FESTO



Characteristics











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
- · Low 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
- Pressure range from vacuum to 10 bar possible
- Version:
 - Stem actuated valve
 - Roller lever valve
 - Roller lever valve with idle return

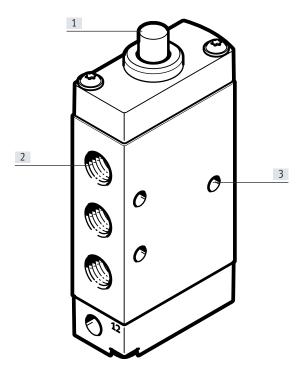
Reliable

- Durable thanks to tried-and-tested piston spool and disc seat valves
- Sturdy thanks to metal housing and connecting thread or connectors

Easy to install

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

Characteristics



- [1] Stem as actuator
- [2] Practical connection: via threaded connection or connectors
- [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

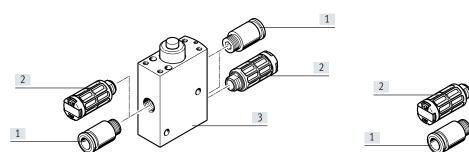
- Pneumatic spring/mechanical spring
- Vacuum operation possible
- Reversible in some cases
- Pneumatically piloted
- Ducted exhaust air

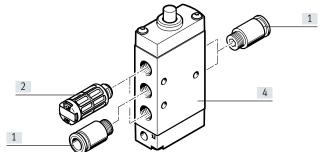
Peripherals overview

Valves, mechanically actuated

Stem actuated valve, 3/2-way valve

Stem actuated valve, 5/2-way valve

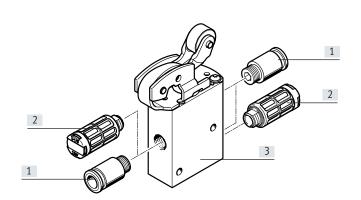


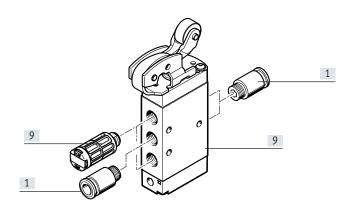


		Brief description	→ Page/Internet
[1]	Fitting	For supply air/exhaust ports (1, 3, 5) and working ports (2, 4)	29
[2]	Silencer	For exhaust ports (3, 5)	29
[3]	3/2-way valve	Stem actuated valve	9
[4]	5/2-way valve	Stem actuated valve	9

Roller lever valve, 3/2-way valve

Roller lever valve, 5/2-way valve





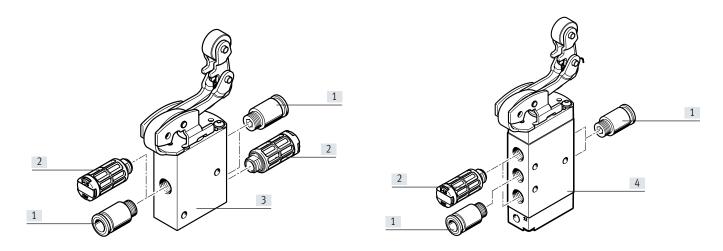
		Brief description	→ Page/Internet
[1]	Fitting	For supply air/exhaust ports (1, 3, 5) and working ports (2, 4)	29
[2]	Silencer	For exhaust ports (3, 5)	29
[3]	3/2-way valve	Stem actuated valve with roller lever attachment	17
[4]	5/2-way valve	Stem actuated valve with roller lever attachment	17

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]	Fitting	For supply air/exhaust ports (1, 3, 5) and working ports (2, 4)	29
[2]	Silencer	For exhaust ports (3, 5)	29
[3]	3/2-way valve	Stem actuated valve with roller lever attachment	21
[4]	5/2-way valve	Stem actuated valve with roller lever attachment	21

