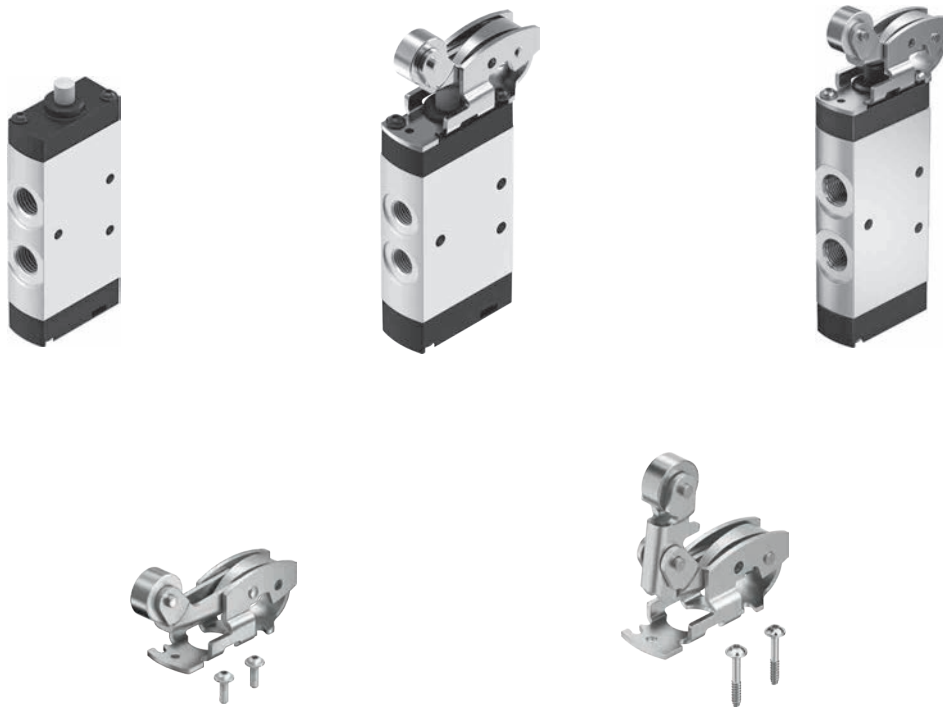


Mechanically actuated valves, NPT

FESTO



Key features



Innovative

- Small and compact for a wide range of pneumatic applications
- Numerous selectable valve functions: 3/2-way and 5/2-way functions
- Flow rates up to 1200 l/min
- Outstanding pneumatic performance for a wide range of applications
- Light weight
- Minimal actuating forces

Versatile

- Flexibility of the pneumatic working ports provides a practical solution to different requirements
- Round silencer for ducted exhaust air
- Suitable for vacuum in some cases
- Reverse operation possible in some cases
- Actuation: direct and piloted
- Available pressure range from vacuum to 10 bar.
- Design:
 - Stem actuated valve
 - Roller lever valve
 - Roller lever valve with idle return

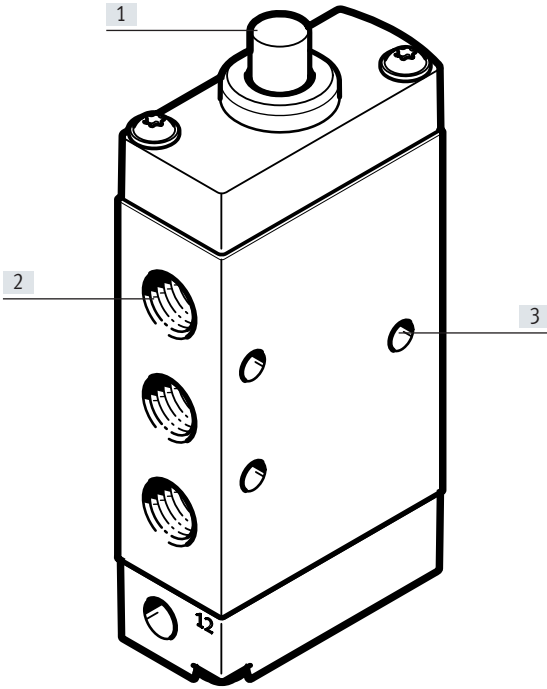
Reliable

- Durable thanks to tried-and-tested piston spool valves and poppet valves
- Sturdy thanks to metal housing and connecting thread or connector

Easy to install

- Mounted via through-holes (stem actuated valves are also suitable for front panel mounting)
- Can be precisely adjusted using mounting kit

Key features



- [1] Stem as actuator
- [2] Practical connection: via threaded connection or connector
- [3] Fast mounting: screwed directly via through-hole, front panel mounting possible

Equipment options

3/2-way valve, monostable

- Normally open/closed
- Mechanical spring
- Vacuum operation possible

- Directly controlled and pneumatically piloted
- Reversible
- Ducted exhaust air

5/2-way valve, monostable

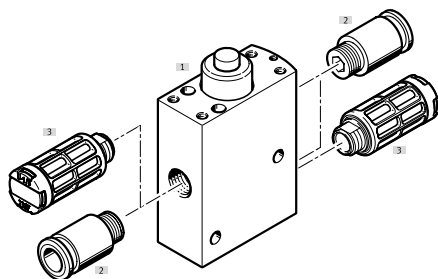
- Pneumatic spring/mechanical spring
- Vacuum operation possible

- Reversible in some cases
- Pneumatically piloted
- Ducted exhaust air

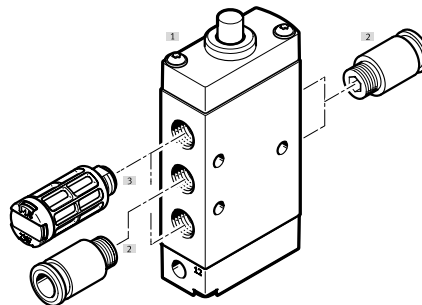
Peripherals overview

Valves, mechanically actuated

Stem actuated valve, 3/2-way valve

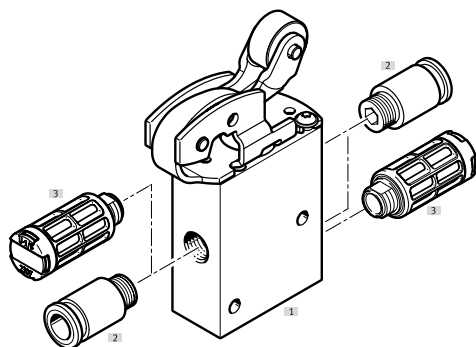


Stem actuated valve, 5/2-way valve

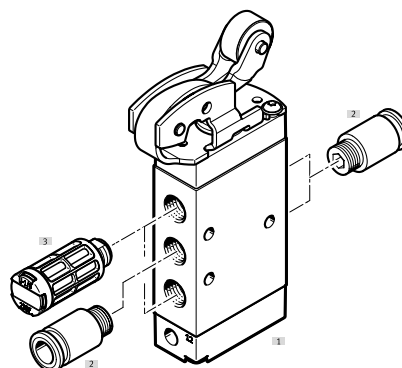


| | | Brief description | → Page/Internet |
|-----|---------------|---|-----------------|
| [1] | 3/2-way valve | Stem actuated valve | 9 |
| | 5/2-way valve | Stem actuated valve | 9 |
| [2] | Fitting | For supply air/exhaust ports (1, 3, 5) and working ports (2, 4) | 29 |
| [3] | Silencers | For exhaust ports (3, 5) | 29 |

Roller lever valve, 3/2-way valve



Roller lever valve, 5/2-way valve



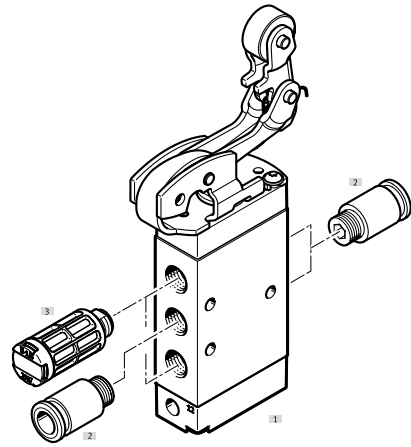
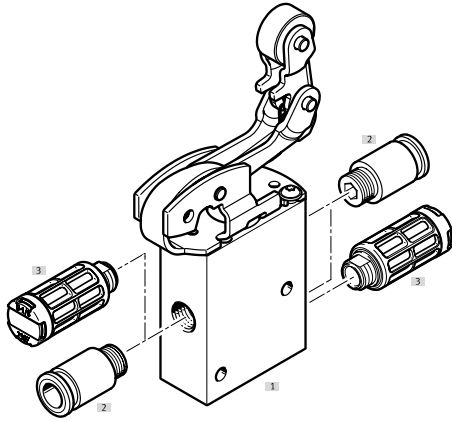
| | | Brief description | → Page/Internet |
|-----|---------------|---|-----------------|
| [1] | 3/2-way valve | Stem actuated valve with roller lever attachment | 17 |
| | 5/2-way valve | Stem actuated valve with roller lever attachment | 17 |
| [2] | Fitting | For supply air/exhaust ports (1, 3, 5) and working ports (2, 4) | 29 |
| [3] | Silencers | For exhaust ports (3, 5) | 29 |

Peripherals overview

Valves, mechanically actuated

Roller lever valve with idle return, 3/2-way valve

Roller lever valve with idle return, 5/2-way valve



| | | Brief description | → Page/Internet |
|-----|---------------|---|-----------------|
| [1] | 3/2-way valve | Stem actuated valve with idle return roller lever attachment | 21 |
| | 5/2-way valve | Stem actuated valve with idle return roller lever attachment | 21 |
| [2] | Fitting | For supply air/exhaust ports (1, 3, 5) and working ports (2, 4) | 29 |
| [3] | Silencers | For exhaust ports (3, 5) | 29 |

Key features – Pneumatic components

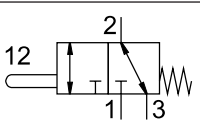
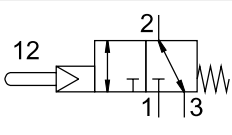
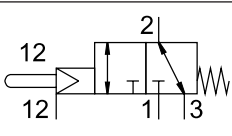
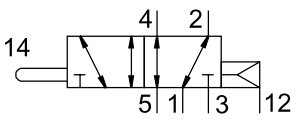
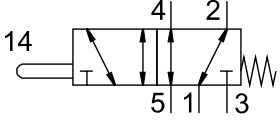
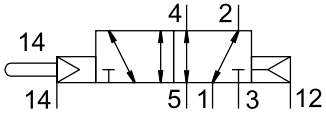
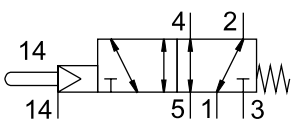
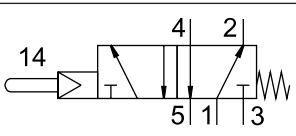
Mechanically actuated valves

Mechanically actuated valves are often used as "signal valves", and return a pneumatic signal to the controller. This signal, e.g. "end position reached", is transmitted via a stem or roller actuated valve.

