

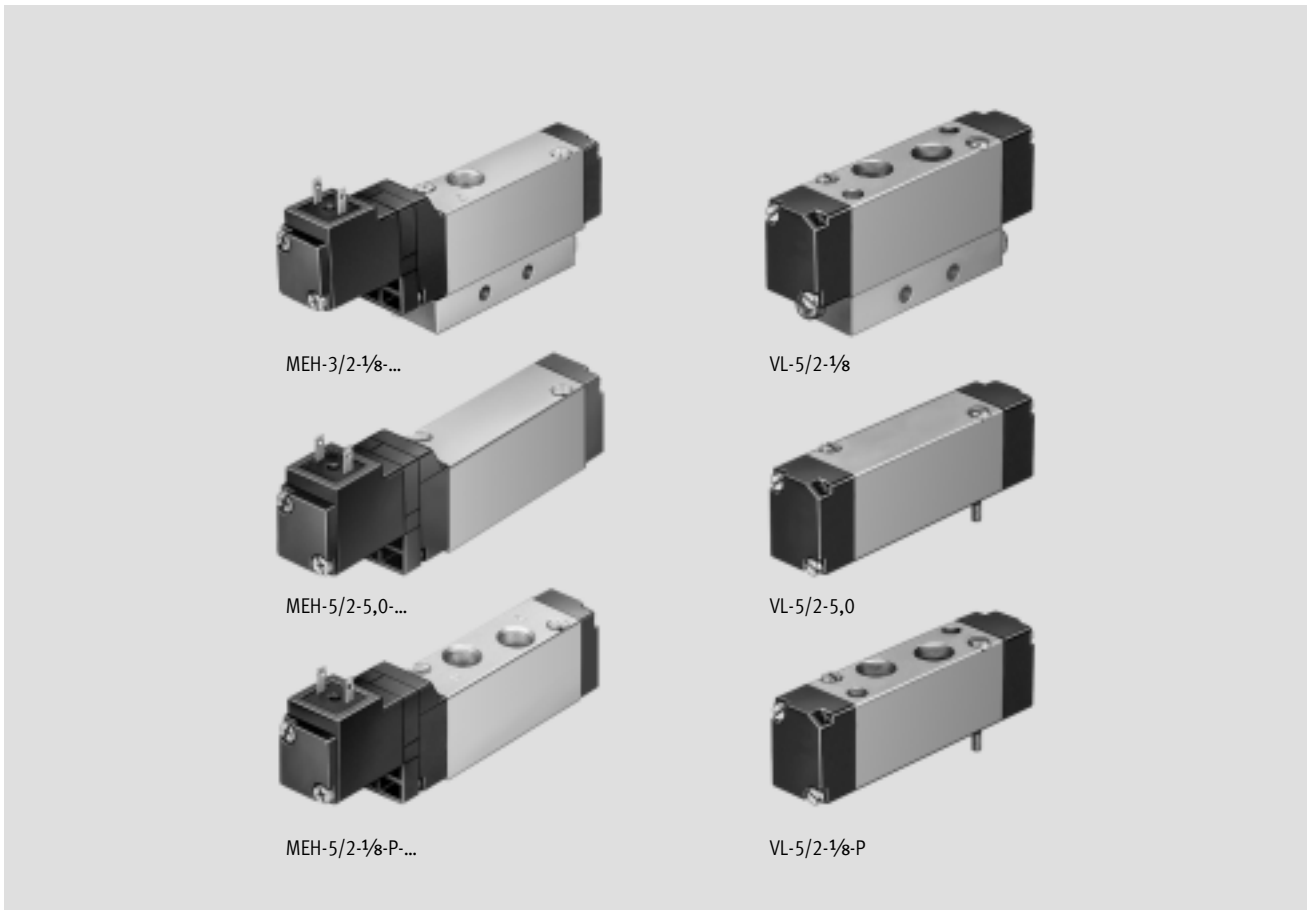





- Electrically or pneumatically actuated valves
- Valves with internal or external pilot air
- Manifold mounting for 2 ... 10 valves or individual mounting

Solenoid/pneumatic valves, midi pneumatics

Features

FESTO



| Parameter | Variants | Possible combinations | Mounting |
|--|---|---|---|
| <p> Flow rate 200 ... 700 l/min</p> | <ul style="list-style-type: none"> Electrically and pneumatically actuated valves 3/2, 5/2 and 5/3-way valves | <ul style="list-style-type: none"> Any number of valves can be added with series sub-bases 2 ... 10 manifold mounted valves with blanking plates for spare positions Prefabricated plug socket with cable, LED and protective circuit Cable and solenoid coil for assembly by user Manual override | <p>Semi in-line valves, threaded</p> <ul style="list-style-type: none"> Individual mounting <p>Sub-base valves</p> <ul style="list-style-type: none"> Sub-base Series sub-base <p>Valves with in-line connection at top</p> <ul style="list-style-type: none"> PRS manifold |
| <p> Width 18 mm</p> | <ul style="list-style-type: none"> Sub-base valves Semi in-line valves | | |
| <p> Voltage 24 V DC 110 or 230 V AC</p> | | | |

Solenoid/pneumatic valves, midi pneumatics

Features

Mounting options

Individual sub-base

Connection at side

AS-ME-1/8

AS-VL-1/8



Connection underneath

AU-ME-1/8



Manifold mounting

Series sub-base

AW-ME-1/8



AW-VL-1/8



Intermediate plate

ZP-ME-1/8



End plate kit

EP-ME-1/8



Blanking plate for spare positions

PRMEB-5



In-line manifold

PRS-ME-1/8



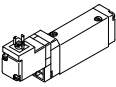
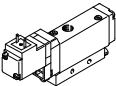
Blanking plate for spare positions

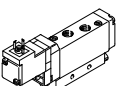
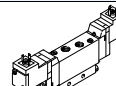
PRSB-ME-1/8

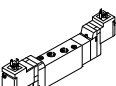


Solenoid valves MEH/MEBH, midi pneumatics

Overview – Solenoid valves

| Function | Design | Type | Nominal flow rate [l/min] | Pneumatic connection | Operating voltage | | Semi in-line valve | Sub-base valve |
|----------------|---|---------------|------------------------------|----------------------|-------------------|----------|--------------------|----------------|
| | | | | | [V DC] | [V AC] | | |
| 3/2-way valves |  | MEBH-3/2-... | 700 | 5.0 mm | 24 | 110, 230 | - | ■ |
| | | | 600 | G1/8 | | | ■ | - |
| | | MOEBH-3/2-... | 700 | 5.0 mm | 24 | 110, 230 | - | ■ |
| | | | 600 | G1/8 | | | ■ | - |
| |  | MEH-3/2-... | 700 | 5.0 mm | 24 | - | - | ■ |
| | | | 600 | G1/8 | | | ■ | - |
| | | MOEH-3/2-... | 700 | 5.0 mm | 24 | - | - | ■ |
| | | | 600 | G1/8 | | | ■ | - |

| Function | Design | Type | Nominal flow rate [l/min] | Pneumatic connection | Operating voltage | | Semi in-line valve | Sub-base valve | | |
|----------------|---|---|------------------------------|----------------------|-------------------|----------|--------------------|----------------|---|--|
| | | | | | [V DC] | [V AC] | | | | |
| 5/2-way valves |  | MEBH-5/2-... | 700 | 5.0 mm | 24 | 110, 230 | - | ■ | | |
| | | | 600 | G1/8 | | | ■ | - | | |
| | | MEH-5/2-... | 700 | 5.0 mm | 24 | - | - | ■ | | |
| | | | 600 | G1/8 | | | ■ | - | | |
| | | Double solenoid valve | | | | | | | | |
| | |  | JMEBH-5/2-... | 700 | 5.0 mm | 24 | 110, 230 | - | ■ | |
| | 650 | | | G1/8 | ■ | | | - | | |
| | JMEH-5/2-... | | 700 | 5.0 mm | 24 | - | - | ■ | | |
| | | | 650 | G1/8 | | | ■ | - | | |

| Function | Design | Type | Nominal flow rate [l/min] | Pneumatic connection | Operating voltage | | Semi in-line valve | Sub-base valve |
|----------------|---|-------------|------------------------------|----------------------|-------------------|----------|--------------------|----------------|
| | | | | | [V DC] | [V AC] | | |
| 5/3-way valves |  | MEBH-5/3... | 500 | 5.0 mm | 24 | 110, 230 | - | ■ |
| | | | 600 | G1/8 | | | ■ | - |
| | | | 400 | 5.0 mm | | | - | ■ |
| | | | 300 | G1/8 | | | ■ | - |
| | | | 400 | 5.0 mm | | | - | ■ |
| | | | 200 | G1/8 | | | ■ | - |
| | | MEH-5/3... | 500 | 5.0 mm | 24 | - | - | ■ |
| | | | 600 | G1/8 | | | ■ | - |
| | | | 400 | 5.0 mm | | | - | ■ |
| | | | 300 | G1/8 | | | ■ | - |
| | | | 400 | 5.0 mm | | | - | ■ |
| | | | 200 | G1/8 | | | ■ | - |

Solenoid valves MEH/MEBH, midi pneumatics

Overview – Solenoid valves



| Type | Pilot air supply | | Type of reset | | Normal position | | → Page/Internet |
|-----------------------|------------------|----------|------------------|-------------------|-----------------|------|-----------------|
| | internal | external | pneumatic spring | mechanical spring | closed | open | |
| Solenoid valve | | | | | | | |
| MEBH-3/2-... | ■ | - | - | ■ | ■ | - | 9 |
| MOEBH-3/2-... | ■ | - | - | ■ | - | ■ | |
| MEH-3/2-... | ■ | - | - | ■ | ■ | - | 21 |
| MOEH-3/2-... | ■ | - | - | ■ | - | ■ | |

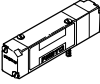
| Type | Pilot air supply | | Type of reset | | Normal position | | → Page/Internet |
|------------------------------|------------------|----------|------------------|-------------------|-----------------|------|-----------------|
| | internal | external | pneumatic spring | mechanical spring | closed | open | |
| Solenoid valve | | | | | | | |
| MEBH-5/2-... | ■ | ■ | ■ | ■ | - | - | 9 |
| MEH-5/2-... | ■ | ■ | ■ | ■ | - | - | 21 |
| Double solenoid valve | | | | | | | |
| JMEBH-5/2-... | ■ | ■ | - | - | - | - | 9 |
| JMEH-5/2-... | ■ | ■ | - | - | - | - | 21 |

| Type | Pilot air supply | | Type of reset | | Normal position | | | → Page/Internet |
|-----------------------|------------------|----------|------------------|-------------------|-----------------|-----------|-------------|-----------------|
| | internal | external | pneumatic spring | mechanical spring | closed | exhausted | pressurised | |
| Solenoid valve | | | | | | | | |
| MEBH-5/3-... | ■ | ■ | - | ■ | ■ | - | - | 9 |
| | ■ | ■ | - | ■ | - | ■ | - | |
| | ■ | ■ | - | ■ | - | - | ■ | |
| MEH-5/3-... | ■ | ■ | - | ■ | ■ | - | - | 21 |
| | ■ | ■ | - | ■ | - | ■ | - | |
| | ■ | ■ | - | ■ | - | - | ■ | |

Pneumatic valves VL/J, midi pneumatics

Overview – Pneumatic valves

| Function | Design | Type | Nominal flow rate [l/min] | Pneumatic connection | Semi in-line valve | Sub-base valve |
|----------------|---|------------|---------------------------|----------------------|--------------------|----------------|
| 5/2-way valves | Pneumatic valve | | | | | |
| |  | VL-5/2-... | 700 | 5.0 mm | - | ■ |
| | | | 600 | G $\frac{1}{8}$ | ■ | - |
| | Double pilot valve | | | | | |
| |  | J-5/2-... | 700 | 5.0 mm | - | ■ |
| | | | 650 | G $\frac{1}{8}$ | ■ | - |

| Function | Design | Type | Nominal flow rate [l/min] | Pneumatic connection | Semi in-line valve | Sub-base valve |
|----------------|---|-----------|---------------------------|----------------------|--------------------|----------------|
| 5/3-way valves | Pneumatic valve | | | | | |
| |  | VL-5/3... | 600 | 5.0 mm | - | ■ |
| | | | 500 | G $\frac{1}{8}$ | ■ | - |
| | | | 350 | 5.0 mm | - | ■ |
| | | | 350 | G $\frac{1}{8}$ | ■ | - |
| | | | 300 | 5.0 mm | - | ■ |
| | | | 300 | G $\frac{1}{8}$ | ■ | - |

Pneumatic valves VL/J, midi pneumatics

Overview – Pneumatic valves

| Type | Pilot air supply | | Type of reset | | → Page/Internet |
|---------------------------|------------------|----------|------------------|-------------------|-----------------|
| | internal | external | pneumatic spring | mechanical spring | |
| Pneumatic valve | | | | | |
| VL-5/2-... | ■ | - | - | ■ | 34 |
| Double pilot valve | | | | | |
| J-5/2-... | ■ | - | - | - | 34 |

| Type | Pilot air supply | | Normal position | | | → Page/Internet |
|------------------------|------------------|----------|-----------------|-----------|-------------|-----------------|
| | internal | external | closed | exhausted | pressurised | |
| Pneumatic valve | | | | | | |
| VL-5/3... | ■ | - | ■ | - | - | 34 |
| | ■ | - | - | ■ | - | |
| | ■ | - | - | - | ■ | |

Solenoid valves MEH/MEBH, midi pneumatics

Type codes

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MEBH – 5/2 – 1/8 – P – L – B – 110AC

| Type | |
|-------|---|
| MEBH | Single solenoid, with EB solenoid coil |
| MOEBH | Single solenoid, with EB solenoid coil, normally open |
| MEH | Single solenoid, with E solenoid coil |
| MOEH | Single solenoid, with E solenoid coil, normally open |
| JMEBH | Double solenoid, with EB solenoid coil |
| JMEH | Double solenoid, with E solenoid coil |

| Valve function | |
|----------------|---------------|
| 3/2 | 3/2-way valve |
| 5/2 | 5/2-way valve |
| 5/3 | 5/3-way valve |

| Normal position | |
|-----------------|-------------|
| G | Closed |
| E | Exhausted |
| B | Pressurised |

| Design, pneumatic connection/nominal size | |
|---|---------------------------------|
| 1/8 | Semi in-line valve, thread G1/8 |
| 5.0 | Sub-base valve, 5 mm |

| Mounting method | |
|-----------------|--------------------|
| P | On manifold PRS-ME |

| Type of reset | |
|---------------|-------------------|
| | Mechanical spring |
| L | Pneumatic spring |

| Pilot air supply | |
|------------------|----------|
| | Internal |
| S | External |


| Generation | |
|------------|----------|
| B | B series |


| Operating voltage | |
|-------------------|----------|
| | 24 V DC |
| 110AC | 110 V AC |
| 230AC | 230 V AC |