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

Valve functions	Time	Description
Circuit symbol	Туре	Description
Stem actuated valve 12 11 11 13	VMEF-ST-M32-M	3/2-way valve, monostable • Normally closed (1 → 2) • Normally open (3 → 2) • Mechanical spring return • Suitable for vacuum • Reversible
12 11 3	VMEF-STC-M32-M	3/2-way valve, monostable • Normally closed (1 → 2) • Normally open (3 → 2) • Mechanical spring return • Pneumatically piloted, internal pilot air • Reversible
12 12 11 13	VMEF-STCZ-M32-M	3/2-way valve, monostable • Normally closed (1 → 2) • Normally open (3 → 2) • Mechanical spring return • Pneumatically piloted, external pilot air • Reversible
14 2 1 3 12	VMEF-S-M52-E	5/2-way valve, monostable Reset via (external) pneumatic spring Suitable for vacuum Reversible
14 2 5 1 3	VMEF-S-M52-M	5/2-way valve, monostable • Mechanical spring return • Suitable for vacuum • Reversible
14 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VMEF-SCZ-M52-E	5/2-way valve, monostable Pneumatically piloted, external pilot air Pneumatic spring return Suitable for vacuum Reversible
14 2 T T T T T T T T T T T T T T T T T T	VMEF-SCZ-M52-M	5/2-way valve, monostable Pneumatically piloted, external pilot air Mechanical spring return Suitable for vacuum Reversible
14 2 5 1 3	VMEF-SC-M52-M	5/2-way valve, monostable Pneumatically piloted, internal pilot air Mechanical spring return

Characteristics – Pneumatic components

Valve functions		
Circuit symbol	Туре	Description
Roller lever valve		
12 2	VMEF-RT-M32-M	3/2-way valve, monostable • Normally closed (1> 2) • Normally open (3> 2) • Mechanical spring return • Directly actuated • Suitable for vacuum • Reversible
14 2 T T T T T T T T T T T T T T T T T T	VMEF-R-M52-M	5/2-way valve, monostable • Mechanical spring return • Directly actuated • Suitable for vacuum • Reversible
14 2 5 1 3 12	VMEF-R-M52-E	5/2-way valve, monostable Reset via (external) pneumatic spring Directly actuated Suitable for vacuum Reversible
Roller lever valve with idle return		
12 2	VMEF-KT-M32-M	3/2-way valve, monostable • Normally closed (1 → 2) • Normally open (3 → 2) • Mechanical spring return • Directly actuated • Suitable for vacuum • Reversible
9 14 T T T T T T T T T T T T T T T T T T	VMEF-K-M52-M	5/2-way valve, monostable • Mechanical spring return • Directly actuated • Suitable for vacuum • Reversible

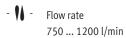


A filter must be installed upstream of valves operated in vacuum mode. This prevents any foreign matter in the intake air getting into the valve (e.g. when operating a suction cup with connector).

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
Т	Poppet valve
004	Type of control
	Directly actuated
С	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	
007 E	Reset method for monostable/single solenoid valves Pneumatic spring, external	
E	Pneumatic spring, external	
E M	Pneumatic spring, external Mechanical spring	
E M	Pneumatic spring, external Mechanical spring Pneumatic connection	
E M 008 G18	Pneumatic spring, external Mechanical spring Pneumatic connection G1/8	



- **-** Pressure

−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		
Note regarding use		Do not use as mechanical stop		
Actuation type		Mechanical		
Mounting		With through-hole		
Sealing principle		Soft		
Flow direction		Reversible		
Mounting position		Any		
Max. switching frequency	[Hz]	3		

Technical data – Disc seat valve							
Туре			VMEF-ST-M32 18	VMEF-STCM32 18	VMEF-ST-M32 14	VMEF-STCM32 14	
Version			Disc seat 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	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 12/14			-	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	

Technical data – Piston spool valve						
Туре			VMEF-S-M52-E 18	VMEF-S-M52-M 18	VMEF-S-M52-E 14	VMEF-S-M52-M 14
Version			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 port 1, 2, 3, 4, 5			1/8 NPT	1/8 NPT	1/4 NPT	1/4 NPT
Pilot air port 12/14			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					
Туре	VMEF-SCZ-M52-E 18	VMEF-SM52-M 18	VMEF-SCZ-M52-E 14	VMEF-SM52-M 14	
Version	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 port 1, 2, 3, 4, 5	1/8 NPT	1/8 NPT	1/4 NPT	1/4 NPT	
Pilot air port 12/14	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-STCM32-, VMEFM52-)		
Seal	NBR		
Note on materials	RoHS-compliant		