This application sounds simple; it is used in smaller machines and in conveyor systems, e.g. to control simple clamping and locking processes in semi-automatic assembly and manufacturing.

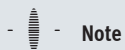
Benefits of mechanically actuated valves:

- No expensive programming
- Easy to set up and connect
- No electronic controller required
- Can be controlled and measured using sensors

| Valve functions Circuit symbol | Type | Description |
|--|--------------------|---|
| Stem actuated valve | | |
|  | VMEF-ST-M32-M... | 3/2-way valve, monostable <ul style="list-style-type: none"> • Normally closed (1 → 2) • Normally open (3 → 2) • Mechanical spring return • Suitable for vacuum • Reversible |
|  | VMEF-STC-M32-M... | 3/2-way valve, monostable <ul style="list-style-type: none"> • Normally closed (1 → 2) • Normally open (3 → 2) • Mechanical spring return • Pneumatically piloted, internal pilot air • Reversible |
|  | VMEF-STCZ-M32-M... | 3/2-way valve, monostable <ul style="list-style-type: none"> • Normally closed (1 → 2) • Normally open (3 → 2) • Mechanical spring return • Pneumatically piloted, external pilot air • Reversible |
|  | VMEF-S-M52-E... | 5/2-way valve, monostable <ul style="list-style-type: none"> • Reset via (external) pneumatic spring • Suitable for vacuum • Reversible |
|  | VMEF-S-M52-M... | 5/2-way valve, monostable <ul style="list-style-type: none"> • Mechanical spring return • Suitable for vacuum • Reversible |
|  | VMEF-SCZ-M52-E... | 5/2-way valve, monostable <ul style="list-style-type: none"> • Pneumatically piloted, external pilot air • Pneumatic spring return • Suitable for vacuum • Reversible |
|  | VMEF-SCZ-M52-M... | 5/2-way valve, monostable <ul style="list-style-type: none"> • Pneumatically piloted, external pilot air • Mechanical spring return • Suitable for vacuum • Reversible |
|  | VMEF-SC-M52-M... | 5/2-way valve, monostable <ul style="list-style-type: none"> • Pneumatically piloted, internal pilot air • Mechanical spring return |

Key features – Pneumatic components

| Valve functions | | |
|--|-------------------|--|
| Circuit symbol | Type | Description |
| Roller lever valve | | |
| <p>The circuit symbol shows a 3/2-way valve with a roller lever actuator. Port 12 is the actuator inlet, port 1 is the inlet, port 2 is the outlet, and port 3 is the exhaust. A spring symbol is shown on port 3, indicating a normally open configuration.</p> | VMEF-RT-M32-M-... | 3/2-way valve, monostable <ul style="list-style-type: none"> • Normally closed (1 → 2) • Normally open (3 → 2) • Mechanical spring return • Directly actuated • Suitable for vacuum • Reversible |
| <p>The circuit symbol shows a 5/2-way valve with a roller lever actuator. Port 14 is the actuator inlet, port 4 is the inlet, port 2 is the outlet, port 5 is the inlet, port 1 is the outlet, and port 3 is the exhaust. A spring symbol is shown on port 3, indicating a normally open configuration.</p> | VMEF-R-M52-M-... | 5/2-way valve, monostable <ul style="list-style-type: none"> • Mechanical spring return • Directly actuated • Suitable for vacuum • Reversible |
| <p>The circuit symbol shows a 5/2-way valve with a roller lever actuator and an external pneumatic spring. Port 14 is the actuator inlet, port 4 is the inlet, port 2 is the outlet, port 5 is the inlet, port 1 is the outlet, port 3 is the exhaust, and port 12 is the external pneumatic spring inlet. A spring symbol is shown on port 3, indicating a normally open configuration.</p> | VMEF-R-M52-E-... | 5/2-way valve, monostable <ul style="list-style-type: none"> • Reset via (external) pneumatic spring • Directly actuated • Suitable for vacuum • Reversible |
| Roller lever valve with idle return | | |
| <p>The circuit symbol shows a 3/2-way valve with a roller lever actuator and an idle return. Port 12 is the actuator inlet, port 1 is the inlet, port 2 is the outlet, and port 3 is the exhaust. A spring symbol is shown on port 3, indicating a normally open configuration.</p> | VMEF-KT-M32-M-... | 3/2-way valve, monostable <ul style="list-style-type: none"> • Normally closed (1 → 2) • Normally open (3 → 2) • Mechanical spring return • Directly actuated • Suitable for vacuum • Reversible |
| <p>The circuit symbol shows a 5/2-way valve with a roller lever actuator and an idle return. Port 14 is the actuator inlet, port 4 is the inlet, port 2 is the outlet, port 5 is the inlet, port 1 is the outlet, and port 3 is the exhaust. A spring symbol is shown on port 3, indicating a normally open configuration.</p> | VMEF-K-M52-M-... | 5/2-way valve, monostable <ul style="list-style-type: none"> • Mechanical spring return • Directly actuated • Suitable for vacuum • Reversible |

**Note**

A filter must be installed upstream of valves operated in vacuum mode. This prevents any foreign matter in the intake air getting into the valve (e.g. when operating a suction cup with connector).

Type codes

| | | |
|-------------|-----------------------------|--|
| 001 | Series | |
| VMEF | Mechanically actuated valve | |

| | | |
|------------|-------------------------------------|--|
| 002 | Actuation type | |
| S | Stem actuated valve | |
| R | Roller lever valve | |
| K | Roller lever valve with idle return | |

| | | |
|------------|-------------------------|--|
| 003 | Design principle | |
| | Piston spool | |
| T | Poppet valve | |

| | | |
|------------|------------------------|--|
| 004 | Type of control | |
| | Directly actuated | |
| C | Indirectly actuated | |




| | | |
|------------|------------------|--|
| 005 | Pilot air | |
| | Internal | |
| Z | External | |

| | | |
|------------|---|--|
| 006 | Valve function | |
| M32 | 3/2-way valve, normally closed or open | |
| M52 | 5/2-way valve, single solenoid/monostable | |

| | | |
|------------|---|--|
| 007 | Reset method for monostable/single solenoid valves | |
| E | Pneumatic spring, external | |
| M | Mechanical spring | |

| | | |
|------------|-----------------------------|--|
| 008 | Pneumatic connection | |
| G18 | G1/8 | |
| G14 | G1/4 | |
| N18 | 1/8 NPT | |
| N14 | 1/4 NPT | |

Datasheet – Stem actuated valve

-  Flow rate
750 ... 1200 l/min
-  Pressure
-0.095 ... 1 MPa
-0.95 ... 10 bar
-  Temperature range
-10 ... +60°C



| General technical data | |
|-------------------------------|-------------------------------|
| Design | Stem actuated valve |
| Width [mm] | 20 |
| Type of control | Directly actuated or piloted |
| Max. actuating speed | |
| • Directly actuated [m/s] | 0.6 |
| • Piloted [m/s] | 0.3 |
| Application information | Do not use as mechanical stop |
| Actuation type | Mechanical |
| Mounting | Via through-hole |
| Sealing principle | Soft |
| Flow direction | Reversible |
| Mounting position | Any |
| Max. switching frequency [Hz] | 3 |

| Technical data – Poppet valve | | | | | |
|-------------------------------|-----------------------|---------------------------|--------------------------|--------------------|--------------------------|
| Type | | VMEF-ST-M32 ... 18 | VMEF-STC ... -M32 ... 18 | VMEF-ST-M32 ... 14 | VMEF-STC ... -M32 ... 14 |
| Design | | Poppet valve | | | |
| Standard nominal flow rate | 1 → 2 [l/min] | 750 | 750 | 870 | 870 |
| | 3 → 2 [l/min] | 665 | 665 | 750 | 750 |
| Valve function | | 3/2-way valve, monostable | | | |
| Overlap | | Zero overlap | | | |
| Type of control | | Directly actuated | Piloted | Directly actuated | Piloted |
| Reset method | | Mechanical spring | | | |
| Pneumatic connection 1, 2, 3 | | 1/8 NPT | 1/8 NPT | 1/4 NPT | 1/4 NPT |
| Pilot air port 1 2/14 | | – | M5 | – | M5 |
| Pilot air supply | | – | Internal or external | – | Internal or external |
| Nominal width [mm] | | 5.6 | 5.6 | 6.0 | 6.0 |
| Actuating force at 6 bar | • normally closed [N] | 46 | 14 | 46 | 14 |
| | • normally open [N] | 82 | 14 | 82 | 14 |

