Honeywell | Connected Industrial

HON 750
SAFETY SHUT-OFF VALVE

Proven Technology. Superior Performance.

Optimisation of processes

Process optimisation plays an increasingly important role in today's gas industry. Safety valves must reliably meet requirements for longer uptime with reduced maintenance work in order to reduce operating costs.

Honeywell has developed an advanced safety valve with an axial flow path for high capacities based on several decades of experience in regulating and safety technology.

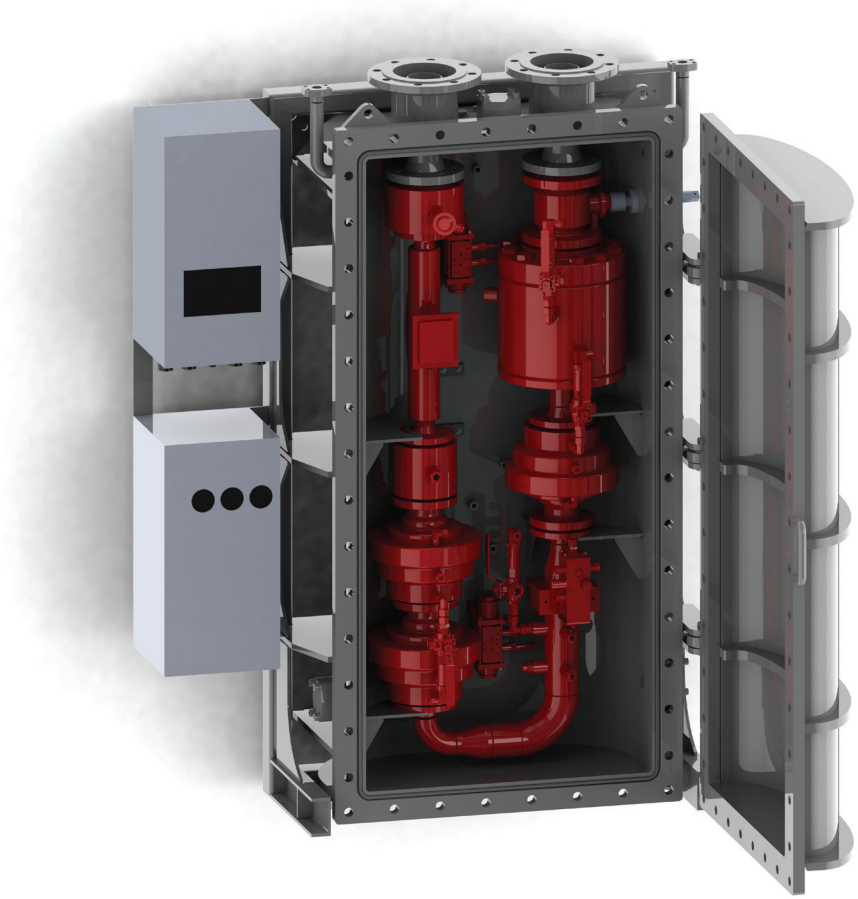
This compact device is the ideal solution for all gas engine applications and especially for maritime engines for which long maintenance intervals and high reliability are top priorities.

Applications

- Safety valve in applications for gas engines and other natural gas applications
- Applicable for gases in accordance with G 260 and all non-corrosive gases