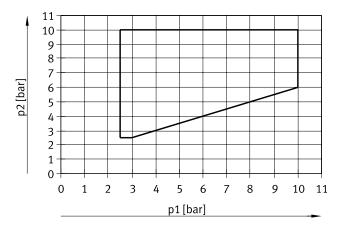
Operating and environmental condition	ons						
Туре		VMEF-ST-M32- VMEF-STCZ-M3		VMEF-STC-M3	32	VMEF-S-M52 VMEF-SCZ-M52	VMEF-SC-M52
Operating medium		Compressed a	ir to ISO 8573-1	:2010 [7:-:-]			
Note on operating/pilot medium		Lubricated op	eration possible	(in which case	lubricated operat	ion will always be required)	
Operating pressure range	[bar]	-0.95 10		2.5 10		-0.95 10	2.5 10
With internal or external pilot air		Internal	External	Internal	External	-	-
NC valves	[bar]	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	-	-
Operating pressure range	[psi]	-14 145		36 145		36 145	-14 145
With internal or external pilot air	[psi]	Internal	External	Internal	External	-	-
NC valves		51 145	44 145	44 145	36 145		
NO valves	[psi]	51 145	44 145	51 145	36 145	-	-
Pilot pressure range	[bar]	-		-		2.5 10	2.5 10
Temperature of medium	[°C]	-10 +60					
Ambient temperature	[°C]	-10 +60					
Corrosion resistance CRC ¹⁾		2	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.

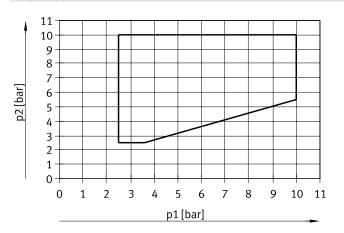
Pilot pressure p2 as a function of external pneumatic spring pressure p1

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

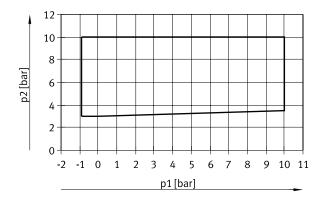


The framed area shows the operating area for internal and external pilot air.

Pilot pressure p2 as a function of supply pressure p1

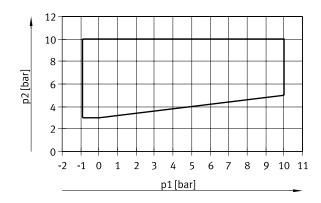
For disc seat valves VMEF-...-M32...

(normally closed)

