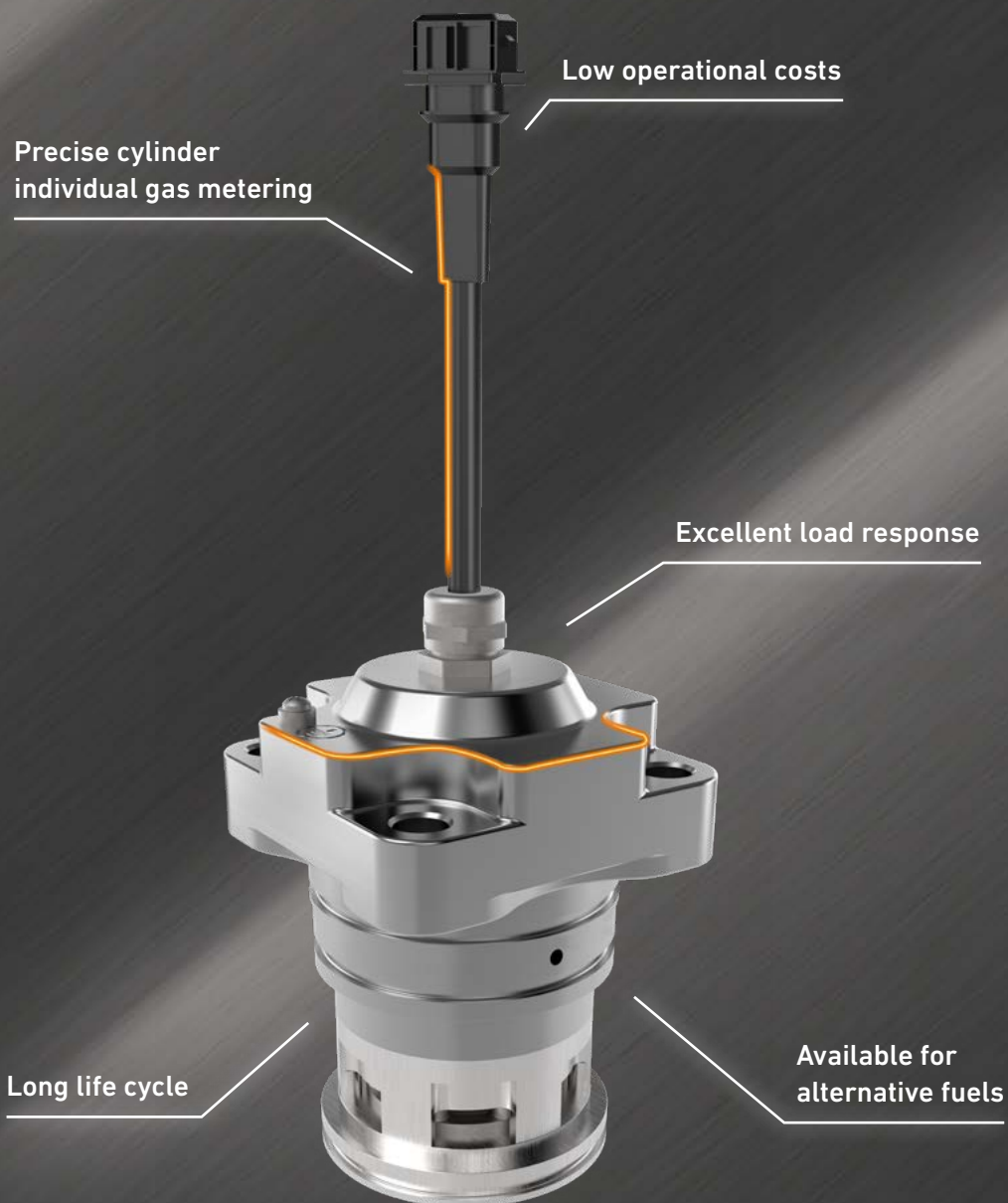


For Gas & Dual-Fuel Engines

MEGASOL D-SERIES

Gas Admission Valves



MEGASOL D-SERIES

Gas Admission Valves

The MEGASOL D-series is an electronically controlled gas admission valve introduced by HEINZMANN, specifically engineered for industrial turbocharged four-stroke gas engines and dual-fuel engines.

Gas is supplied to each engine cylinder's intake manifold via the individually controlled gas injection valve. Combined with HEINZMANN's DARDANOS series MVC controller, the valve provides precise gas metering per cylinder and enables single-cylinder adjustment throughout the entire engine operating range.

The valves of D-series are suitable for new engines, retrofit projects and drop-in replacements. Their compact design conforms to modern gas or dual-fuel engine requirements.

The MEGASOL D-series features a low leakage rate, high reliability, and extended maintenance intervals.