Datasheet – Stem actuated valve

| Technical data – Piston spool valve | | | | | |
|--|---------------------------|---------------------|---------------------|---------------------|--|
| Type | VMEF-S-M52-E ... 18 | VMEF-S-M52-M ... 18 | VMEF-S-M52-E ... 14 | VMEF-S-M52-M ... 14 | |
| Design | Piston spool valve | | | | |
| Standard nominal flow rate 1 → 2 [l/min] | 750 | 750 | 1200 | 1200 | |
| Valve function | 5/2-way valve, monostable | | | | |
| Overlap | Positive overlap | | | | |
| Type of control | Directly actuated | | | | |
| Reset method | Pneumatic spring | Mechanical spring | Pneumatic spring | Mechanical spring | |
| Pneumatic connection 1, 2, 3, 4, 5 | 1/8 NPT | 1/8 NPT | 1/4 NPT | 1/4 NPT | |
| Pilot air port 1 2/14 | M5 | – | M5 | – | |
| Nominal width [mm] | 5.2 | 5.2 | 7.0 | 7.0 | |
| Actuating force at 6 bar [N] | 28 | 34 | 48 | 43 | |

| Technical data – Piston spool valve | | | | | |
|--|---------------------------|-----------------------|-----------------------|-----------------------|--|
| Type | VMEF-SCZ-M52-E ... 18 | VMEF-S...M52-M ... 18 | VMEF-SCZ-M52-E ... 14 | VMEF-S...M52-M ... 14 | |
| Design | Piston spool valve | | | | |
| Standard nominal flow rate 1 → 2 [l/min] | 750 | 750 | 1200 | 1200 | |
| Valve function | 5/2-way valve, monostable | | | | |
| Overlap | Positive overlap | | | | |
| Type of control | Piloted | | | | |
| Reset method | Pneumatic spring | Mechanical spring | Pneumatic spring | Mechanical spring | |
| Pneumatic connection 1, 2, 3, 4, 5 | 1/8 NPT | 1/8 NPT | 1/4 NPT | 1/4 NPT | |
| Pilot air port 1 2/14 | M5 | M5 | M5 | M5 | |
| Pilot air supply | External | Internal or external | External | Internal or external | |
| Nominal width [mm] | 5.2 | 5.2 | 7.0 | 7.0 | |
| Actuating force at 6 bar [N] | 14 | 14 | 14 | 14 | |

| Materials | |
|-------------------|--|
| Housing | Anodised wrought aluminium alloy |
| Cover | Reinforced PA (VMEF-STC...-M32-, VMEF...-M52-) |
| Seal | NBR |
| Note on materials | RoHS-compliant |
| PWIS conformity | VDMA24364-B1/B2-L |

| Operating and environmental conditions | | | | | | |
|---|--|-------------------|------------|--------------------------------------|------------------|--------------|
| Type | VMEF-ST-M32- ... VMEF-STCZ-M32- ... | VMEF-STC-M32- ... | | VMEF-S-M52- ... VMEF-SCZ-M52- ... | VMEF-SC-M52- ... | |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:-:-] | | | | | |
| Note on the operating/pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) | | | | | |
| Operating pressure | [MPa] | –0.095 ... 1 | | 0.35 ... 1 | | –0.095 ... 1 |
| | [bar] | –0.95 ... 10 | | 3.5 ... 10 | | –0.95 ... 10 |
| With internal/external pilot air NC valves | [bar] | Internal | External | Internal | External | – |
| | | 3.5 ... 10 | 3.0 ... 10 | 3.0 ... 10 | 2.5 ... 10 | – |
| NO valves | [bar] | 3.5 ... 10 | 3.0 ... 10 | 3.5 ... 10 | 2.5 ... 10 | – |
| Pilot pressure | [bar] | – | | 3.5 ... 10 | | 2.5 ... 10 |
| Temperature of medium | [°C] | –10 ... +60 | | | | |
| Ambient temperature | [°C] | –10 ... +60 | | | | |
| Corrosion resistance class CRC ¹⁾ | 2 | | | | | |

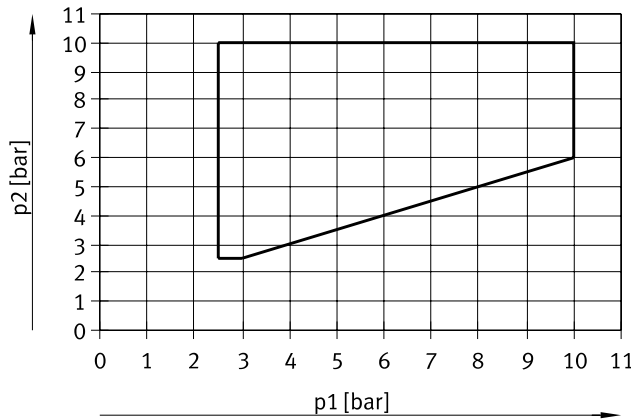
1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Datasheet – Stem actuated valve

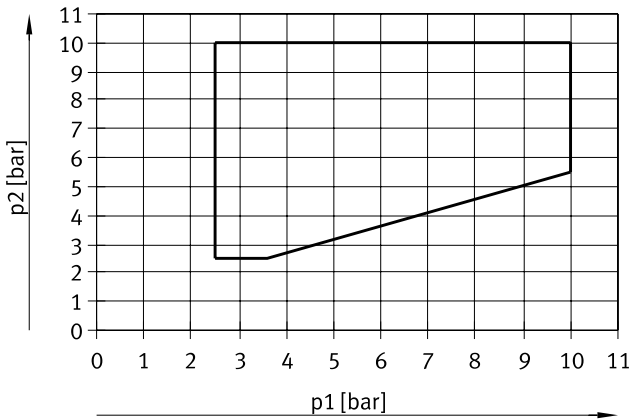
Pilot pressure p2 as a function of external pneumatic spring pressure p1

For piston spool valves VMEF-...-M52...18



The framed area shows the operating area for internal and external pilot air.

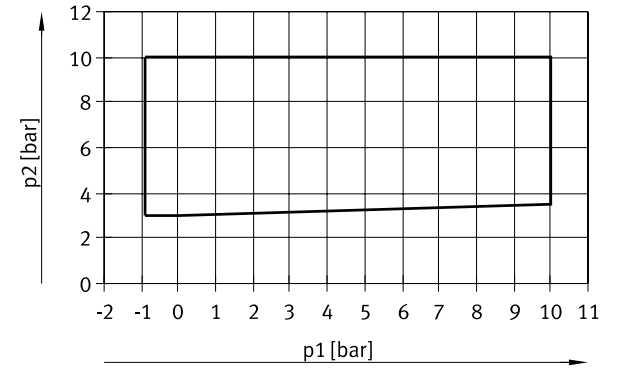
For piston spool valves VMEF-...-M52...14



The framed area shows the operating area for internal and external pilot air.

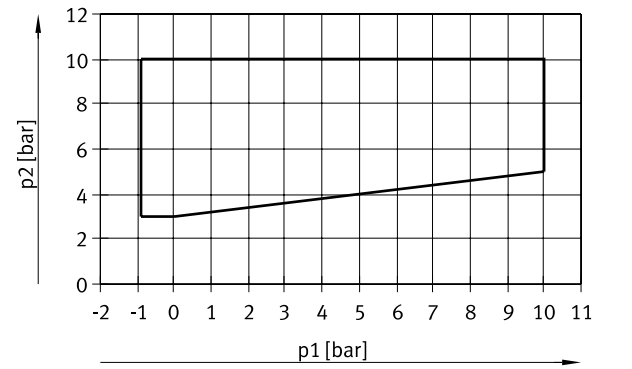
Pilot pressure p2 as a function of working pressure p1

For poppet valves VMEF-...-M32...
(normally closed)



The framed area shows the operating range for external pilot air.

For poppet valves VMEF-...-M32...
(normally open)



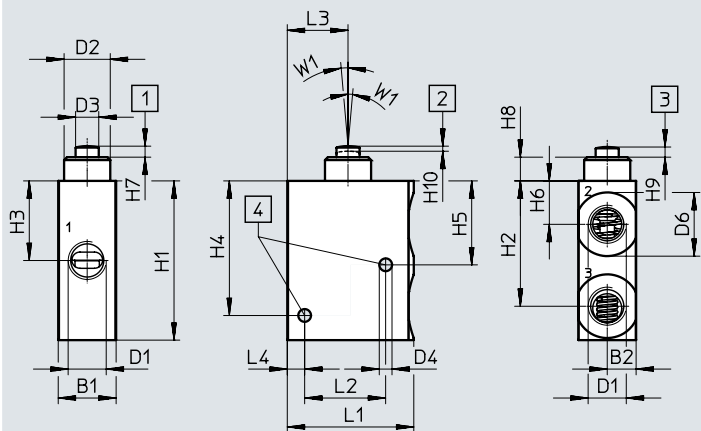
The framed area shows the operating range for external pilot air.