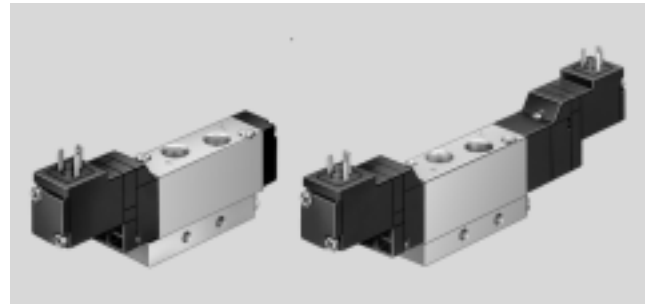
Solenoid valves MEBH, midi pneumatics

FESTO

Technical data

-  - Flow rate
200 ... 700 l/min

-  - Voltage
24 V DC
110/230 V AC



| General technical data | | | | | | | |
|--|-----------|---|--------------|---------------|-------------|-----|-----|
| Type | | MEBH-3/2-... MOEBH-3/2-... | MEBH-5/2-... | JMEBH-5/2-... | MEBH-5/3... | | |
| Design | | Piston spool | | | | | |
| Type of mounting | ...-1/8 | 2 through-holes | | | | | |
| | ...-5.0 | On sub-base with two M3 screws | | | | | |
| | ...-1/8-P | On manifold with two M3 screws | | | | | |
| Pneumatic connection | ...-1/8 | G1/8 | | | | | |
| | ...-5.0 | Sub-base | | | | | |
| | ...-1/8-P | G1/8 | | | | | |
| Lap | | Overlap | | | | | |
| Nominal size | [mm] | 5 | | | | | |
| Standard nominal flow rate 1 > 2, 1 > 4 | | | | | G | E | B |
| | ...-1/8 | 600/500 | 600 | 650 | 600 | 300 | 200 |
| | ...-5.0 | 700/600 | 700 | 700 | 500 | 400 | 400 |
| | ...-1/8-P | 600/500 | 600 | 650 | 650 | 300 | 200 |
| Materials | | Housing: Aluminium Seals: Nitrile rubber | | | | | |
| Weight | [g] | | | | | | |
| | ...-1/8 | 105 | 105 | 142 | 153 | | |
| | ...-5.0 | 105 | 105 | 146 | 150 | | |
| ...-1/8-P | 105 | 105 | 142 | 153 | | | |

| Operating and environmental conditions | | | | | | | |
|---|---------------------------|--|--------------|---------------|-------------|---------|--|
| Type | | MEBH-3/2-... MOEBH-3/2-... | MEBH-5/2-... | JMEBH-5/2-... | MEBH-5/3... | | |
| Operating medium | | Compressed air in accordance with ISO 8573-1:2010 [7:4:4] ¹⁾ | | | | | |
| Note on operating/pilot medium | | Operation with lubricated medium possible (in which case lubricated operation will always be required) | | | | | |
| Operating pressure range | Internal pilot air supply | [bar] | 2 ... 8 | 2.5 ... 8 | 1.5 ... 8 | 3 ... 8 | |
| | External pilot air supply | [bar] | - | -0.9 ... +10 | | | |
| Pilot pressure range | | [bar] | - | 2.5 ... 8 | 1.5 ... 8 | 3 ... 8 | |
| Ambient temperature | | [°C] | -5 ... +50 | | | | |
| Temperature of medium | | [°C] | -5 ... +50 | | | | |
| Note on materials | | RoHS-compliant | | | | | |
| CE mark (see declaration of conformity) for valves with nominal operating voltage 110/230 V AC | | To EU Low Voltage Directive | | | | | |

1) Only oils of viscosity class 32 may be used for lubricated operation.

Solenoid valves MEBH, midi pneumatics

Technical data

| Valve response times [ms] | | | | | | | |
|---------------------------|-------------------------------|-----------|--------------|-----------|---------------|-------------|-----------|
| Type | MEBH-3/2-... MOEBH-3/2-... | | MEBH-5/2-... | | JMEBH-5/2-... | MEBH-5/3... | |
| Type of reset | mechanical | pneumatic | mechanical | pneumatic | – | mechanical | pneumatic |
| On | 10 | – | 10 | 15 | – | 12 | – |
| Off | 28 | – | 28 | 18 | – | 25 | – |
| Changeover | – | – | – | – | 10 | – | – |

| Electrical data | | | |
|-------------------------------|--------------|--------|--|
| EB solenoid coil | | | |
| Electrical connection | | | Plug, square design to EN 175301-803, type C |
| Operating voltage | D.C. voltage | [V DC] | 24 |
| | AC voltage | [V AC] | 110/230 (50 ... 60 Hz) |
| Coil characteristics | D.C. voltage | [W] | 1.5 |
| | AC voltage | [VA] | 2.4 |
| Protection class to EN 60 529 | | | IP65 (in combination with plug socket) |

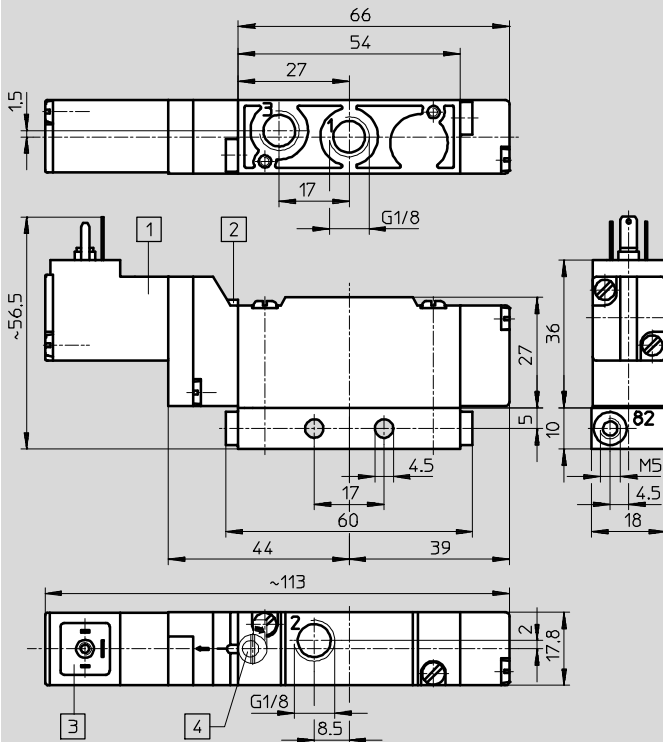
Solenoid valves MEBH, midi pneumatics

Technical data – 3/2-way valves

Dimensions

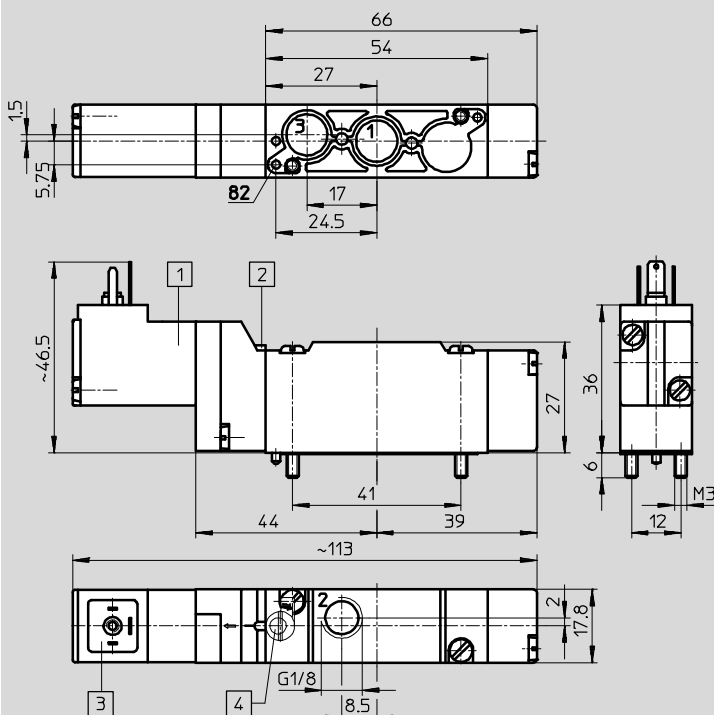
Download CAD data → www.festo.com

Semi in-line valve with thread G1/8



- 1 Solenoid coil can be rotated 180°¹⁾
 - 2 Manual override
 - 3 Suitable for plug sockets to EN 175301-803, form C: MSSD-EB or KMEB-...
 - 4 Manual override tool (accessory) AHB-ME-1/8
- 1) The seal must not be turned!

Semi in-line valve for manifold PRS-ME



- 1 Solenoid coil can be rotated 180°¹⁾
 - 2 Manual override
 - 3 Suitable for plug sockets to EN 175301-803, form C: MSSD-EB or KMEB-...
 - 4 Manual override tool (accessory) AHB-ME-1/8
- 1) The seal must not be turned!

Solenoid valves MEBH, midi pneumatics

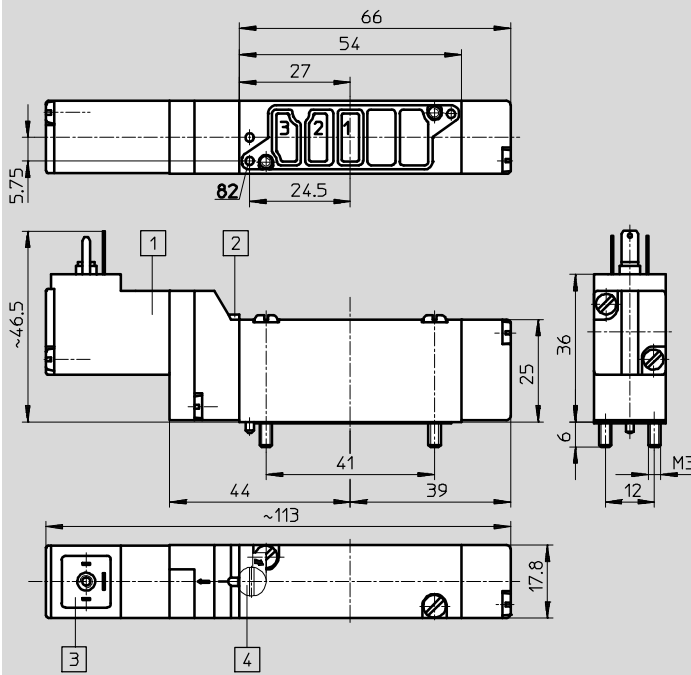
Technical data – 3/2-way valves

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Dimensions

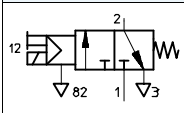
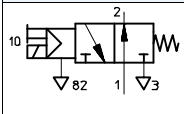
Download CAD data → www.festo.com

Sub-base valve



- 1 Solenoid coil can be rotated 180°¹⁾
 - 2 Manual override
 - 3 Suitable for plug sockets to EN 175301-803, form C: MSSD-EB or KMEB-...
 - 4 Manual override tool (accessory) AHB-ME-1/8
- 1) The seal must not be turned!

Ordering data

| Circuit symbol | Description | Voltage | Part No. | Type |
|---|--|----------|---------------|--------------------------------|
| Normally closed | | | | |
|  | Semi in-line valve with thread G1/8 | 24 V DC | 172998 | MEBH-3/2-1/8-B |
| | | 110 V AC | 173042 | MEBH-3/2-1/8-B-110AC |
| | | 230 V AC | 173084 | MEBH-3/2-1/8-B-230AC |
| | Semi in-line valve for manifold PRS-ME | 24 V DC | 173000 | MEBH-3/2-1/8-P-B |
| | | 110 V AC | 173056 | MEBH-3/2-1/8-P-B-110AC |
| | | 230 V AC | 173098 | MEBH-3/2-1/8-P-B-230AC |
| | Sub-base valve | 24 V DC | 172999 | MEBH-3/2-5,0-B |
| | | 110 V AC | 173070 | MEBH-3/2-5,0-B-110AC |
| | | 230 V AC | 173112 | MEBH-3/2-5,0-B-230AC |
| Normally open | | | | |
|  | Semi in-line valve with thread G1/8 | 24 V DC | 173001 | MOEBH-3/2-1/8-B |
| | | 110 V AC | 173053 | MOEBH-3/2-1/8-B-110AC |
| | | 230 V AC | 173095 | MOEBH-3/2-1/8-B-230AC |
| | Semi in-line valve for manifold PRS-ME | 24 V DC | 173003 | MOEBH-3/2-1/8-P-B |
| | | 110 V AC | 173067 | MOEBH-3/2-1/8-P-B-110AC |
| | | 230 V AC | 173095 | MOEBH-3/2-1/8-P-B-230AC |
| | Sub-base valve | 24 V DC | 173002 | MOEBH-3/2-5,0-B |

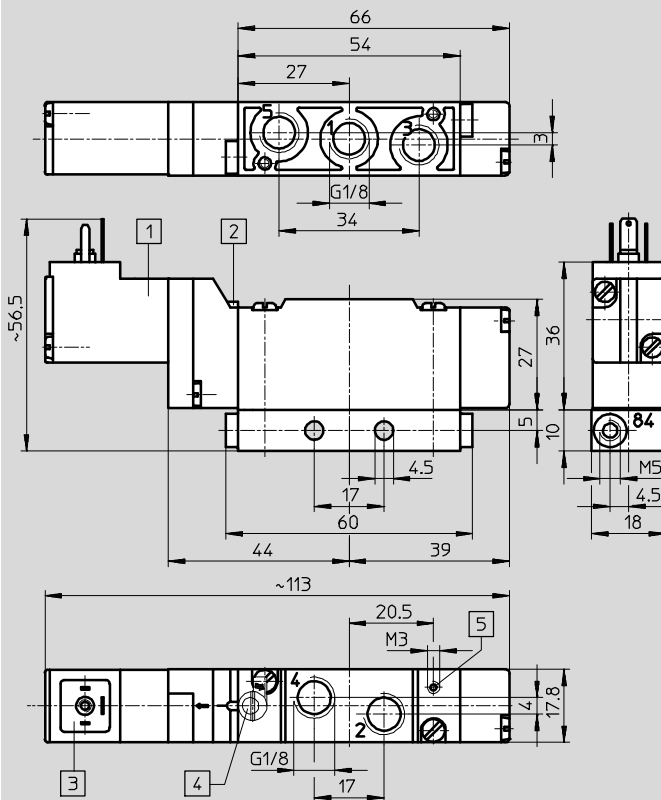
Solenoid valves MEBH, midi pneumatics

Technical data – 5/2-way valves

Dimensions

Download CAD data → www.festo.com

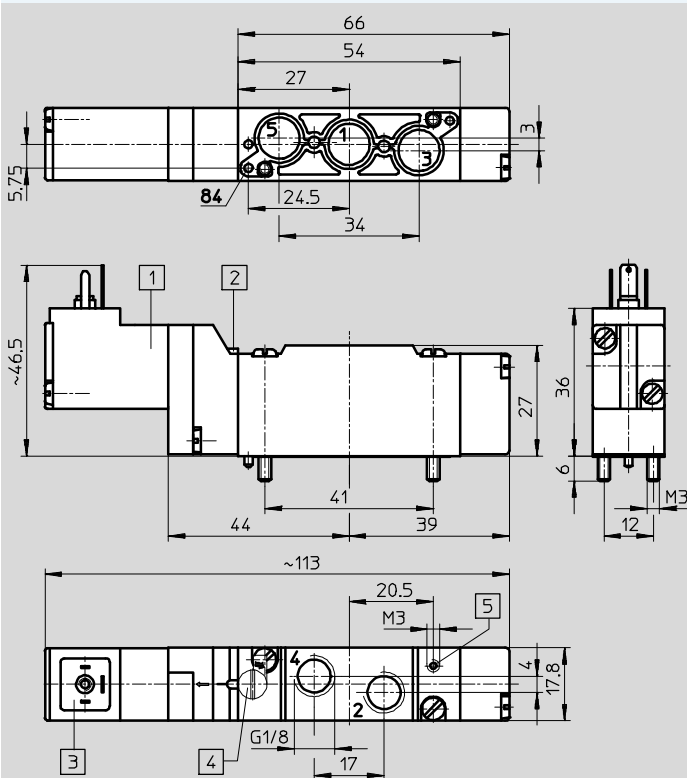
Semi in-line valve with thread G1/8



- 1 Solenoid coil can be rotated 180°¹⁾
- 2 Manual override
- 3 Suitable for plug sockets to EN 175301-803, form C: MSSD-EB or KMEB-...
- 4 Manual override tool (accessory) AHB-ME-1/8
- 5 Port for external pilot air on S types

1) The seal must not be turned!

Semi in-line valve for manifold PRS-ME



- 1 Solenoid coil can be rotated 180°¹⁾
- 2 Manual override
- 3 Suitable for plug sockets to EN 175301-803, form C: MSSD-EB or KMEB-...
- 4 Manual override tool (accessory) AHB-ME-1/8
- 5 Port for external pilot air on S types

1) The seal must not be turned!