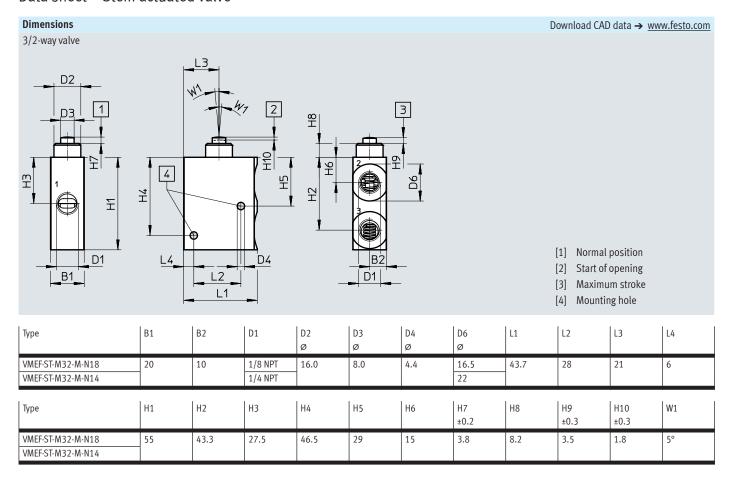


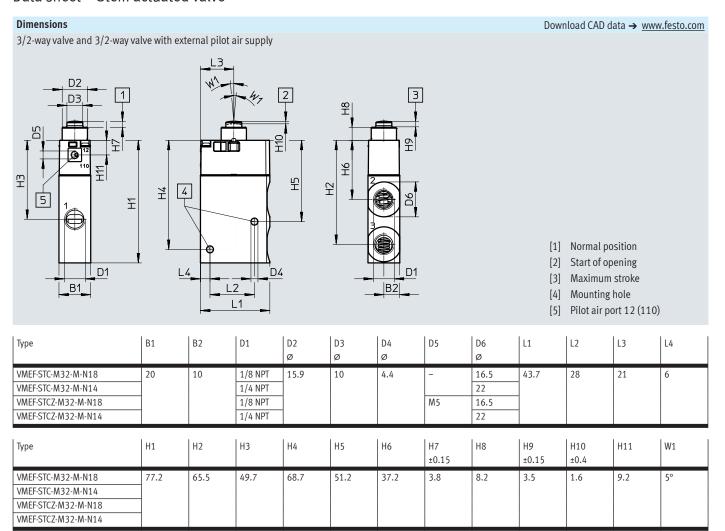
The framed area shows the operating range for external pilot air.

For disc seat valves VMEF-...-M32... (normally open)

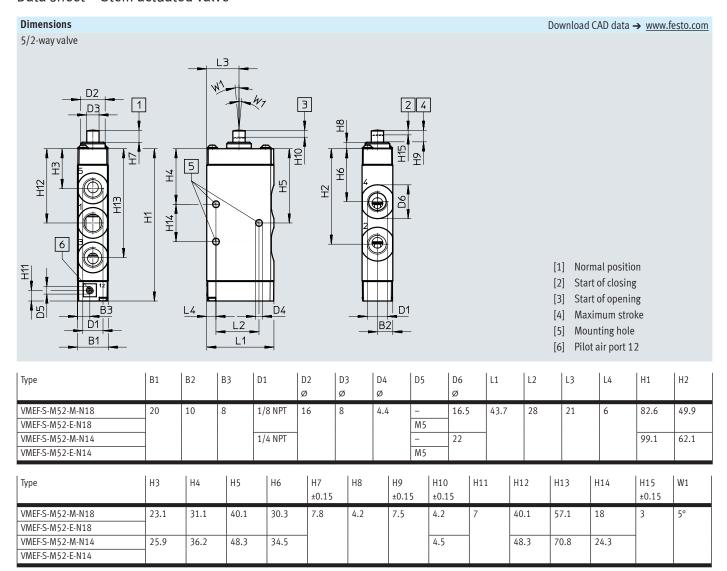


The framed area shows the operating range for external pilot air.





Dimensions Download CAD data → www.festo.com 5/2-way valve and 5/2-way valve with external pilot air supply 2 3 4 7 9 汨 모 H7 Ξ H15__ 6 Normal position [1] Start of opening [2] [3] Maximum stroke D4 L4 D1 Mounting hole [4] D1 | L2 B2 Pilot air port 14 [5] B1_ L1 [6] Pilot air port 12 В1 В2 D5 D6 L1 Туре В3 D1 D2 D3 D4 L2 L3 Ø Ø Ø Ø VMEF-SC-M52-M-N18 20 10 1/8 NPT 10 4.4 16.5 43.7 28 21 M5 VMEF-SCZ-M52-M-N18 1/8 NPT 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 H1 Туре Н2 Н3 H4 Н5 Н6 Н7 Н8 Н9 H10 H11 H12 H13 H14 H15 W1 ±0.15 ±0.15 ±0.4 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 51.6 68.6 18 VMEF-SCZ-M52-M-N18 VMEF-SCZ-M52-E-N18 82.3 VMEF-SC-M52-M-N14 110.6 73.6 37.4 47.7 59.8 59.8 24.3 46 VMEF-SCZ-M52-M-N14 VMEF-SCZ-M52-E-N14



Directly actuated stem actuated valves VMEF-S-... can be extended to form a roller lever or roller lever valve with idle return using the actuator attachment VAOM-R4-20-... Actuator attachments are available for 3/2-way and 5/2-way valves. → page 25

Using the mounting kit VAME-R4-20-PA, the valve can be moved in the actuation direction. This enables the correct switching point to be set. \rightarrow 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.

