

2/2-way solenoid valve, article 243-VA -force pilot operated- diameter G 3/8" up to G 2"

Force pilot operated solenoid valves start from 0 bar and do not require a pressure differential between the upstream and downstream pressure. In the case of force pilot operated valves the magnetic coil opens a pilot control bore, then the diaphragm directly lifts from the valve seat, or is supported by a differential pressure. By default, these solenoid valves are executed with the function **-normally closed-**, by using mostly larger magnet coils the function **-normally open-** is also possible. The flow direction is indicated by an arrow on the housing, the position of the solenoid valve coil should preferably be upright.

Connections

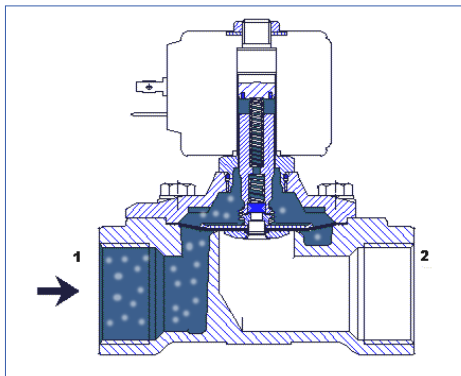
Both sides with female thread acc. to DIN ISO 228 (BSP)

Viscosity ≤ 20 cSt (Centistoks)

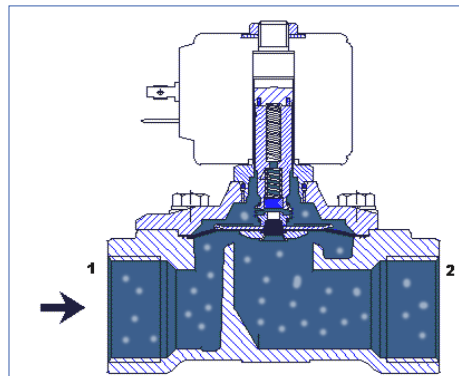
Solenoid valves should only be used with clean, liquid or gaseous media. For low contamination we recommend the use of an upstream strainer.



	ambient	to max. +50°C
	diaphragm	medium temperature
	NBR:	-10°C ... +80°C
	EPDM:	-10°C ... +130°C
	FKM:	-10°C ... +120°C

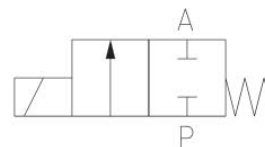


valve closed
magnet coil currentless



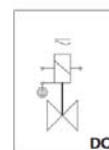
valve opened
magnet coil energized

- design : poppet valve with diaphragm sealing
- electrical part : plug socket acc. to DIN EN 175301-803, Form A
- cable passage : 6 – 8 mm, min. 0,34 mm², max. 1,5 mm²
- supply voltage : 230V 50Hz AC voltage
24V DC voltage
- voltage tolerance : +/- 10% acc. to VDE 0580
- duty-cycle : 100% ED
- protection class : IP65 with mounted plug socket
- mounting position : magnet preferably standing
- pressure range : see selection table

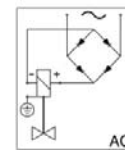


Schaltfunktion/Function:
in Ruhestellung gesperrt - NC.
normally closed - NC.

Anschlussplan / Connection diagram



Für Gleichspannung.
For DC.

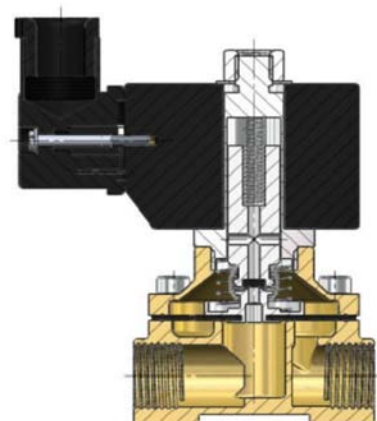


Mit vorgeschaltetem Gleichrichter
für Wechselspannung.
With rectifier for AC connection.

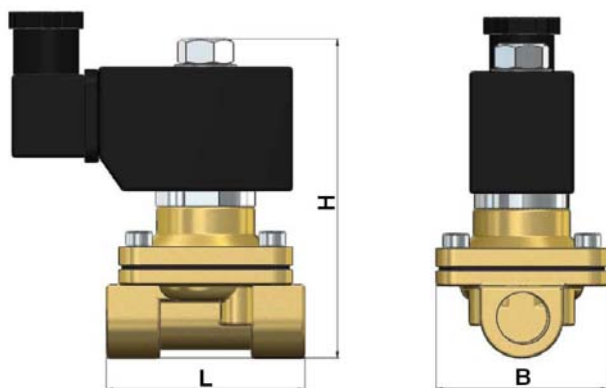
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Valve options:

higher pressure range	0 - 16 bar (to DN25)
normally open	0 - 7,0 bar
angle bracket	
free of oil and grease	
manual operations	
special connection	NPT Flange (DN25 - DN100)
Ex-proof area	II 2G Ex mII T4 II 3D IP65 T130°C 
special magnets	with strand (fully encapsulated) - IP67 special voltage, temperature class H
plug socket with LED	



description	material
body	stainless steel 1.4308
diaphragm	EPDM (standard) optionally NBR, FKM



diameter	L (mm)	H (mm)	B (mm)	Kv-value [m³/h]
G 3/8"	69	106	57	4,1
G 1/2"	69	106	57	4,1
G 3/4"	73	114	57	6,5
G 1"	99	121	77	10,2
G 1 1/4"	112	150	86,5	20,6
G 1 1/2"	1123	160	94	24,9
G 2"	160	183	123	41,2

article number								
diameter	AC voltage				DC voltage			
	normally closed	pressure range	normally open	pressure range	normally closed	pressure range	normally open	pressure range
	power consumption 230 V AC 20 VA		power consumption 230 V AC 33 W		power consumption 24 V DC 20 W		power consumption 24 V DC 20 VA	
G 3/8"	235.1106.5.62	0 - 10 bar	235.1107.5.62	0 - 7 bar	235.1108.5.62	0 - 8 bar	235.1109.5.62	0 - 7 bar
G 1/2"	235.1106.5.63		235.1107.5.63		235.1108.5.63		235.1109.5.63	
G 3/4"	235.1106.5.65		235.1107.5.65		235.1108.5.65		235.1109.5.65	
G 1"	235.1106.5.67		235.1107.5.67		235.1108.5.67		235.1109.5.67	
	power consumption 230 V AC 57 VA		power consumption 230 V AC 70 W		power consumption 24 V DC 45 W		power consumption 24 V DC 55 VA	
G 1 1/4"	235.1106.5.68	0 - 10 bar	235.1107.5.68	0 - 7 bar	235.1108.5.68	0 - 6 bar	235.1109.5.68	0 - 7 bar
G 1 1/2"	235.1106.5.69		235.1107.5.69		235.1108.5.69		235.1109.5.69	
G 2"	235.1106.5.71		235.1107.5.71		235.1108.5.71		235.1109.5.71	