

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

**Description:**

- 2/2-way valve
- poppet valve with membrane sealing
- force pilot operated
- female thread ISO228
- duty cycle 100% (VDE0580)
- optional installation position, preferable standing magnet
- close muting
- TÜV-type approved

Application area:

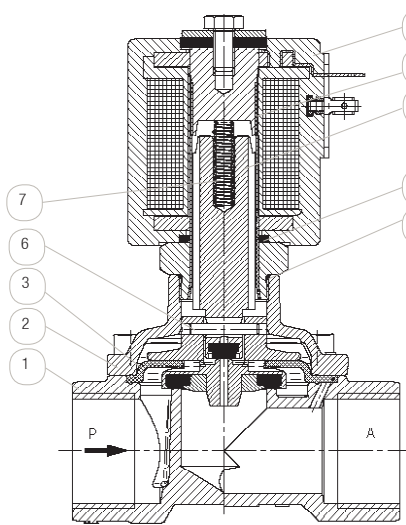
- viscosity 22mm²/s
- media temperature -10°C to +150°C
- ambient temperature -10°C to +60°C
- operating pressure from 0bar
- no difference pressure necessary
- IP65 (with correct installed connector plug)
DIN40050 --> DIN EN 60529
- for hot water and steam

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. The connector plug is included in the scope of supply. 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.

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	Membrane complete	HNBR	H	-
4	O-ring	HNBR		-
5	O-ring	HNBR		-

Wear parts:

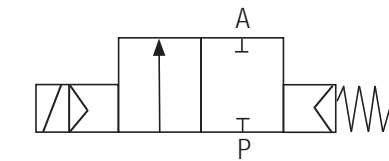
- Pos. 3: Membrane
- Pos. 10: Magnet coil
- Pos. 9: Tubus
- Pos. 6: Dowel pin
- Pos. 7: Pressure spring
- Pos. 8: Plunger
- Pos. 4: O-ring

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

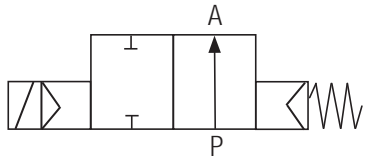
Options:

- OF: free of oil and grease
- CV: body chemical nickel-plated
- NPT: pipe sealing ANSI B 1.20.1

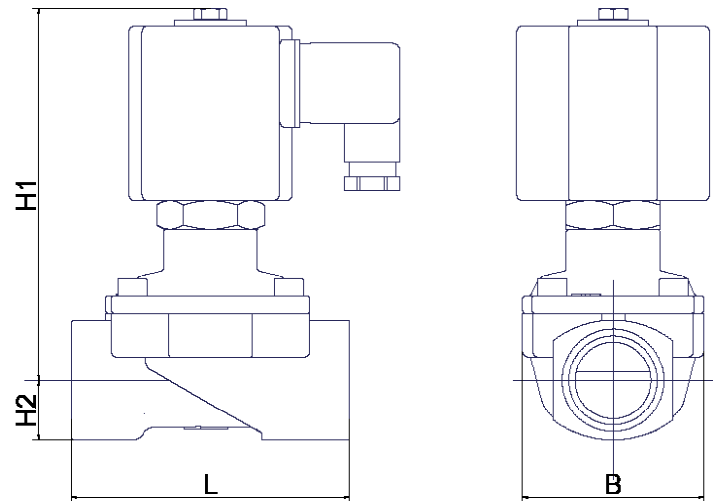
2/2-WAY SOLENOID VALVE, FORCE PILOT OPERATED, FOR STEAM APPLICATIONS



function NC (normally closed valve)



function NO (normally opened valve)



Matchcode	Size [inch]	Nomi- nal size [mm]	Operating 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
GMV8436-02AH80-Bxx-x	G 1/4	8	0,1	10	10	60	117	11,5	44	1,3	1,9	16/14VA	B18	14W	B16
GMV8436-03AH100-Bxx-x	G 3/8	10	0,1	10	10	60	117	11,5	44	1,3	3	16/14VA	B18	14W	B16
GMV8436-04AH120-Bxx-x	G 1/2	12	0,1	10	10	67	117	14	44	1,3	3,8	16/14VA	B18	14W	B16
GMV8436-05AH200-Bxx-x	G 3/4	20	0,1	10	10	80	121	15	50	1,9	6,1	16/14VA	B18	14W	B16
GMV8436-06AH250-Bxx-x	G 1	25	0,1	10	10	95	126	21	62	1,9	9,5	16/14VA	B18	14W	B16

*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 $\Delta p = 1$ bar and a media temperature from +5°C to 30°C.



Appointment details:

1: Basistype: GMV8436

2: Connection size: 02-06

3: Material:

- 1. Body material: A (brass)
- 2. Sealing: H (HNBR)

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

5: Operation:

- Indication of the spindle type: B18 (AC) / B16 (DC)
- Indication of the spindle:
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 +50 °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%.