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ПРЕДОХРАНИТЕЛЬНЫЕ КЛАПАНЫ

Технические характеристики на

NON 750



New Product Highlight:

Shut Off Valve HON750

In addition to a number of new gas pressure regulating products for the gas distribution industry, Honeywell has now also launched a new product in its OEM Division. The new HON750 shut off valve rounds off what is already a wide range of products for the gas engine industry.



The use of natural gas or LNG as a fuel to generate energy makes for a permanent reduction in CO₂ and nitric oxides in internal combustion engines and therefore ensures even greener combustion processes. This is used in combustion gas engine power plants. Other gases such as sewage gas, mine gas, biogas, propane, butane and LCV gases can also be used for these machines, however. This means that it is also possible to save primary energy sources through their use. Fuel gases for use in these engines first undergo a gas assessment. On the basis of their methane number, it is possible to establish which additives are required to make a gas which contains methane suitable as a fuel for a gas engine. It is not just the methane number which is decisive in providing the correct fuel mixture for the gas engine, however, as the pressure and flow rate of the fuel gas are also very important.

Therefore, the gas control section upstream of every gas engine is used, on the one hand, to ensure the perfect gas pressure and, on the other, to satisfy all the safety requirements. Essentially, a gas control section comprises the following components (Fig. 1): Manual ball valve, gas filter, flow meter, gas pressure regulator, pressure sensors and indicators, shut off valve combination HON750.

This shut off valve combination interrupts the gas supply to the engine if the engine control unit so requires. It is also necessary to close the gas supply safely within a certain time in the event of danger. The shut off valve HON750 ensures that this is done.

As with all new developments, the customer benefit as compared to existing solutions is our primary concern. What are the product

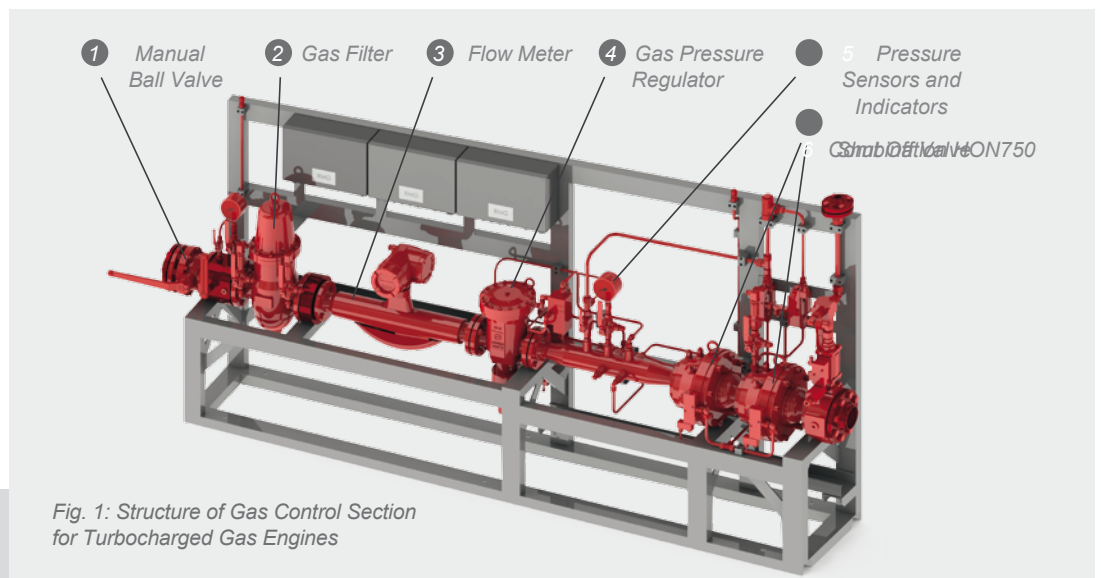


Fig. 1: Structure of Gas Control Section for Turbocharged Gas Engines

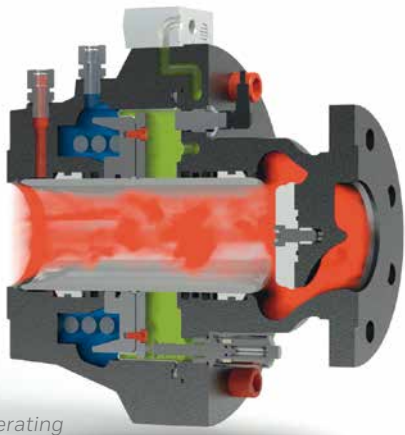


Fig. 3: Operating Principle of the HON750

Main Features of the HON750

Nominal size	DN 25, 50, 80
Flow coefficient in m ³ (h·bar)	550, 2200, 5600
Max. operating pressure	40 bar
Control	Compressed air up to 8 bar
Design	Axial, fail-close
Position indicator	Inductive limit switches and visual indicator

properties which enable the operator to improve processes, reduce purchase costs but also minimize operating expenses.

The shut off valve HON750 was developed on the basis of this guideline. From a technical point of view, it is able to replace electro-pneumatic valves which are used as safety devices in control sections for gas engines. It delivers a whole host of benefits as a result of its design. Unlike conventional electro-pneumatic solenoid valves, the gas flow is not diverted in the housing but passes through the housing in a straight line which reduces pressure loss and

increases the flow rate. As a result of this higher flow rate, it is possible to reduce the nominal size of the complete system which results in a significant reduction in cost and also reduced space requirement. This benefit is particularly felt in maritime applications since every cubic meter of additional space is valuable. The compact design of the HON750 also means that a space-saving enclosure for the complete control section can be used so that the potentially explosive atmosphere around the control section can be restricted and additional space gained (Fig. 2).

The essentially perfect weight distribution of the device around the center of the pipe axis reduces its susceptibility to vibrations and oscillations and thus increases the reliability and safety of the entire system (Fig. 3).

The shut off valve is actuated by a 3/2-way valve which closes the stainless steel sleeve in less than 0.5 seconds using a diaphragm actuator. It holds all the necessary land and maritime approvals under DNV GL, ABS, BV and LR as well as a SIL 3 and PED approval.

Endurance tests in both internal and external test laboratories and field tests with one of the largest gas engine manufacturers in the world have confirmed the benefits of our products compared to conventional safety valves and certified both the high level of reliability and long service life of the valves.



Fig. 2: Shut Off Valves HON750 in Ship Control Section in a Gas-tight Enclosure

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