Characteristics

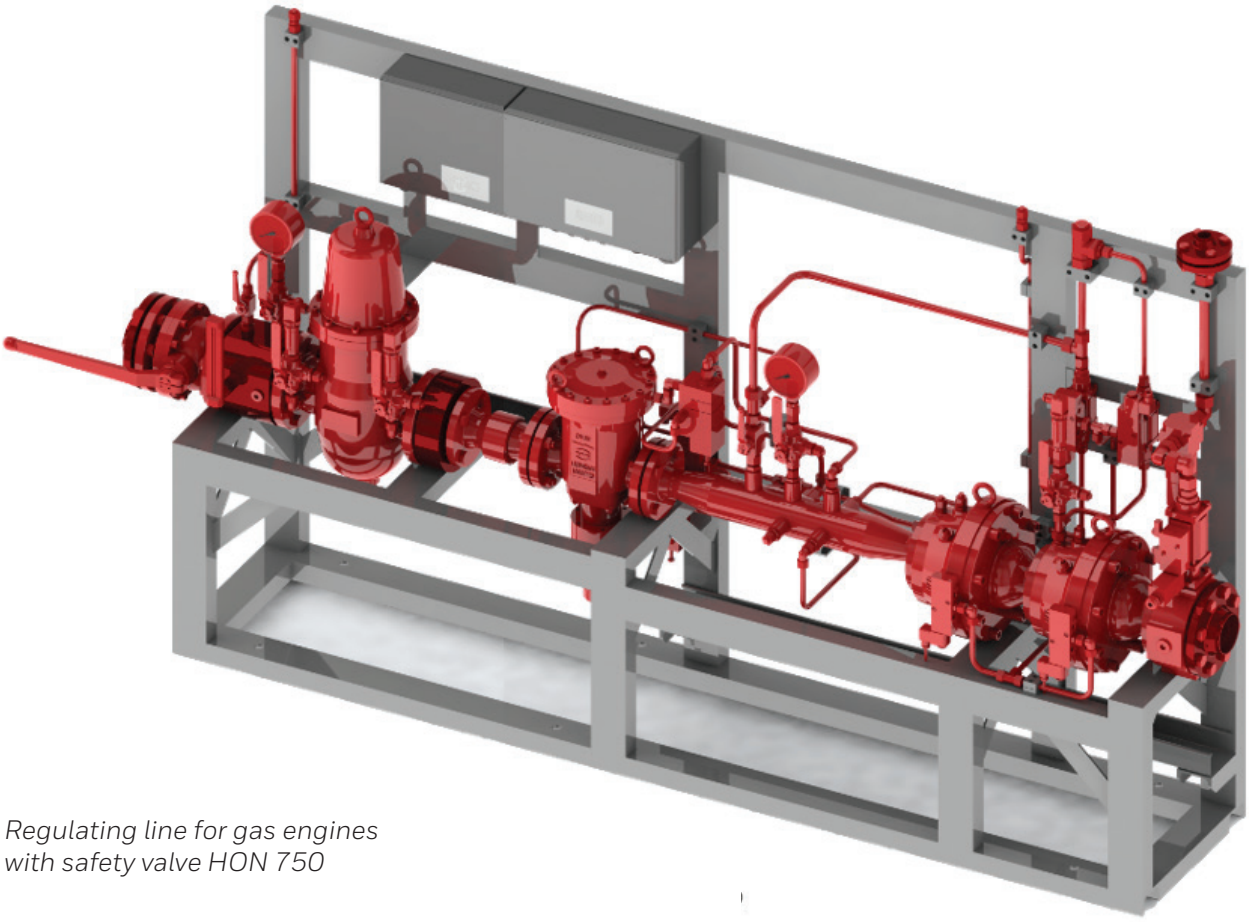
- Low pressure loss thanks to axial flow path
- Short closing time
- Low susceptibility to vibrations due to beneficial centre of gravity (even distribution of mass around the pipeline centre axis)
- Low-wear design - stainless steel sleeve
- High flow performance with axial design
- Non-return protection up to Δp= 40 bar
- Maintenance-friendly with compact design and reduced number of wear parts
- High flow speeds of up to 100m/sec possible
- Increased safety with ‘fail-close’ design
- Optional OPEN/CLOSED position indicator with inductive end position switch
- Optical position indicator as standard
- Rapid triggering in case of loss of auxiliary power



HON 750 Safety shut-off valve in Regulating line for maritime applications in pressure-resistant housing

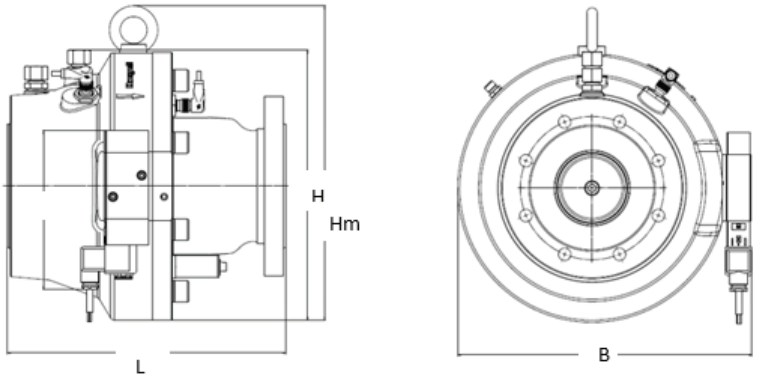
TECHNICAL DATA		
Maximum operating pressure Psmax	40 bar (depending on flange version)	
Connection type	Flanges according to DIN EN 1092 PN 16, PN 40 or flanges according to DIN EN 1759 Class 150 RF	
Material	Seals/diaphragm	NBR
	Inlet housing	Steel
	Outlet housing	Steel or stainless steel
	Sleeve	Stainless steel
Temperature range	According to PED Class 2 -20°C to 60°C / according to DNV GL 0°C to 55°C	
Control	Solenoid control valve – compressed air up to 8 bar	
Closing time	< 0,5 sec	
Explosion protection	Zone I	
Degree of protection	IP 65	
Approvals	*Certified according to*	*Certification type*
	CE PED DVGW	Land version
	DNV GL	Maritime approval
	ABS	Maritime approval
	BV	Maritime approval
	LR	Maritime approval
	SIL 3	Functional safety
Standards	*according to*	
	• DIN EN 16678	
	• DIN EN 161	
	• DIN EN 13611	
	• DIN EN 334	
Pressure drop Δp*	Pipe size DN	KG value in $m^3/(h \cdot bar)$
$\Delta p \approx \frac{Q_n^2}{p_u \cdot K_G^2}$	1" (DN 25)	550
	2" (DN 50)	2200
	3" (DN 80)	5600

*) The pressures are to be entered in proximity formulae as absolute pressures.

