

AKB2

Solenoid valve with direct acting (hitched membrane)

Technical Data Sheet



Description

Solenoid valve with direct acting, for gas oil, normally closed. 2 ways.

- Absorbed power : see table below. Other tensions : consult us
- Viscosity : max 25cSt
- Ambient temperature : max. +55°C
- Protection : IP 65 with connector
- Solenoid valve delivered with standard coil 220/50 Hz or 24V/50Hz or 24VDC, and with a connector



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DN		220V/50Hz 12W	24V/50Hz 9,5W	24VDC 14W	Weight Kg
"	mm				
1/4	3	149B12484	149B12488	149B12492	0,30
1/4	4,5	149B12485	149B12489	149B12493	0,30
3/8	4,5	149B12486	149B12490	149B12494	0,36
1/2	6,4	149B12487	149B12491	149B12495	0,36

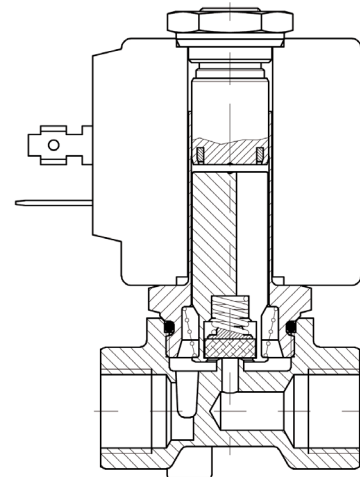
Every technical data concerns the standard coils.
All our solenoid valves can be delivered ON DEMAND with a different coil.

Technical features

Operating temperature	-10 °C at 140 °C
Permissible operating pressure (PFA) in water	See table p.3
Connection	Female/female, BSP thread
Mediums	Liquids and neutral gas : water, oil, compressed air, neutral media

Nomenclature and materials

Designation	Materials	ANSI
Body	Brass N° 2.0402	
Armature	Stainless steel N° 1.4105	AISI 430FR
Armature stack	Stainless steel N° 1.4306	AISI 304L
Spring	Stainless steel 1.4306	AISI 301
Piston seal	FKM	



Application

Valve open (coil de-energized) :

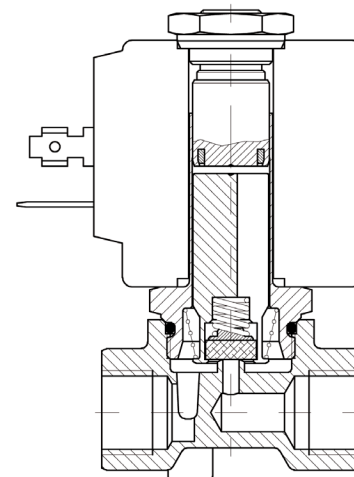
When the coil is de-energized, the pilot orifice is open.

Since the pilot orifice is larger than the equalization orifice, the pressure exerted on the membrane drops and this allow the main orifice to be opened. The valve is then opened and remains open so as long as the minimum differential pressure it suffers is maintained and as long as the coil is de-energized.

Valve closed (coil energized) :

When the coil is energized, the plunger with the seal is pushed against the pilot orifice. The fluid pressure is transmitted over the diaphragm through the equalization port. As soon as the pressures equalize, the diaphragm close the main orifice. The valve remains closed as long as the coil is energized.

For the correct functioning, a minimum pressure difference of 0.15 bar is needed.

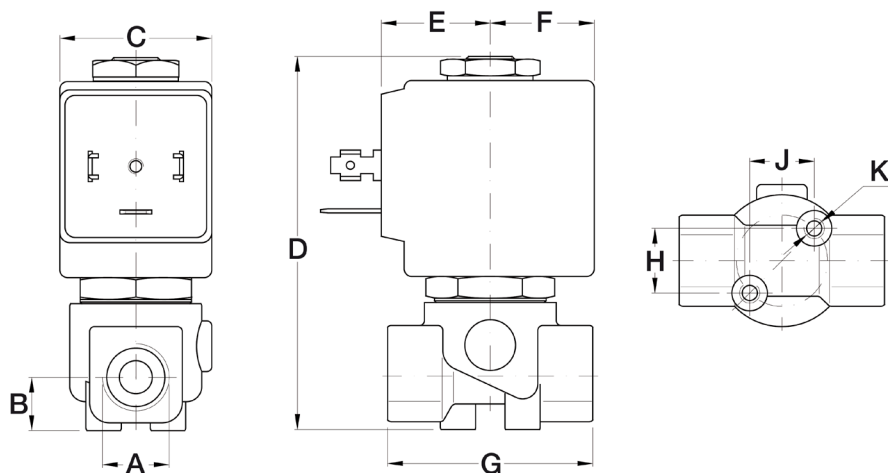


Operation

DN	Maxi pressure bar	Differential pressure in Bar		Time to open m/s*	Time to close m/s*	Kv m ³ /h
		Mini	Maxi			
1/4 - 3 mm	80	0	Coil 9W ca 15	8	20	0,25
1/4 - 4,5 mm	80		Coil 15W cc 6,5		20	0,41
3/8	80		6,5		20	0,41
1/2	80		3		20	0,64

* The indicated times concern the medium water - The exact time depends of pressure conditions.

Sizing



A		B	C	D	E	F	G	H	J	K
"	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1/4	3	10,5	30	73,5	21,5	20,5	40,5	12,7	12,7	M4 / 5
1/4	4,5	10,5	36	73,5	21,5	20,5	40,5	12,7	12,7	M4 / 5
3/8	4,5	12,5	30	73,5	21,5	20,5	50	15,4	15,4	M6 / 7
1/2	6,4	12,5	36	73,5	21,5	20,5	58	15,4	15,4	M6 / 7

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Socla sas

365 rue du Lieutenant Putier • 71530 Virey-Le-Grand • France

Tel. +33 03 85 97 42 00 • Fax +33 03 85 97 42 42

contact@wattswater.com • www.socla.com

ISO 9001 version 2015 / ISO 18001