Solenoid valves MEBH, midi pneumatics

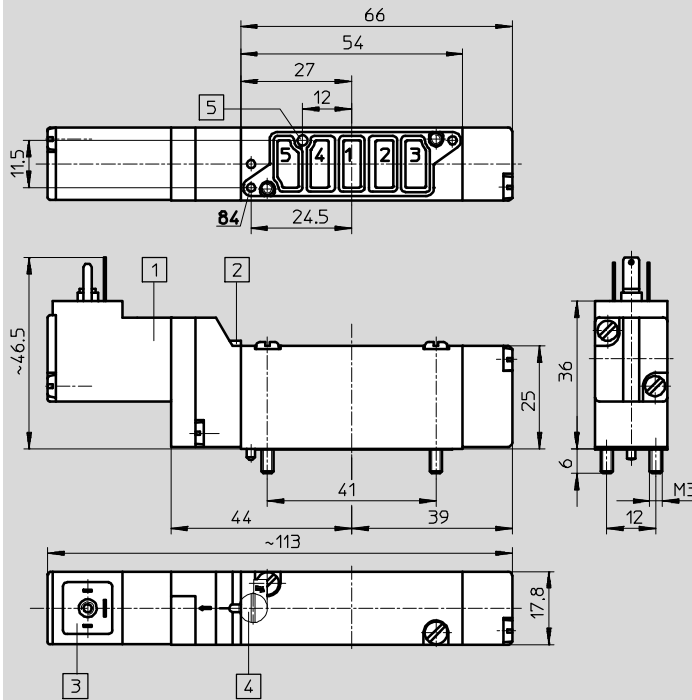
Technical data – 5/2-way valves

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Dimensions

Download CAD data → www.festo.com

Sub-base valve



- 1 Solenoid coil can be rotated 180°¹⁾
- 2 Manual override
- 3 Suitable for plug sockets to EN 175301-803, form C: MSSD-EB or KMEB-...
- 4 Manual override tool (accessory) AHB-ME-1/8
- 5 Port for external pilot air on S types

1) The seal must not be turned!

Solenoid valves MEBH, midi pneumatics

Technical data – 5/2-way valves

| Ordering data | | | | |
|--|--|----------|--------------------------|----------------------------|
| Circuit symbol | Description | Voltage | Part No. | Type |
| Mechanical spring return, internal pilot air supply | | | | |
| | Semi in-line valve with thread G1/8 | 24 V DC | 173004 | MEBH-5/2-1/8-B |
| | | 110 V AC | 173043 | MEBH-5/2-1/8-B-110AC |
| | | 230 V AC | 173085 | MEBH-5/2-1/8-B-230AC |
| | Semi in-line valve for manifold PRS-ME | 24 V DC | 173006 | MEBH-5/2-1/8-P-B |
| | | 110 V AC | 173057 | MEBH-5/2-1/8-P-B-110AC |
| | | 230 V AC | 173099 | MEBH-5/2-1/8-P-B-230AC |
| | Sub-base valve | 24 V DC | 173005 | MEBH-5/2-5,0-B |
| | | 110 V AC | 173071 | MEBH-5/2-5,0-B-110AC |
| | | 230 V AC | 173113 | MEBH-5/2-5,0-B-230AC |
| Mechanical spring return, external pilot air supply | | | | |
| | Semi in-line valve with thread G1/8 | 24 V DC | 173007 | MEBH-5/2-1/8-S-B |
| | | 110 V AC | 173046 | MEBH-5/2-1/8-S-B-110AC |
| | | 230 V AC | 173088 | MEBH-5/2-1/8-S-B-230AC |
| | Semi in-line valve for manifold PRS-ME | 24 V DC | 173009 | MEBH-5/2-1/8-P-S-B |
| | | 110 V AC | 173060 | MEBH-5/2-1/8-P-S-B-110AC |
| | | 230 V AC | 173102 | MEBH-5/2-1/8-P-S-B-230AC |
| | Sub-base valve | 24 V DC | 173008 | MEBH-5/2-5,0-S-B |
| | | 110 V AC | 173074 | MEBH-5/2-5,0-S-B-110AC |
| | | 230 V AC | 173116 | MEBH-5/2-5,0-S-B-230AC |
| Pneumatic spring return, internal pilot air supply | | | | |
| | Semi in-line valve with thread G1/8 | 24 V DC | 173010 | MEBH-5/2-1/8-L-B |
| | | 110 V AC | 173044 | MEBH-5/2-1/8-L-B-110AC |
| | | 230 V AC | 173086 | MEBH-5/2-1/8-L-B-230AC |
| | Semi in-line valve for manifold PRS-ME | 24 V DC | 173012 | MEBH-5/2-1/8-P-L-B |
| | | 110 V AC | 173058 | MEBH-5/2-1/8-P-L-B-110AC |
| | | 230 V AC | 173100 | MEBH-5/2-1/8-P-L-B-230AC |
| | Sub-base valve | 24 V DC | 173011 | MEBH-5/2-5,0-L-B |
| | | 110 V AC | 173072 | MEBH-5/2-5,0-L-B-110AC |
| | | 230 V AC | 173114 | MEBH-5/2-5,0-L-B-230AC |
| Pneumatic spring return, external pilot air supply | | | | |
| | Semi in-line valve with thread G1/8 | 24 V DC | 173013 | MEBH-5/2-1/8-L-S-B |
| | | 24 V DC | 173015 | MEBH-5/2-1/8-P-L-S-B |
| | Semi in-line valve for manifold PRS-ME | 110 V AC | 173059 | MEBH-5/2-1/8-P-L-S-B-110AC |
| | | 24 V DC | 173014 | MEBH-5/2-5,0-L-S-B |
| | 110 V AC | 173073 | MEBH-5/2-5,0-L-S-B-110AC | |

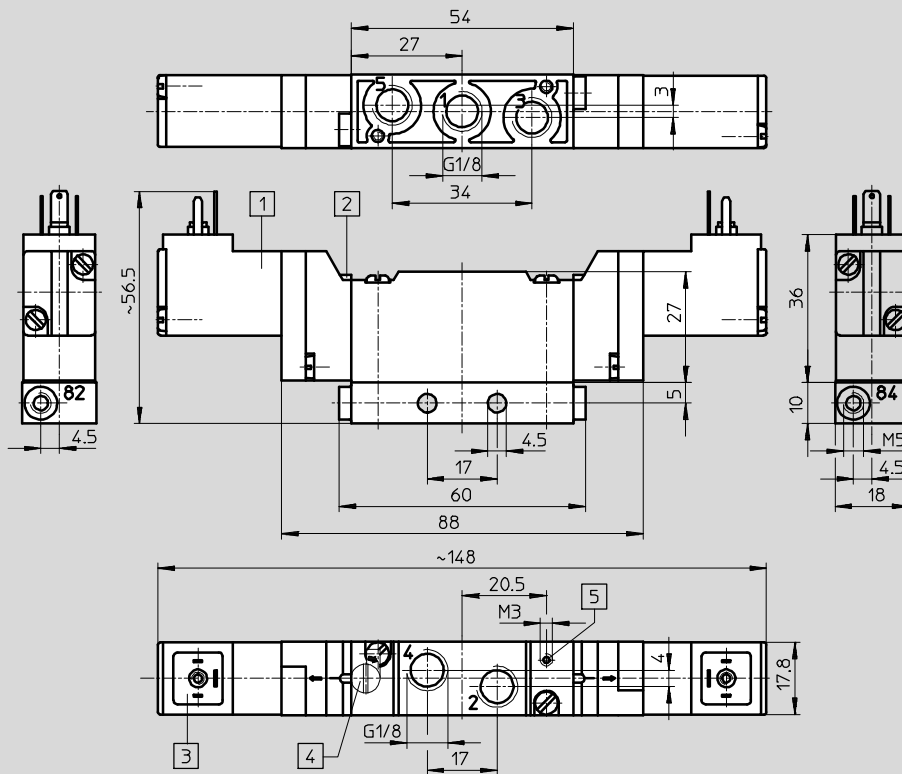
Solenoid valves MEBH, midi pneumatics

Technical data – 5/2-way valves, double solenoid

Dimensions

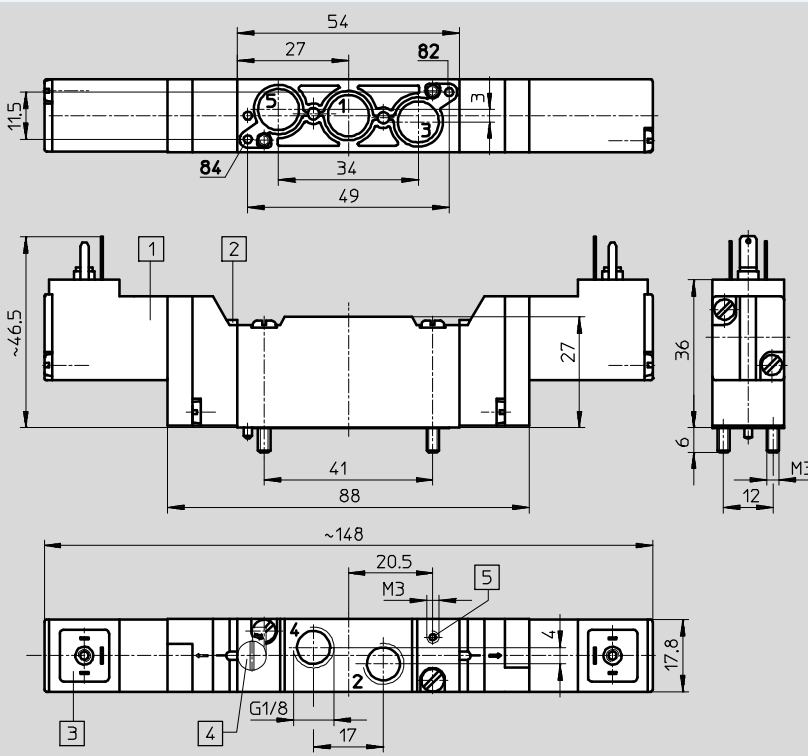
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Semi in-line valve with thread G $\frac{1}{8}$



- 1 Solenoid coil can be rotated 180°¹⁾
 - 2 Manual override
 - 3 Suitable for plug sockets to EN 175301-803, form C: MSSD-EB or KMEB-...
 - 4 Manual override tool (accessory) AHB-ME- $\frac{1}{8}$
 - 5 Port for external pilot air on S types
- 1) The seal must not be turned!

Semi in-line valve for manifold PRS-ME



- 1 Solenoid coil can be rotated 180°¹⁾
 - 2 Manual override
 - 3 Suitable for plug sockets to EN 175301-803, form C: MSSD-EB or KMEB-...
 - 4 Manual override tool (accessory) AHB-ME- $\frac{1}{8}$
 - 5 Port for external pilot air on S types
- 1) The seal must not be turned!

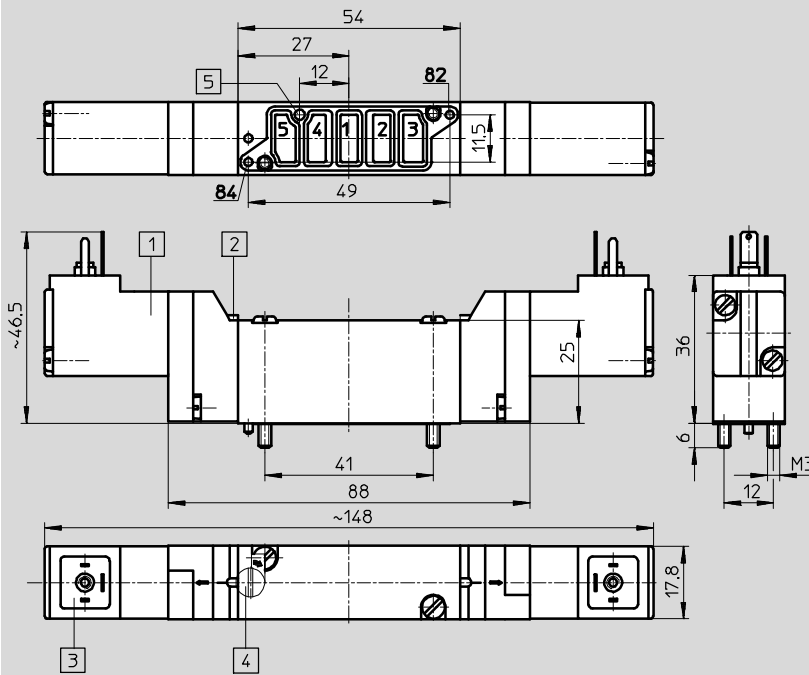
Solenoid valves MEBH, midi pneumatics

Technical data – 5/2-way valves, double solenoid

Dimensions

Download CAD data → www.festo.com

Sub-base valve



- 1 Solenoid coil can be rotated 180°¹⁾
- 2 Manual override
- 3 Suitable for plug sockets to EN 175301-803, form C: MSSD-EB or KMEB-...
- 4 Manual override tool (accessory) AHB-ME-1/8
- 5 Port for external pilot air on S types

1) The seal must not be turned!

Ordering data

| Circuit symbol | Description | Voltage | Part No. | Type |
|----------------------------------|--|----------|-------------------------|---------------------------|
| Internal pilot air supply | | | | |
| | Semi in-line valve with thread G1/8 | 24 V DC | 173034 | JMEBH-5/2-1/8-B |
| | | 110 V AC | 173040 | JMEBH-5/2-1/8-B-110AC |
| | | 230 V AC | 173082 | JMEBH-5/2-1/8-B-230AC |
| | Semi in-line valve for manifold PRS-ME | 24 V DC | 173036 | JMEBH-5/2-1/8-P-B |
| | | 110 V AC | 173054 | JMEBH-5/2-1/8-P-B-110AC |
| | | 230 V AC | 173096 | JMEBH-5/2-1/8-P-B-230AC |
| Sub-base valve | 24 V DC | 173035 | JMEBH-5/2-5,0-B | |
| | 110 V AC | 173068 | JMEBH-5/2-5,0-B-110AC | |
| | 230 V AC | 173110 | JMEBH-5/2-5,0-B-230AC | |
| External pilot air supply | | | | |
| | Semi in-line valve with thread G1/8 | 24 V DC | 173037 | JMEBH-5/2-1/8-S-B |
| | | 230 V AC | 173083 | JMEBH-5/2-1/8-S-B-230AC |
| | | 110 V AC | 173055 | JMEBH-5/2-1/8-P-S-B-110AC |
| | Semi in-line valve for manifold PRS-ME | 230 V AC | 173097 | JMEBH-5/2-1/8-P-S-B-230AC |
| | | 24 V DC | 173038 | JMEBH-5/2-5,0-S-B |
| | 230 V AC | 173111 | JMEBH-5/2-5,0-S-B-230AC | |