BENEFITS

- ▶ Precise cylinder individual gas metering
- ▶ Fast response
- ▶ Very low leakage
- ▶ Excellent load response of the engine
- ▶ Suitable for engine development and retrofit applications
- ▶ Compact design for embedded installation
- ▶ Outstanding long service life

APPLICATIONS

On industrial four-stroke engines

- ▶ Gas Engines
- ▶ Dual-Fuel Engines
- ▶ For stationary and mobile applications (Genset, Marine, Locomotive, Construction Machinery)



- ▶ Installation on intake manifold
- ▶ Corrosion proof versions available
- ▶ Versions for alternative fuels on request
- ▶ Wide range of engine output from 50 up to 650 kW per cylinder depending on fuel type and pressure range

HEINZMANN –
Expert for Gas Engine Management

MEGASOL D-SERIES

D200 / D260 / D300

PRODUCT FEATURES

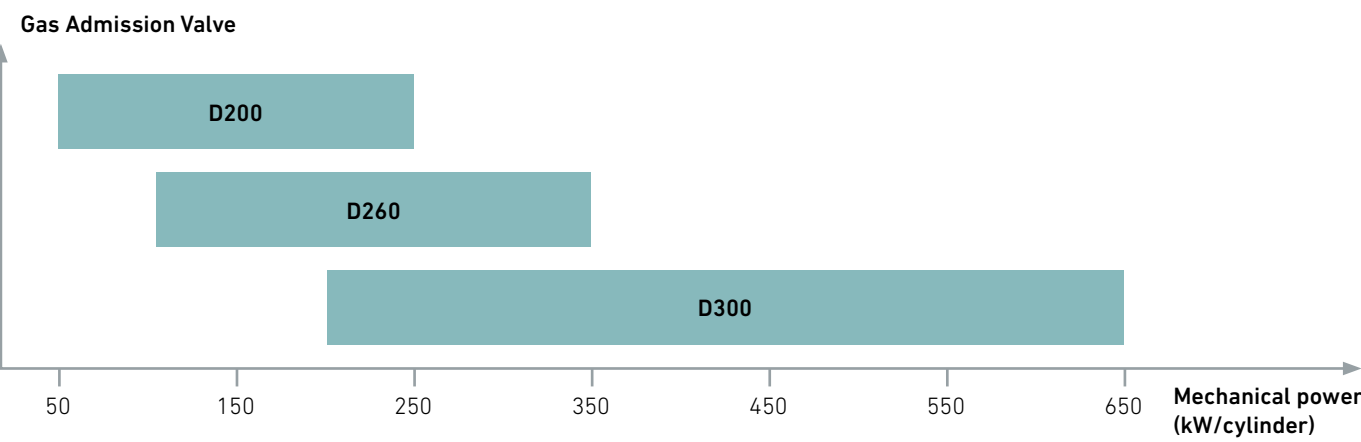
- Embedded installation compatible with various intake manifold designs
- Available in multiple models to meet different engine flow requirements
- Integrated filter screen
- Compact design
- Corrosion-resistant, suitable for various gaseous fuels



TECHNICAL DATA

MEGASOL	D200	D260	D300
Voltage supply	90 VDC ... 110 VDC		
Response time to fully open	< 3 ms		
Response time to fully closed	< 2 ms		
Pick current	15 A ... 20 A		
Hold current	8 A ... 10 A		
Operating temperature	-20 °C ... +105 °C		
Max. pressure gas supply	8 bar		
Max. pressure air supply	6 bar		
Max. differential pressure supply	2.5 bar		
Internal leakage (Δp = 1 bar / 20 °C)	< 0.25 % of steady flow rate		
Integrated filter	150 mesh		
Max. backfire pressure peak	0.5 bar		
Max. temperature gas supply	80 °C		
Required air and gas filtration	5 μm		

