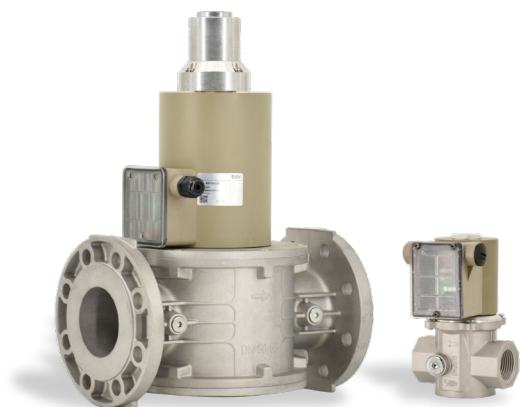


Solenoid valve SG/SA



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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.

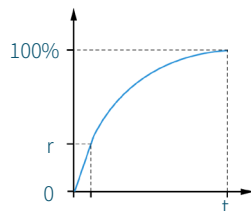
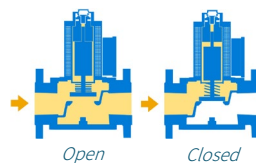
APPLICATIONS

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.

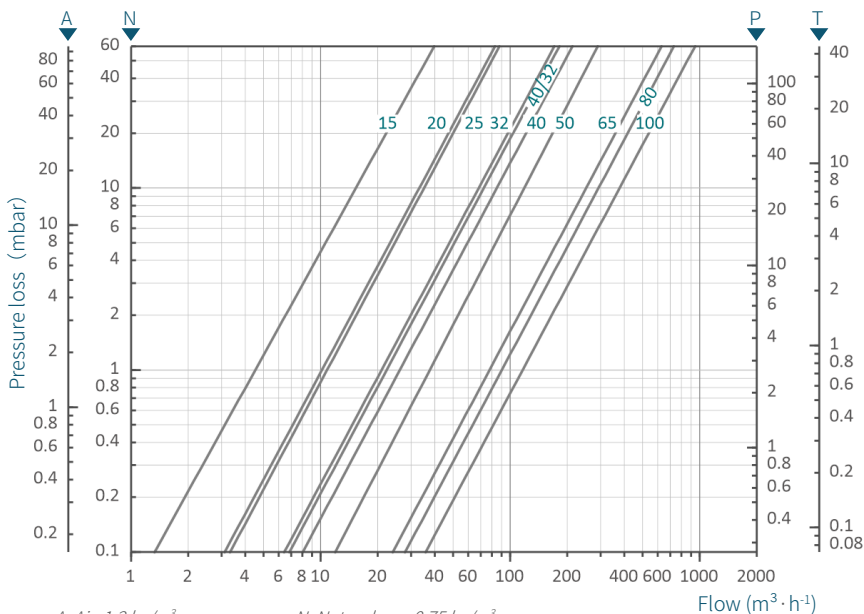
SPECIFICATION

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.
- Max. inlet pressure: 200mbar.



Pressure loss



A: Air, 1.2 kg/m³,

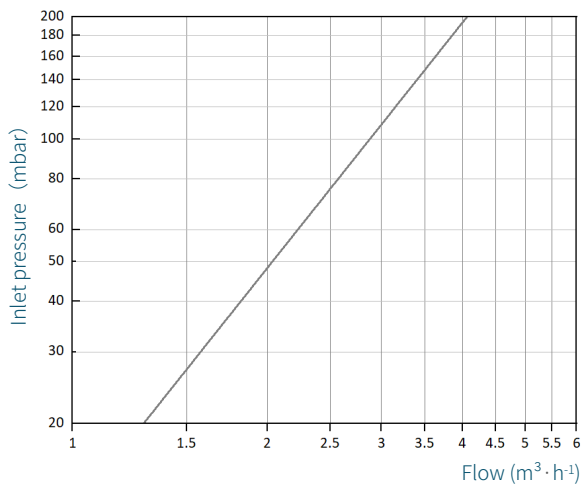
N: Natural gas, 0.75 kg/m³,

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.

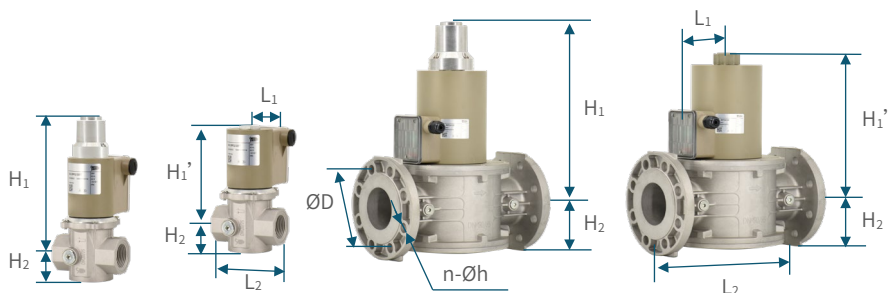
The diameter can be designed according to the required flow rate of cooling air.

