**Description:**

- 5/2-way valve
- piston valve
- servo-controlled
- NAMUR connection
- duty cycle 100% (VDE0580)
- any installation position, upright solenoid position recommended
- with manual override, locking
- with exhaust air regulator

Range of application:

- viscosity 22mm²/s
- high flow rate
- compact design
- medium temperature: -20°C up to +60°C
- ambient temperature: 0°C up to +35°C
- working pressure: 2 - 10 bar
- The minimum pressure is necessary for pressure difference
- IP65 (with a professionally installed connector socket) according to DIN40050 --> DIN EN 60529
- for filtered, lubricated or filtered, unlubricated compressed air

References:

For contaminated fluids insertion of a strainer is recommended

At operating state temperature the input power of a coil decreases by up to ca. 30% due to physical reasons.

Attention! The conditions imposed on the Ex approvals lead to reduction of the permissible standard temperature ranges in the cases of explosion protected solenoids.

Comments:

Only minor solenoid force is required, because a pilot hole uses the pressure difference.

Voltage tolerance +10% / -10% at maximum pressure and standard ambient temperature. Please note the **connection marking** during installation (numbers on body).

Other voltage and coil power on request! **Higher protection class** than IP65 with special coils and connector sockets possible on request.

Threads according to EN 228: It describes the threaded connection of a parallel male thread with a parallel female thread and is marked with "G".

Optionally, the valve can also be used on a **basic panel system**.

Also optionally, the valve can be supplied in designs 5/3-way.

pos.	part	brass		optional material	
	body	anodized alloy	Z	-	
	interior	brass, plastics		-	
	slide	rust-proof steel		-	
	sealing	NBR	B	-	

For details about the order code see "Order information". An overview of the complete material code you can find at the beginning of each product section of the product catalogue.

options:

- opened in rest position
- manual override
- free of oil and grease
- NPT-thread
- impulse valve
- explosion protection acc. to ATEX:
 - Ex II 2G/D EEx m II T4
 - Ex II 3G/D EEx nA II T5
 - Ex II 2G Eex ia IIC T6

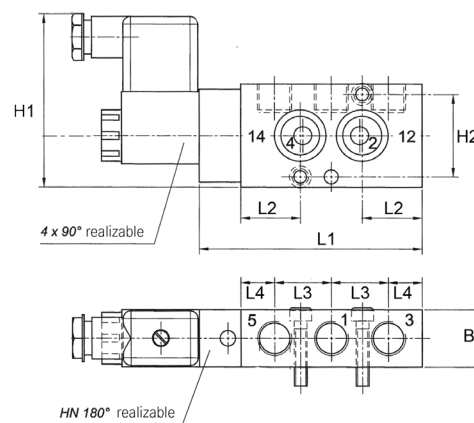
Optional: Connection 2 and 4 exchanged



5/2-WAY SOLENOID VALVE, SERVO-CONTROLLED IN DIAPHRAGM DESIGN



function of a 5-2-way valve (standard)

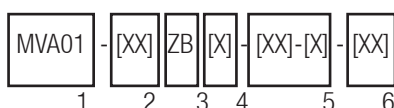


match code	size [inch]	nominal size [mm]	working pressure [bar]		L 1 [mm]	L 2 [mm]	L 3 [mm]	L 4 [mm]	H1 [mm]	H2 [mm]	B [mm]	weight [kg]	Flow rates [l/min]
			min.	max.									
MVA01-02ZB70-xx-x	1/4	7	2.0	10	87	23	22	13	67	32	22	0.26	1250
MVA01-03ZB80-xx-x	3/8	10	1.5	10	111	35	28	19	72	32	30	0.55	2250
MVA01-04ZB120-xx-x	1/2	12	1.0	10	131	37	36	21	77	45	30	0.70	3000

*solenoid power for AC: listed are the pick-up power and the holding power.

*CV value: The nominal flow rate CVs acc. to VDI/VDE 2173 shows the water quantity in cubic meter per hour with the valve fully opened, $\Delta p=1$ and the water temperature between 5°C and 30°C.

type	AC	DC	geometry
J22	5VA	3W	28x22
J30	5VA	2W	36x30

**Order information:****1: type:** MVA01**2: connection size:** see table**3: materials:**

- 1. digit: body material
Z=alloy (anodized)
- 2. digit: sealing
B = NBR

4. nominal size in 1/10mm (see table)**5: operation:**

- 1. digit (3 digits): specification solenoid type (see table / options)
- 2. digit: specification voltage:
0: 230V AC
1: 24V DC
2: 110V AC (on request)
Other voltage on request.

6: options (see "options")

Please ask for field specifications that are not listed in this data sheet.

Before installation please consider the installation and maintenance manual, especially the safety indications!