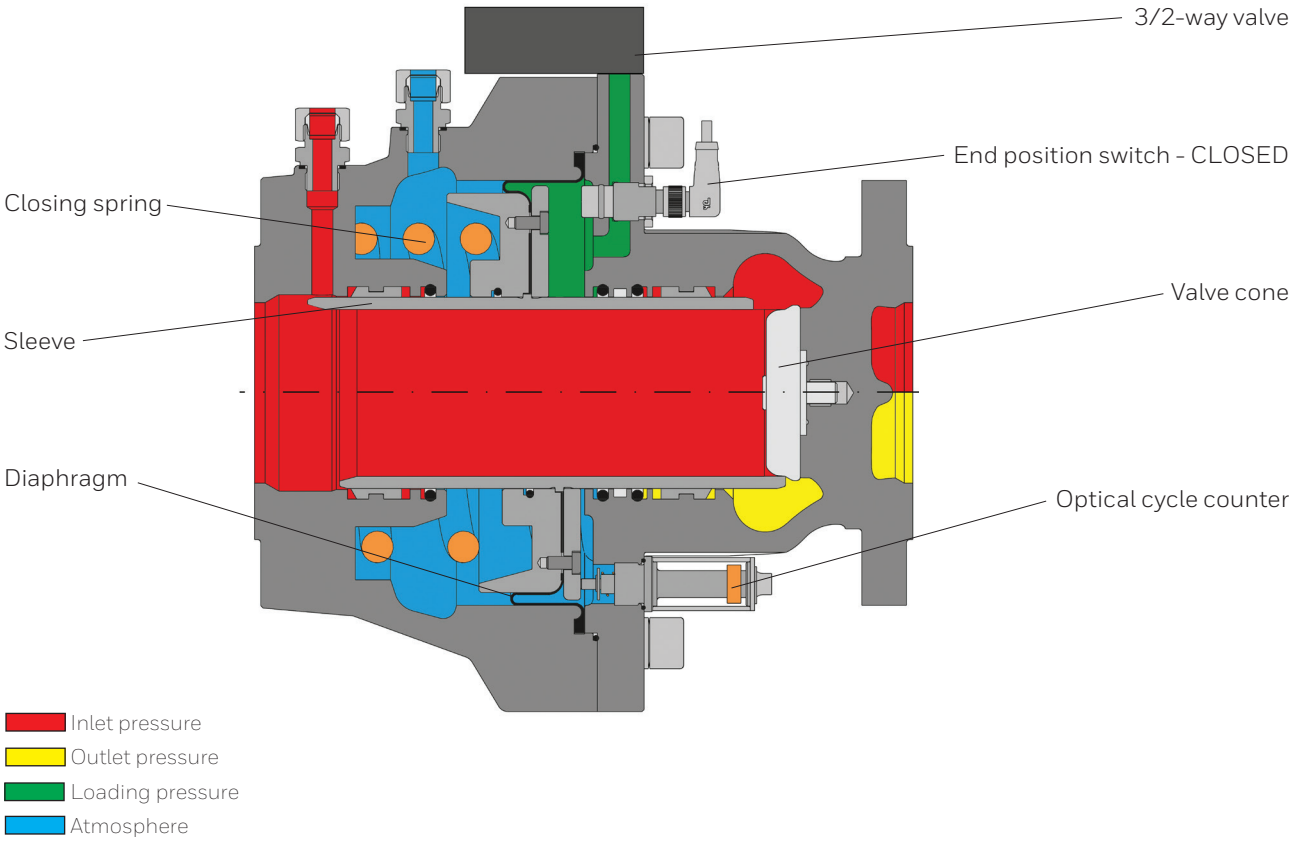


Regulating line for gas engines with safety valve HON 750

DIMENSIONS AND WEIGHTS						
Pipe size	Weight in kg (lbs)	Dimensions in mm (inch)				
		Length L	Height H	Width B	Max. height Hm	Solenoid control valve length LM
1" (DN 25)	ca. 25 (55)	200 (7,87)	230 (9,06)	250 (9,84)	275 (10,83)	180 (7,09)
2" (DN 50)	ca. 56 (123)	270 (10,63)	305 (12,01)	330 (12,99)	355 (13,98)	
3" (DN 80)	ca. 66 (145)	310 (12,2)	305 (12,01)	330 (12,99)	355 (13,98)	



Construction and mode of operation



More information

You want to know more about
the solutions Honeywell can
offer to the gas industry?
Talk to your local contact.
Or visit our website
www.honeywellprocess.com

Honeywell Process Solutions

Honeywell Gas Technologies GmbH
Osterholzstrasse 45
34123 Kassel, Germany
Tel: +49 (0)561 5007-0
Fax: +49 (0)561 5007-107

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