

Hydraulic and
Electronic Devices
Special Plug Connections

Piston-Spring Manometer PSG Heavy Duty Technical Specifications



General Information

While most generic manometers typically fail after a short time due to vibrations or overload, the PSG Manometer outlasts even under the toughest conditions.

- ⚡ Overpressure safety: Mechanical stop at maximum value.
- ⚡ PSG Manometers are particularly suited for functional heavy-duty applications, less for sensitive pressure measurements
- ⚡ For measurement locations under robust conditions

Special Features

- ⚡ Pressure condition visible from 4 sides
- ⚡ Extremely robust
- ⚡ For non-high viscous and non-crystallizing substances
- ⚡ Overload-proof
- ⚡ High vibration- and shock resistance
- ⚡ Nominal range 0 to 630 bar
- ⚡ Scale with pressure specifications in bar and psi
- ⚡ Decades-long proven principle





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Safety Plus

- ⚡ Threaded cover with dual fence.
- ⚡ New connection technology between housing and connection thread. No safety-critical opening of the PSG Manometer at disassembly. Constructively, the complete casing stays rotatable for 360° even under pressure and allows for tool-free alignment for an optimal viewing angle.

Technical Specifications

- ⚡ Anodised aluminium housing for higher resistance. Laser cut scale for accurate reading.
Throttle bore \varnothing 0,6 mm plus damping
- ⚡ Process-fitting G 1/2", SW27, brass
- ⚡ Indication accuracy approx. $\pm 5\%$ (for 10 to 100 % of the display range)
- ⚡ Hydraulic contact components
- ⚡ Piston (stainless steel), base body (brass) and rod seal
- ⚡ Rod seal NBR-70 (standard) or FKM-70
- ⚡ Permissible temperatures - 20 °C ... + 90 °C (Standard)
- ⚡ Viewing panel polycarbonat
- ⚡ Hydraulic fluids on mineral oil basis, flame retardant hydraulic fluids, environmentally friendly hydraulic fluids. Additional pressure media available on request.
- ⚡ Weight approx. 0,5 kg

Display range for positive pressure

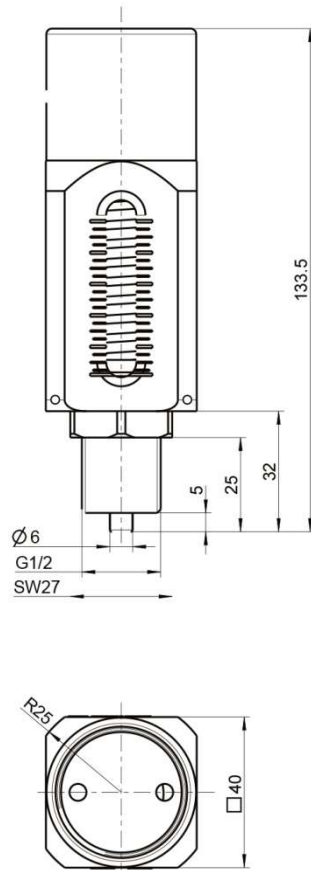
⚡ Pressure area	⚡ Piston- \varnothing	⚡ Maximum pressure
0 – 100 bar	6 mm	350 bar
0 – 160 bar	5 mm	400 bar
0 – 200 bar	5 mm	400 bar
0 – 250 bar	4 mm	600 bar
0 – 315 bar	4 mm	600 bar
0 – 400 bar	3 mm	800 bar
0 – 630 bar	3 mm	800 bar



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Scale dimensions 1:2





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Order Information

Basic type PSG Heavy Duty
Piston Spring Gauge Heavy Duty

PSG Heavy Duty

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1.

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2.

1. Display range:

Pressure range	Maximum pressure
0 – 100 bar	$P_{\max} = 350$ bar
0 – 160 bar	$P_{\max} = 400$ bar
0 – 200 bar	$P_{\max} = 400$ bar
0 – 250 bar	$P_{\max} = 600$ bar
0 – 315 bar	$P_{\max} = 600$ bar
0 – 400 bar	$P_{\max} = 800$ bar
0 – 630 bar	$P_{\max} = 800$ bar

2. Customization:

None	=	Basic version
S	=	FKM seal
H ₂ O*	=	Operating medium water

Different combinations are possible, details are separated through forward slash.

* When using water as the medium, grease buffer is necessary (shorter life span) – it is best to use a diaphragm seal, which is connected in advance!