Datasheet – Stem actuated valve

Dimensions

Download CAD data → www.festo.com

3/2-way valve



- [1] Normal position
- [2] Start of opening
- [3] Maximum stroke
- [4] Mounting hole

| Type | B1 | B2 | D1 | D2 ∅ | D3 ∅ | D4 ∅ | D6 ∅ | L1 | L2 | L3 | L4 |
|-------------------|----|----|---------|---------|---------|---------|---------|------|----|----|----|
| VMEF-ST-M32-M-N18 | 20 | 10 | 1/8 NPT | 16.0 | 8.0 | 4.4 | 16.5 | 43.7 | 28 | 21 | 6 |
| VMEF-ST-M32-M-N14 | | | 1/4 NPT | | | | 22 | | | | |

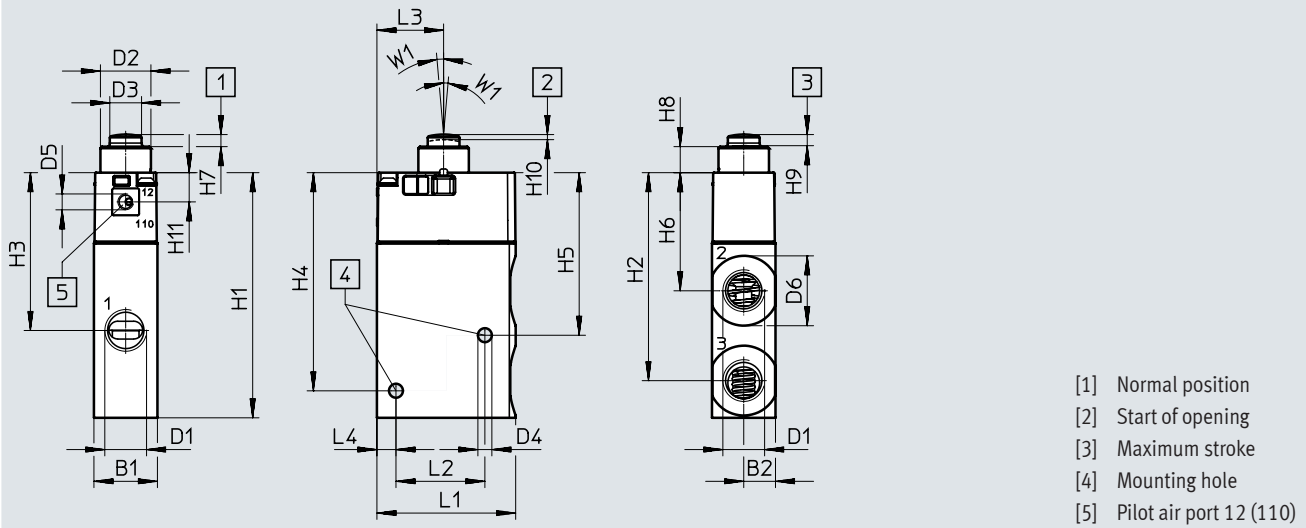
| Type | H1 | H2 | H3 | H4 | H5 | H6 | H7 ±0.2 | H8 | H9 ±0.3 | H10 ±0.3 | W1 |
|-------------------|----|------|------|------|----|----|------------|-----|------------|-------------|----|
| VMEF-ST-M32-M-N18 | 55 | 43.3 | 27.5 | 46.5 | 29 | 15 | 3.8 | 8.2 | 3.5 | 1.8 | 5° |
| VMEF-ST-M32-M-N14 | | | | | | | | | | | |

Datasheet – Stem actuated valve

Dimensions

Download CAD data → www.festo.com

3/2-way valve and 3/2-way valve with external pilot air supply



| Type | B1 | B2 | D1 | D2 ø | D3 ø | D4 ø | D5 | D6 ø | L1 | L2 | L3 | L4 |
|---------------------|----|----|---------|---------|---------|---------|----|---------|------|----|----|----|
| VMEF-STC-M32-M-N18 | 20 | 10 | 1/8 NPT | 15.9 | 10 | 4.4 | - | 16.5 | 43.7 | 28 | 21 | 6 |
| VMEF-STC-M32-M-N14 | | | 1/4 NPT | | | | | 22 | | | | |
| VMEF-STCZ-M32-M-N18 | | | 1/8 NPT | | | | M5 | 16.5 | | | | |
| VMEF-STCZ-M32-M-N14 | | | 1/4 NPT | | | | | 22 | | | | |

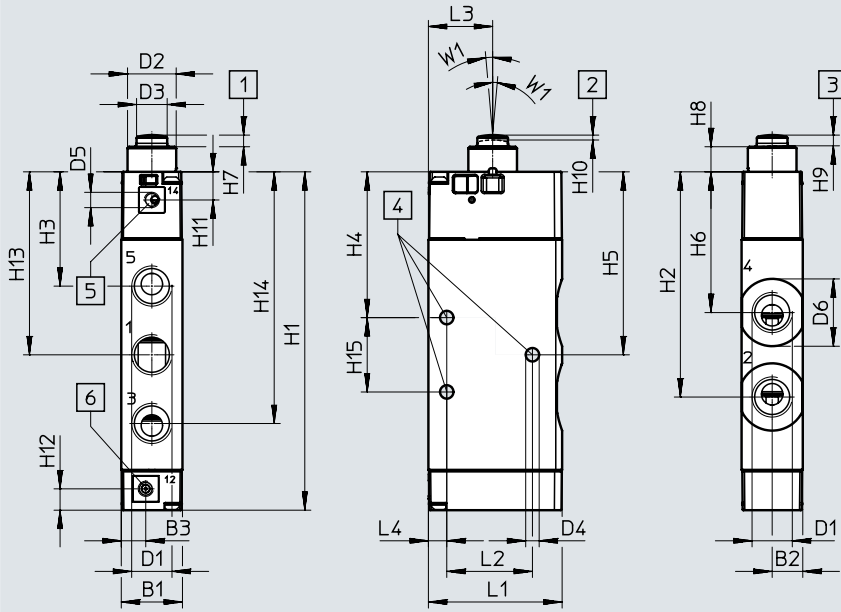
| Type | H1 | H2 | H3 | H4 | H5 | H6 | H7 ±0.15 | H8 | H9 ±0.15 | H10 ±0.4 | H11 | W1 |
|---------------------|------|------|------|------|------|------|-------------|-----|-------------|-------------|-----|----|
| VMEF-STC-M32-M-N18 | 77.2 | 65.5 | 49.7 | 68.7 | 51.2 | 37.2 | 3.8 | 8.2 | 3.5 | 1.6 | 9.2 | 5° |
| VMEF-STC-M32-M-N14 | | | | | | | | | | | | |
| VMEF-STCZ-M32-M-N18 | | | | | | | | | | | | |
| VMEF-STCZ-M32-M-N14 | | | | | | | | | | | | |

Datasheet – Stem actuated valve

Dimensions

Download CAD data → www.festo.com

5/2-way valve and 5/2-way valve with external pilot air supply



- [1] Normal position
- [2] Start of opening
- [3] Maximum stroke
- [4] Mounting hole
- [5] Pilot air port 14
- [6] Pilot air port 12

| Type | B1 | B2 | B3 | D1 | D2 ∅ | D3 ∅ | D4 ∅ | D5 | D6 ∅ | L1 | L2 | L3 | L4 | |
|--------------------|----|----|----|---------|---------|---------|---------|----|---------|------|----|----|----|----|
| VMEF-SC-M52-M-N18 | 20 | 10 | 8 | 1/8 NPT | 15.9 | 10 | 4.4 | - | 16.5 | 43.7 | 28 | 21 | 6 | |
| VMEF-SCZ-M52-M-N18 | | | | 1/8 NPT | | | | M5 | | | | | | |
| VMEF-SCZ-M52-E-N18 | | | | 1/8 NPT | | | | | | | | | | |
| VMEF-SC-M52-M-N14 | | | | 1/4 NPT | | | | - | | | | | | 22 |
| VMEF-SCZ-M52-M-N14 | | | | 1/4 NPT | | | | M5 | | | | | | |
| VMEF-SCZ-M52-E-N14 | | | | 1/4 NPT | | | | | | | | | | |

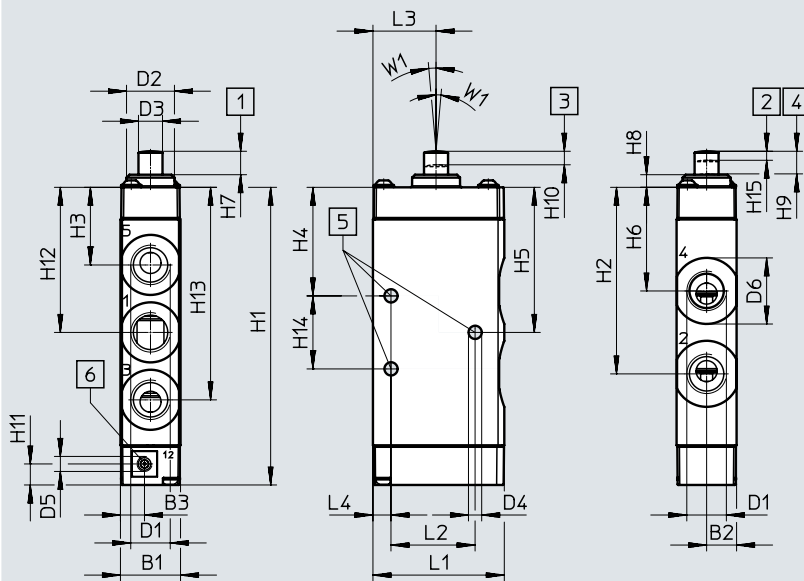
| Type | H1 | H2 | H3 | H4 | H5 | H6 | H7 ±0.15 | H8 | H9 ±0.15 | H10 ±0.4 | H11 | H12 | H13 | H14 | H15 | W1 |
|--------------------|-------|------|------|------|------|------|-------------|-----|-------------|-------------|-----|-----|------|------|------|----|
| VMEF-SC-M52-M-N18 | 94.1 | 61.4 | 34.6 | 42.6 | 51.6 | 41.8 | 3.8 | 8.2 | 3.5 | 1.6 | 9.2 | 7 | 51.6 | 68.6 | 18 | 5° |
| VMEF-SCZ-M52-M-N18 | | | | | | | | | | | | | | | | |
| VMEF-SCZ-M52-E-N18 | | | | | | | | | | | | | | | | |
| VMEF-SC-M52-M-N14 | 110.6 | 73.6 | 37.4 | 47.7 | 59.8 | 46 | | | | | | | 59.8 | 82.3 | 24.3 | |
| VMEF-SCZ-M52-M-N14 | | | | | | | | | | | | | | | | |
| VMEF-SCZ-M52-E-N14 | | | | | | | | | | | | | | | | |

