SOLENOID VALVE BLOCK
Type MVB-4

The solenoid valve block 4-row made of 1.4305 is used for air monitoring, especially if a redundant measurement with two analyzers in each case is needed. The following functions are possible:

1. Sample switching to analyzer A1
2. Sample switching to analyzer B1
3. Sample switching to analyzer A2
4. Sample switching to analyzer B2
5. Continuous bypass flow

The valve block consists of a 4-row basic unit with 6 sample inlets. This basic unit can be extended with other basic units as often as required. The valves are rapid switching solenoid valves, which have a very long life time – tested over 500 million switching operations. The connections for the individual sample gases and the calibration gases are made by flange adapters, which have integrated sinter metal filters. Additionally, each sample inlet can be equipped with a continuous bypass flow.

Options

- **Number of basic units:** only limited by total weight
- **Type of valve:** standard; for moisture analysis
- **Electrical connection:** soldering lug; cable
- **Split flow:** yes/no
- **Gas connection:** double ferrule fittings: 2 mm; 3 mm; 6 mm; 1/16"; 1/8"; 1/4"

  hose: 4.3 mm; 6 mm
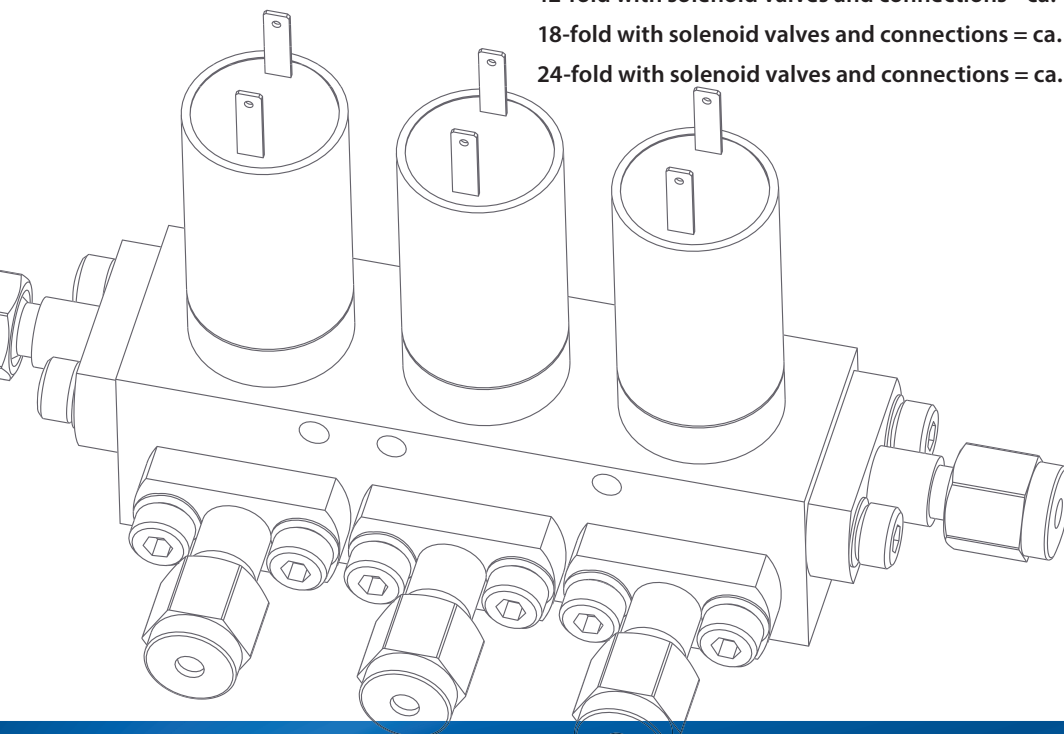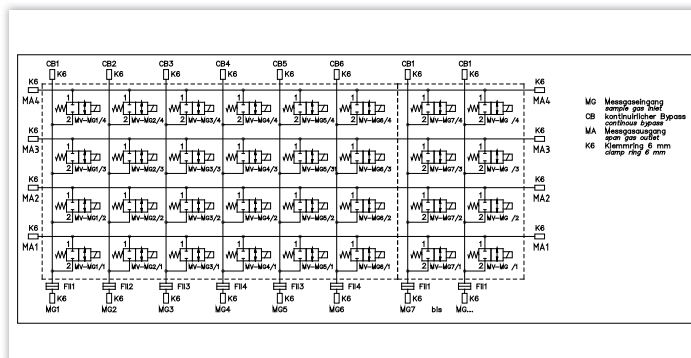- **Filter:** 20 µm; 50 µm