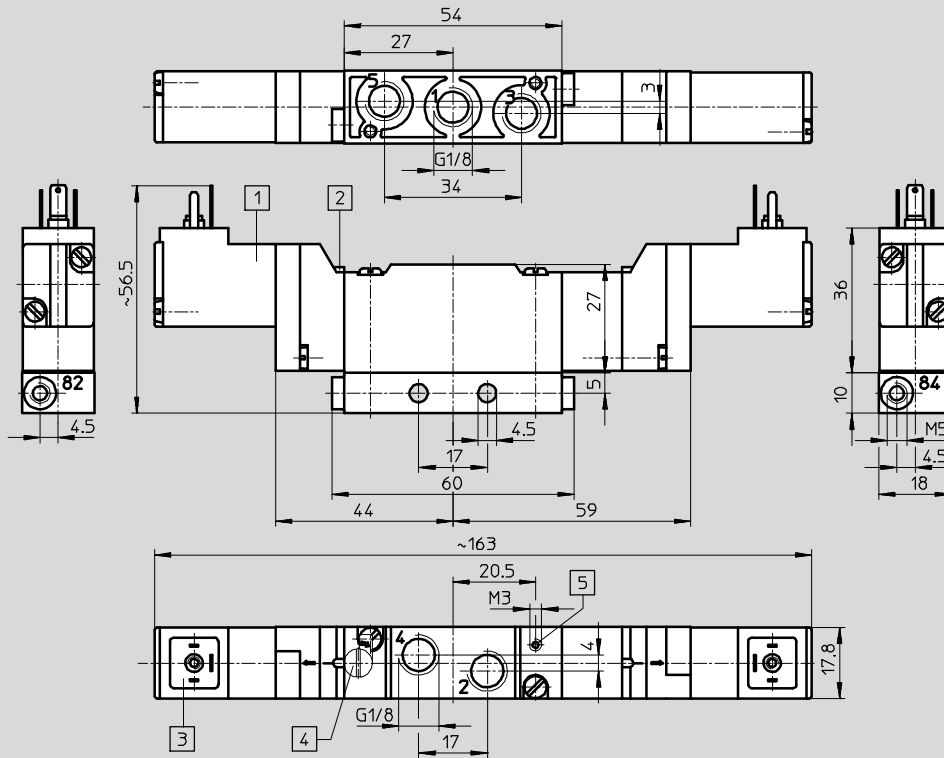
Solenoid valves MEBH, midi pneumatics

Technical data – 5/3-way valves

Dimensions

Semi in-line valve with thread G $\frac{1}{8}$

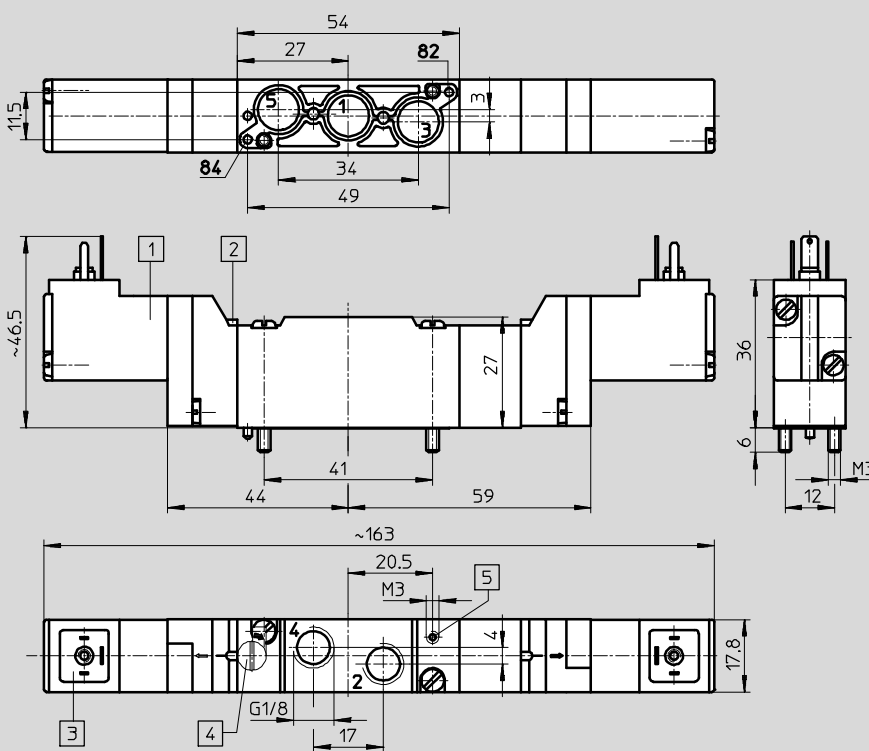
Download CAD data → www.festo.com



- 1 Solenoid coil can be rotated 180°¹⁾
- 2 Manual override
- 3 Suitable for plug sockets to EN 175301-803, form C: MSSD-EB or KMEB-...
- 4 Manual override tool (accessory) AHB-ME- $\frac{1}{8}$
- 5 Port for external pilot air on S types

1) The seal must not be turned!

Semi in-line valve for manifold PRS-ME



- 1 Solenoid coil can be rotated 180°¹⁾
- 2 Manual override
- 3 Suitable for plug sockets to EN 175301-803, form C: MSSD-EB or KMEB-...
- 4 Manual override tool (accessory) AHB-ME- $\frac{1}{8}$
- 5 Port for external pilot air on S types

1) The seal must not be turned!

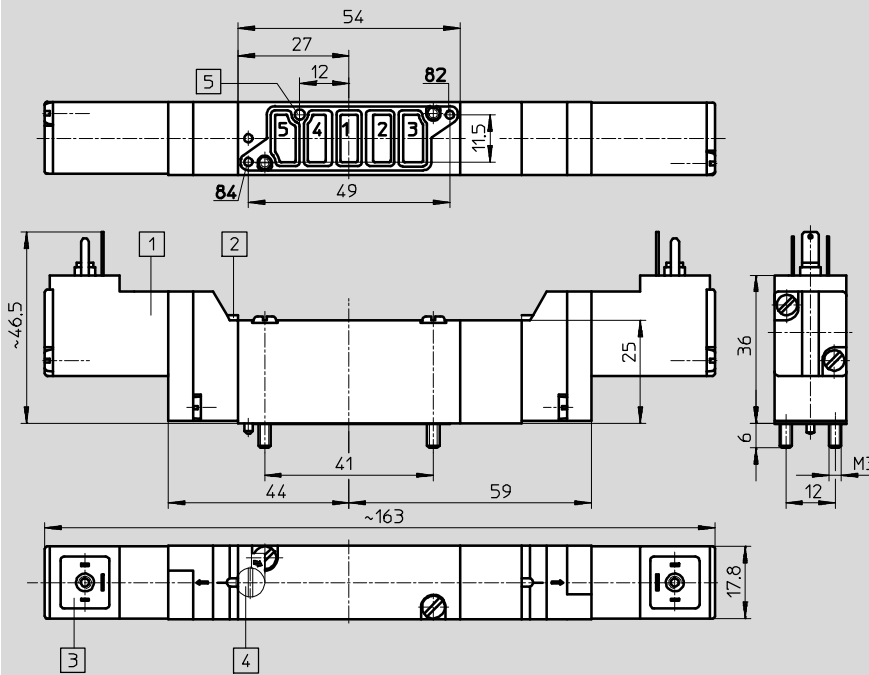
Solenoid valves MEBH, midi pneumatics

Technical data – 5/3-way valves

Dimensions

Download CAD data → www.festo.com

Sub-base valve



- 1 Solenoid coil can be rotated 180°¹⁾
 - 2 Manual override
 - 3 Suitable for plug sockets to EN 175301-803, form C: MSSD-EB or KMEB-...
 - 4 Manual override tool (accessory) AHB-ME-1/8
 - 5 Port for external pilot air on S types
- 1) The seal must not be turned!

Ordering data

| Circuit symbol | Description | Voltage | Part No. | Type |
|---|--|---------------|------------------------------|--------------------------------|
| Normally closed, internal pilot air supply | | | | |
| | Semi in-line valve with thread G1/8 | 24 V DC | 173016 | MEBH-5/3G-1/8-B |
| | | 230 V AC | 173093 | MEBH-5/3G-1/8-B-230AC |
| | Semi in-line valve for manifold PRS-ME | 24 V DC | 173018 | MEBH-5/3G-1/8-P-B |
| | | 110 V AC | 173065 | MEBH-5/3G-1/8-P-B-110AC |
| | | 230 V AC | 173107 | MEBH-5/3G-1/8-P-B-230AC |
| | Sub-base valve | 24 V DC | 173017 | MEBH-5/3G-5,0-B |
| | 110 V AC | 173079 | MEBH-5/3G-5,0-B-110AC | |
| | 230 V AC | 173121 | MEBH-5/3G-5,0-B-230AC | |
| Normally closed, external pilot air supply | | | | |
| | Semi in-line valve with thread G1/8 | 24 V DC | 173019 | MEBH-5/3G-1/8-S-B |
| | Semi in-line valve for manifold PRS-ME | 24 V DC | 173021 | MEBH-5/3G-1/8-P-S-B |
| | Sub-base valve | 24 V DC | 173020 | MEBH-5/3G-5,0-S-B |
| | | 230 V AC | 173122 | MEBH-5/3G-5,0-S-B-230AC |

Solenoid valves MEBH, midi pneumatics


Technical data – 5/3-way valves

| Ordering data | | | | |
|---|--|----------|---------------|---|
| Circuit symbol | Description | Voltage | Part No. | Type |
| Normally exhausted, internal pilot air supply | | | | |
| | Semi in-line valve with thread G $\frac{1}{8}$ | 24 V DC | 173022 | MEBH-5/3E-$\frac{1}{8}$-B |
| | | 230 V AC | 173091 | MEBH-5/3E-$\frac{1}{8}$-B-230AC |
| | Semi in-line valve for manifold PRS-ME | 24 V DC | 173024 | MEBH-5/3E-$\frac{1}{8}$-P-B |
| | | 110 V AC | 173063 | MEBH-5/3E-$\frac{1}{8}$-P-B-110AC |
| | Sub-base valve | 24 V DC | 173023 | MEBH-5/3E-5,0-B |
| | | 110 V AC | 173077 | MEBH-5/3E-5,0-B-110AC |
| | | 230 V AC | 173119 | MEBH-5/3E-5,0-B-230AC |
| Normally exhausted, external pilot air supply | | | | |
| | Semi in-line valve for manifold PRS-ME | 24 V DC | 173027 | MEBH-5/3E-$\frac{1}{8}$-P-S-B |
| | Sub-base valve | 24 V DC | 173026 | MEBH-5/3E-5,0-S-B |
| | | 230 V AC | 173120 | MEBH-5/3E-5,0-S-B-230AC |
| Normally pressurised, internal pilot air supply | | | | |
| | Semi in-line valve with thread G $\frac{1}{8}$ | 24 V DC | 173028 | MEBH-5/3B-$\frac{1}{8}$-B |
| | | 230 V AC | 173089 | MEBH-5/3B-$\frac{1}{8}$-B-230AC |
| | Semi in-line valve for manifold PRS-ME | 24 V DC | 173030 | MEBH-5/3B-$\frac{1}{8}$-P-B |
| | | 230 V AC | 173103 | MEBH-5/3B-$\frac{1}{8}$-P-B-230AC |
| | Sub-base valve | 24 V DC | 173029 | MEBH-5/3B-5,0-B |
| Normally pressurised, external pilot air supply | | | | |
| | Semi in-line valve with thread G $\frac{1}{8}$ | 24 V DC | 173031 | MEBH-5/3B-$\frac{1}{8}$-S-B |
| | Sub-base valve | 24 V DC | 173032 | MEBH-5/3B-5,0-S-B |

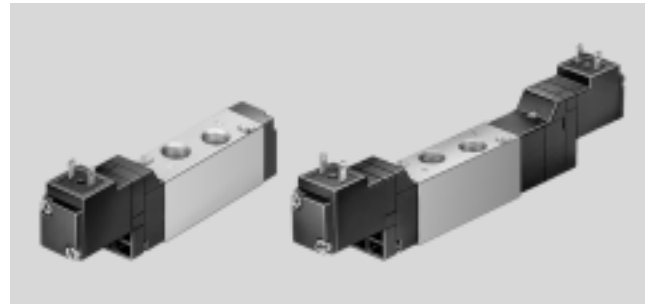
Solenoid valves MEH, midi pneumatics

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Technical data

-  - Flow rate
200 ... 700 l/min

-  - Voltage
24 V DC



| General technical data | | | | | | | | |
|--|-----------|---|-------------|--------------|------------|-----|-----|-----|
| Type | | MEH-3/2-... MOEH-3/2-... | MEH-5/2-... | JMEH-5/2-... | MEH-5/3... | | | |
| Design | | Piston spool | | | | | | |
| Type of mounting | ...-1/8 | 2 through-holes | | | | | | |
| | ...-5.0 | On sub-base with two M3 screws | | | | | | |
| | ...-1/8-P | On manifold with two M3 screws | | | | | | |
| Pneumatic connection | ...-1/8 | G $\frac{1}{8}$ | | | | | | |
| | ...-5.0 | Sub-base | | | | | | |
| | ...-1/8-P | G $\frac{1}{8}$ | | | | | | |
| Lap | | Overlap | | | | | | |
| Nominal size | [mm] | 5 | | | | | | |
| Standard nominal flow rate 1 > 2, 1 > 4 | [l/min] | ...-1/8 | 600/500 | 600 | 650 | G | E | B |
| | | ...-5.0 | 700/600 | 700 | 700 | 600 | 300 | 200 |
| | | ...-1/8-P | 600/500 | 600 | 650 | 500 | 400 | 400 |
| | | | | | | 650 | 300 | 200 |
| Materials | | Housing: Aluminium Seals: Nitrile rubber | | | | | | |
| Weight | [g] | ...-1/8 | 105 | 105 | 142 | 153 | | |
| | | ...-5.0 | 105 | 105 | 146 | 150 | | |
| | | ...-1/8-P | 105 | 105 | 142 | 153 | | |

| Operating and environmental conditions | | | | | | | |
|--|---------------------------|--|-------------|--------------|------------|---------|--|
| Type | | MEH-3/2-... MOEH-3/2-... | MEH-5/2-... | JMEH-5/2-... | MEH-5/3... | | |
| Operating medium | | Compressed air in accordance with ISO 8573-1:2010 [7:4:4] ¹⁾ | | | | | |
| Note on operating/pilot medium | | Operation with lubricated medium possible (in which case lubricated operation will always be required) | | | | | |
| Operating pressure range | Internal pilot air supply | [bar] | 2 ... 8 | 2.5 ... 8 | 1.5 ... 8 | 3 ... 8 | |
| | External pilot air supply | [bar] | - | -0.9 ... +10 | | | |
| Pilot pressure range | | [bar] | - | 2.5 ... 8 | 1.5 ... 8 | 3 ... 8 | |
| Ambient temperature | | [°C] | -5 ... +50 | | | | |
| Temperature of medium | | [°C] | -5 ... +50 | | | | |
| Note on materials | | RoHS-compliant | | | | | |

1) Only oils of viscosity class 32 may be used for lubricated operation.

