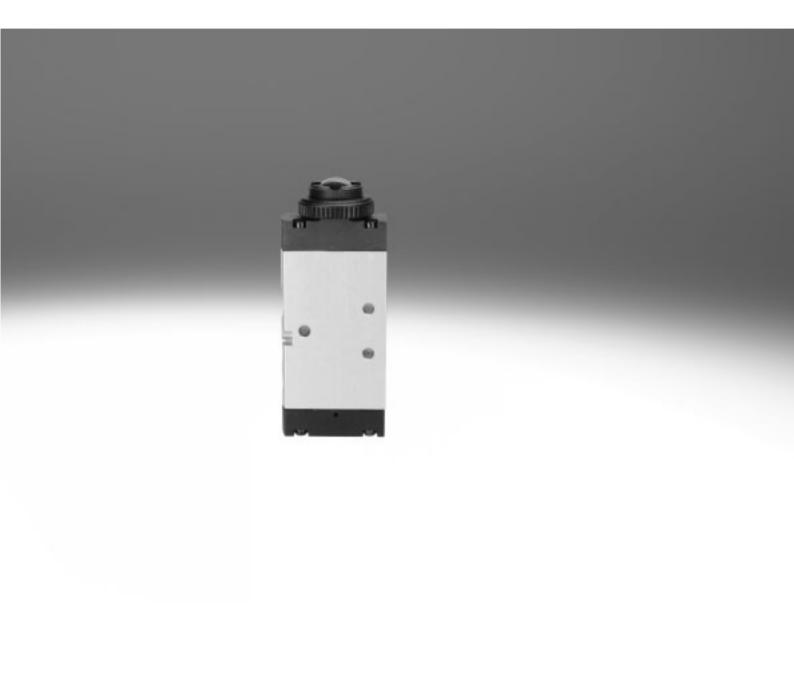
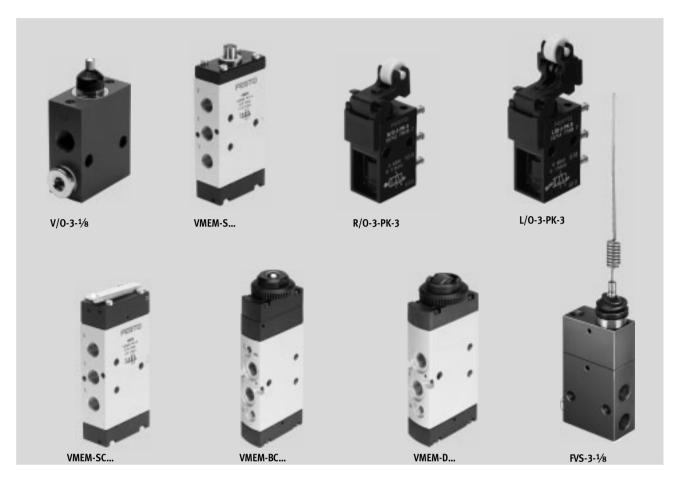
Valves, mechanically actuated

FESTO



Key features



Innovative

- Small and compact for a wide range of pneumatic applications
- Large selection of valve functions;
 3/2-way, 4/2-way and 5/2-way functions
- With flow rates of up to 1,000 l/min, valves VMEM offer outstanding pneumatic performance for a great variety 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
 - Swivel lever valve
 - Roller lever valve, toggle lever valve
 - Whisker valve
 - Roller actuated valve
 - Ball actuated valve