Data sheet – Stem actuated valve

Ordering data						
Type of control	Pilot air	Reset	Flow rate [l/min]	Weight [g]	Part no.	Туре
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

Data sheet – Roller lever valve

- N - Flow rate

750 ... 1200 l/min



−0.95 ... 10 bar



- Temperature range

−10 ... +60°C



General technical data		
Design		Roller lever
Width	[mm]	20
Type of control		Directly actuated
Note regarding use		Risk of pinching
Actuation type		Mechanical
Mounting		With 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 – Disc seat valve				
Туре		VMEF-RT-M3218	VMEF-RT-M3214	
Version		Disc seat 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					
Туре		VMEF-R-M52-E18	VMEF-R-M52-M18	VMEF-R-M52-E14	VMEF-R-M52-M14
Version		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			

Data sheet – Roller lever valve

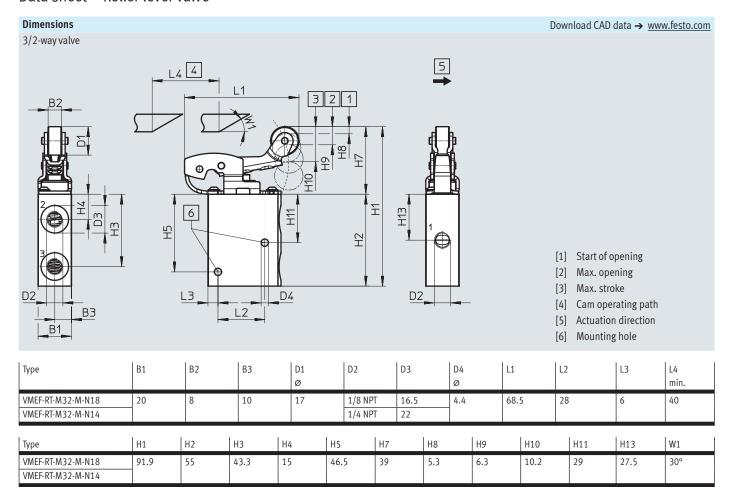
Materials	
Housing	Anodised wrought aluminium alloy
Cover	Reinforced PA (VMEFM52-)
Actuator attachment	Galvanised steel
Seal	NBR
Note on materials	RoHS-compliant

Operating and environmental condition	ns	
Operating medium		Compressed air to ISO 8573-1:2010 [7:-:-]
Note on operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)
Operating pressure range	[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 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 coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

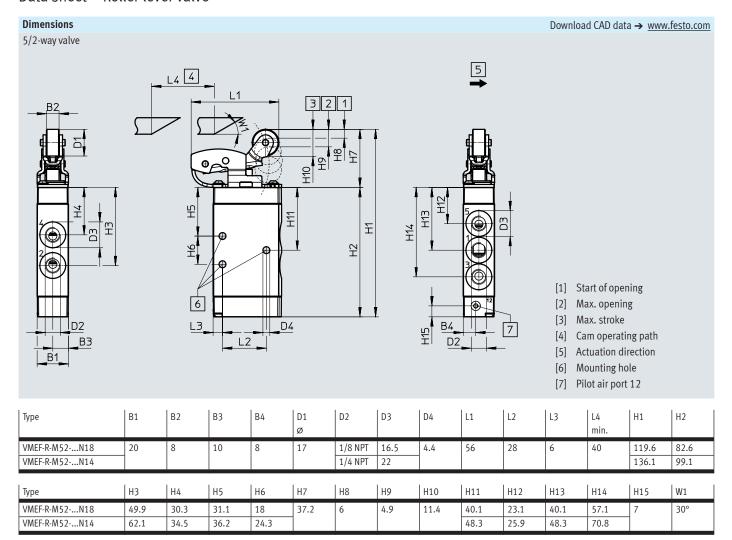
Data sheet - Roller lever valve





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

Data sheet - Roller lever valve



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

Using the mounting kit VAME-R4-20-PA, the valve can be moved in the actuation direction. This enables the correct switching point to be set. \rightarrow page 29