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	
Connection	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: FKM for sealing (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



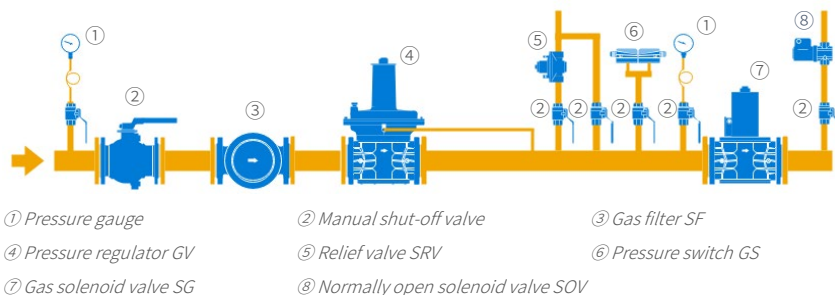
Type	Connection	L ₁ /mm	L ₂ /mm	H ₁ /mm	H ₁ '/mm	H ₂ /mm	D/mm	h/mm	n	Power /W
SG 15R	Rp $\frac{1}{2}$ "	57	71	169	112	25	-	-	-	20
SG 20R	Rp $\frac{3}{4}$ "	62	91	184	127	33	-	-	-	24
SG 25R	Rp 1"	62	91	184	127	33	-	-	-	24
SG 32R	Rp $1\frac{1}{4}$ "	67	128	204	146	39	-	-	-	29
SG 40/32R	Rp $1\frac{1}{2}$ "	67	128	204	146	39	-	-	-	29
SG 40R	Rp $1\frac{1}{2}$ "	77	151	286	209	52	-	-	-	50
SG 40F	DN 40	77	200	286	209	70	110	18	4	50
SG 50R	Rp 2"	82	182	297	220	64	-	-	-	57
SG 50F	DN 50	82	230	297	220	84	125	18	4	57
SG65F	DN 65	100	310	370	293	88	145	18	4	84
SG 80F	DN 80	100	310	370	293	100	160	18	8	84
SG 100F	DN 100	100	350	427	350	115	180	18	8	107

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

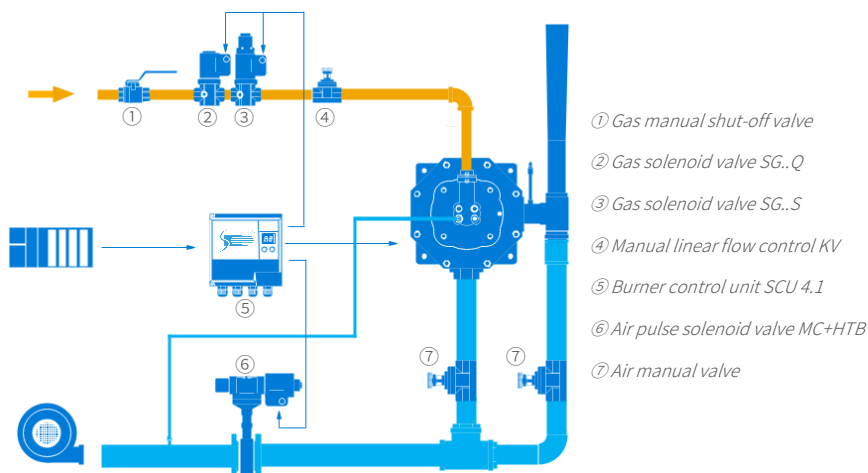
The dimensions of air solenoid valve SA refer to the gas solenoid valve SG with the same diameter.

SOLUTIONS

For safety shut-off of gas main pipeline:

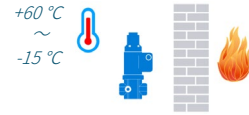
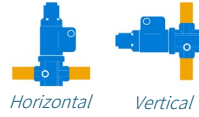


For safety shut-off of the gas pipeline before burner:



INSTALLATION

- Installation position: in the vertical upright position or the horizontal, not upside down.
- The arrow on the valve body indicates the flow direction, determine the installation direction according to the arrow.
- Ambient temperature: -15~60 °C, install away from heat sources.
- 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.
- Do not weld the pipe around the valve after installing to prevent foreign matters from blocking or damaging 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.
- Do not exceed the max inlet pressure of 200 mbar.