Reliable

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

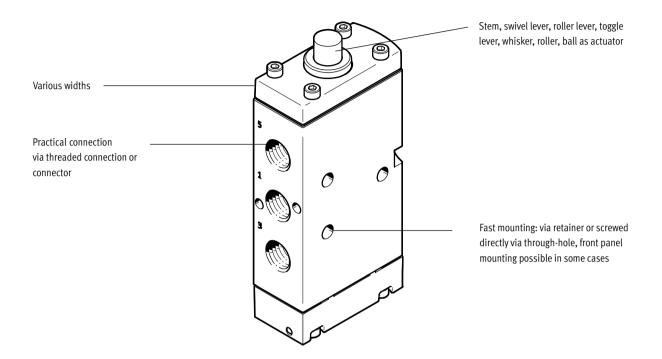
Easy to mount

• Front panel mounting or mounting on bracket

Valves, mechanically actuated

Key features





Equipment options

3/2-way valve, monostable

- Normally open/closed
- Mechanical spring
- Vacuum operation possible
- Directly actuated and pneumatically piloted
- Ducted exhaust air

4/2-way valve, monostable

- Mechanical spring
- Pneumatically piloted
- Ducted exhaust air

5/2-way valve, monostable

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

Valve selection

You order mechanically and manually operated valves using the order code:

Ordering system for valves

→ Internet: mechanically and manually operated directional control valves

→ Internet: www.festo.com

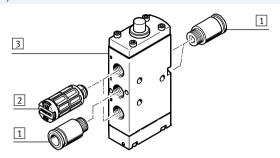
Valves, mechanically actuated Peripherals overview

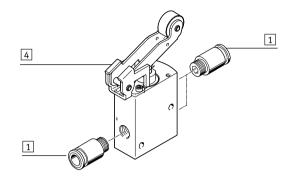
FESTO

Valves, mechanically actuated

5/2-way stem actuated valve VMEM-S



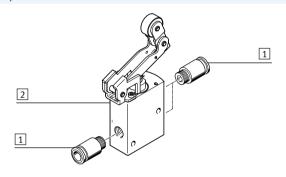


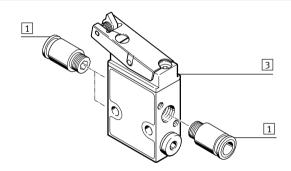


	Brief description	→ Page/Internet
1 Fitting	For supply air/exhaust ports (1, 3, 5) and working ports (2, 4)	47
2 Silencer	For exhaust ports (3, 5)	47
3 Stem actuated valve	VMEM-S	25
4 Roller lever valve	R	32

3/2-way roller lever valve with idle return L

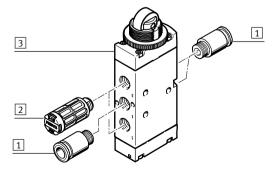
3/2-way toggle lever valve LS





	Brief description	→ Page/Internet
1 Fitting	For supply air/exhaust ports (1, 3, 5) and working ports (2, 4)	47
2 Roller lever valve with idle return	L	32
3 Toggle lever valve	LS	32

5/2-way roller actuated valve VMEM-D



	Brief description	→ Page/Internet
1 Fitting	For supply air/exhaust ports (1, 3, 5) and working ports (2, 4)	47
2 Silencer	For exhaust ports (3, 5)	47
3 Roller actuated valve	VMEM-D	40

Valves, mechanically actuated

Key features – Pneumatic components



Mechanically actuated valves

Mechanically actuated valves are often used as "signal valves" and feed back a pneumatic signal to the controller. This feedback, e.g. "End position reached", is realised via a stem actuated valve or roller actuated

valve.

This is a simple application, but it is an extremely popular solution for smaller machines and conveying systems, e.g. for controlling simple clamping and locking operations in semi-automated assembly and production. The modern design with metal housing combines sturdiness and functionality.

Advantages of mechanically actuated valves:

- No electronic controller required
- No programming effort required
- Easy to adjust and connect
- Control and measurement via sensors