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

Ordering data							
Type of control	Reset	Flow rate [l/min]	Weight [g]	Part no.	Туре		
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	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		

Data sheet – Roller lever valve

- N - Flow rate

750 ... 1200 l/min



- **L** - Pressure

−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
Note regarding use		Risk of pinching
Actuation type		Mechanical
Mounting		With 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 – Disc seat valve	Fechnical data – Disc seat valve				
Туре		VMEF-KT-M3218	VMEF-KT-M3214		
Version		Disc seat 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	Technical data — Piston spool valve				
Туре		VMEF-K-M52-M18	VMEF-K-M52-M14		
Version		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			

Data sheet – Roller lever valve

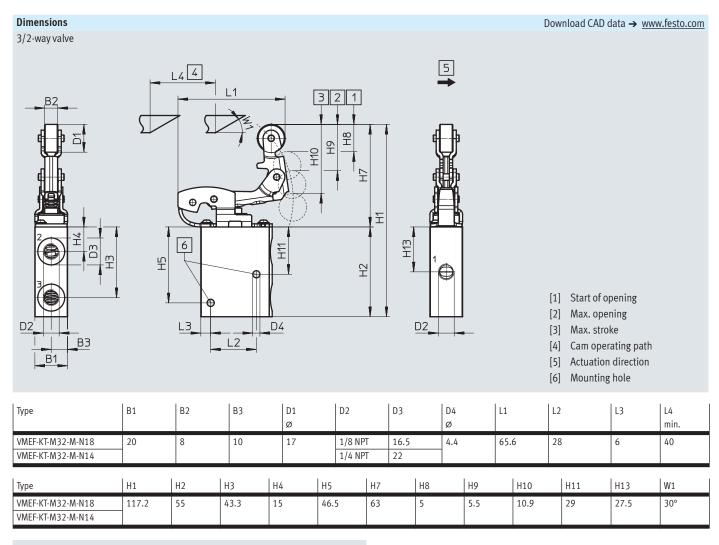
Materials	
Housing	Anodised wrought aluminium alloy
Cover	Reinforced PA (VMEFM52-)
Actuator attachment	Galvanised steel
Seal	NBR
Note on materials	RoHS-compliant

Operating and environmental conditions		
Operating medium		Compressed air to ISO 8573-1:2010 [7:-:-]
Note on operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)
Operating pressure range	[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 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 coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

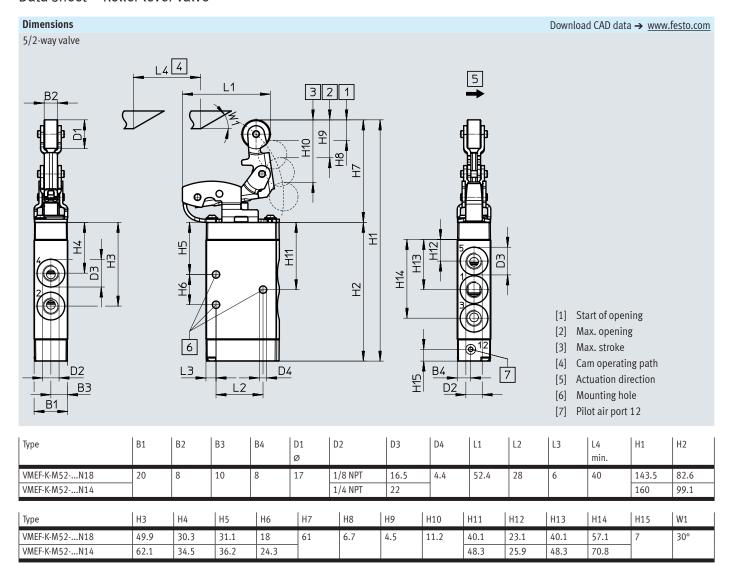
Data sheet - Roller lever valve





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

Data sheet - Roller lever valve



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

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



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

Ordering data Type of control	Reset	Flow rate [I/min]	Weight [g]	Part no.	Туре
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	Mechanical	750	255	8047104	VMEF-K-M52-M-N18
		1200	286	8047106	VMEF-K-M52-M-N14

Data sheet – Actuator attachments

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

- Roller lever
- Roller lever with idle return



General technical data			
Туре		VAOM-R4-20-D1	VAOM-R4-20-D2
Version		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 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 coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Actuator attachments for valves

With the actuator attachments VAOM, it is possible to extend stem actuated valves from the series VMEF.

