

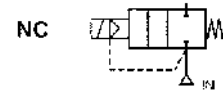


Two-stage double diaphragm valves

Normally closed
Internal pilot control

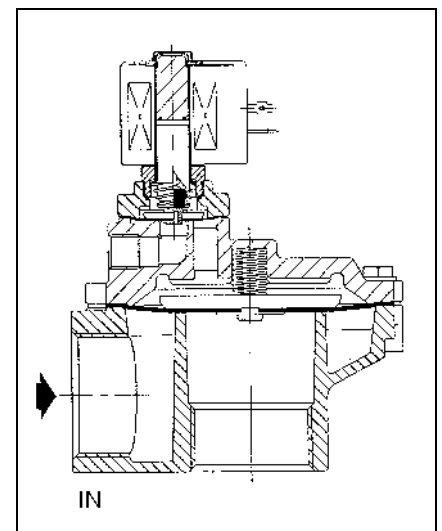
G 1½ - 2 - 2½

MV 4213
MV 4214
MV 4215



Description

- The double diaphragm valves are specially designed for use in dust-removing equipment. They are characterised by a **high rate of flow** and a **long service life**, and they **open and close extremely fast**.
- The angle-type body with its excellent flow characteristics, the unique design and the specially developed diaphragms facilitate the high operating performance necessary for dust-removing equipment.
- The solenoid valves are designed for operation at a minimum UP of **0.35 bar**. The high-quality diaphragms are non-wearing and guarantee a long service life under harsh operating conditions.
- The solenoid valves are in line with international standards.



General

Pressure difference 0.35 to 8.5 bar [1 bar = 100 kPa]
Permissible static pressure 10 bar
Ambient temperature -20 to +85 °C

Medium	Temperature range (1)	Diaphragms	Order No.
Air, inert gas	-20 to +85 °C	CR (neoprene)	MV 4213 MV 4214 MV 4215

(1) At temperatures below zero the medium may freeze and damage the valve.

Electrical data

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

(2) Other voltages and 60 Hz frequency on request

Coil type	Power				Ambient temperature (1)	Degree of protection (with socket connector fitted)
	Pickup ~	Holding ~		=		
	(VA)	(VA)	(W)	(W)	(°C)	
CMXX-FT	55	23	10.5	11.2	-20 to +85	IP 65
CMXX-FF	-	-	-	19.7	-20 to +85	IP 65

Characteristics

Con- nec- tion	Nom. width (mm)	Flow coefficient (Cv)		Working pressure difference (bar)				Coil type		Catalogue number Please use the suffix »G« to order DC (=)
				min.	max.		=			
					Air, inert gas					
G		(m³/h)	(l/min)		~	=		~	=	
1½	52	43	717	0.35	8.5	8.5	CMXX-FT	CMXX-FF	MV 4213	
2	66	77	1290	0.35	8.5	8.5	CMXX-FT	CMXX-FF	MV 4214	
2½	66	92	1540	0.35	8.5	8.5	CMXX-FT	CMXX-FF	MV 4215	

Design features

Body Armature guide pipe Armature of magnet and counter-armature Spring Seals and valve disc Diaphragms End ring Insulation class (coil) Electrical connection Electrical design	MV 4213 - MV 4214 - MV 4215 Aluminium Stainless steel Stainless steel Stainless steel NBR CR Copper F ISO 4400; connector socket (PG 11P) IEC 335
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Main spare parts

Order No.	Spare parts set	Diaphragms
MV 4213	113827	113699-009
MV 4213 G	113827	113699-009
MV 4214	113685	113676-001
MV 4214 G	113686	113676-001
MV 4215	113685	113676-001
MV 4215 G	113686	113676-001

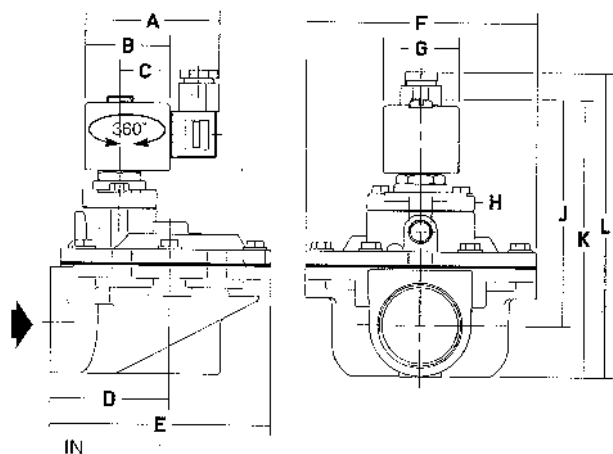
Coils

Order No.	Coils				Insulation class		Max. perm. operating temperature °C	Max. perm. temperature rise °C*	Max. perm. ambient temperature °C**
	~ (2)	V	= (3)	V	~	=			
MV 4213 MV 4214 MV 4215	400425-101 400425-107 400425-117	24 110 230	400425-342	24	FT	FF	155	70	85

(2) Other voltages and 60 Hz frequency on request
 (3) Please use the suffix »G« to order DC valves

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

Dimensions [mm], weights [g]



Order No. »MV«	4213 4213 G	MV 4214 MV 4214 G	4215 4215 G
A	80	80	80
B	50	50	50
C	30	30	30
D	71	95	95
E	130	168	168
F	136	165	165
G	45	45	45
H	G 3/8	G 3/4	G 3/4
J	131	165	165
K	161	210	210
L	178	227	227
Weight (4)	1400	2900	2600

(4) Including coil and connector socket

Special designs (on request)

- Seals and valve disc made of FPM
- Flameproof body in accordance with CENELEC and national standards
- Electronic pulse transmitter
- Connector socket with LED and/or suppressor circuit
- Valves with integrated quick-lock fitting

Installation

- Any mounting position, preferably with the magnetic head pointing upwards
- Threaded connections G (DIN EN ISO 228-1)
- Other threaded connections on request
- Assembly and servicing instructions enclosed with each valve
- Spare parts and replacement coils (see above)
- The tightness of the types with a quick-lock fitting is ensured by the contact pressure of the seal on the pipe