



## Normally closed

Combined-operation diaphragm valve

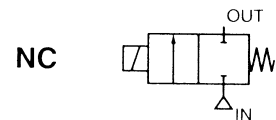
<b>MV 1411</b>	<b>MV 1411 G</b>
<b>MV 1412</b>	<b>MV 1412 G</b>
<b>MV 1413</b>	<b>MV 1413 G</b>
<b>MV 1414</b>	<b>MV 1414 G</b>
<b>MV 1415</b>	

**230/50**      **24 = (G)**

CE

## Features

- Media valve for shutting off gaseous or liquid media that are compatible with the materials used
- The valves do not require a minimum operating pressure
- A **compact design, easy installation and short response times** are typical features of this modern valve concept
- Any mounting position
- The high-quality materials used for the valves and extensive testing guarantee a long service life



## Applications

**Compact** solenoid valve for use in industrial automation and thermodynamics.

## Range of use

Art. No. – Ident No.		Medium (2)	Seals	Temperature range (1)
MV 1411 - 102904 MV 1412 - 102905 MV 1413 - 102906 MV 1414 - 102907 MV 1415 - 102908	MV 1411 G - 102909 MV 1412 G - 102910 MV 1413 G - 102911 MV 1414 G - 102912	Air, inert gases, water	NBR / PA	Medium temp. -10 °C to 90 °C Ambient temp. -10 °C to 80 °C

- (1) At temperatures below zero the medium may freeze and damage the valve  
 (2) Remember to take account of the resistance and viscosity

## Electrical data

Valve		Magnet type	Power [W]				Temperature			Degree of protection (EN 60529)
			Pickup	Holding	=	(°C)	Class	CDF		
MV 1411 MV 1412 MV 1413 MV 1414 MV 1415	MV 1411 G MV 1412 G MV 1413 G MV 1414 G	BDA							8	25
		GDH	14	43	27	14	180	H	100 %	

## Characteristics

Port DIN EN ISO 228-1	Nominal diameter	Valve	Magnet	Kv (l/min)	Operating pressure difference (bar)		Max permissible viscosity		
					Min.	Max.	cSt	°E	
G	(mm)	Art. No.	Part No.	(l/min)	0	~	=	12	~2
						14	14		
3/8	11	MV 1411	400-8223-17	20	0	14	14	12	~2
		MV 1411 G	400-4024-42			14	14		
1/2	16	MV 1412	400-8223-17	40	0	14	14	12	~2
		MV 1412 G	400-4024-42			14	14		
3/4	16	MV 1413	400-8223-17	40	0	14	14	12	~2
		MV 1413 G	400-4024-42			14	14		
1	25	MV 1414	400-4223-17	120	0	14	6	12	~2
		MV 1414 G	400-4024-42			14	6		
		MV 1415	400-8223-17			16	6		

**Dimensions [mm]**

Dimensions [mm]				
Type	Port DIN EN ISO 228-1	A	B	C
MV 1411 (G)	G 3/8	50	89	56
MV 1412 (G)	G 1/2		100	70
MV 1413 (G)	G 3/4			
MV 1414 (G)	G 1	65	112	104
MV 1415				
Magnet		D	E	F
8 W		30	42	54
14 W		52	55	67

**Design features**

**Part**

- Body
- Guide tube
- Stationary armature
- Moving armature
- Phase displacement ring
- Spring
- Seal
- Seat

**Material**

- Brass 58
- Stainless steel AISI Series 300
- Stainless steel AISI Series 400
- Stainless steel AISI Series 400
- Copper
- Stainless steel AISI Series 300
- Standard: NBR + PA, Code Y
- Brass 58
  
- Plug connector
- Connector conformity
- Electrical conformity
- Degree of protection

**Magnets**

Part No.	Electrical data				
	Power	Voltage		CDF	Approval
	W	AC	DC	%	Valves
400-8223-17	8	230/5		100	CE VDE
400-8024-01	8				
400-4223-17	14	230/5			
400-4024-01	14				
400-4024-42	14		24		
400-4012-41	14		12		
On request		110/6			

On request: 60 Hz / class H with "UL" conformity

**Spare parts**

Solenoid valve	Kit	Diaphragm
MV 1411	KTGHT3KOY11	R452126
MV 1411 G		
MV 1412	KTGHT4KOY16	R452125
MV 1412 G		
MV 1413		
MV 1413 G	KTGHT6KOY25	R452122
MV 1414		
MV 1414 G		
MV 1415		

**Installation**

- Any mounting position
- Screw connections: G (DIN EN ISO 228-1)
- Other screw connections on request
- Installation and maintenance instructions enclosed with each valve
- Spare parts and replacement coils (see above)

**Special versions** (on request)

- Cable socket with LED