2/2-way solenoid valves

Art. No. 102833 to 136143

P 3-499 e

Description:

- Two way shut-off valves for automatic control of air, inert gas, water and other gases/liquids compatible with the seal materials used
- The valves do not require a minimum operating pressure

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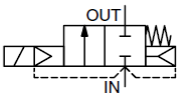
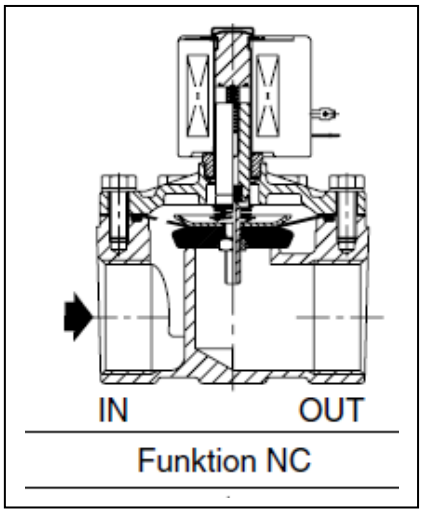


General:

Medium *	Air, neutral gases, water
Pressure difference	See characteristics valve body [1 bar = 100 kPa]
Maximum viscosity	65 cSt (mm²/s)
Response time	15 to 120 ms



Parts in contact with the medium:*

Housing	Brass
Guide pipe	Stainless steel
Armature of magnet and counter-armature	Stainless steel
Springs	Stainless steel
Valve seat	Brass
End ring	Copper
Insulation class (coil)	F (AC)
Electrical connection	ISO 4400; connector socket (PG 11P)
Electrical design	IEC 335

* The resistance of the parts in contact with the medium must be checked separately.

Bauform 3

2/2-way solenoid valves

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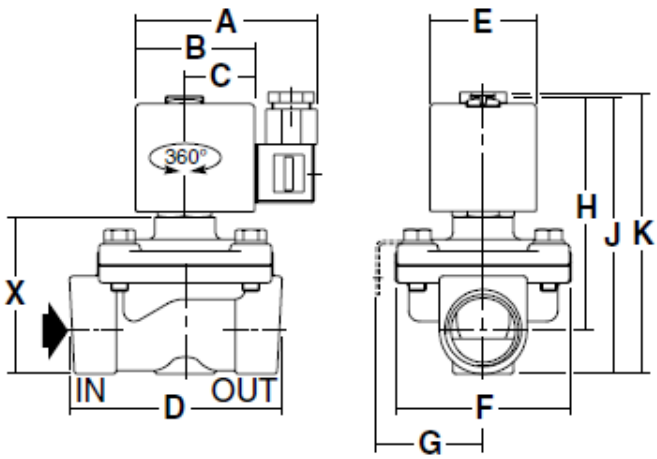

Solenoid valve, normally closed, 230 V, 50 to 60 Hz, combined operation

Art. No.	Type No.	Thread	DN	A	B	C	D	E	F	G	H	J	K	X
				mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
102833	MV 1216/0	Rp 3/8	16	80.0	50.0	30.0	70.0	45.0	58.0	41.0	80.0	97.0	109.0	46.0
102834	MV 1226/0	Rp 3/8	16	80.0	50.0	30.0	70.0	45.0	58.0	41.0	80.0	97.0	109.0	46.0
102835	MV 1217/0	Rp 1/2	16	80.0	50.0	30.0	70.0	45.0	58.0	41.0	80.0	97.0	109.0	46.0
102836	MV 1227/0	Rp 1/2	16	80.0	50.0	30.0	70.0	45.0	58.0	41.0	80.0	97.0	109.0	46.0
102837	MV 1218/0	Rp 3/4	19	80.0	50.0	30.0	73.0	45.0	58.0	41.0	89.0	103.0	121.0	54.0
102838	MV 1228/0	Rp 3/4	19	80.0	50.0	30.0	73.0	45.0	58.0	41.0	89.0	103.0	121.0	54.0

Solenoid valve, normally closed, 24 V DC (direct current) combined operation

Art. No.	Type No.	Thread	DN	A	B	C	D	E	F	G	H	J	K	X
				mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
102843	MV 1216 G/0	Rp 3/8	16	80.0	50.0	30.0	70.0	45.0	58.0	41.0	80.0	97.0	109.0	46.0
136140	MV 1226 G/0	Rp 3/8	16	80.0	50.0	30.0	70.0	45.0	58.0	41.0	80.0	97.0	109.0	46.0
102844	MV 1217 G/0	Rp 1/2	16	80.0	50.0	30.0	70.0	45.0	58.0	41.0	80.0	97.0	109.0	46.0
136141	MV 1227 G/0	Rp 1/2	16	80.0	50.0	30.0	70.0	45.0	58.0	41.0	80.0	97.0	109.0	46.0
136142	MV 1218 G/0	Rp 3/4	19	80.0	50.0	30.0	73.0	45.0	58.0	41.0	89.0	103.0	121.0	54.0
136143	MV 1228 G/0	Rp 3/4	19	80.0	50.0	30.0	73.0	45.0	58.0	41.0	89.0	103.0	121.0	54.0
136145	MV 1229 G/0	Rp 1	25	86.0	56.0	33.0	95.0	50.0	83.0	-	112.0	129.0	137.0	75.0
137597	MV 1230 G/0	Rp 1 1/4	28	86.0	56.0	33.0	95.0	50.0	83.0	-	112.0	143.0	148.0	86.0
137598	MV 1231 G/0	Rp 1 1/2	32	86.0	56.0	33.0	111.0	50.0	99.0	-	125.0	153.0	158.0	96.0