Datasheet – Stem actuated valve

Dimensions

Download CAD data → www.festo.com

5/2-way valve



- [1] Normal position
- [2] Start of closing
- [3] Start of opening
- [4] Maximum stroke
- [5] Mounting hole
- [6] Pilot air port 12


| Type | B1 | B2 | B3 | D1 | D2 ∅ | D3 ∅ | D4 ∅ | D5 | D6 ∅ | L1 | L2 | L3 | L4 | H1 | H2 |
|-----------------|----|----|----|---------|---------|---------|---------|----|---------|------|----|----|----|------|------|
| VMEFS-M52-M-N18 | 20 | 10 | 8 | 1/8 NPT | 16 | 8 | 4.4 | – | 16.5 | 43.7 | 28 | 21 | 6 | 82.6 | 49.9 |
| VMEFS-M52-E-N18 | | | | 1/4 NPT | | | | M5 | | | | | | | |
| VMEFS-M52-M-N14 | | | | – | | | | 22 | | | | | | | |
| VMEFS-M52-E-N14 | | | | M5 | | | | – | | | | | | | |

| Type | H3 | H4 | H5 | H6 | H7 ±0.15 | H8 | H9 ±0.15 | H10 ±0.15 | H11 | H12 | H13 | H14 | H15 ±0.15 | W1 |
|-----------------|------|------|------|------|-------------|-----|-------------|--------------|-----|------|------|------|--------------|----|
| VMEFS-M52-M-N18 | 23.1 | 31.1 | 40.1 | 30.3 | 7.8 | 4.2 | 7.5 | 4.2 | 7 | 40.1 | 57.1 | 18 | 3 | 5° |
| VMEFS-M52-E-N18 | | | | | | | | | | 48.3 | | | | |
| VMEFS-M52-M-N14 | 25.9 | 36.2 | 48.3 | 34.5 | | | | 4.5 | | 48.3 | 70.8 | 24.3 | | |
| VMEFS-M52-E-N14 | | | | | | | | | | | | | | |

Directly actuated stem actuated valves VMEF-S... can be extended with the actuator attachment VAOM-R4-20... to form a roller lever valve or roller lever valve with idle return. Actuator attachments are available for 3/2-way and 5/2-way valves.

→ Page 25

The valve can be moved in the actuation direction with the mounting kit VAME-R4-20-PA. This enables the correct switching point to be set. → Page 29




 **Note**

- When screwing the actuator attachment VAOM-R4-20... onto the valve, ensure that the prescribed torque of 1.5 Nm ± 10% is observed.
- An actuator attachment VAOM-R4-20... can only be mounted on a basic valve three times.

Datasheet – Stem actuated valve

| Ordering data | | | | | | |
|-----------------------|-----------|------------|----------------------|---------------|----------------|----------------------------|
| Type of control | Pilot air | Reset | Flow rate [l/min] | Weight [g] | Part no. | Type |
| 3/2-way valves | | | | | | |
| Direct | – | Mechanical | 750 | 116 | 8031305 | VMEF-ST-M32-M-N18 |
| | | | 870 | 110 | 8031310 | VMEF-ST-M32-M-N14 |
| Piloted | Internal | Mechanical | 750 | 131 | 8031333 | VMEF-STC-M32-M-N18 |
| | | | 870 | 124 | 8031334 | VMEF-STC-M32-M-N14 |
| | External | Mechanical | 750 | 131 | 8031337 | VMEF-STCZ-M32-M-N18 |
| | | | 870 | 124 | 8031338 | VMEF-STCZ-M32-M-N14 |
| 5/2-way valves | | | | | | |
| Direct | – | Mechanical | 750 | 145 | 8031307 | VMEF-S-M52-M-N18 |
| | | Pneumatic | 750 | 144 | 8031309 | VMEF-S-M52-E-N18 |
| | | Mechanical | 1200 | 178 | 8031312 | VMEF-S-M52-M-N14 |
| | | Pneumatic | 1200 | 177 | 8031314 | VMEF-S-M52-E-N14 |
| Piloted | Internal | Mechanical | 1200 | 184 | 8031321 | VMEF-SC-M52-M-N14 |
| | | | 750 | 151 | 8031322 | VMEF-SC-M52-M-N18 |
| | External | Pneumatic | 1200 | 183 | 8031325 | VMEF-SCZ-M52-E-N14 |
| | | | 750 | 150 | 8031326 | VMEF-SCZ-M52-E-N18 |
| | | Mechanical | 1200 | 184 | 8031329 | VMEF-SCZ-M52-M-N14 |
| | | | 750 | 151 | 8031330 | VMEF-SCZ-M52-M-N18 |

Datasheet – Roller lever valve

-  Flow rate
750 ... 1200 l/min
-  Pressure
-0.095 ... 1 MPa
-0.95 ... 10 bar
-  Temperature range
-10 ... +60°C

**General technical data**

| | |
|---|-------------------|
| Design | Roller lever |
| Width [mm] | 20 |
| Type of control | Directly actuated |
| Application information | Risk of pinching |
| Actuation type | Mechanical |
| Mounting | Via through-hole |
| Sealing principle | Soft |
| Flow direction | Reversible |
| Mounting position | Any |
| Max. switching frequency [Hz] | 3 |
| Max. actuating speed for side actuation [m/s] | 1.4 |
| Cam angle in angular degrees | 30 |

Technical data – Poppet valve

| Type | VMEF-RT-M32-...18 | VMEF-RT-M32-...14 |
|--|---------------------------|-------------------|
| Design | Poppet valve | |
| Standard nominal flow rate 1 → 2 [l/min] | 750 | 870 |
| Valve function | 3/2-way valve, monostable | |
| Overlap | Zero overlap | |
| Reset method | Mechanical spring | |
| Pneumatic connection 1, 2, 3 | 1/8 NPT | 1/4 NPT |
| Nominal width [mm] | 5.6 | 6 |
| Max. stroke limit (hard) [mm] | 6.3 | |
| Actuating force [N] | 35.2 | |

Technical data – Piston spool valve

| Type | VMEF-R-M52-E-...18 | VMEF-R-M52-M-...18 | VMEF-R-M52-E-...14 | VMEF-R-M52-M-...14 |
|--|---------------------------|--------------------|--------------------|--------------------|
| Design | Piston spool valve | | | |
| Standard nominal flow rate 1 → 2 [l/min] | 750 | | 1200 | |
| Valve function | 5/2-way valve, monostable | | | |
| Overlap | Positive overlap | | | |
| Reset method | Pneumatic spring | Mechanical spring | Pneumatic spring | Mechanical spring |
| Max. switching frequency [Hz] | 3 | | | |
| Pneumatic connection 1, 2, 3 | 1/8 NPT | 1/8 NPT | 1/4 NPT | 1/4 NPT |
| Nominal width [mm] | 5.2 | 5.2 | 7 | 7 |
| Max. stroke limit (hard) [mm] | 11.6 | | | |
| Actuating force [N] | 38 | | | |

Datasheet – Roller lever valve

| Materials | |
|---------------------|----------------------------------|
| Housing | Anodised wrought aluminium alloy |
| Cover | Reinforced PA (VMEF...-M52-) |
| Actuator attachment | Galvanised steel |
| Seal | NBR |
| Note on materials | RoHS-compliant |
| PWIS conformity | VDMA24364-B1/B2-L |

| Operating and environmental conditions | |
|--|--|
| Operating medium | Compressed air to ISO 8573-1:2010 [7:-:-] |
| Note on the operating/pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) |
| Operating pressure | [MPa] -0.095 ... 1 |
| | [bar] -0.95 ... 10 |
| Temperature of medium | [°C] -10 ... +60 |
| Ambient temperature | [°C] -10 ... +60 |
| Note on ambient temperature | Influence of heat on wear |
| Corrosion resistance class CRC ¹⁾ | 1 |

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

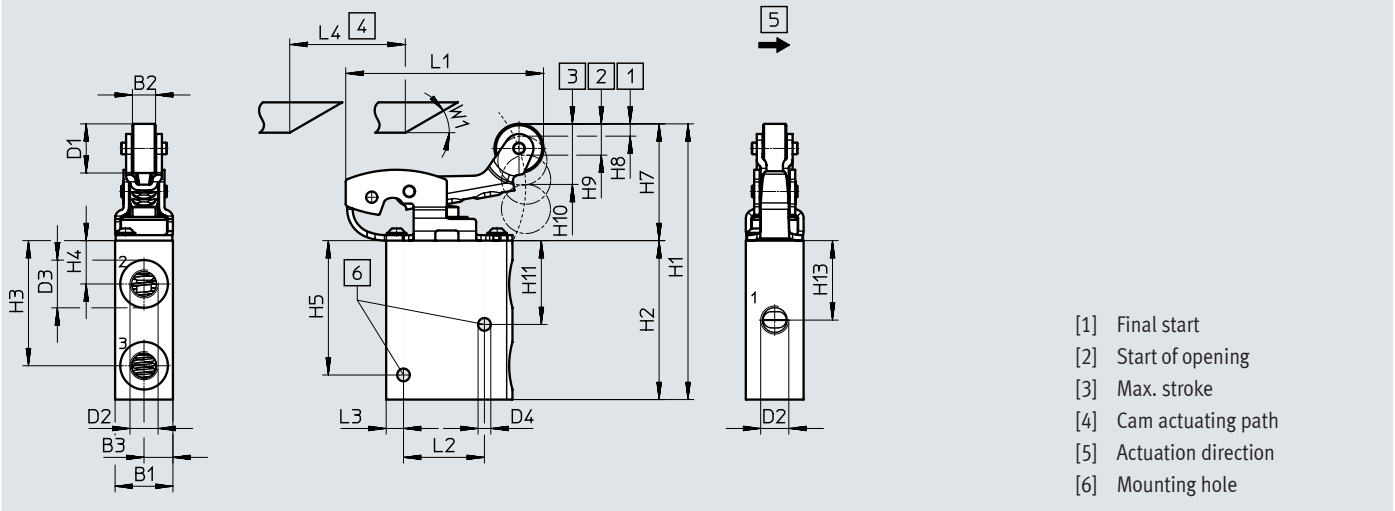
Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts which are covered in the application (e.g. drive trunnions).