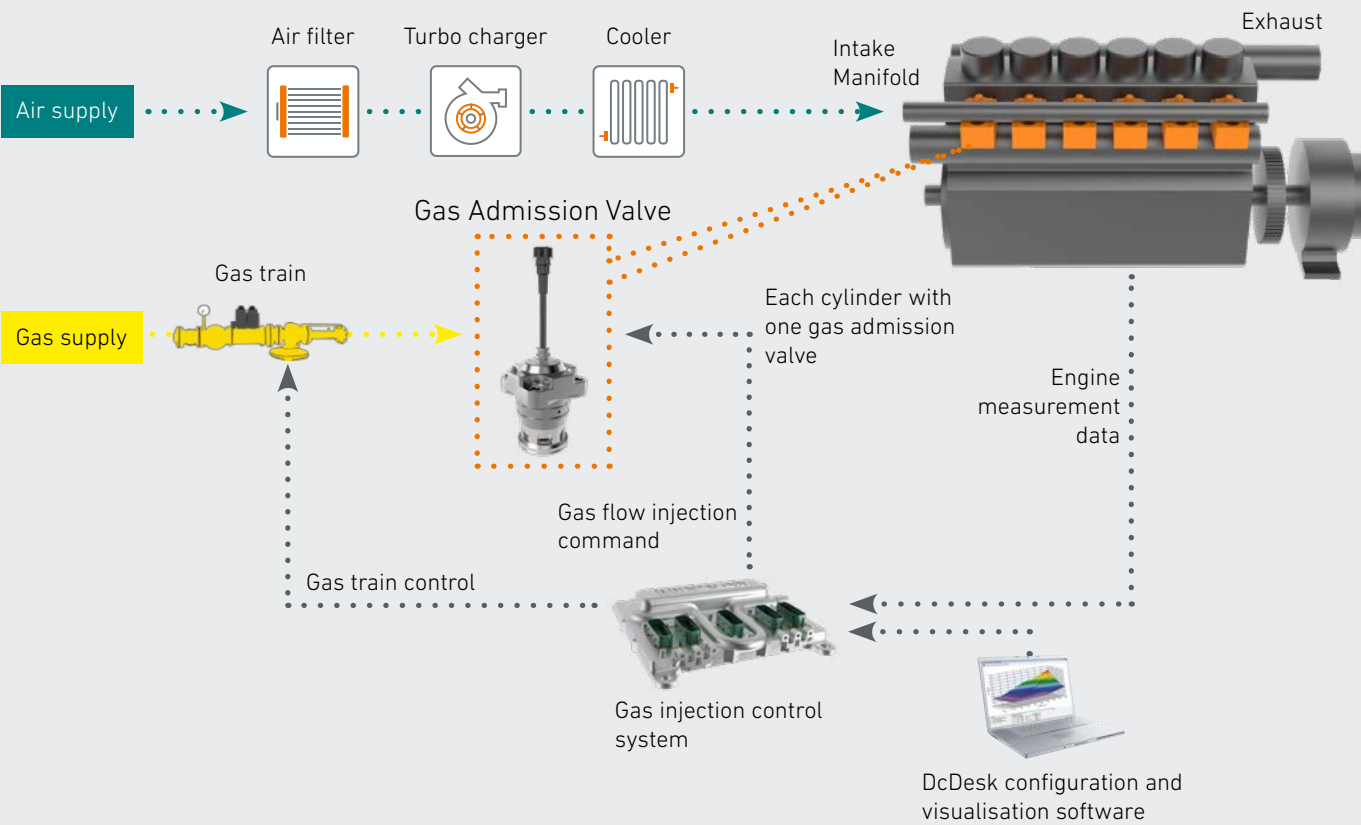
POWER RANGE OF MEGASOL D VALVES

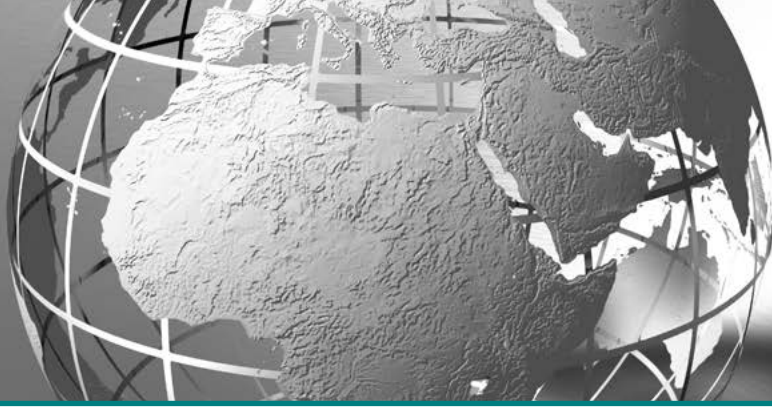


PRINCIPLE OF INSTALLATION

MEGASOL D valves are one component of a complete HEINZMANN gas admission system which consists of:

- Engine control unit (HEINZMANN DARDANOS series of electronic fuel injection control units)
- Sensors (speed, load, pressure, temperature etc.) and cables
- One MEGASOL D valve for each cylinder
- Other governors available on request





HEINZMANN GROUP – THINKING IN DRIVE AND CONTROL

HEINZMANN is a globally active family business founded in 1897 with its headquarters in Schönaue (Germany), in the Black Forest.

Today, in the field of engine management HEINZMANN is one of the leading suppliers of components and systems for industrial combustion engines, generators and turbines. As a specialist and development partner, HEINZMANN is committed to developing exactly the right solution for increasing efficiency and reducing emissions.

In the Electric Drives division, HEINZMANN also demonstrates innovative strength and development expertise in engine technologies of the future. The company has established itself as a reliable partner and system provider for electric drive systems.

Our collaborative interaction with more than 40 globally active subsidiaries and sales companies characterizes the spirit within the HEINZMANN group of companies and makes us a reliable partner.

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