Application example
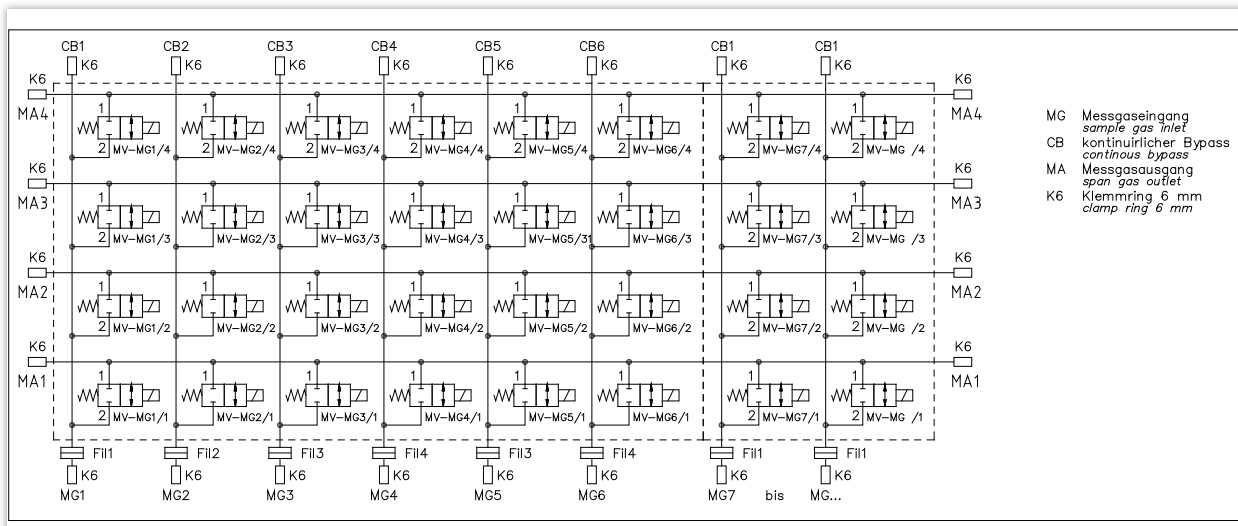
Technische Daten

Valve:

- **Type:** 2/2 - ways solenoid valve NC
- **Voltage:** 24 VDC
- **Power consumption:** 1.5 Watt
- **Response time:** < 10 ms
- **Orifice:** 1.25 mm
- **Flow coefficient K_v:** 0.025 m³/h
- **Max. gas pressure:** 7.0 bar for NC
- **Ambient temperature:** -20°C to + 60°C
- **Gas temperature:** 0°C to 60°C
- **Housing:** 1.4016
- **Seal material:** FKM
- **Type of protection:** IP40
- **Electrical connection:** soldering lug or cable tail (length 700 mm)
- **Materials of wetted parts:** 1.4016; FKM
- **Special models:** for moisture analysis

Solenoid valve block:

- **Material:** 1.4305
- **Dimensions (W x H x D):**

  6-fold with solenoid valves and connections = 220 x 75 x 180 mm

  12-fold with solenoid valves and connections = 375 x 75 x 180 mm

  18-fold with solenoid valves and connections = 530 x 75 x 180 mm

  24-fold with solenoid valves and connections = 685 x 75 x 180 mm

- **Weight:**

  6-fold with solenoid valves and connections = ca. 5.5 kg

  12-fold with solenoid valves and connections= ca. 11 kg

  18-fold with solenoid valves and connections = ca. 16.5 kg

  24-fold with solenoid valves and connections = ca. 22 kg

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Configuration solenoid valve block

Date:

Company:

Name:

Project:

Remarks:

☐ Adapter board with LED and anti-surge diode

☐ Anti-surge diode

B:	Blind flange	BS:	Blind screw
K2:	Double ferrule fitting 2 mm	S:	2/2-ways
K3:	Double ferrule fitting 3 mm	SK:	2/2-ways with cable
K6:	Double ferrule fitting 6 mm		
K16:	Double ferrule fitting 1/16"	STD:	Standard valve
K18:	Double ferrule fitting 1/8"	H:	For moisture analysis
K14:	Double ferrule fitting 1/4"	O:	For oxygen application
R4:	Hose 4.3 mm	Y:	For moisture analysis +
R6:	Hose 6 mm		For oxygen application
F20:	Filter 20 µm		
F50:	Filter 50 µm		