Solenoid valves MEH, midi pneumatics

Technical data

| Valve response times [ms] | | | | | | | |
|---------------------------|-----------------------------|-----------|-------------|-----------|--------------|------------|-----------|
| Type | MEH-3/2-... MOEH-3/2-... | | MEH-5/2-... | | JMEH-5/2-... | MEH-5/3... | |
| Type of reset | mechanical | pneumatic | mechanical | pneumatic | – | mechanical | pneumatic |
| On | 10 | – | 10 | 15 | – | 12 | – |
| Off | 28 | – | 28 | 18 | – | 25 | – |
| Changeover | – | – | – | – | 10 | – | – |

| Electrical data | |
|-------------------------------|--|
| E solenoid coil | |
| Electrical connection | Plug, square, connection pattern type C, to industry standard 9.4 mm |
| Operating voltage | [V DC] 24 |
| Coil characteristics | [W] 1.5 |
| Protection class to EN 60 529 | IP65 (in combination with plug socket) |

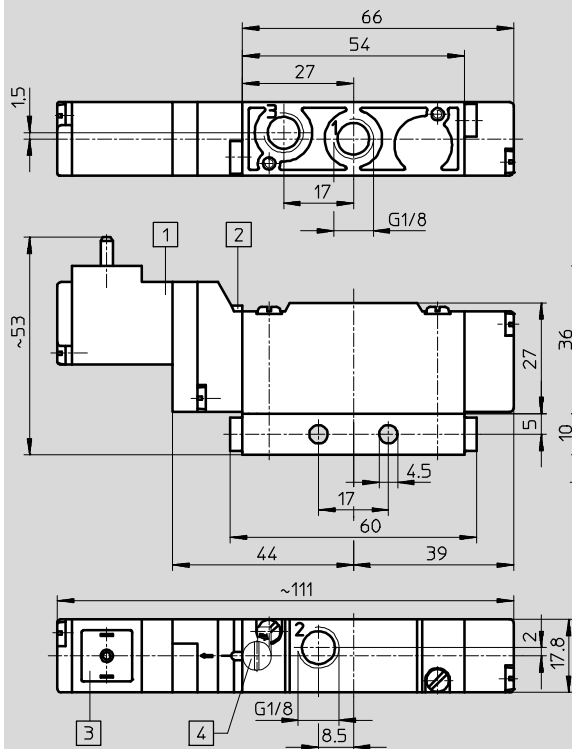
Solenoid valves MEH, midi pneumatics

Technical data – 3/2-way valves

Dimensions

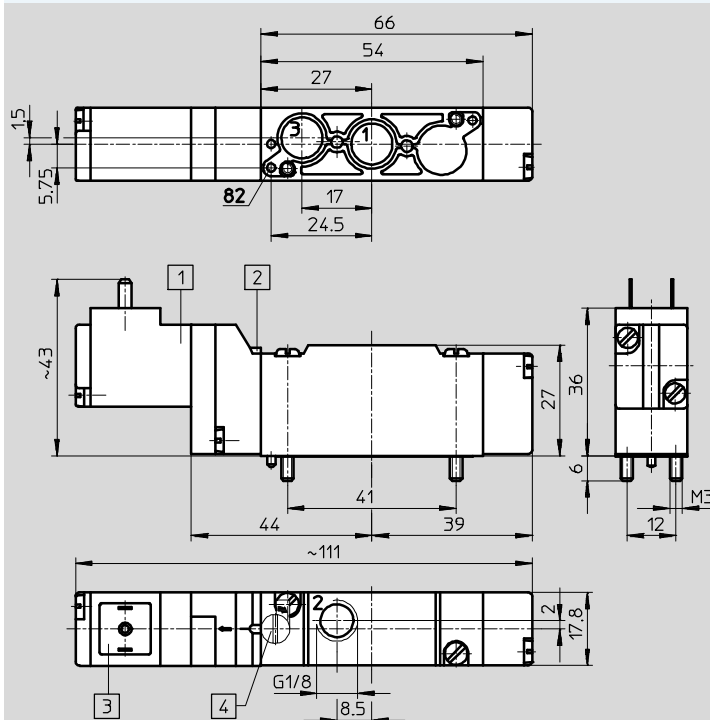
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Semi in-line valve with thread G1/8



- 1) Solenoid coil can be rotated 180°¹⁾
 - 2) Manual override
 - 3) Suitable for terminal sockets to DIN 46247 or plug sockets MSSD-E type KME type
 - 4) Manual override tool (accessory) AHB-ME-1/8
- 1) The seal must not be turned!

Semi in-line valve for manifold PRS-ME



- 1) Solenoid coil can be rotated 180°¹⁾
 - 2) Manual override
 - 3) Suitable for terminal sockets to DIN 46247 or plug sockets MSSD-E type KME type
 - 4) Manual override tool (accessory) AHB-ME-1/8
- 1) The seal must not be turned!

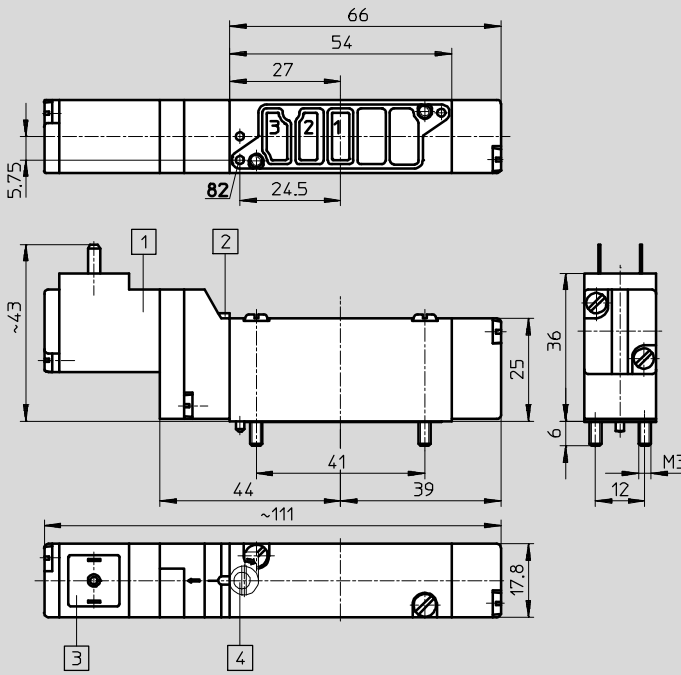
Solenoid valves MEH, midi pneumatics

Technical data – 3/2-way valves

Dimensions

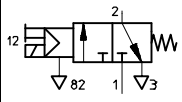
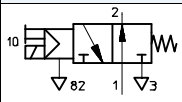
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Sub-base valve



- 1 Solenoid coil can be rotated 180°¹⁾
 - 2 Manual override
 - 3 Suitable for terminal sockets to DIN 46247 or plug sockets MSSD-E type KME type
 - 4 Manual override tool (accessory) AHB-ME-1/8
- 1) The seal must not be turned!

Ordering data

| Circuit symbol | Description | Voltage | Part No. | Type |
|---|--|---------|----------|------------------|
| Normally closed | | | | |
|  | Semi in-line valve with thread G1/8 | 24 V DC | 173124 | MEH-3/2-1/8-B |
| | Semi in-line valve for manifold PRS-ME | | 173126 | MEH-3/2-1/8-P-B |
| | Sub-base valve | | 173125 | MEH-3/2-5,0-B |
| Normally open | | | | |
|  | Semi in-line valve with thread G1/8 | 24 V DC | 173428 | MOEH-3/2-1/8-B |
| | Semi in-line valve for manifold PRS-ME | | 173430 | MOEH-3/2-1/8-P-B |
| | Sub-base valve | | 173429 | MOEH-3/2-5,0-B |

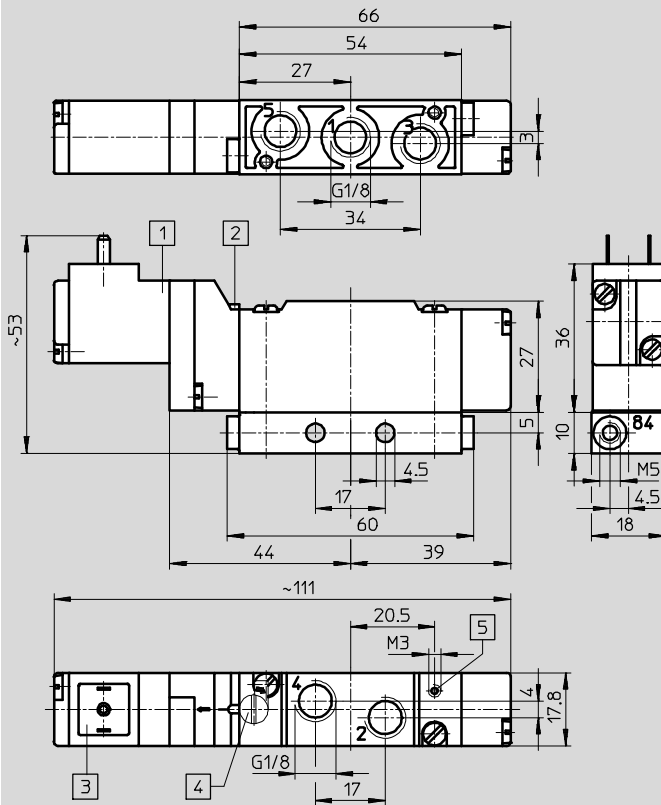
Solenoid valves MEH, midi pneumatics

Technical data – 5/2-way valves

Dimensions

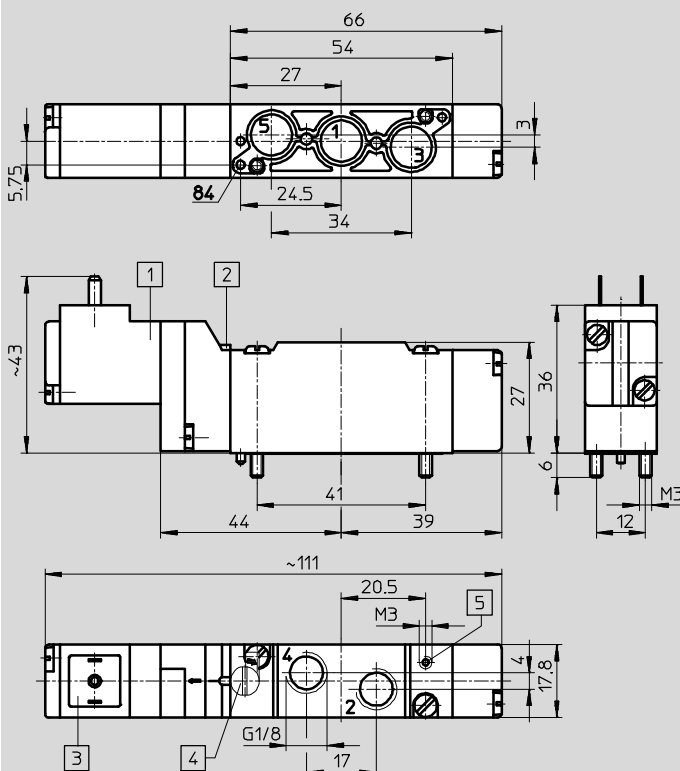
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Semi in-line valve with thread G1/8



- 1) Solenoid coil can be rotated 180°¹⁾
 - 2) Manual override
 - 3) Suitable for terminal sockets to DIN 46247 or plug sockets MSSD-E type KME type
 - 4) Manual override tool (accessory) AHB-ME-1/8
 - 5) Port for external pilot air on S types
- 1) The seal must not be turned!

Semi in-line valve for manifold PRS-ME



- 1) Solenoid coil can be rotated 180°¹⁾
 - 2) Manual override
 - 3) Suitable for terminal sockets to DIN 46247 or plug sockets MSSD-E type KME type
 - 4) Manual override tool (accessory) AHB-ME-1/8
 - 5) Port for external pilot air on S types
- 1) The seal must not be turned!

Solenoid valves MEH, midi pneumatics

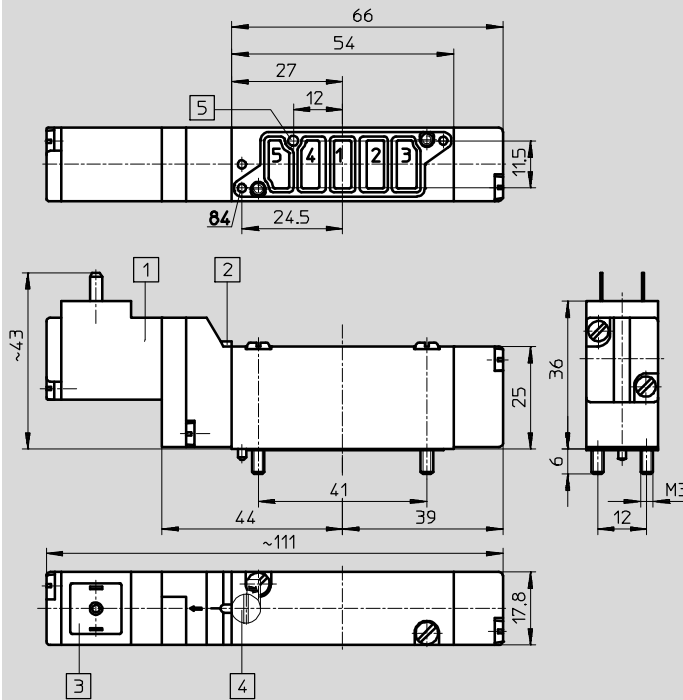
Technical data – 5/2-way valves

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Dimensions

Download CAD data → www.festo.com

Sub-base valve



- 1 Solenoid coil can be rotated 180°¹⁾
 - 2 Manual override
 - 3 Suitable for terminal sockets to DIN 46247 or plug sockets MSSD-E type KME type
 - 4 Manual override tool (accessory) AHB-ME-1/8
 - 5 Port for external pilot air on S types
- 1) The seal must not be turned!

Solenoid valves MEH, midi pneumatics

Technical data – 5/2-way valves

| Ordering data | | | | |
|--|--|---------|----------|---------------------|
| Circuit symbol | Description | Voltage | Part No. | Type |
| Mechanical spring return, internal pilot air supply | | | | |
| | Semi in-line valve with thread G1/8 | 24 V DC | 173127 | MEH-5/2-1/8-B |
| | Semi in-line valve for manifold PRS-ME | | 173129 | MEH-5/2-1/8-P-B |
| | Sub-base valve | | 173128 | MEH-5/2-5,0-B |
| Mechanical spring return, external pilot air supply | | | | |
| | Semi in-line valve with thread G1/8 | 24 V DC | 173130 | MEH-5/2-1/8-S-B |
| | Semi in-line valve for manifold PRS-ME | | 173132 | MEH-5/2-1/8-P-S-B |
| | Sub-base valve | | 173131 | MEH-5/2-5,0-S-B |
| Pneumatic spring return, internal pilot air supply | | | | |
| | Semi in-line valve with thread G1/8 | 24 V DC | 173133 | MEH-5/2-1/8-L-B |
| | Semi in-line valve for manifold PRS-ME | | 173135 | MEH-5/2-1/8-P-L-B |
| | Sub-base valve | | 173134 | MEH-5/2-5,0-L-B |
| Pneumatic spring return, external pilot air supply | | | | |
| | Semi in-line valve with thread G1/8 | 24 V DC | 173136 | MEH-5/2-1/8-L-S-B |
| | Semi in-line valve for manifold PRS-ME | | 173138 | MEH-5/2-1/8-P-L-S-B |
| | Sub-base valve | | 173137 | MEH-5/2-5,0-L-S-B |

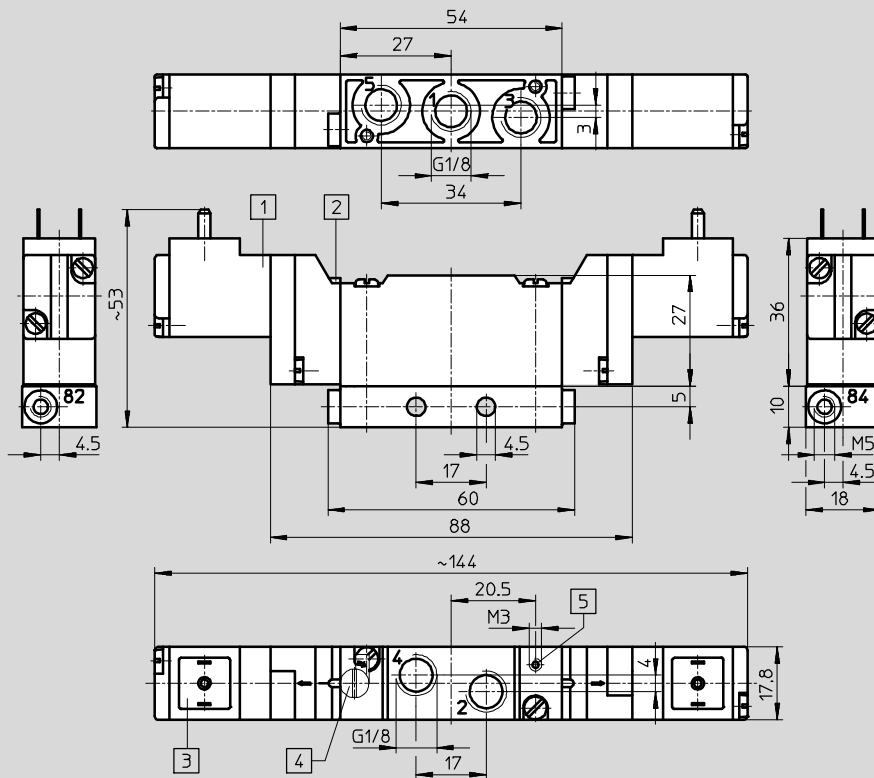
Solenoid valves MEH, midi pneumatics

Technical data – 5/2-way valves, double solenoid

Dimensions

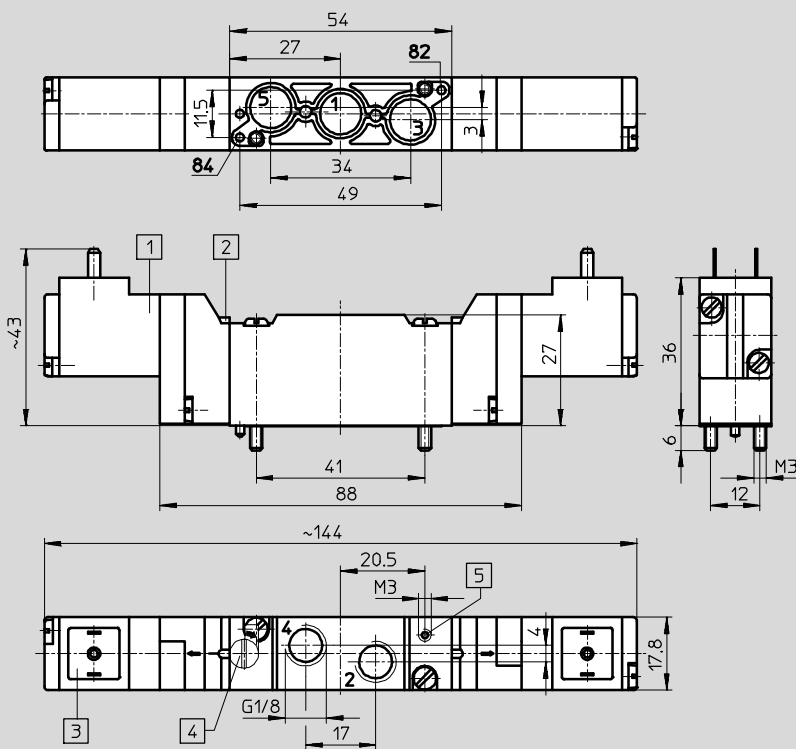
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Semi in-line valve with thread G $\frac{1}{8}$



- 1) Solenoid coil can be rotated 180°¹⁾
 - 2) Manual override
 - 3) Suitable for terminal sockets to DIN 46247 or plug sockets MSSD-E type KME type
 - 4) Manual override tool (accessory) AHB-ME-1/8
 - 5) Port for external pilot air on S types
- 1) The seal must not be turned!

