




Solenoid valve SG/SA



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CHARACTERISTICS

- Used for safety shut-off for gas and switch control for air, and suitable for lines that need high-duty cycle.
- Quick opening or slow opening.
- The inner power indicator indicates the on or off statue of valve.
- Medium: natural gas, LPG, town gas, air and other clean gases.
- CE certified. Comply with EN 161: 2011-A3:2013, class A standard.

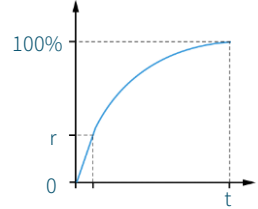
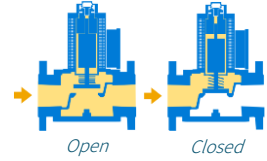
APPLICATIONS

The valve SG is used as the safety shut off valve in main gas pipeline or the gas pipeline in front of burner. As an automatic gas shut-off valve before the burner, the redundant design of double solenoid valves is used to ensure the safe use of gas. The valve SA is use to control the combustion air in the air pipeline in front of burner.

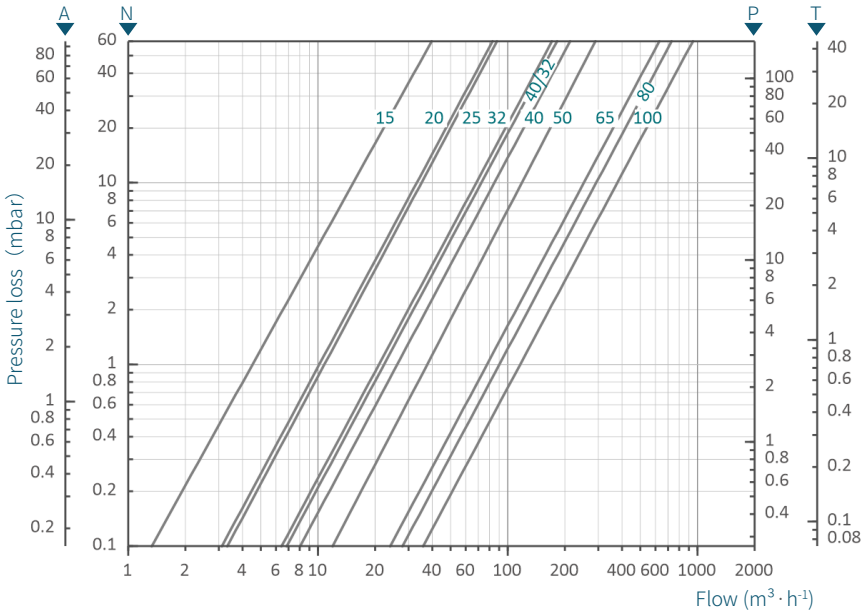
SPECIFICATION

Technical parameters

- Normally closed valve, open when energized.
- Quick opening SG..Q: opens within 0.5 s, closes within 1 s.
- Slow opening SG..S: opening time t is adjustable, the default setting is about 8s. The initial opening section r which can be set to quick opening is adjustable within 50% of the total stroke, the default setting is about 10%. The valve closing time is less than 1s.



Pressure loss



A: air, 1.2 kg/m³

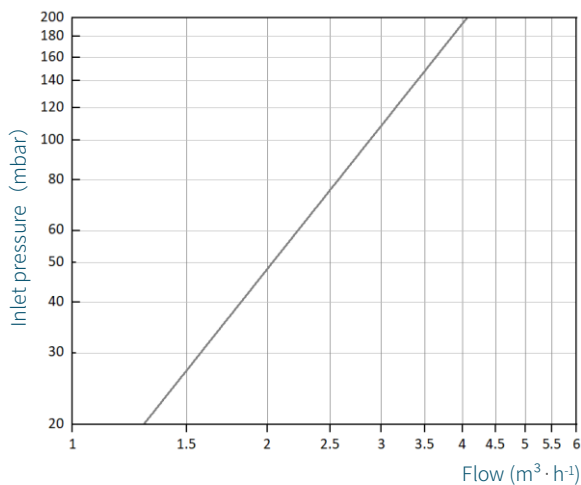
N: natural gas, 0.75 kg/m³

P: LPG, 2.0 kg/m³

T: town gas, 0.55 kg/m³

Gas temperature: 20 °C.

Bypass flow rate (only for SA)



Bypass orifice diameter: 3mm.

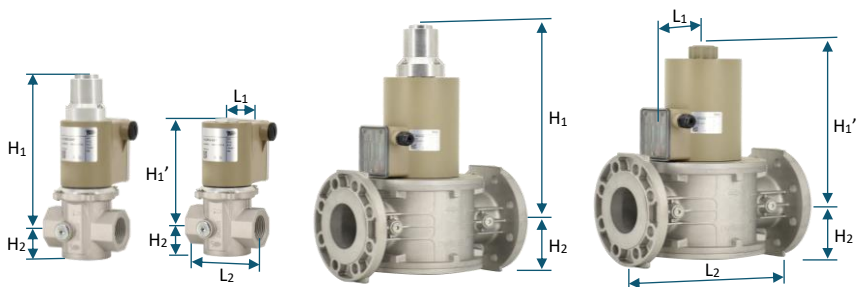
Air temperature: 20 °C.