Datasheet – Roller lever valve

Dimensions

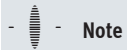
Download CAD data → www.festo.com

3/2-way valve



| Type | B1 | B2 | B3 | D1 ∅ | D2 | D3 | D4 ∅ | L1 | L2 | L3 | L4 Min. |
|-------------------|----|----|----|---------|---------|------|---------|------|----|----|------------|
| VMEF-RT-M32-M-N18 | 20 | 8 | 10 | 17 | 1/8 NPT | 16.5 | 4.4 | 68.5 | 28 | 6 | 40 |
| VMEF-RT-M32-M-N14 | | | | | 1/4 NPT | | | | | | |

| Type | H1 | H2 | H3 | H4 | H5 | H7 | H8 | H9 | H10 | H11 | H13 | W1 |
|-------------------|------|----|------|----|------|----|----|----|-----|-----|------|-----|
| VMEF-RT-M32-M-N18 | 91.9 | 55 | 43.3 | 15 | 46.5 | 37 | 6 | 6 | 10 | 29 | 27.5 | 30° |
| VMEF-RT-M32-M-N14 | | | | | | | | | | | | |



Note

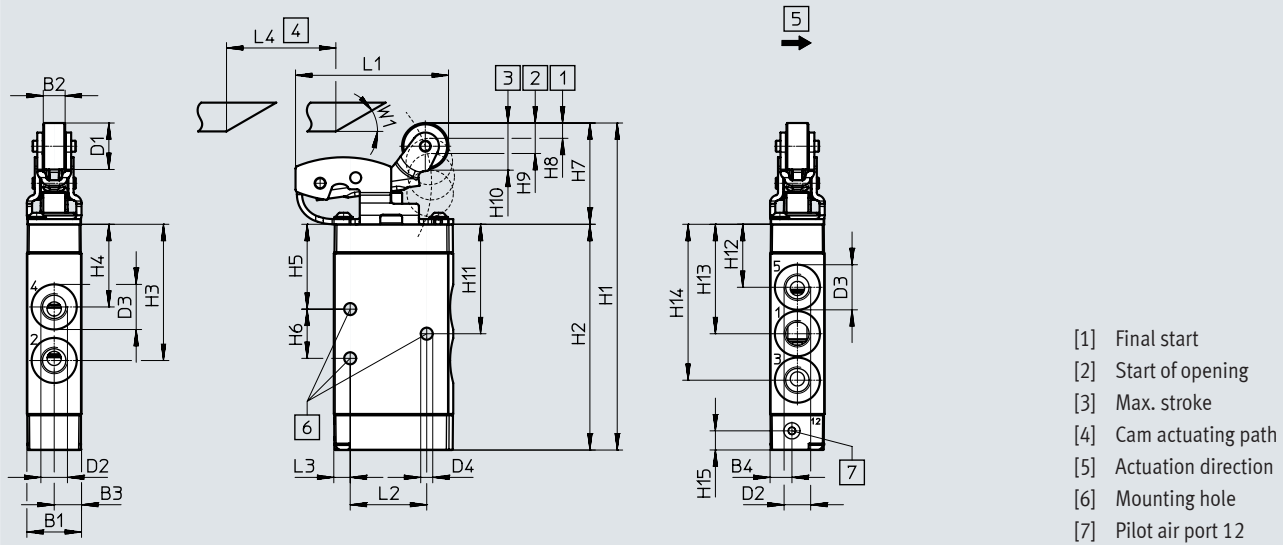
Roller lever valves can be actuated by a cam from either side, i.e. from the left (forward movement) or from the right (backward movement).

Datasheet – Roller lever valve

Dimensions

Download CAD data → www.festo.com

5/2-way valve



- [1] Final start
- [2] Start of opening
- [3] Max. stroke
- [4] Cam actuating path
- [5] Actuation direction
- [6] Mounting hole
- [7] Pilot air port 12

| Type | B1 | B2 | B3 | B4 | D1 ∅ | D2 | D3 | D4 | L1 | L2 | L3 | L4 Min. | H1 | H2 |
|-------------------|----|----|----|----|---------|---------|------|-----|----|----|----|------------|-------|------|
| VMEF-R-M52-...N18 | 20 | 8 | 10 | 8 | 17 | 1/8 NPT | 16.5 | 4.4 | 56 | 28 | 6 | 40 | 119.6 | 82.6 |
| VMEF-R-M52-...N14 | | | | | | 1/4 NPT | 22 | | | | | | 136.1 | 99.1 |

| Type | H3 | H4 | H5 | H6 | H7 | H8 | H9 | H10 | H11 | H12 | H13 | H14 | H15 | W1 |
|-------------------|------|------|------|------|----|----|----|-----|------|------|------|------|-----|-----|
| VMEF-R-M52-...N18 | 49.9 | 30.3 | 31.1 | 18 | 37 | 5 | 7 | 11 | 40.1 | 23.1 | 40.1 | 57.1 | 7 | 30° |
| VMEF-R-M52-...N14 | 62.1 | 34.5 | 36.2 | 24.3 | | | | | 48.3 | 25.9 | 48.3 | 70.8 | | |

If required, actuator attachments VAOM-R4-20-... can be used as spare parts for existing directly actuated roller lever valves. → Page 25

The valve can be moved in the actuation direction with the mounting kit VAME-R4-20-PA. This enables the correct switching point to be set. → Page 29




Note

When screwing the actuator attachment VAOM-R4-20-... onto the valve, ensure that the prescribed torque of 1.5 Nm ± 10% is observed.

Ordering data

| Type of control | Reset | Flow rate [l/min] | Weight [g] | Part no. | Type |
|-----------------------|------------|----------------------|---------------|----------------|--------------------------|
| 3/2-way valves | | | | | |
| Direct | Mechanical | 750 | 209 | 8047098 | VMEF-RT-M32-M-N18 |
| | Mechanical | 870 | 204 | 8047101 | VMEF-RT-M32-M-N14 |
| 5/2-way valves | | | | | |
| Direct | Pneumatic | 750 | 240 | 8047096 | VMEF-R-M52-E-N18 |
| | Mechanical | 750 | 240 | 8047097 | VMEF-R-M52-M-N18 |
| | Pneumatic | 1200 | 272 | 8047099 | VMEF-R-M52-E-N14 |
| | Mechanical | 1200 | 272 | 8047100 | VMEF-R-M52-M-N14 |

Datasheet – Roller lever valve

-  Flow rate
750 ... 1200 l/min
-  Pressure
-0.095 ... 1 MPa
-0.95 ... 10 bar
-  Temperature range
-10 ... +60°C

**General technical data**

| | |
|---|-------------------------------|
| Design | Roller lever with idle return |
| Width [mm] | 20 |
| Type of control | Directly actuated |
| Application information | Risk of pinching |
| Actuation type | Mechanical |
| Mounting | Via through-hole |
| Sealing principle | Soft |
| Flow direction | Reversible |
| Mounting position | Any |
| Max. switching frequency [Hz] | 3 |
| Max. actuating speed for side actuation [m/s] | 0.7 |
| Cam angle in angular degrees | 30 |

Technical data – Poppet valve

| Type | VMEF-KT-M32-...18 | VMEF-KT-M32-...14 |
|--|---------------------------|-------------------|
| Design | Poppet valve | |
| Standard nominal flow rate 1 → 2 [l/min] | 750 | 870 |
| Valve function | 3/2-way valve, monostable | |
| Overlap | Zero overlap | |
| Reset method | Mechanical spring | |
| Pneumatic connection 1, 2, 3 | 1/8 NPT | 1/4 NPT |
| Nominal width [mm] | 5.6 | 6 |
| Max. stroke limit (hard) [mm] | 11 | |
| Actuating force [N] | 32.7 | |

Technical data – Piston spool valve

| Type | VMEF-K-M52-M-...18 | VMEF-K-M52-M-...14 |
|--|---------------------------|--------------------|
| Design | Piston spool valve | |
| Standard nominal flow rate 1 → 2 [l/min] | 750 | 1200 |
| Valve function | 5/2-way valve, monostable | |
| Overlap | Positive overlap | |
| Reset method | Mechanical spring | |
| Pneumatic connection 1, 2, 3 | 1/8 NPT | 1/4 NPT |
| Nominal width [mm] | 5.2 | 7 |
| Max. stroke limit (hard) [mm] | 11.8 | |
| Actuating force [N] | 23.5 | |

Datasheet – Roller lever valve

| Materials | |
|---------------------|----------------------------------|
| Housing | Anodised wrought aluminium alloy |
| Cover | Reinforced PA (VMEF...-M52-) |
| Actuator attachment | Galvanised steel |
| Seal | NBR |
| Note on materials | RoHS-compliant |
| PWIS conformity | VDMA24364-B1/B2-L |

| Operating and environmental conditions | |
|--|--|
| Operating medium | Compressed air to ISO 8573-1:2010 [7:-:-] |
| Note on the operating/pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) |
| Operating pressure | [MPa] -0.095 ... 1 |
| | [bar] -0.95 ... 10 |
| Temperature of medium | [°C] -10 ... +60 |
| Ambient temperature | [°C] -10 ... +60 |
| Note on ambient temperature | Influence of heat on wear |
| Corrosion resistance class CRC ¹⁾ | 1 |