Fillable form at:
www.cgs-company.de/downloads/MDZ_E_D_MVB-4.pdf
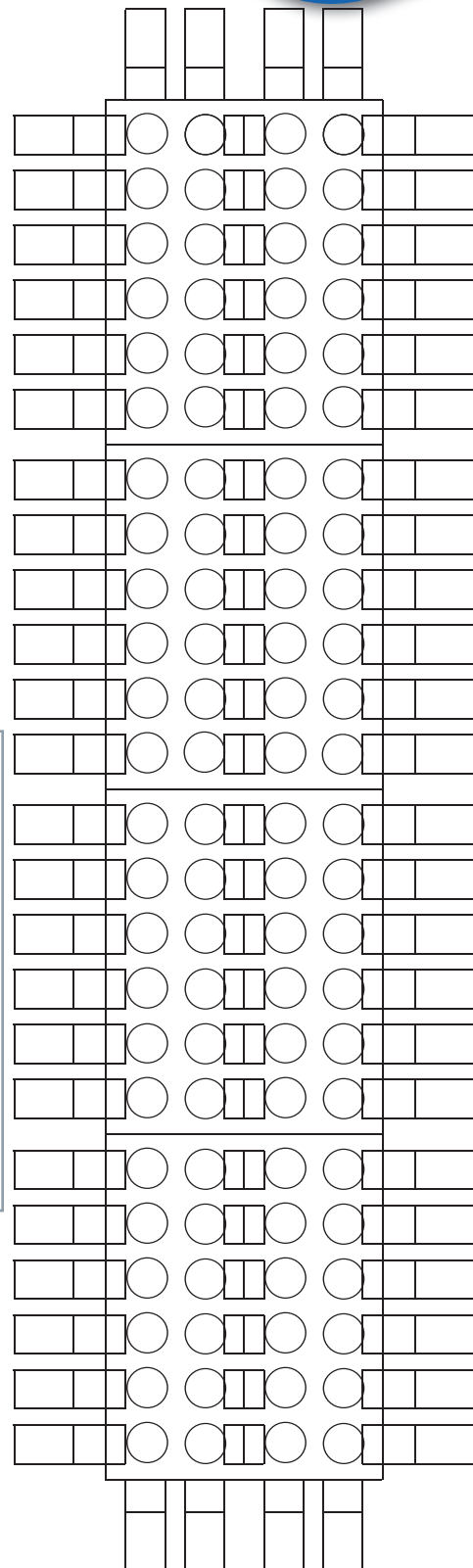
Spare parts

Order No.	Article
1026309	Sintered metal frit set (10 pcs.); pore size 50 µm
1026308	Sintered metal frit set (10 pcs.); pore size 20 µm
1026311	O-ring set; flange 24 (10 pcs.); FKM 6.00x2.00 mm
1027879	Flange set; flange 24; 6 mm Tube Fitting
1027882	Flange set; flange 24; 3 mm Tube Fitting
1027885	Flange set; flange 24; 2 mm Tube Fitting
1027881	Flange set; flange 24; 1/4" Tube Fitting
1027883	Flange set; flange 24; 1/8" Tube Fitting
1027886	Flange set; flange 24; 1/16" Tube Fitting
1027898	Flange set; flange 24; Hose 4.3 mm
1027900	Flange set; flange 24; Hose 6 mm
1027902	Blind flange set for flange 24
1010547	Blind screw; instead of screw in solenoid valve
1027694	Solenoid valve; 2-ways; 24 VDC; FKM; with soldering lug
1027695	Solenoid valve; 2-ways; 24 VDC; FKM; with connection cable 700 mm
1024302	Solenoid valve; H2O; 2-ways; 24 VDC; FKM; with soldering lug
1024306	Solenoid valve; H2O; 2-ways; 24 VDC; FKM; with connection cable 700 mm
1030681	Solenoid valve; O2; 2-ways; 24 VDC; FKM; with soldering lug
1030682	Solenoid valve; O2; 2-ways; 24 VDC; FKM; with connection cable 700 mm
1030685	Solenoid valve; O2; 2-ways; 24 VDC; FKM; with soldering lug
1030686	Solenoid valve; O2; 2-ways; 24 VDC; FKM; with connection cable 700 mm
1027696	Solenoid valve; 3/2-ways; 24 VDC; FKM; with soldering lug
1019762	Solenoid valve; 3/2-ways; 24 VDC; with connection cable 300 mm
1024193	Solenoid valve; H2O; 3/2-ways; 24 VDC; with soldering lug
1024308	Solenoid valve; H2O; 3/2-ways; 24 VDC; with connection cable 300 mm
1030683	Solenoid valve; O2; 3/2-ways; 24 VDC; FKM; with soldering lug
1030684	Solenoid valve; O2; 3/2-ways; 24 VDC; with connection cable 300 mm
1030687	Solenoid valve; H2O; O2; 3/2-ways; 24 VDC; FKM; with soldering lug
1030688	Solenoid valve; H2O; O2; 3/2-ways; 24 VDC; with connection cable 300 mm
1030849	O-ring set screw in solenoid valve (2*10 pcs.); FKM 14.00x1.78 mm; FKM 6.60x1.50 mm
1017821	Adapter board; LED module; 24 V
1030851	Free-wheeling diode set (10 pcs.) for solenoid valve
1017105	Hook spanner for screw in solenoid valve; DIN 1810
1027187	Socket wrench for screw in solenoid valve
1016639	Check valve