Semi in-line valve for manifold PRS-ME



- 1) Solenoid coil can be rotated 180°¹⁾
 - 2) Manual override
 - 3) Suitable for terminal sockets to DIN 46247 or plug sockets MSSD-E type KME type
 - 4) Manual override tool (accessory) AHB-ME-1/8
 - 5) Port for external pilot air on S types
- 1) The seal must not be turned!

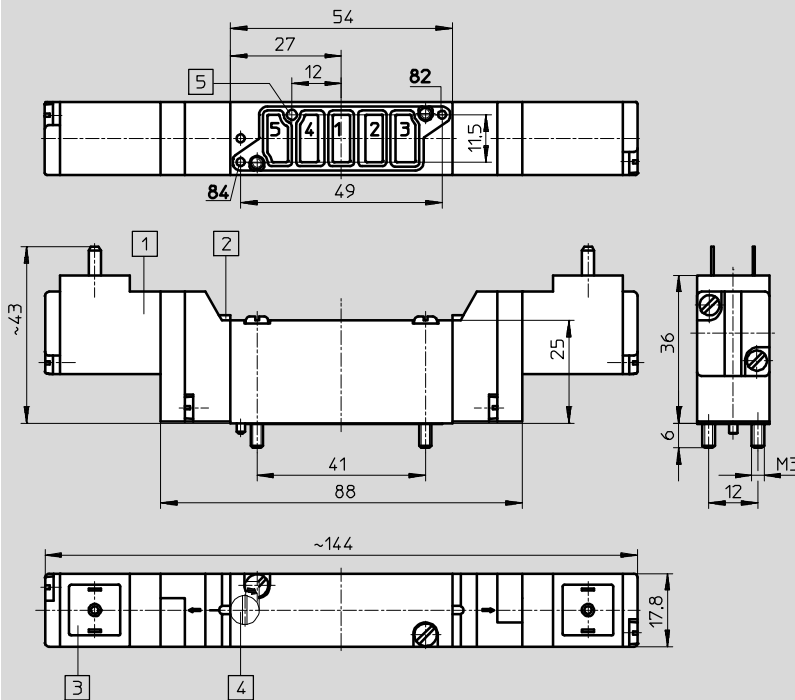
Solenoid valves MEH, midi pneumatics

Technical data – 5/2-way valves, double solenoid

Dimensions

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Sub-base valve



- 1 Solenoid coil can be rotated 180°¹⁾
 - 2 Manual override
 - 3 Suitable for terminal sockets to DIN 46247 or plug sockets MSSD-E type KME type
 - 4 Manual override tool (accessory) AHB-ME-1/8
 - 5 Port for external pilot air on S types
- 1) The seal must not be turned!

Ordering data

| Circuit symbol | Description | Voltage | Part No. | Type |
|----------------------------------|--|---------|----------|--------------------|
| 5/2-way valves | | | | |
| Internal pilot air supply | | | | |
| | Semi in-line valve with thread G1/8 | 24 V DC | 173431 | JMEH-5/2-1/8-B |
| | Semi in-line valve for manifold PRS-ME | | 173433 | JMEH-5/2-1/8-P-B |
| | Sub-base valve | | 173432 | JMEH-5/2-5,0-B |
| External pilot air supply | | | | |
| | Semi in-line valve with thread G1/8 | 24 V DC | 173434 | JMEH-5/2-1/8-S-B |
| | Semi in-line valve for manifold PRS-ME | | 173436 | JMEH-5/2-1/8-P-S-B |
| | Sub-base valve | | 173435 | JMEH-5/2-5,0-S-B |

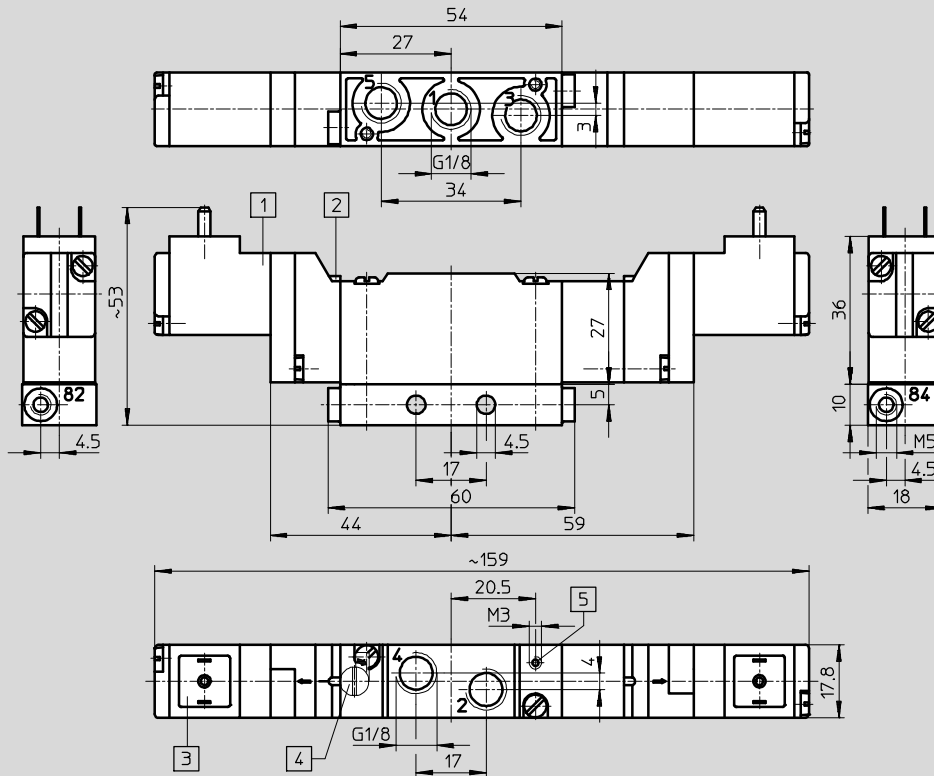
Solenoid valves MEH, midi pneumatics

Technical data – 5/3-way valves

Dimensions

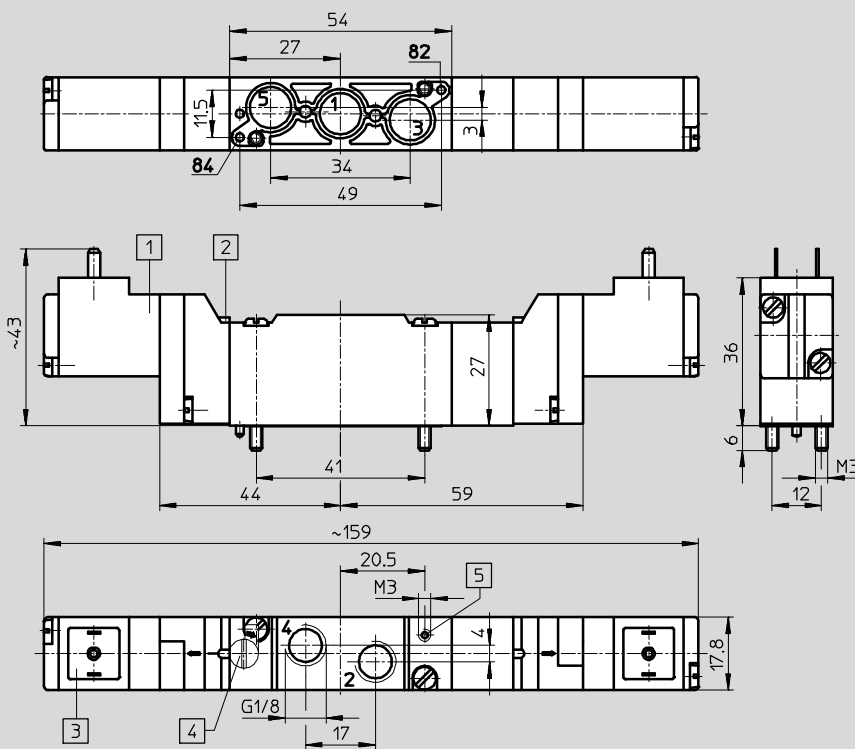
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Semi in-line valve with thread G1/8



- 1) Solenoid coil can be rotated 180°¹⁾
 - 2) Manual override
 - 3) Suitable for terminal sockets to DIN 46247 or plug sockets MSSD-E type KME type
 - 4) Manual override tool (accessory) AHB-ME-1/8
 - 5) Port for external pilot air on S types
- 1) The seal must not be turned!

Semi in-line valve for manifold PRS-ME



- 1) Solenoid coil can be rotated 180°¹⁾
 - 2) Manual override
 - 3) Suitable for terminal sockets to DIN 46247 or plug sockets MSSD-E type KME type
 - 4) Manual override tool (accessory) AHB-ME-1/8
 - 5) Port for external pilot air on S types
- 1) The seal must not be turned!

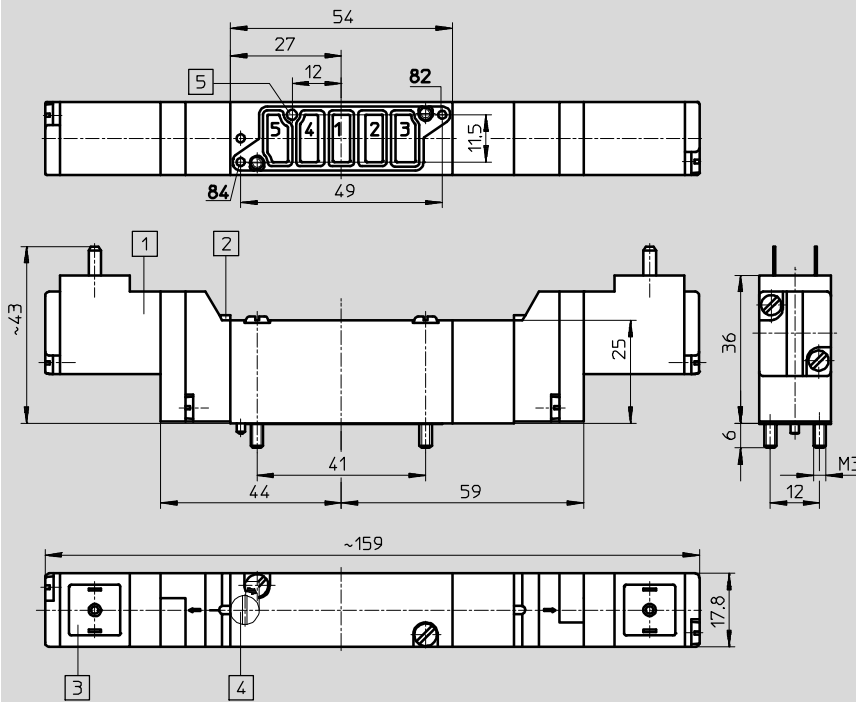
Solenoid valves MEH, midi pneumatics

Technical data – 5/3-way valves

Dimensions

Download CAD data → www.festo.com

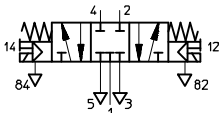
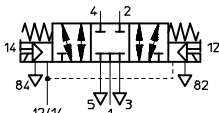
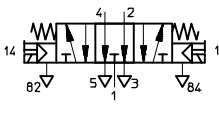
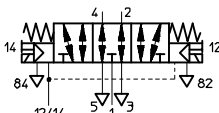
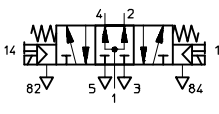
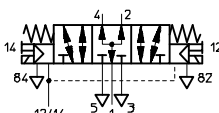
Sub-base valve



- 1 Solenoid coil can be rotated 180°¹⁾
 - 2 Manual override
 - 3 Suitable for terminal sockets to DIN 46247 or plug sockets MSSD-E type KME type
 - 4 Manual override tool (accessory) AHB-ME-1/8
 - 5 Port for external pilot air on S types
- 1) The seal must not be turned!

