

Solenoid valves for large flow capacity, suitable for water, air, oil, inert gases and other fluids non-corrosive for copper alloys, with viscosity up to 2° Engler

OPERATION AND INSTALLATION

2 way valve, normally-closed

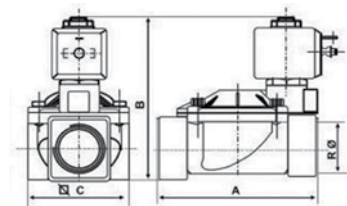
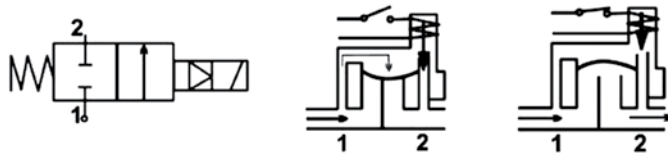
Servo-assisted membrane actuator

Female end connections, size 3/8" to 2" BSP

Upstream media enters the space above the membrane, pressing it against the seat, preventing the flow. When the coil is energized, the pilot plug opens discharging the flow, therefore the media lifts the membrane disc allowing the flow

N.B. minimum differential pressure : 0.1 bar is necessary for valve to open and close correctly

Valve should be mounted in an upright position to operate correctly



ELECTRICAL SPECIFICATIONS

Closing time : 10 msec.

Press-forged brass body

Internal parts in stainless steel (17 % CR)

Gaskets in NBR (buna N)

With dc coil indicated pressure values must be reduced by 60%

MAGNETS

Actuator coils are supplied separately, see Coils page for voltage selection and technical data

Type	A	B	C
23C	69	92.5	40
23D	72	94.5	40
23E	100	100	65
23F	104	105.5	65
23G	145	127	102
23H	145	127	102
23I	173	141	118

Dimensions and weights are inclusive of coil

TYPE	Through bore dia. ø mm	Female connection BSP	Kv m³/h	Shut down time with 1 bar DP sec	Minimum differential pressure bar	Maximum differential pressure bar	Test pressure (DIN2401) PN bar	Working Temperature °C	Unit Weight Kg
23C	13	3/8"	3	1	0.1	20	25	-10 to 90	0.55
23D	13	1/2"	3	1	0.1	20	25	-10 to 90	0.58
23E	20	3/4"	8.4	1.5	0.1	20	25	-10 to 90	1.02
23F	25	1"	9.6	1.5	0.1	20	25	-10 to 90	1.10
23G	35	1 1/4"	25.2	2.5	0.1	10	16	-10 to 90	3.15
23H	40	1 1/2"	30	3	0.1	10	16	-10 to 90	2.90
23I	50	2"	37.2	3.5	0.1	10	16	-10 to 90	4.3

Kv = water flow in m³/h with pressure drop of 1 bar (1 bar = 100kPa)

coils for solenoid valve bodies

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TECHNICAL FEATURES

All coils are produced with copper wire in H class (180° C)

30% glass fibre thermoplastic body, insulation class F (155 suitable for continuous duty (100 % ED)

IP65 protection degree.

Voltage tolerance : +-1.0% in ac and +10-5 % in dc

Electrical connector over 2P+ DIN 43650 socket

NOTE

When used at 60 Hz, the pressure valves indicated in the valve body tables should be reduced by approx 12%

With DC voltage coils, the pressure values indicated in the valve body tables should be reduced by approx 60%

HOMOLOGATION AND STANDARDS

> Complies with EN 60335-1 standards

> CE: C102410



COILS SUITABLE FOR SOLENOID VALVES

TYPE	Power Supply	Starting Power VA	Starting Power W	Max Working Temp °C
C12DC	12 Vdc	-	12	80
C24DC	24 Vdc	-	12	80
C24AC	24 Vac	25	14	80
C110	110 Vac	25	9	80
C230	230 Vac	25	14	80

CONNECTOR FOR ABOVE COILS

TECNICAL FEATURES

Push on connector in compliance with DIN 43650, suitable for all coils

Cable gland (cable dia. 6 to 8 mm)

Type	Description
1578501	Rotational connector DIN 43650 Form A

