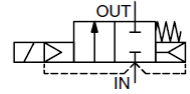


**Description:**

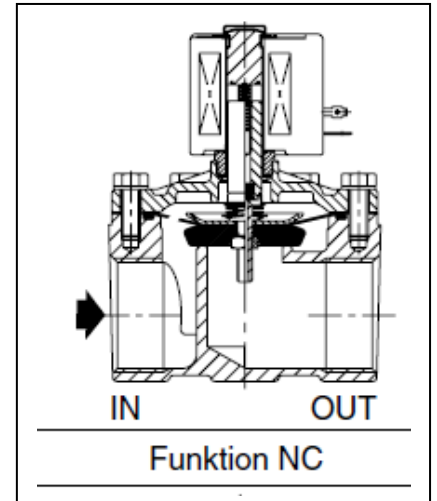
- Two way shut-off valves for automatic control of air, inert gas, water and other gases/liquids compatible with the seal materials used
- The valves do not require a minimum operating pressure

**NC**

**General:**

Medium *	Air, neutral gases, water
Pressure difference	See characteristics valve body [1 bar = 100 kPa]
Maximum viscosity	65 cSt (mm <sup>2</sup> /s)
Response time	15 to 120 ms

**Parts in contact with the medium:\***

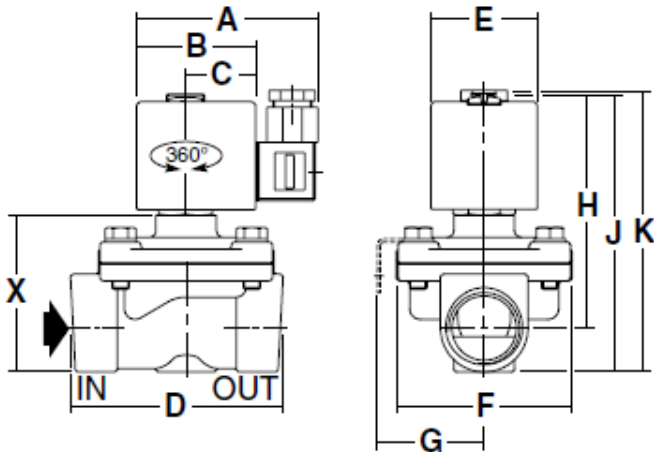
Housing	Brass
Guide pipe	Stainless steel
Armature of magnet and counter-armature	Stainless steel
Springs	Stainless steel
Valve seat	Brass
End ring	Copper
Insulation class (coil)	F (AC)
Electrical connection	ISO 4400; connector socket (PG 11P)
Electrical design	IEC 335



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



Bauform 3



**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		Medium temperature		Insulation class	Weight * kg
				min. / max. (1)	bar	min. / max. (2)	°C		
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		Medium temperature		Insulation class	Weight * kg
				min. / max. (1)	bar	min. / max. (2)	°C		
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 (mm)	Flow coefficient (Kv) (m <sup>3</sup> /h) (l/min)		Working pressure difference (bar)				Coil Type No.	Coil Type No.	Solenoid valve Art. No.		
				min.	max.		min.					max.
					Air	Water						
					~	=	~	=				
Rp 3/8	16	2.6	43	0	9	3	9	3	400-425- 1XX	400-425- 1XX	102833	102834
Rp 1/2	16	3.4	57	0	9	3	9	3			102835	102836
Rp 3/4	19	4.3	72	0	9	3	9	3			102844	136141
Rp 1	25	11.1	185	0	9	6	9	6	-	400-625- 1XX	102837	102838
Rp 1 1/4	28	12.8	213	0	9	6	9	6			136142	136143
Rp 1 1/2	32	19.3	322	0	9	5	9	5			-	136145
											-	137597
											-	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) (°C) **	Max. perm. operating temperature (°C) ***	Max. perm. temperature rise (°C) *	Insulation class	Degree of protection (with socket connector fitted)
	Pickup ~	Holding ~		hot / cold =					
	(VA)	(VA)	(W)	(W)					
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