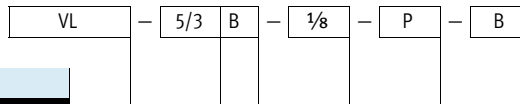
Solenoid valves MEH, midi pneumatics

Technical data – 5/3-way valves

| Ordering data | | | | |
|---|--|---------|----------|--------------------------------|
| Circuit symbol | Description | Voltage | Part No. | Type |
| Normally closed, internal pilot air supply | | | | |
|  | Semi in-line valve with thread G $\frac{1}{8}$ | 24 V DC | 173139 | MEH-5/3G- $\frac{1}{8}$ -B |
| | Semi in-line valve for manifold PRS-ME | | 173141 | MEH-5/3G- $\frac{1}{8}$ -P-B |
| | Sub-base valve | | 173140 | MEH-5/3G-5,0-B |
| Normally closed, external pilot air supply | | | | |
|  | Semi in-line valve with thread G $\frac{1}{8}$ | 24 V DC | 173142 | MEH-5/3G- $\frac{1}{8}$ -S-B |
| | Semi in-line valve for manifold PRS-ME | | 173144 | MEH-5/3G- $\frac{1}{8}$ -P-S-B |
| | Sub-base valve | | 173143 | MEH-5/3G-5,0-S-B |
| Normally exhausted, internal pilot air supply | | | | |
|  | Semi in-line valve with thread G $\frac{1}{8}$ | 24 V DC | 173145 | MEH-5/3E- $\frac{1}{8}$ -B |
| | Semi in-line valve for manifold PRS-ME | | 173147 | MEH-5/3E- $\frac{1}{8}$ -P-B |
| | Sub-base valve | | 173146 | MEH-5/3E-5,0-B |
| Normally exhausted, external pilot air supply | | | | |
|  | Semi in-line valve with thread G $\frac{1}{8}$ | 24 V DC | 173148 | MEH-5/3E- $\frac{1}{8}$ -S-B |
| | Semi in-line valve for manifold PRS-ME | | 173150 | MEH-5/3E- $\frac{1}{8}$ -P-S-B |
| | Sub-base valve | | 173149 | MEH-5/3E-5,0-S-B |
| Normally pressurised, internal pilot air supply | | | | |
|  | Semi in-line valve with thread G $\frac{1}{8}$ | 24 V DC | 173151 | MEH-5/3B- $\frac{1}{8}$ -B |
| | Semi in-line valve for manifold PRS-ME | | 173153 | MEH-5/3B- $\frac{1}{8}$ -P-B |
| | Sub-base valve | | 173152 | MEH-5/3B-5,0-B |
| Normally pressurised, external pilot air supply | | | | |
|  | Semi in-line valve with thread G $\frac{1}{8}$ | 24 V DC | 173154 | MEH-5/3B- $\frac{1}{8}$ -S-B |
| | Semi in-line valve for manifold PRS-ME | | 173156 | MEH-5/3B- $\frac{1}{8}$ -P-S-B |

Pneumatic valves VL/J, midi pneumatics

Type codes



Type

| | |
|----|-----------------|
| VL | Single solenoid |
| J | Double solenoid |

Valve function

| | |
|-----|---------------|
| 5/2 | 5/2-way valve |
| 5/3 | 5/3-way valve |

Normal position

| | |
|---|-------------|
| G | Closed |
| E | Exhausted |
| B | Pressurised |

Design, pneumatic connection/nominal size

| | |
|-----|---------------------------------|
| 1/8 | Semi in-line valve, thread G1/8 |
| 5.0 | Sub-base valve, 5 mm |

Mounting method

| | |
|---|--------------------|
| P | On manifold PRS-ME |
|---|--------------------|


Generation

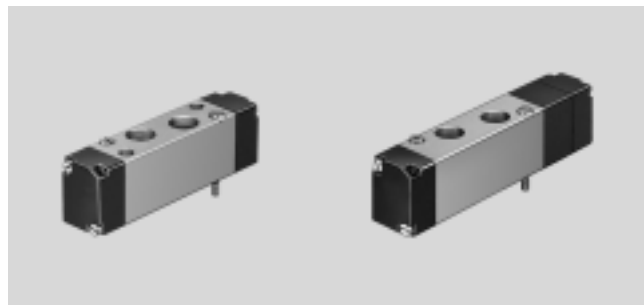
| | |
|---|----------|
| B | B series |
|---|----------|

Pneumatic valves VL/J, midi pneumatics

FESTO

Technical data

 Flow rate
 300 ... 700 l/min



| General technical data | | | | | | | | |
|----------------------------|---------------|---|-------------|-----------|-----|-----|-----|-----|
| Type | | VL-5/2-... | J-5/2-... | VL-5/3... | | | | |
| Design | | Piston spool, directly actuated | | | | | | |
| Type of mounting | ...-1/8 | 2 through-holes | | | | | | |
| | ...-5.0 | On sub-base with two M3 screws | | | | | | |
| | ...-1/8-P | On manifold with two M3 screws | | | | | | |
| Pneumatic connection | Working lines | ...-1/8 | G1/8 | | | | | |
| | | ...-5.0 | On sub-base | | | | | |
| | | ...-1/8-P | G1/8 | | | | | |
| | Pilot line | M5 | | | | | | |
| Lap | | Overlap | | | | | | |
| Nominal size | [mm] | 5 | | | | | | |
| Standard nominal flow rate | [l/min] | 1 → 2, 1 → 4 | ...-1/8 | 600 | 650 | G | E | B |
| | | | ...-5.0 | 700 | 700 | 500 | 350 | 300 |
| | | | ...-1/8-P | 600 | 650 | 600 | 350 | 300 |
| | | | | | | 500 | 350 | 300 |
| Pilot air supply | | External | | | | | | |
| Direction of flow | | Reversible | | | | | | |
| Materials | | Housing: Aluminium Seals: Nitrile rubber | | | | | | |
| Weight | [g] | ...-1/8 | 75 | 75 | 95 | | | |
| | | ...-5.0 | 65 | 65 | 85 | | | |
| | | ...-1/8-P | 60 | 60 | 80 | | | |

| Operating and environmental conditions | | | | | | |
|--|-------|--|-----------|-----------|--|--|
| Type | | VL-5/2-... | J-5/2-... | VL-5/3... | | |
| Operating medium | | Compressed air in accordance with ISO 8573-1:2010 [7:4:4] ¹⁾ | | | | |
| Note on operating/pilot medium | | Operation with lubricated medium possible (in which case lubricated operation will always be required) | | | | |
| Operating pressure range | [bar] | -0.9 ... +10 | | | | |
| Pilot pressure range | [bar] | 2.5 ... 8 | 1.5 ... 8 | 3 ... 8 | | |
| Ambient temperature | [°C] | -5 ... +50 | | | | |
| Temperature of medium | [°C] | -5 ... +50 | | | | |
| Note on materials | | RoHS-compliant | | | | |

1) Only oils of viscosity class 32 may be used for lubricated operation.

| Valve response times [ms] | | | |
|---------------------------|------------|-----------|------------|
| Type | VL-5/2-... | J-5/2-... | VL-5/3-... |
| On | 6 | - | 6 |
| Off | 24 | - | 22 |
| Changeover | - | 5 | - |

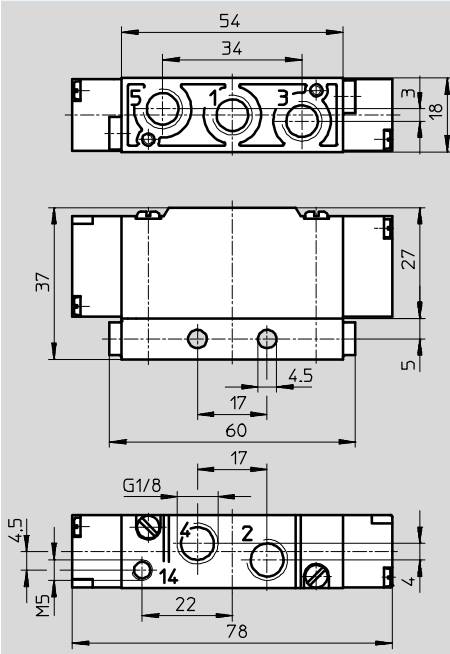
Pneumatic valves VL/J, midi pneumatics

Technical data – 5/2-way valves

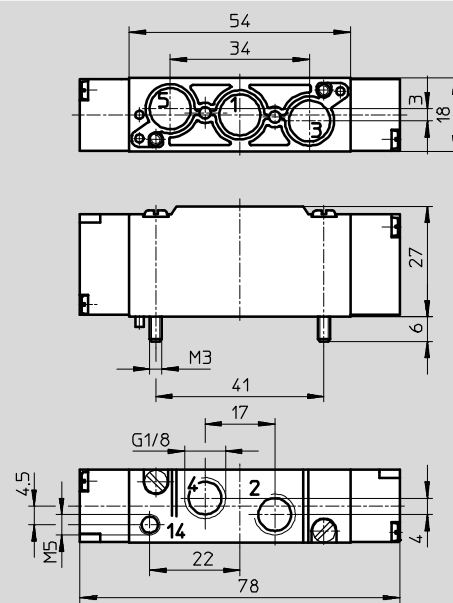
Dimensions

Download CAD data → www.festo.com

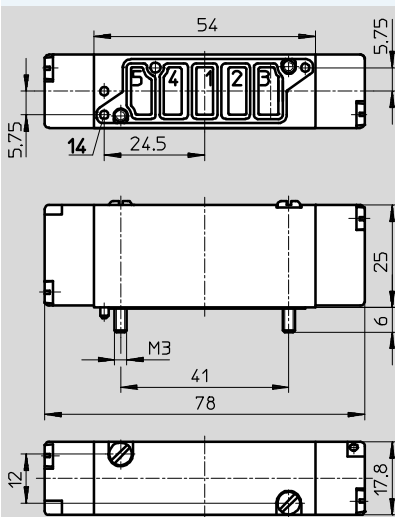
Semi in-line valve with thread G1/8



Semi in-line valve for manifold PRS-ME



Sub-base valve



Ordering data

| Circuit symbol | Description | Part No. | Type |
|----------------|--|----------|----------------|
| | Semi in-line valve with thread G1/8 | 173168 | VL-5/2-1/8-B |
| | Sub-base valve | 173169 | VL-5/2-5,0-B |
| | Semi in-line valve for manifold PRS-ME | 173170 | VL-5/2-1/8-P-B |

Pneumatic valves VL/J, midi pneumatics

Technical data – 5/2-way valves, double pilot

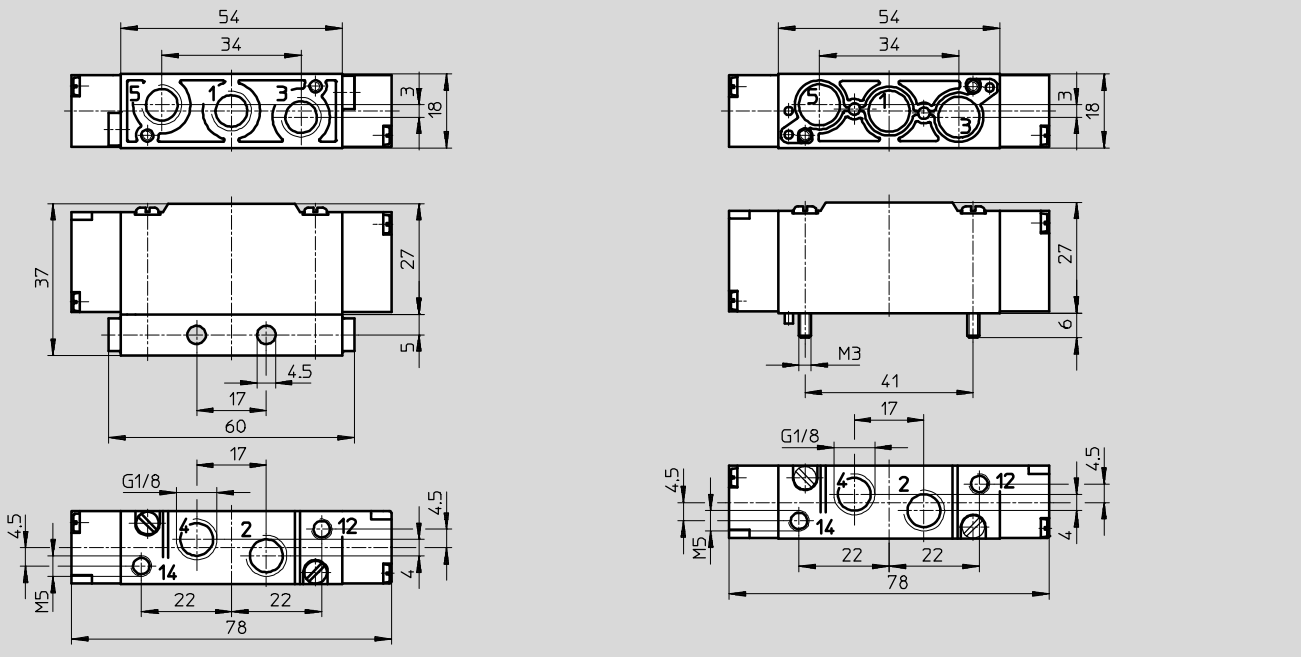
FESTO

Dimensions

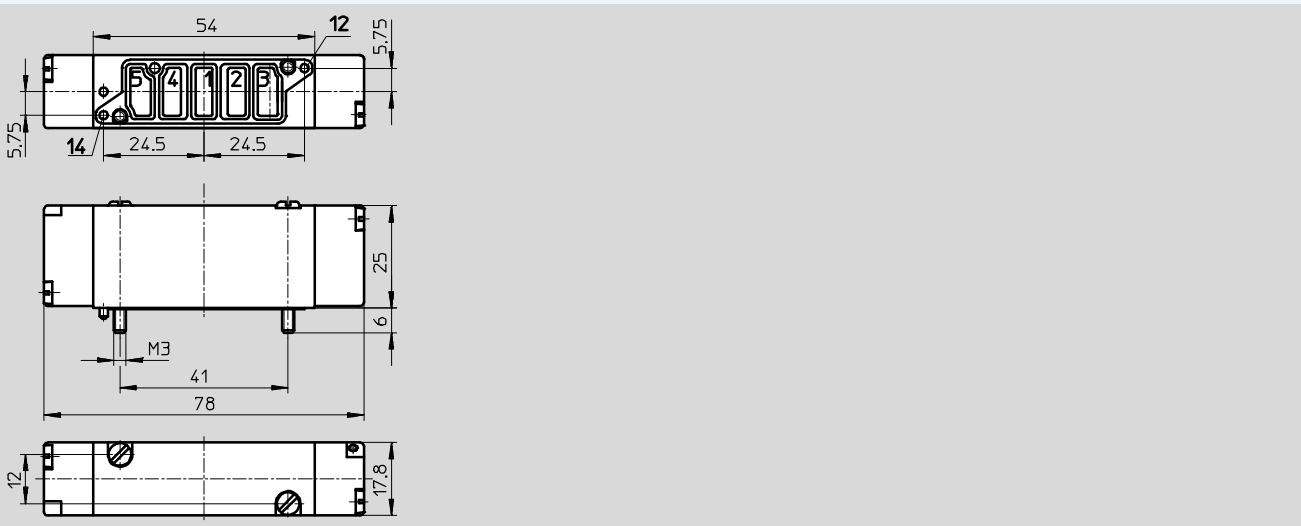
Download CAD data → www.festo.com

Semi in-line valve with thread G $\frac{1}{8}$

Semi in-line valve for manifold PRS-ME



Sub-base valve



Ordering data

| Circuit symbol | Description | Part No. | Type |
|----------------|--|----------|---------------------------|
| | Semi in-line valve with thread G $\frac{1}{8}$ | 173171 | J-5/2- $\frac{1}{8}$ -B |
| | Sub-base valve | 173172 | J-5/2-5,0-B |
| | Semi in-line valve for manifold PRS-ME | 173173 | J-5/2- $\frac{1}{8}$ -P-B |

