

2/2-WAY SOLENOID VALVE, FORCE PILOT OPERATED, FOR STEAM APPLICATIONS



Description:

- 2/2-way valve
- piston poppet valve
- force pilot operated
- female thread ISO228
- duty cycle 100% (VDE0580)
- optional installation position, preferable magnet downward (vertically upwards to max. +150°C)
- close muting
- high flow rate

Application area:

- viscosity 80mm²/s
- medium temperature: 0°C to +200°C
- ambient temperature 0°C to +60°C
- operating pressure from 0bar
- no difference pressure necessary
- IP65 (with correct installed connector plug)
- DIN40050 --> DIN EN 60529
- for hot water and steam

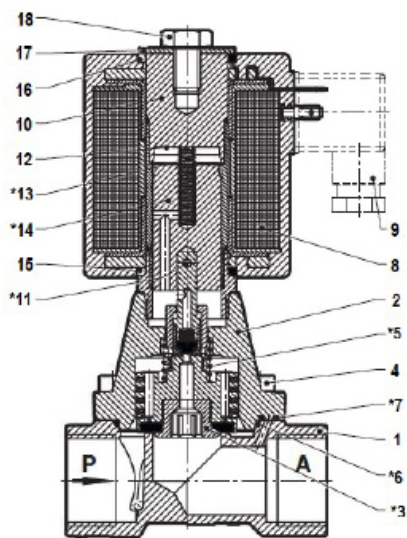
Explanation:

Please note the **flow pattern** (arrow mark on body). **Voltage tolerance +10% / -10%** at maximal pressure and ambient temperature.

Other tensions and coil powers as well as sealings on request. You find these in the catalog under „Spare parts and accessories“. Included in the scope of supply is the **connector plug**. You find more connector plugs under accessoires and spare parts in the catalog. On request a **higher protection class** than IP65 is possible, with special coils and connector plugs.

Higher **working pressure up to 22 bar** are possible

Thread ISO 228: The norm describes the thread connection of a parallel male thread with a parallel female thread and is marked with „G“.



Pos.	Component	Brass		Optional material	
1	body	CW617N	A	-	
2	cover	CW617N	-	-	
3	valve piston including sealing	PTFE	T	EPDM	E
4	sealing ring		-	-	
5	O-ring		-	-	
6	pressure ring				
7	cylinder pin				
8	O-ring				

Wear parts:

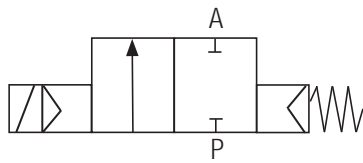
- Pos. 3: valve piston including sealing
- Pos. 9: pressure spring
- Pos. 4: sealing ring
- Pos. 5: O-ring
- Pos. 6: pressure spring
- Pos. 10: solenoid
- Pos. 11: tube
- Pos. 7: cylinder pin
- Pos. 12: pressure spring
- Pos. 13: plunger
- Pos. 8: O-ring

You find an overview of the complete material code in the catalog at the beginning of the respective product group.

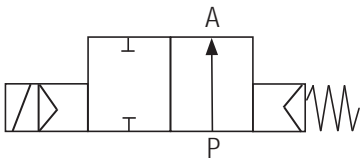
Options:

- NO: opened in rest position up to nominal size 3mm
- OF: free of oil and grease
- CV: body chemical nickel-plated
- HA: manual override up to 3mm
- PS: position indication

