

MEGASOL PCV

DATA SHEET

Description

The prechamber valve MEGASOL PCV (Metering of Gas by Solenoid) is an electrically actuated gas valve for gas injection into a prechamber. MEGASOL PCV ensures proper gas quantity for each cylinder and allows gas flow compensation cylinder to cylinder. Each cylinder requires one MEGASOL PCV.

MEGASOL PCV is capable to work with higher pressure drop between air and gas due to its state of the art flow dynamic design. Therefore, the gas pressure has nearly no effect on opening and closing duration and there is no delay due to it. Additionally the directly acting system enables short response times. Specially designed seat and sealing offers extremely low leakage when closed. A robust heavy duty construction only requires few components and improves lifetime. Simple connection technology by bayonet nut connector makes mounting and replacement a lot easier.

MEGASOL PCV is available either with industrial connector or alternatively with cable.



Features

Reliable even at high switching frequencies

Safe operation at high ambient temperatures

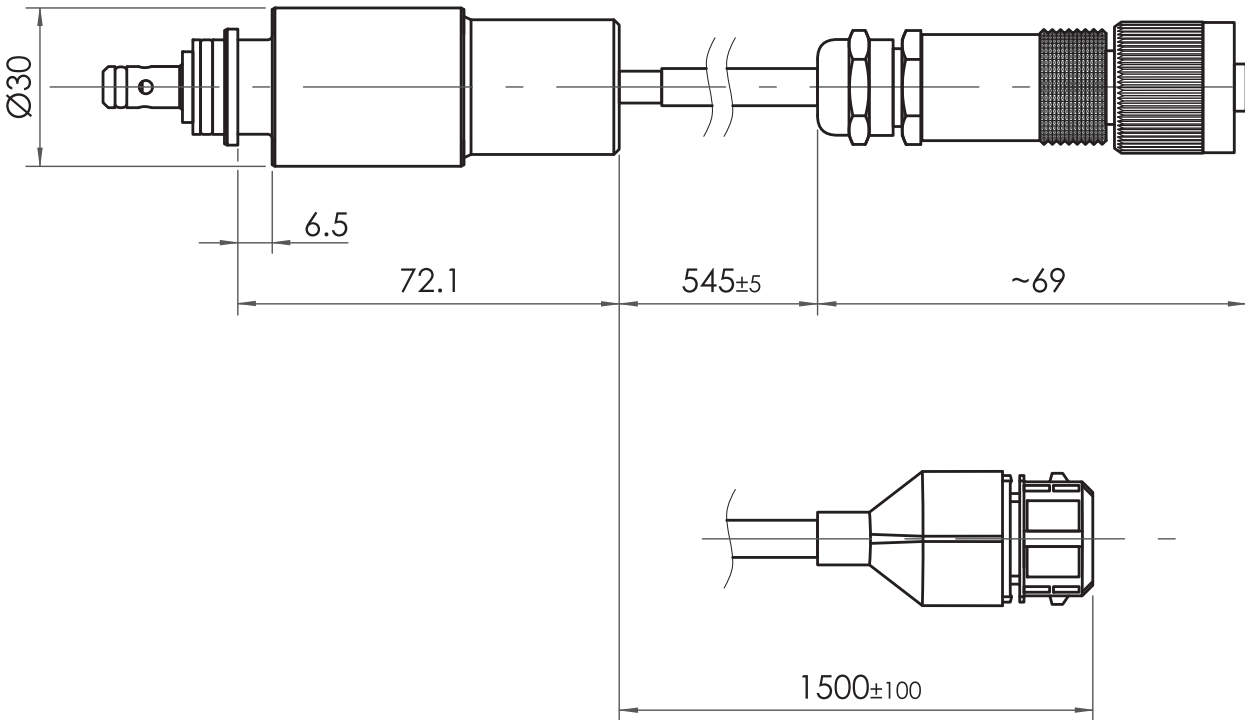
Durable operation under heavy vibrations

Short response time, very fast opening and closing

Only minimal opening delay generated by gas pressure

Very low leakage when closed

Dimensions



Technical data

Response time to open fully after signal on	≤ 3 ms
Response time to close fully after signal on	≤ 3 ms
Internal leakage when closed	< 0.11 % of fully opened valve
Max. gas supply pressure p1	5 bar
Max. air pressure p2	$p2 < p1$
Max. differential pressure p1 - p2	4 bar
Operating differential pressure	0 ... 4 bar
Flow rate (Z-Value)	0.54
Supply voltage	24 VDC +10 ... 15 %, 40 W
Operating temperature	-20 ... 60 (100) °C

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