Type table

Dimension					SG	25	R	Q	/220	F
Type	SG: gas solenoid valve		SA: air solenoid valve							
Size	15: DN15	20: DN20	25: DN25	32: DN32	40/32: DN40					
	40: DN40	50: DN50	65: DN65	80: DN80	100: DN100					
Access	R: thread	F: flange								
Motion	Q: quick opening		S: slow opening							
Power	24: 24 V DC (DN15~50)		110: 110 V AC (DN15~50)		220: 220 V AC					
Others	F: antisepsis (only for SG)									
	Z: bypass (only for SA)		Z3*: 3 mm							

*The number indicates the diameter of the bypass orifice whose size can be customized according to the needs.

Dimensions



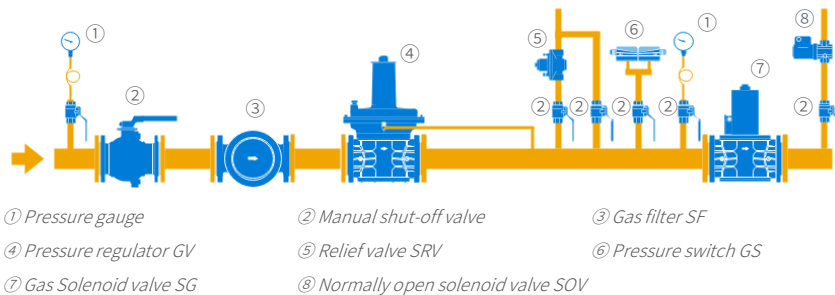
Type	Access	L1 /mm	L2 /mm	H1 /mm	H1' /mm	H2 /mm	Max inlet pressure/mbar	Rated power consumption /W
SG 15R	Rp $\frac{1}{2}$ "	57	71	169	112	25	200	20
SG 20R	Rp $\frac{3}{4}$ "	62	91	184	127	33	200	24
SG 25R	Rp1"	62	91	184	127	33	200	24
SG 32R	Rp1 $\frac{1}{4}$ "	67	128	204	146	39	200	29
SG 40/32R	Rp1 $\frac{1}{2}$ "	67	128	204	146	39	200	29
SG 40R	Rp1 $\frac{1}{2}$ "	77	151	286	209	52	200	50
SG 40F	DN 40	77	200	286	209	70	200	50
SG 50R	Rp2"	82	182	297	220	64	200	57
SG 50F	DN 50	82	230	297	220	84	200	57
SG65F	DN 65	100	310	370	293	88	200	84
SG 80F	DN 80	100	310	370	293	100	200	84
SG 100F	DN 100	100	350	427	350	115	200	107

For flange connections, use plate flat-welded steel pipe flanges of PN1.6MPa in GB/T9119-2010 as mating flanges.

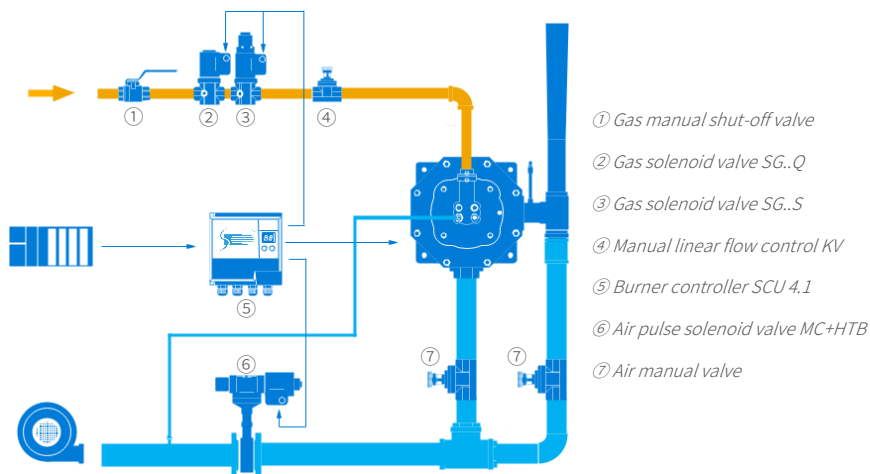
The dimensions of air solenoid valve SA refer to the gas solenoid valve SG with the same diameter.

SOLUTIONS

For safety shut-off of gas main pipeline:

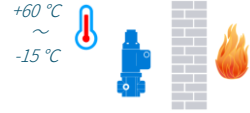
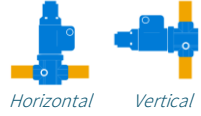


For safety shut-off of the gas pipeline before burner:



INSTALLATION

- Installation position: in the vertical upright position or the horizontal, not upside down.
- Pay attention to the flow direction when installing.
- Ambient temperature: -15~60 °C, keep away from heat source.
- Enclosure: IP 54, prohibit open-air installation.



Wiring

- Connect the live wire and the neutral wire respectively according to the marks on terminals, use a BVR cable of 1~2.5 mm² with withstand voltage of 500 V.

Notes

- The pipe must be purged before installing, Please use the sealing materials correctly to prevent foreign matters from entering the valve.
- Welding pipes and flanges before the assembly of flanges and valves to prevent foreign matters from falling into the valve.
- For easy-maintain, please install a manual shut-off valve upstream.
- Install a filter SF upstream to protect the valve from foreign matters.