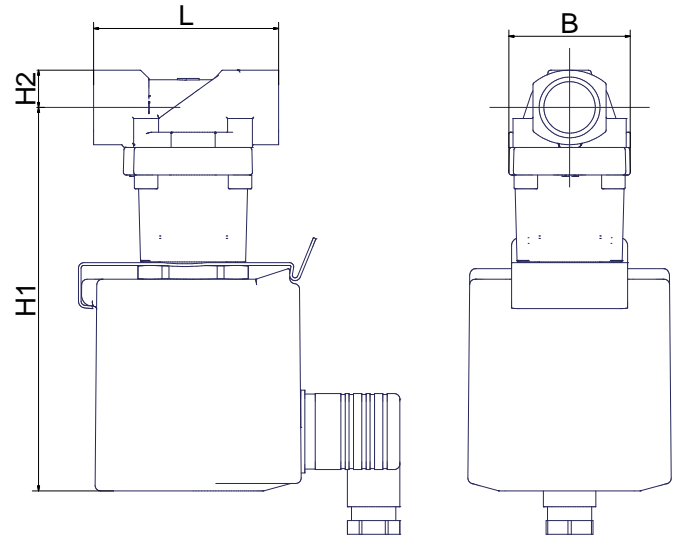
2/2-WAY SOLENOID VALVE, FORCE PILOT OPERATED, FOR STEAM APPLICATIONS



function NC (normally closed valve)



function NO (normally opened valve)



matchcode	size [inch]	nominal size [mm]	working pressure [bar]			L [mm]	H1 [mm]	H2 [mm]	B [mm]	weight [kg]	CV* [m ³ /h]	power coil			
			min.	max. AC	max. DC							AC*	type	DC	type
GMV8572-02AT80-x-x	G 1/4	8	0	16	16	60	140,5	11,5	44	2,4	1,9	33VA / 33VA	B46	29W	B44
GMV8572-03AT100-x-x	G 3/8	10	0	16	16	60	140,5	11,5	44	2,4	3	33VA / 33VA	B46	29W	B44
GMV8572-04AT120-x-x	G 1/2	12	0	16	16	67	140,5	14	44	2,5	3,8	33VA / 33VA	B46	29W	B44
GMV8572-05AT200-x-x	G 3/4	20	0	16	16	80	146,5	15,5	50	2,7	6,1	33VA / 33VA	B46	29W	B44
GMV8572-06AT250-x-x	G 1	25	0	16	16	95	162	21	62	3,1	9,5	33VA / 33VA	B46	29W	B44
GMV8572-07AT320-x-x	G 1 1/4	32	0	16	16	132	183,5	29	92	5,6	23	33VA / 33VA	B24	29W	B22
GMV8572-08AT400-x-x	G1 1/2	40	0	16	16	132	183,5	29	92	5,4	25	33VA / 33VA	B24	29W	B22
GMV8572-09AT500-x-x	G2	50	0	16	16	160	192	34,5	109	6,8	41	33VA / 33VA	B24	29W	B22

*Power coil AC: Declared are the power suit and the holding power.

*CV-Value: The nominal pressure of Kv to VDI / VDE 2173 indicates the water amount in m³ / h, found out at a pressure difference $\Delta p = 1 \text{ bar}$ and a media temperature from +5°C to 30°C.

Order information:

1: Basistype: GMV8572

2: Connection size: 02-06

3: Material:

- 1. Body material: A (brass)
- 2. Sealing: T (PTFE)

4. Nominal size in 1/10mm (s. chart)

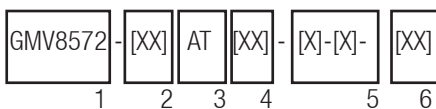
5: Operation:

- Indication of the coil type: B46/B24 (AC) / B44/B22 (DC)
- Indication of the tension:
 - 0: 230V AC
 - 1: 24V DC
 Other tensions on request.

6: Options (see „Options“)

Demands on your application conditions that are not listed on the data sheet, can be requested!

The guide book and the maintenance guidelines, particularly the given safety instructions have to be paid attention to before the installation!



Heating and power of solenoid coils

default solenoid valves are designed for continuous operation (100% ED = power-on time) under normal operating conditions. The pulling force of a solenoid coil is basically influenced by three elements:

- the self-heating of the magnet coil
- the medium temperature
- the ambient temperature

Solenoid coils are by default designed for a maximum ambient temperature of +60 °C. This specification applies for the maximum allowable operating pressure specified in the data sheet of the corresponding valve, 100% duty cycle and a medium temperature of +200 °C.

Operating temperature solenoid (DC) reduces the power consumption. For physical reasons up to approx. 30%.