Solenoid valve, normally closed, 230 V, 50 to 60 Hz, combined operation							
Art. No.	Type No.	Thread	Sealant	Operating pressure min. / max. (1) bar	Medium temperature min. / max. (2) °C	Insulation class	Weight * kg
102833	MV 1216/0	Rp 3/8	NBR	0 / 9	-20 / 85	F	0.8
102834	MV 1226/0	Rp 3/8	FKM	0 / 9	-15 / 120	F	0.8
102835	MV 1217/0	Rp 1/2	NBR	0 / 9	-20 / 85	F	0.8
102836	MV 1227/0	Rp 1/2	FKM	0 / 9	-15 / 120	F	0.8
102837	MV 1218/0	Rp 3/4	NBR	0 / 9	-20 / 85	F	0.8
102838	MV 1228/0	Rp 3/4	FKM	0 / 9	-15 / 120	F	0.8

Solenoid valve, normally closed, 24 V DC (direct current) combined operation							
Art. No.	Type No.	Thread	Sealant	Operating pressure min. / max. (1) bar	Medium temperature min. / max. (2) °C	Insulation class	Weight * kg
102843	MV 1216 G/0	Rp 3/8	NBR	0 / 3	-20 / 85	F	1.0
136140	MV 1226 G/0	Rp 3/8	FKM	0 / 3	-15 / 120	F	1.0
102844	MV 1217 G/0	Rp 1/2	NBR	0 / 3	-20 / 85	F	1.0
136141	MV 1227 G/0	Rp 1/2	FKM	0 / 3	-15 / 120	F	1.0
136142	MV 1218 G/0	Rp 3/4	NBR	0 / 3	-20 / 85	F	1.0
136143	MV 1228 G/0	Rp 3/4	FKM	0 / 3	-15 / 120	F	1.0
136145	MV 1229 G/0	Rp 1	FKM	0 / 6	-15 / 120	F	2.0
137597	MV 1230 G/0	Rp 1 1/4	FKM	0 / 6	-15 / 120	F	2.0
137598	MV 1231 G/0	Rp 1 1/2	FKM	0 / 5	-15 / 120	F	2.8

* Inkl. Solenoid and connector
(1) For detailed pressure information each medium, please see characteristics valve body.
(2) At temperatures below zero the medium may freeze and damage the valve.

Characteristics valve body:

Connection	Nom. width	Flow coefficient (Kv)		Working pressure difference (bar)					Coil Type No.	Coil Type No.	Solenoid valve Art. No.	
				min.	max.							
					Air		Water					
	(mm)	(m³/h)	(l/min)		~	=	~	=	~	=	NBR	FKM
Rp 3/8	16	2.6	43	0	9	3	9	3	400-425-1XX	400-425-1XX	102833 102843	102834 136140
Rp 1/2	16	3.4	57	0	9	3	9	3			102835 102844	102836 136141
Rp 3/4	19	4.3	72	0	9	3	9	3			102837 136142	102838 136143
Rp 1	25	11.1	185	0	9	6	9	6	-	400-625-1XX	-	136145
Rp 1 1/4	28	12.8	213	0	9	6	9	6			-	137597
Rp 1 1/2	32	19.3	322	0	9	5	9	5			-	137598

Electrical data:

Coils (2) 12V - 24V → Please use the suffix **»G«** to order **DC valves**
AC (~) 24V/50Hz - 110V/50Hz - 230V/50Hz

(1) At temperatures below zero the medium may freeze and damage the valve.
(2) Other voltages and 60 Hz frequency on request.

Coil Type No.	Power				Ambient temperature (1)	Max. perm. operating temperature	Max. perm. temperature rise	Insulation class	Degree of protection (with socket connector fitted)
	Pickup ~	Holding ~		hot / cold =					
	(VA)	(VA)	(W)	(W)	(°C) **	(°C) ***	(°C) *		
400-425-1XX	55.0	23.0	10.5	9 / 11.2	-20 to 75	155	80	F	IP 65
400-625-1XX	240.0	43.0	20.0	16.8 / 23	-20 to 50	155	100	F	IP 65

* Coil temperature after energising
** Additional effect of the medium temperature within the value range stated in the catalogue
*** At 100 % ED

Special versions (on request):

- EPDM, CR or PTFE diaphragms, seals and valve seat are available
- Coil with higher performance
- Explosion proof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 94/9/EG
- Mounting bracket
- Socket connector with light emitting diode and protective circuit

Installation:

- The solenoid valves can be mounted in any position at Rp 3/8 to Rp 3/4.
  From Rp 1 only horizontally, magnetic head above
- Threaded connections Rp (ISO 7-1); other threaded connections on request
- Assembly and servicing instructions enclosed with each valve