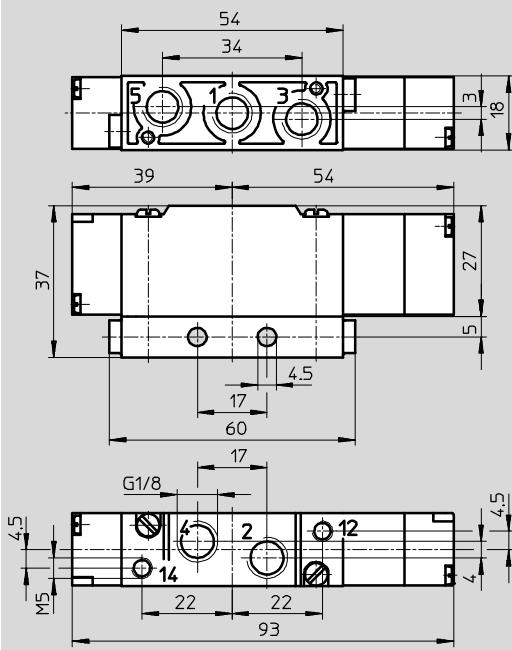
Pneumatic valves VL/J, midi pneumatics

Technical data – 5/3-way valves

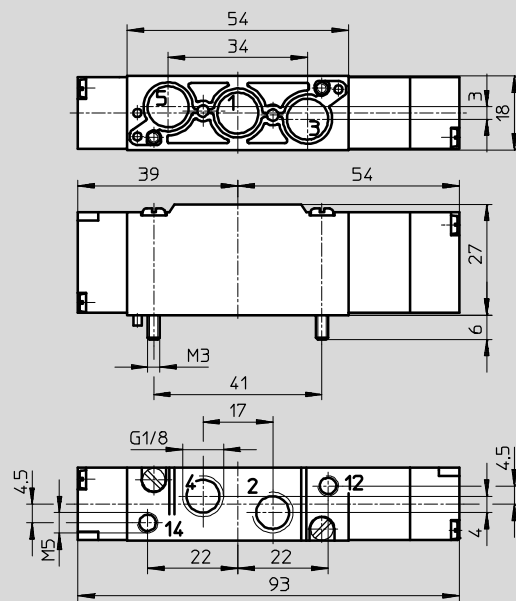
Dimensions

Download CAD data → www.festo.com

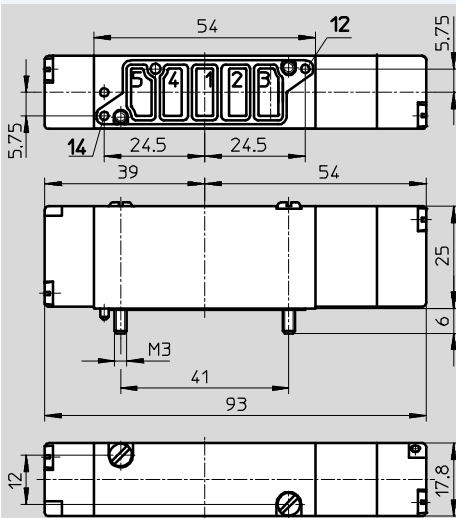
Semi in-line valve with thread G1/8



Semi in-line valve for manifold PRS-ME



Sub-base valve



Pneumatic valves VL/J, midi pneumatics

Technical data – 5/3-way valves

| Ordering data | | | |
|-----------------------------|--|---------------|---|
| Circuit symbol | Description | Part No. | Type |
| Normally closed | | | |
| | Semi in-line valve with thread G $\frac{1}{8}$ | 173174 | VL-5/3G-$\frac{1}{8}$-B |
| | Sub-base valve | 173175 | VL-5/3G-5,0-B |
| | Semi in-line valve for manifold PRS-ME | 173176 | VL-5/3G-$\frac{1}{8}$-P-B |
| Normally exhausted | | | |
| | Semi in-line valve with thread G $\frac{1}{8}$ | 173177 | VL-5/3E-$\frac{1}{8}$-B |
| | Sub-base valve | 173178 | VL-5/3E-5,0-B |
| | Semi in-line valve for manifold PRS-ME | 173179 | VL-5/3E-$\frac{1}{8}$-P-B |
| Normally pressurised | | | |
| | Semi in-line valve with thread G $\frac{1}{8}$ | 173180 | VL-5/3B-$\frac{1}{8}$-B |
| | Sub-base valve | 173181 | VL-5/3B-5,0-B |
| | Semi in-line valve for manifold PRS-ME | 173182 | VL-5/3B-$\frac{1}{8}$-P-B |

Solenoid/pneumatic valves, midi pneumatics

Accessories

Individual sub-bases
AS, AU

Material:
Die-cast aluminium

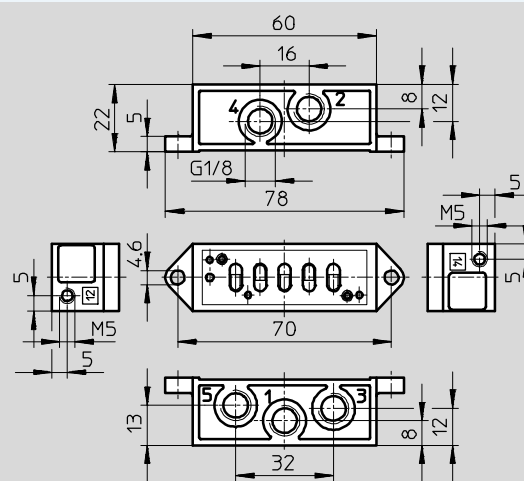
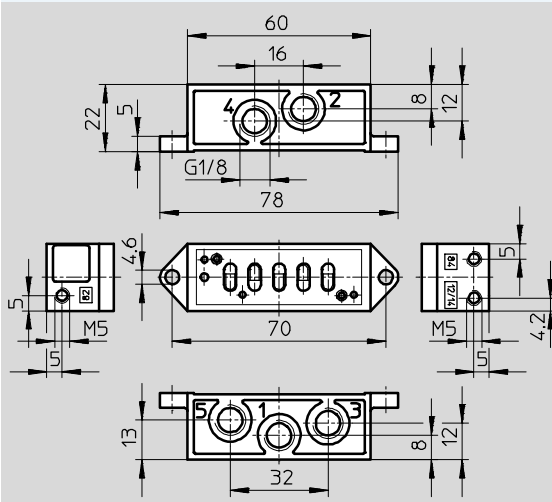


Dimensions – Individual sub-bases

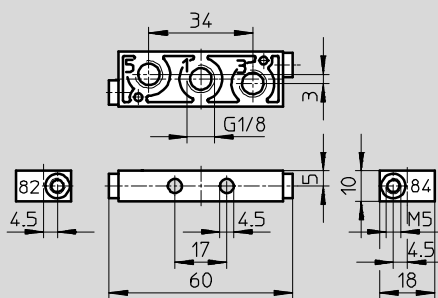
Download CAD data → www.festo.com

AS-ME-1/8

AS-VL-1/8



AU-ME-1/8



Ordering data

| Brief description | | Pneumatic connection | | Weight [g] | Part No. | Type |
|---------------------------|-----------------------|----------------------|--------|------------|----------|-----------|
| | | 1, 2, 3, 4, 5 | 82, 84 | | | |
| For solenoid valves | Connection at side | G1/8 | M5 | 50 | 33405 | AS-ME-1/8 |
| For pneumatic valves | | | | 50 | 152803 | AS-VL-1/8 |
| For valves type ...-1/8-P | Connection underneath | | | 15 | 32797 | AU-ME-1/8 |

Solenoid/pneumatic valves, midi pneumatics

Accessories

Series sub-bases
AW, EP, ZP

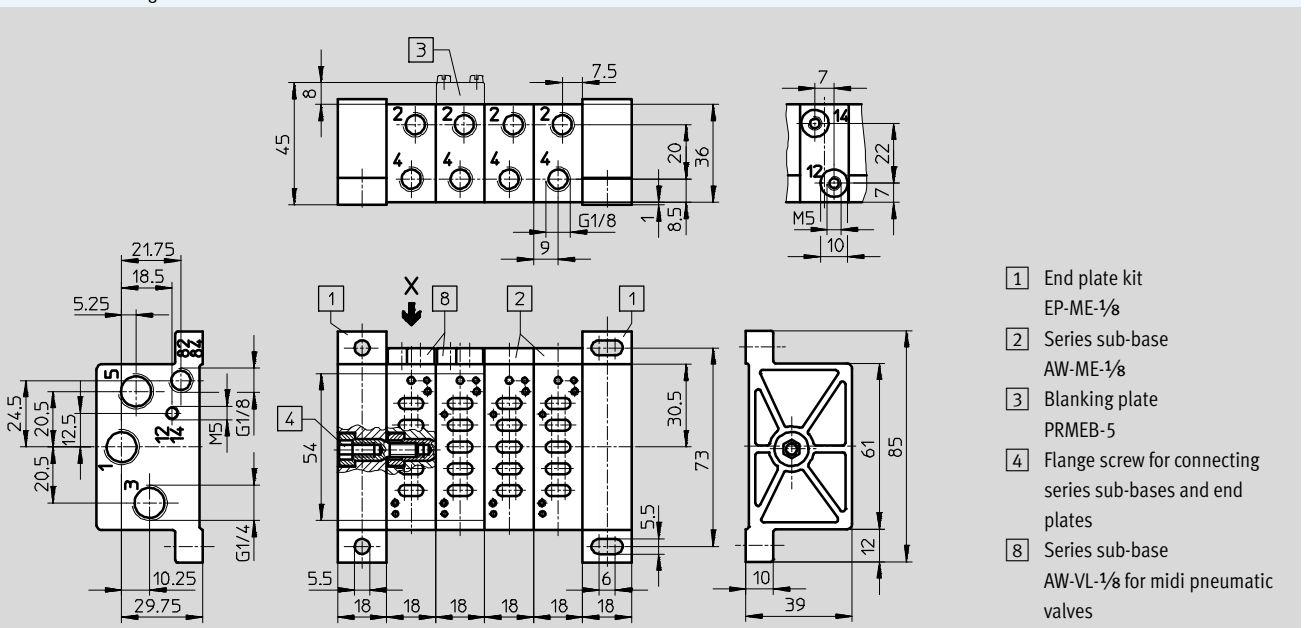
Material:
Die-cast aluminium



Dimensions

Download CAD data → www.festo.com

Manifold mounting



| Ordering data | | | | | |
|------------------------------------|---|--|------------|----------|-------------|
| Designation | Brief description | Scope of delivery | Weight [g] | Part No. | Type |
| Series sub-base | For solenoid valves | 1 sub-base, seals and fastening screws | 75 | 33406 | AW-ME-1/8 |
| | For pneumatic valves | | | 152801 | AW-VL-1/8 |
| Blanking plate for spare positions | – | – | – | 31798 | PRMEB-5 |
| End plate kit | – | 2 end plates, seals and fastening screws | 160 | 33407 | EP-ME-1/8 |
| Intermediate plate | With additional P connection | – | 95 | 152592 | ZP-ME-1/8-P |
| | With separate P connection to form pressure zones | | | 152591 | ZP-ME-1/8-Z |

Solenoid/pneumatic valves, midi pneumatics

Accessories

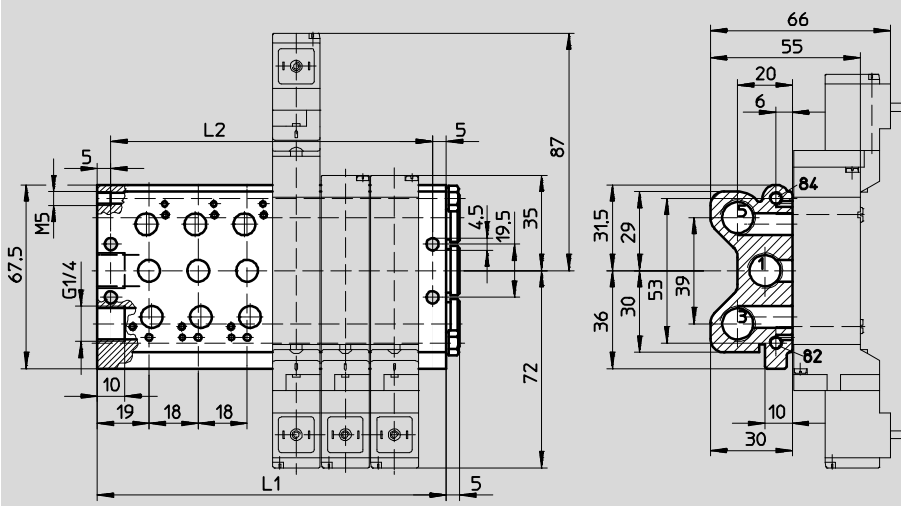
Manifold PRS-ME

Material:
Die-cast aluminium



Dimensions

Download CAD data → www.festo.com



| Number of valve positions | L1 | L2 |
|---------------------------|----|----|
| 2 | 56 | 46 |
| 3 | 74 | 64 |
| 4 | 92 | 82 |

| Number of valve positions | L1 | L2 |
|---------------------------|-----|-----|
| 5 | 110 | 100 |
| 6 | 128 | 118 |
| 7 | 146 | 136 |

| Number of valve positions | L1 | L2 |
|---------------------------|-----|-----|
| 8 | 164 | 154 |
| 9 | 182 | 172 |
| 10 | 200 | 190 |

Ordering data – Manifold block

| Pneumatic connection | | | Number of valve positions | Weight [g] | Part No. | Type |
|----------------------|---------------|--------|---------------------------|------------|----------|---------------|
| 1, 3, 5 | 2, 4 | 82, 84 | | | | |
| G1/4 | G1/8 on valve | M5 | 2 | 200 | 33408 | PRS-ME-1/8-2 |
| | | | 4 | 300 | 33409 | PRS-ME-1/8-4 |
| | | | 6 | 430 | 33410 | PRS-ME-1/8-6 |
| | | | 8 | 540 | 33411 | PRS-ME-1/8-8 |
| | | | 10 | 680 | 33412 | PRS-ME-1/8-10 |

Ordering data – Blanking plate

| Brief description | Part No. | Type |
|------------------------------------|----------|-------------|
| Blanking plate for spare positions | 31799 | PRSB-ME-1/8 |

- - Note




For combined assembly of series sub-bases AW-ME-1/8 and AW-VL-1/8, the following assembly sequence must be observed:




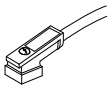

1. End plate with air supply
2. Series sub-bases for solenoid valves
3. Series sub-bases for pneumatic valves
4. End plate with flange screw

Solenoid/pneumatic valves, midi pneumatics

Accessories

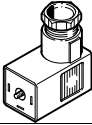


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| Ordering data | | Part No. | Type |
|---|---------------------------------|--------------------------------|----------------------|
| Brief description | | | |
| Push-in/threaded fittings QS | | | |
|  | - | → | Internet: quick star |
| Silencers | | | |
|  | - | → | u |
| Manual override tool, detenting | | Technical data → Internet: ahb | |
|  | For midi valves MEH, MOEH, JMEH | 152797 | AHB-ME-1/8 |

| Ordering data – Plug sockets, plug sockets with cable, illuminating seal for EB solenoid coils | | | | |
|--|----------------|------------------|-----------------------------------|-----------------------------------|
| | Voltage | Cable length [m] | Switching status display with LED | Part No. Type |
| Plug socket without cable | | | | Technical data → Internet: mssd |
|  | - | - | - | 151687 MSSD-EB |
| | - | - | - | 539712 MSSD-EB-M12 |
| Plug socket without cable with insulation displacement technology | | | | Technical data → Internet: mssd |
|  | - | - | - | 192745 MSSD-EB-S-M14 |
| PVC plug socket with cable | | | | Technical data → Internet: kmeb-1 |
|  | 24 V DC | 2.5 | ■ | 151688 KMEB-1-24-2,5-LED |
| | 24 V DC | 5 | ■ | 151689 KMEB-1-24-5-LED |
| | 24 V DC | 10 | ■ | 193457 KMEB-1-24-10-LED |
| | Up to 240 V | 2.5 | - | 151690 KMEB-1-230AC-2,5 |
| | Up to 240 V | 5 | - | 151691 KMEB-1-230AC-5 |
| PUR plug socket with cable | | | | Technical data → Internet: kmeb-2 |
|  | 24 V DC | 2.5 | ■ | 174844 KMEB-2-24-2,5-LED |
| | 24 V DC | 5 | ■ | 174845 KMEB-2-24-5-LED |
| | Up to 240 V | 2.5 | - | 174846 KMEB-2-230-2,5 |
| | Up to 240 V | 5 | - | 174847 KMEB-2-230-5 |
| Illuminating seal | | | | Technical data → Internet: meb-ld |
|  | 12 ... 24 V DC | - | - | 151717 MEB-LD-12-24DC |
| | 230 V AC | - | - | 151718 MEB-LD-230AC |

Solenoid/pneumatic valves, midi pneumatics

Accessories

| Ordering data – Plug sockets, plug sockets with cable, illuminating seal for E solenoid coils | | | | | |
|---|---------|------------------|-----------------------------------|---------------|---------------------------|
| | Voltage | Cable length [m] | Switching status display with LED | Part No. | Type |
| Plug socket without cable Technical data → Internet: mssd | | | | | |
|  | – | – | – | 14098 | MSSD-E |
| | | | | 539711 | MSSD-E-M12 |
| Plug socket with cable Technical data → Internet: kme | | | | | |
|  | 24 V DC | 2.5 | ■ | 30943 | KME-1-24DC-2,5-LED |
| | | 5 | ■ | 30945 | KME-1-24DC-5-LED |
| | | 10 | ■ | 193455 | KME-1-24DC-10-LED |
| Illuminating seal Technical data → Internet: me-ld | | | | | |
|  | 24 V DC | – | – | 19141 | ME-LD-12-24DC |