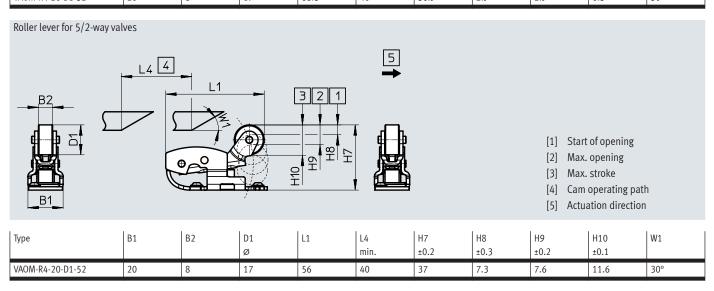
If an actuator attachment VAOM is screwed onto the corresponding stem actuated valve from the series VMEF, it creates a roller lever or roller lever valve with idle return.

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

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

Data sheet – Actuator attachments

Dimensions Download CAD data → www.festo.com Roller lever for 3/2-way valves L4 4 В2 [1] Start of opening Max. opening [3] Max. stroke [4] Cam operating path Actuation direction В1 В2 L4 Н7 Н8 Н9 H10 W1 Туре D1 L1 Ø min. ±0.1 ±0.1 ±0.1 ±0.1 VAOM-R4-20-D1-32 20 8 17 68.5 40 36.9 2.9 2.9 6.3 30°



Data sheet – Actuator attachments

20

Dimensions Download CAD data → www.festo.com Roller lever with idle return for 3/2-way valves L4 4 発 Start of opening [1] Max. opening [2] [3] Max. stroke [4] Cam operating path Actuation direction [5] Туре В1 B2 D1 L1 L4 Н7 Н8 Н9 H10 W1 ±0.2 ±0.2 min ±0.2 ±0.1 Ø

40

62.2

5.9

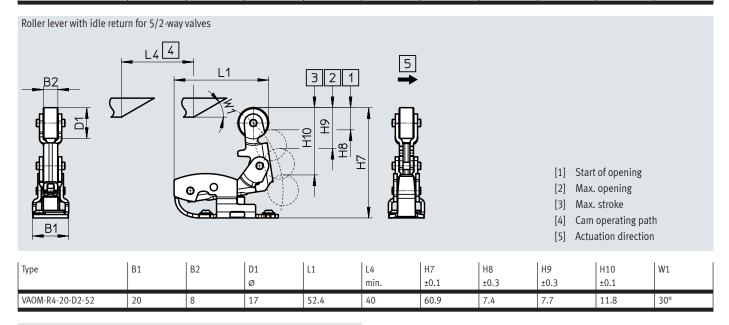
5.8

11.1

30°

65.6

17





VAOM-R4-20-D2-32

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

Data sheet – Actuator attachments

Ordering data				
	Description	Part no.	Туре	PU ¹⁾
Roller lever				
\bigcirc	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 ref			_	
	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.	Туре	PU ¹⁾
ush-in fitting, straig			:		1.76-	
<u> </u>	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 0.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
ush-in fitting, angle	nd .					
usii-iii iittiiig, aiigte	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
		connecting timeda 1 4 M Flor tability o.b.	3/8"	533297	QBL-1/4-3/8-U	5
			1/2"	567775	QBL-1/4-1/2-U	5
			1-7-	301113	Q52 1/4 1/2 0	
ush-in fitting, angle	ed, 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	
ilencer		Turn a u	1./2.1157			
	Metal version	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 swit	ching point adjustment					
1		nting kit set for valves VMEF comprising:			VAME-R4-20-PA	
	1x mounting plate 60 x 70 mm					
	<u> </u>	3x socket head screws to ISO 4762 M4x25 8.8				
	3x slot nuts					
• 3X STOU HULLS		ł				

¹⁾ Packaging unit

Festo - Your Partner in Automation





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