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

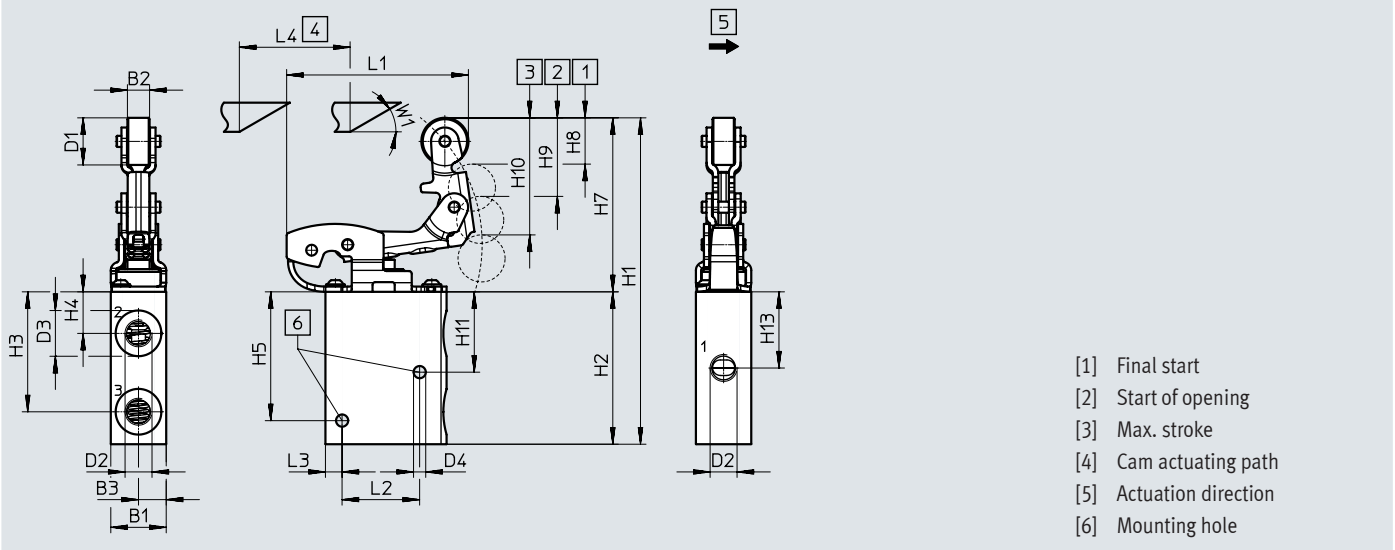
Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts which are covered in the application (e.g. drive trunnions).

Datasheet – Roller lever valve

Dimensions


Download CAD data → www.festo.com

3/2-way valve



| Type | B1 | B2 | B3 | D1 ∅ | D2 | D3 | D4 ∅ | L1 | L2 | L3 | L4 Min. |
|-------------------|----|----|----|---------|---------|------|---------|------|----|----|------------|
| VMEF-KT-M32-M-N18 | 20 | 8 | 10 | 17 | 1/8 NPT | 16.5 | 4.4 | 65.6 | 28 | 6 | 40 |
| VMEF-KT-M32-M-N14 | | | | | 1/4 NPT | 22 | | | | | |

| Type | H1 | H2 | H3 | H4 | H5 | H7 | H8 | H9 | H10 | H11 | H13 | W1 |
|-------------------|-------|----|------|----|------|----|----|----|-----|-----|------|-----|
| VMEF-KT-M32-M-N18 | 117.2 | 55 | 43.3 | 15 | 46.5 | 62 | 6 | 6 | 10 | 29 | 27.5 | 30° |
| VMEF-KT-M32-M-N14 | | | | | | | | | | | | |

 **Note**

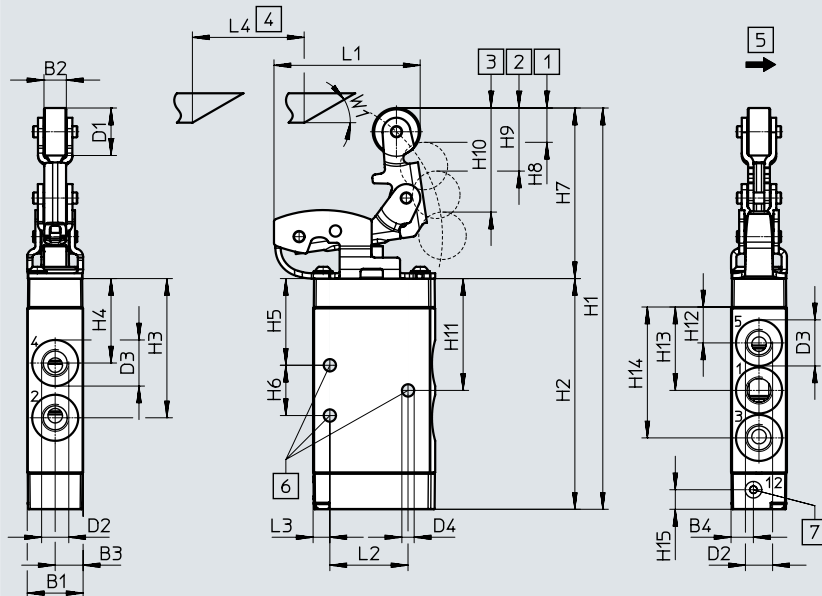
Roller lever valves with idle return can only be actuated by a cam from one side, i.e. only in one direction (forward movement). If the actuation is applied from the other direction (backward movement), the valve is not actuated.

Datasheet – Roller lever valve

Dimensions

Download CAD data → www.festo.com

5/2-way valve



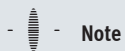
- [1] Final start
- [2] Start of opening
- [3] Max. stroke
- [4] Cam actuating path
- [5] Actuation direction
- [6] Mounting hole
- [7] Pilot air port 12

| Type | B1 | B2 | B3 | B4 | D1 | D2 | D3 | D4 | L1 | L2 | L3 | L4 | H1 | H2 |
|-------------------|----|----|----|----|----|---------|------|-----|------|----|----|----|-------|------|
| VMEF-K-M52-...N18 | 20 | 8 | 10 | 8 | 17 | 1/8 NPT | 16.5 | 4.4 | 52.4 | 28 | 6 | 40 | 143.5 | 82.6 |
| VMEF-K-M52-...N14 | | | | | | 1/4 NPT | 22 | | | | | | 160 | 99.1 |

| Type | H3 | H4 | H5 | H6 | H7 | H8 | H9 | H10 | H11 | H12 | H13 | H14 | H15 | W1 |
|-------------------|------|------|------|------|----|----|----|-----|------|------|------|------|-----|-----|
| VMEF-K-M52-...N18 | 49.9 | 30.3 | 31.1 | 18 | 61 | 5 | 7 | 11 | 40.1 | 23.1 | 40.1 | 57.1 | 7 | 30° |
| VMEF-K-M52-...N14 | 62.1 | 34.5 | 36.2 | 24.3 | | | | | 48.3 | 25.9 | 48.3 | 70.8 | | |

If required, actuator attachments VAOM-R4-20-... can be used as spare parts for existing directly actuated roller lever valves. → Page 25

The valve can be moved in the actuation direction with the mounting kit VAME-R4-20-PA. This enables the correct switching point to be set. → Page 29



Note

When screwing the actuator attachment VAOM-R4-20-... onto the valve, ensure that the prescribed torque of 1.5 Nm ± 10% is observed.

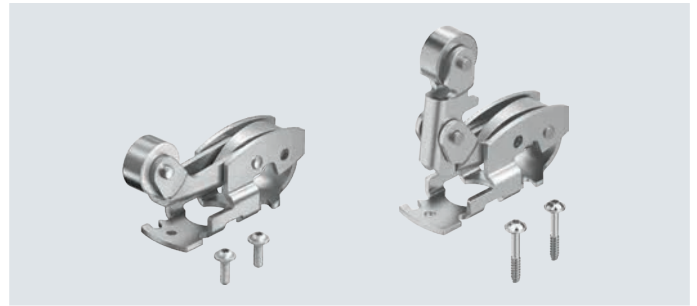
Ordering data

| Type of control | Reset | Flow rate [l/min] | Weight [g] | Part no. | Type |
|-----------------------|------------|-------------------|------------|----------|-------------------|
| 3/2-way valves | | | | | |
| Direct | Mechanical | 750 | 227 | 8047105 | VMEF-KT-M32-M-N18 |
| | | 870 | 218 | 8047107 | VMEF-KT-M32-M-N14 |
| 5/2-way valves | | | | | |
| Direct | Mechanical | 750 | 255 | 8047104 | VMEF-K-M52-M-N18 |
| | | 1200 | 286 | 8047106 | VMEF-K-M52-M-N14 |

Datasheet – Actuator attachments

Actuator attachments as replacement or extension option for stem actuated valves:

- Roller lever
- Roller lever with idle return



| General technical data | | VAOM-R4-20-D1-... | VAOM-R4-20-D2-... |
|--|------|---|-------------------------------|
| Type | | Roller lever | Roller lever with idle return |
| Design | | Roller lever | Roller lever with idle return |
| Width | [mm] | 20 | |
| Type of control | | Directly actuated | |
| Actuation | | Mechanical | |
| Mounting position | | Screwed onto valve, in the movement plane | |
| Mounting | | Screwed with self-tapping screws | |
| Ambient temperature | [°C] | -10 ... +60 | |
| Materials | | | |
| Actuator attachment | | Galvanised steel | |
| Note on materials | | RoHS-compliant | |
| Corrosion resistance class CRC ¹⁾ | | 1 | |

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts which are covered in the application (e.g. drive trunnions).

