

FEATURES

- Back entry analogue positive pressure gauge
- Pressure measurement range of 0 bar to 6 bar
- Dual-scale gauge with measurements in bar and PSI
- Outside gauge diameter of 40 mm
- Connection size of R 1/8
- Best accuracy of ± 1.6%
- Case made of plastic
- Minimum operating temperature of -40°C
- Maximum operating temperature of +60°C
- Reliable and costeffective
- Design per EN 837-1
- Nominal size 40, 50, 63, 80 and 100
- Scale ranges up to 0 ... 400 bar

RS PRO Back Entry Pressure Gauge 6bar

RS Stock No.: 405-5537



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.



Product Description

This analogue positive pressure gauge from the RS PRO range is a precise and reliable solution for checking the pressure of liquids or gases. It offers measurements with a best accuracy of \pm 1.6%.

This pressure gauge makes use of a Bourdon tube system, measuring pressure through the deformation of an internal coil made of a copper alloy. This means that it has no electrical components and requires very little maintenance. It's a highly versatile instrument that can operate effectively at temperatures ranging from -40°C to +60°C. It can measure pressures between 0 bar and 6 bar with the option to display measurements in PSI. Its plastic case makes it lightweight and easily portable.

General Specifications

Pressure Gauge Type	Back Entry		
Minimum Pressure Measurement	0bar		
Maximum Pressure Measurement	6bar		
Pressure Unit	bar		
Connection Size	R 1/8		
Connection Location	Rear		
Case Material	Plastic		
Pointer	Plastic, black		
Window	Plastic, crystal-clear, snap-fitted in case		
Dial	Plastic, white, with pointer stop pin		
Best Accuracy	±1.6% (2.5 Class)		
Colour	Black		
Applications	For gaseous and liquid media that are not highly viscous or crystallising and will not attack copper alloy parts, Pneumatics, Heating and air-conditioning technology, Small-capacity compressors, Medical engineering		

Mechanical Specifications

Gauge Outside Diameter	40mm
Weight	0.06kg



Operation Environment Specifications

Minimum Operating Temperature	-40°C
Maximum Operating Temperature	+60°C





Analogue Positive Pressure Gauges



Standard version

Process connection

Copper alloy,

centre back mount (CBM)

NS 40: G 1/8 B (male), 14 mm flats NS 50, 63: G 1/4 B (male), 14 mm flats NS 80, 100: G 1/4 B (male), 14 mm flats

Pressure element

Copper alloy, ≤ 60 bar: C-type > 60 bar: Helical type

Movement

Copper alloy

Dial

NS 40, 50, 63: Plastic, white, with pointer stop pin NS 80, 100: Aluminium, white, with pointer stop pin Black lettering

Pointer

Plastic, black

Case

Plastic, black NS 100: Steel, black

Window

Plastic, crystal-clear, snap-fitted in case

Options

- Other process connection
- Accuracy class 1.6
- Case steel, black
- Triangular bezel with mounting bracket

Special versions

For closed heating systems

NS 63, 80

with red mark pointer and adjustable green sector, scale range $0 \dots 4$ bar, red mark at 2.5 or 3 bar

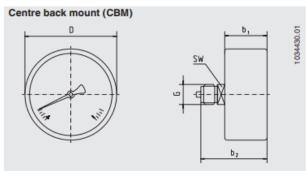
For water-level indication (hydrometer)

NS 80

Scale ranges 0 ... 0.6 to 0 ... 40 bar, with second scale in mWS

Dimensions in mm

Standard version



NS	Dimensio	Dimensions in mm					
	b ₁ ±0.5	b ₂ ±1	D	G	SW		
40	26	42	39	G 1/8 B	14	0.06	
50	29.5	47.5	49	G 1/4 B	14	0.07	
63	29	47	62	G 1/4 B	14	0.08	
80	32	49	79	G 1/4 B	14	0.11	
100	31	49	99	G 1/4 B	14	0.26	

Process connection per EN 837-1 / 7.3

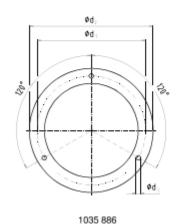
Analogue Positive Pressure Gauges



3-hole panel or surface mounting flanges for round case gauges

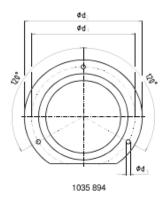
Not applicable for gauges with electrical accessories

3-hole panel mounting flange 1)

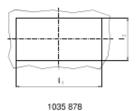


1035 886

3-hole panel mounting flange 2)



Panel cut-out dimensions per DIN 43 700 for square and edgewise panel mounting gauges



Narrow rim bezel with clamp 1)



		Dimensions [mm]					
Size			d ₃ d ₄ max.	Panel cut-out to suit back entry gauges			
	d ₁	d ₂ d ₃		3-hole mounting	Clamp mounting		
40	51	61	3.6	44	44 ± 0.3	41.5 + 0.5	
50	60	71	3.6	55,5	54 ± 0.3	51 ± 0.5	
63	75	85	3.6	69	67 ± 0.3	64.5 + 0.5	
80	95	110	4.8	88	84 ± 0.3	82 ± 1	
100	116	132	4.8	108	104 ± 0.5	102 + 1	
160	178	196	5.8	168	164 ± 0.5	162 + 1	
250	270	285	5.8	-	254 ± 0.5	-	

2) Some gauges may feature lugs instead of a full size rim.

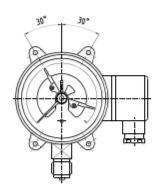
	Dimensions [mm]			
Sino	I ₁		I ₂	
Size		Tolerance + 0		Tolerance + 0
48 x 24	45	+ 0.6	22.2	+ 0.3
72 x 36	68	+ 0.7	33	+ 0.6
72 x 72	68	+ 0.7	68	+ 0.7
96 x 96	92	+ 0.8	92	+ 0.8
144 x 144	138	+ 1.0	138	+ 1.0
144 x 72	138	+ 1.0	68	+ 0.7

Analogue Positive Pressure Gauges

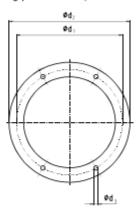


3-hole panel mounting flange Round case gauges with electrical accessories

Mounting lugs at case of gauge (holding gauge in panel)



Outer panel ring (covering panel cut-out)



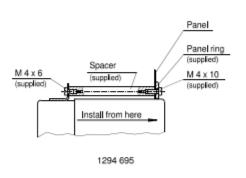
1	2	94	6	8	ī

Size	Dimensions [mm]				
Size	d ₁	d ₂	d_3	Panel cut-out Ø	
100	116	132	4.8	105	
160	178	196	5.8 ¹⁾	165	

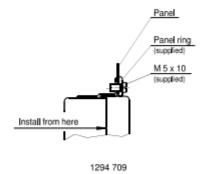
¹⁾ Mounting lugs with internal thread M 5.

Panel assembly for gauges with inbuilt electrical accessories

100 mm diameter



160 mm diameter



The assembly consists of Outer panel ring 4 spacers 8 screws M 4 The assembly consists of Outer panel ring 4 spacers Additionally required 4 screws M 5 x 10

Note: In addition to this data sheet, mounting drawings referring to the respective models can be supplied.

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.