

**Description:**

- 2/2-way valve
- piston design
- force pilot operated
- flange acc. to EN1092-1, PN40
- duty cycle 100% (VDE0580)
- any installation position, bottom solenoid preferred (up to +150°C vertically to the top)
- close muting
- high flow rate

Range of application:

- viscosity 80mm²/s
- medium temperature 0°C up to +200°C
- ambient temperature: 0°C up to +60°C
- working pressure from 0bar, no pressure difference required
- IP65 (with a professionally installed connector socket) according to DIN40050 --> DIN EN 60529
- for hot water and steam

Comments:

Please note **the flow direction** (marked with arrow on the body) during installation. **Voltage tolerance +10% / -10%** at maximum pressure and standard ambient temperature.

Other voltage, coil power or sealing on request! Included is a **connector socket**. Further connector sockets can be found in the catalog under "spare parts and accessories". **Higher protection class** than IP65 with special coils and connector sockets is possible on request.

Higher **working pressure up to 25 bar** on request.

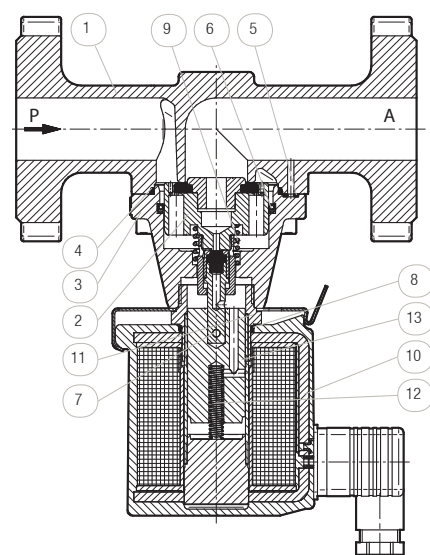
Flanges acc. to **ANSI 150lbs and 300lbs** are also possible.

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.



pos.	part	brass		optional material	
1	body	1.4408	0	-	
2	cover	CW617N		-	
3	valve piston including sealing	PTFE	T	EPDM	E
4	sealing ring			-	
5	o-ring			-	
6	lip seal				
7	cylinder pin				
8	o-ring				

wear parts:

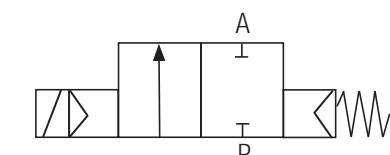
- Pos. 3: valve piston incl. sealing
- Pos. 9: pressure spring
- Pos. 4: sealing ring
- Pos. 5: o-ring
- Pos. 6: lip seal
- Pos. 10: solenoid
- Pos. 11: tube
- Pos. 7: cylinder pin
- Pos. 12: pressure spring
- Pos. 13: plunger
- Pos. 8: o-ring

An overview of the complete material code you can find at the beginning of each product section of the product catalogue.

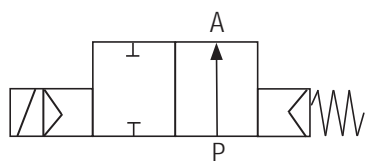
options:

- function NO (normally opened valve): 1 up to 16bar
- OF: free of oil and grease
- CV: body nickel plated chemically
- HA: manual override
- PS: position indicator

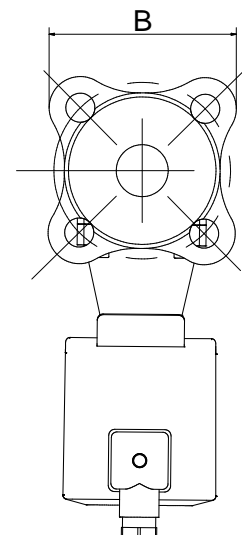
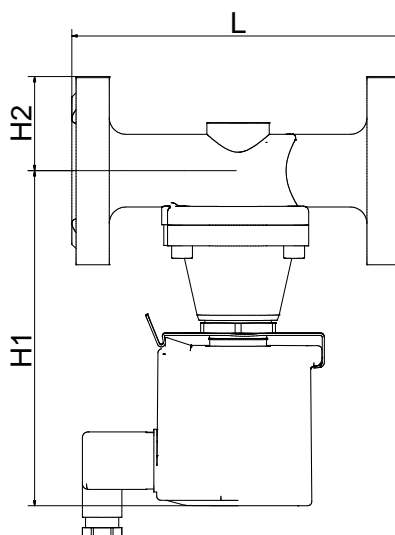
2/2-WAY SOLENOID VALVE WITH FLANGES, FORCE PILOT OPERATED FOR STEAM APPLICATIONS



function NC (normally closed valve)



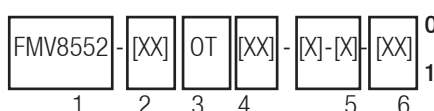
function NO (normally opened valve)



match code	size	nominal size [mm]	working pressure [bar]			L [mm]	H1 [mm]	H2 [mm]	B [mm]	weight [kg]	CV* [m ³ /h]	solenoid power			
			min.	max. AC	max. DC							AC*	type	DC	type
FMV8552-520T150-x-x	DN15	8	0	16	16	130	142	48	44	3.8	3.8	33VA / 33VA	B46	29W	B44
FMV8552-530T200-x-x	DN20	10	0	16	16	150	150	55	50	4.2	6.1	33VA / 33VA	B46	29W	B44
FMV8552-540T250-x-x	DN25	12	0	16	16	160	155	57.5	62	4.8	9.5	33VA / 33VA	B46	29W	B44
FMV8552-550T320-x-x	DN32	20	0	16	16	180	184	70	92	9.6	23	33VA / 33VA	B46	29W	B44
FMV8552-560T400-x-x	DN40	25	0	16	16	200	189	75	92	10	25	33VA / 33VA	B46	29W	B44
FMV8552-570T500-x-x	DN50	32	0	16	16	230	197	82.5	109	11.5	41	33VA / 33VA	B24	29W	B22

***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.



Order information:

1: type: FMV8552

2: connection size: 52-57 (ANSI 82-87)

3: materials:

- 1. digit: body material 0 (stainless steel)
- 2. digit: sealing T (PTFE)

4. nominal size in 1/10mm (see table)

5: operation:

- specification of the solenoid type: B46/B24 (AC) / B44/B22 (DC)
- specification of voltage:
 - 0: 230V AC
 - 1: 24V DC
 - 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!

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%.