Actuator attachments for valves

Stem actuated valves from the series VMEF can be retrofitted with the actuator attachments VAOM.

If an actuator attachment VAOM is screwed onto the corresponding stem actuated valve of the VMEF series, it converts it to a roller lever valve or roller lever valve with idle return.

- Roller lever valves can be actuated by a cam from either side, i.e. from the left (forward movement) or from the right (backward movement).
- Roller lever valves with idle return can only be actuated by a cam from one side, i.e. only in one direction (forward movement). If the actuation is applied from the other direction (backward movement), the valve is not actuated.

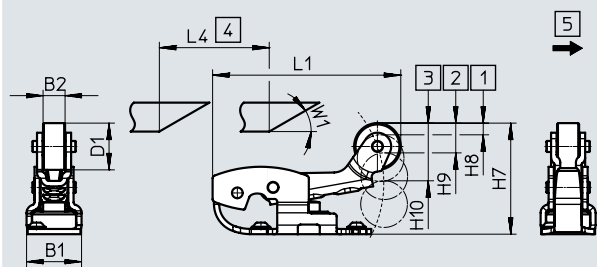
The actuator attachments VAOM can also be used to replace mechanically worn attachments for roller lever valves or roller lever valves with idle return.

Datasheet – Actuator attachments

Dimensions

Download CAD data → www.festo.com

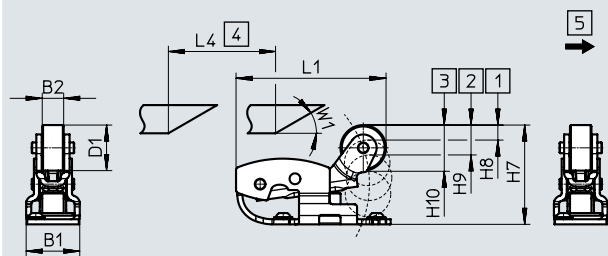
Roller lever for 3/2-way valves



- [1] Start of opening
- [2] Max. opening
- [3] Max. stroke
- [4] Cam actuating path
- [5] Actuation direction

| Type | B1 | B2 | D1 ∅ | L1 | L4 Min. | H7 ±0.1 | H8 ±0.1 | H9 ±0.1 | H10 ±0.1 | W1 |
|------------------|----|----|---------|------|------------|------------|------------|------------|-------------|-----|
| VAOM-R4-20-D1-32 | 20 | 8 | 17 | 68.5 | 40 | 36.9 | 2.9 | 2.9 | 6.3 | 30° |

Roller lever for 5/2-way valves



- [1] Start of opening
- [2] Max. opening
- [3] Max. stroke
- [4] Cam actuating path
- [5] Actuation direction

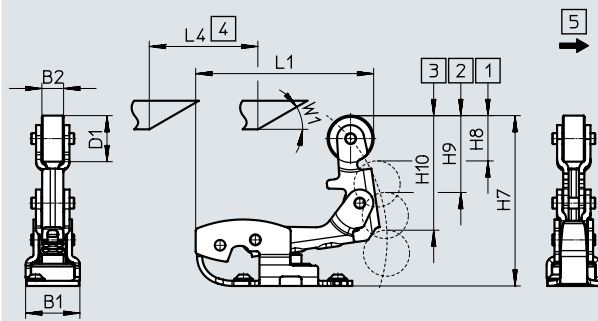
| Type | B1 | B2 | D1 ∅ | L1 | L4 Min. | H7 ±0.2 | H8 ±0.3 | H9 ±0.2 | H10 ±0.1 | W1 |
|------------------|----|----|---------|----|------------|------------|------------|------------|-------------|-----|
| VAOM-R4-20-D1-52 | 20 | 8 | 17 | 56 | 40 | 37 | 7.3 | 7.6 | 11.6 | 30° |

Datasheet – Actuator attachments

Dimensions

Download CAD data → www.festo.com

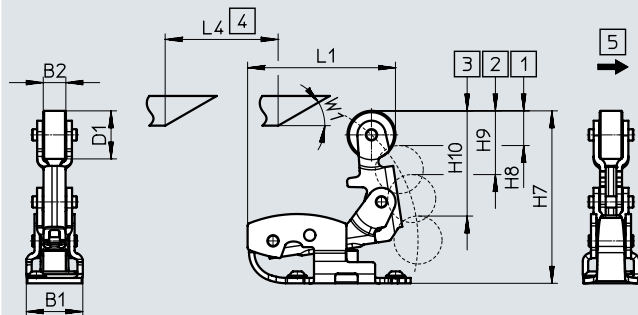
Roller lever with idle return for 3/2-way valves



- [1] Start of opening
- [2] Max. opening
- [3] Max. stroke
- [4] Cam actuating path
- [5] Actuation direction


| Type | B1 | B2 | D1 Ø | L1 | L4 Min. | H7 ±0.2 | H8 ±0.2 | H9 ±0.2 | H10 ±0.1 | W1 |
|------------------|----|----|---------|------|------------|------------|------------|------------|-------------|-----|
| VAOM-R4-20-D2-32 | 20 | 8 | 17 | 65.6 | 40 | 62.2 | 5.9 | 5.8 | 11.1 | 30° |

Roller lever with idle return for 5/2-way valves



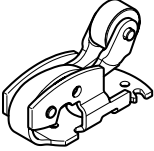
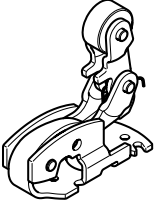
- [1] Start of opening
- [2] Max. opening
- [3] Max. stroke
- [4] Cam actuating path
- [5] Actuation direction

| Type | B1 | B2 | D1 Ø | L1 | L4 Min. | H7 ±0.1 | H8 ±0.3 | H9 ±0.3 | H10 ±0.1 | W1 |
|------------------|----|----|---------|------|------------|------------|------------|------------|-------------|-----|
| VAOM-R4-20-D2-52 | 20 | 8 | 17 | 52.4 | 40 | 60.9 | 7.4 | 7.7 | 11.8 | 30° |

 Note


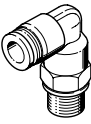
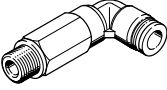

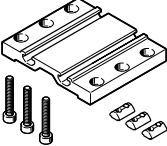
- When screwing the actuator attachment VAOM-R4-20-... onto the valve, ensure that the prescribed torque of 1.5 Nm ± 10% is observed.
- An actuator attachment VAOM-R4-20-... can only be mounted on a basic valve three times.

Datasheet – Actuator attachments

| Ordering data | Description | Part no. | Type | PJ ¹⁾ |
|--|---|----------|------------------|------------------|
| Roller lever | | | | |
|  | For 3/2-way valves, with retaining screws | 8049235 | VAOM-R4-20-D1-32 | 1 |
| | For 5/2-way valves, with retaining screws | 8049233 | VAOM-R4-20-D1-52 | 1 |
| Roller lever with idle return | | | | |
|  | For 3/2-way valves, with retaining screws | 8049237 | VAOM-R4-20-D2-32 | 1 |
| | For 5/2-way valves, with retaining screws | 8049236 | VAOM-R4-20-D2-52 | 1 |

1) Packaging unit

Accessories

| Ordering data | Description | Part no. | Type | PU ¹⁾ | | |
|---|---|---|---------------------|----------------------|-------------------------------|-----------|
| Push-in fitting, straight | | | | | | |
|  | With internal hex | Connecting thread 10-32 UNF for tubing O.D. | 5/32" | 572312 | QBM-10-32-UNF-5/32-I-U | 10 |
| | | Connecting thread 1/8 NPT for tubing O.D. | 5/32" | 572317 | QB-1/8-5/32-I-U | 10 |
| | | | 1/4" | 572318 | QB-1/8-1/4-I-U | 10 |
| | | | 5/16" | 572319 | QB-1/8-5/16-I-U | 10 |
| | | Connecting thread 1/4 NPT for tubing O.D. | 5/16" | 572321 | QB-1/4-5/16-I-U | 10 |
| | | | 3/8" | 572322 | QB-1/4-3/8-I-U | 10 |
| 1/2" | 567771 | | QB-1/4-1/2-U | 10 | | |
| Push-in fitting, angled | | | | | | |
|  | With external hex | Connecting thread 1/8 NPT for tubing O.D. | 5/32" | 533290 | QBL-1/8-5/32-U | 10 |
| | | | 1/4" | 533292 | QBL-1/8-1/4-U | 10 |
| | | | 5/16" | 533293 | QBL-1/8-5/16-U | 10 |
| | | Connecting thread 1/4 NPT for tubing O.D. | 5/16" | 533296 | QBL-1/4-5/16-U | 10 |
| | | | 3/8" | 533297 | QBL-1/4-3/8-U | 5 |
| | | | 1/2" | 567775 | QBL-1/4-1/2-U | 5 |
| Push-in fitting, angled, long | | | | | | |
|  | With external hex | Connecting thread 1/8 NPT for tubing O.D. | 5/32" | 564668 | QBLL-1/8-5/32-U | 10 |
| | | | 1/4" | 564670 | QBLL-1/8-1/4-U | 10 |
| | | | 5/16" | 564671 | QBLL-1/8-5/16-U | 10 |
| Silencers | | | | | | |
|  | Metal | With connecting thread | 1/8 NPT | 12638 | U-1/8-B-NPT | 1 |
| | | | 1/4 NPT | 12639 | U-1/4-B-NPT | 1 |
| Mounting kit for switching point adjustment | | | | | | |
|  | Mounting kit for valves VMEF comprising: | | 8060046 | VAME-R4-20-PA | 1 | |
| | <ul style="list-style-type: none"> • 1x mounting plate 60 x 70 mm • 3x socket head screws to ISO 4762 M4x25 8.8 • 3x slot nuts | | | | | |

1) Packaging unit

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