

EGR-PV 45

DATA SHEET

Description

Emissions regulations are becoming more stringent, requiring sophisticated aftertreatment systems for exhaust gases as well as improved internal combustion and engine management. HEINZMANN's APOLLON System reduces engine emissions. Exhaust Gas Recirculation (EGR) minimises the formation of nitrogen oxides (NO_x) when fuel is burned in internal combustion engines. HEINZMANN offers customised EGR solutions.

The APOLLON EGR-PV 45 valve provides exhaust gas metering by using a pressure compensated double seat. The valve is controlled by a compact high-performance actuator. The required valve position is achieved using a PWM current. Positional feedback is provided by a position sensor, which can also be used for diagnostic purposes. The design of the valves provides force compensation, making them largely insensitive to pulsations in the exhaust flow.



Features

Fast response time

Steady-state and dynamic control modes

Low leakage

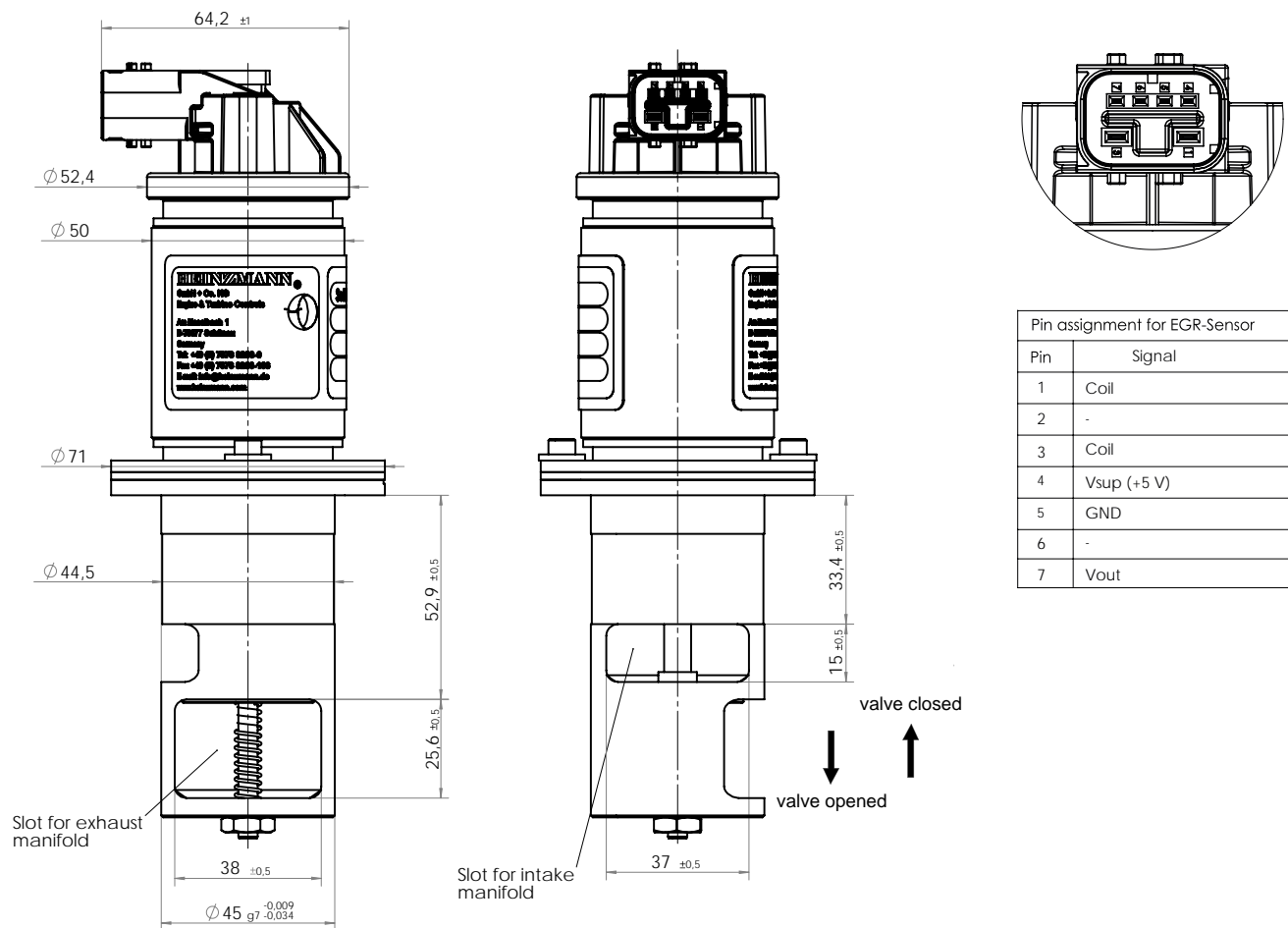
Robust and durable

Simple system integration

Applications

- On-road and off-road vehicles
- Industrial and stationary applications
- Locomotives
- Gensets

Dimensions



Technical data

Power range of diesel engine	500 kW
Flow rate at 100 mbar	315 kg/h
Minimum flow area	970 mm ²
Maximum stroke	5.4 mm
Maximum opening force	40 N
Valve diameter	45 mm
Operating temperature	-40 °C up to +150 °C
Maximum current draw	3.5 A
Opening/closing response	80 ms
Power supply	24 VDC
Position feedback	0.7 ... 4.5 V
Weight	1.3 kg

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