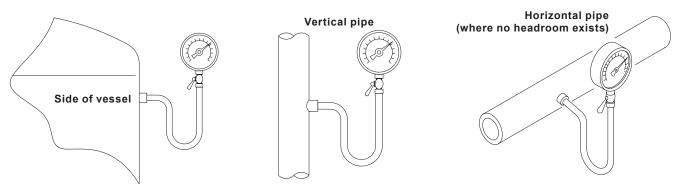
How to order

Example: 1 off Spirax Sarco ½" pressure gauge with pressure range of 0 - 160 psi and having screwed NPT connections.

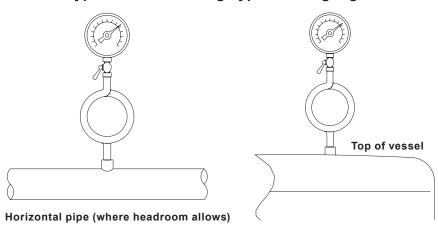
Spare parts

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

Typical uses of a 'U' syphon and gauge



Typical uses of a ring syphon and gauge



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Pressure gauges and temperature gauges

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