Valve functions Circuit symbol	Туре	Description
	туре	Description
Stem actuated valve	VMEM CT M22C M	2/2 way value manastable
2	VMEM-ST-M32C-M	3/2-way valve, monostable
12	V-3-M5	Normally closed
	V-3-1/4-B	Mechanical spring return Control of the following spring return
1 3	V/0-3-PK-3	• Suitable for vacuum (not V/O-3-PK-3)
2	VMEM-ST-M32U-M	3/2-way valve, monostable
10	VO-3-1/4-B	Normally open
		Mechanical spring return
1 3		Suitable for vacuum
2 2	V/0-3- 1 /8	3/2-way valve, monostable
12 110		Normally open/closed
		Mechanical spring return
1 3 11 33		Suitable for vacuum
2	VMEM-STC-M32C-M	3/2-way valve, monostable
12 1	VS-3-1/8	Normally closed
		Pneumatically piloted, internal pilot air
1 3		Mechanical spring return
2	VMEM-STC-M32U-M	3/2-way valve, monostable
1.0		Normally open
		Pneumatically piloted, internal pilot air
1 3		Mechanical spring return
21	VOS-3-1/8	3/2-way valve, monostable
110		Normally open
		Pneumatically piloted, internal pilot air
11 33		Mechanical spring return
21	VMEM-STCZ-M32C-M	3/2-way valve, monostable
4		Normally closed
12		Pneumatically piloted, external pilot air
12 1 3		Mechanical spring return
	VMEM-STCZ-M32U-M	3/2-way valve, monostable
2	THEM SICE MIJEO M	Normally open
		Pneumatically piloted, external pilot air
12 1 3		Mechanical spring return
14 15	VS-4-1/8	4/2-way valve, monostable
4 2	VJ-4-78	 Pneumatically piloted, internal pilot air
14		Mechanical spring return
— <u>> • • • • • • • • • </u>		• Mechanical Spring return
1 3		

Valves, mechanically actuated Keyfeatures – Pneumatic components

FESTO

Valve functions		
Circuit symbol	Туре	Description
Stem actuated valve		
4 2	VMEM-S-M52-M	5/2-way valve, monostable
14		Mechanical spring return
		Suitable for vacuum
5 1 3		Reverse operation possible
5 1 5	VMEM-S-M52-A	5/2-way valve, monostable
4 2		(Internal) pneumatic spring return
5 1 3	\/\dagga_{\text{A}} \cdot \(\text{A} \) \(A	70
4 2	VMEM-S-M52-E	5/2-way valve, monostable
14 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		(External) pneumatic spring return
		Suitable for vacuum
5 1 3 12	WIEW CO MES	Reverse operation possible
4 2	VMEM-SC-M52-M	5/2-way valve, monostable
14		Pneumatically piloted, internal pilot air
		Mechanical spring return
5 1 3		
4 2	VMEM-SC-M52-A	5/2-way valve, monostable
14		Pneumatically piloted, internal pilot air
		(Internal) pneumatic spring return
5 1 3		
4 2	VMEM-SCZ-M52-M	5/2-way valve, monostable
14		 Pneumatically piloted, external pilot air
		 Mechanical spring return
14 5 1 3		Suitable for vacuum
		Reverse operation possible
4 2	VMEM-SCZ-M52-E	5/2-way valve, monostable
14		 Pneumatically piloted, external pilot air
		(External) pneumatic spring return
14 5 1 3 12		Suitable for vacuum
		Reverse operation possible
4 2	V-5-1/4-B	5/2-way valve, monostable
14		Normally open/closed
		Mechanical spring return
5 1 3		Suitable for vacuum
Swivel lever valve		
2 2	RW/0-3-1/8	3/2-way valve, monostable
12 110 1		Normally open/closed
		Mechanical spring return
1 3 11 33		Suitable for vacuum
Whisker valve		
2	FVS-3-1/8	3/2-way valve, monostable
12		Normally closed
		Mechanical spring return
1 3		Pneumatically piloted, internal pilot air
2	FVSO-3-1/8	3/2-way valve, monostable
110		Normally open
		Mechanical spring return
11 33		Pneumatically piloted, internal pilot air
		, , ,

Valves, mechanically actuated Key features – Pneumatic components

FESTO

Valve functions – Circuit symbol	Time	Description
Circuit symbol	Туре	Description
Roller lever valve with idle return	1.72 . 2	To the second se
12 2 110 2	L/0-3-PK-3	3/2-way valve, monostable
	l	Normally open/closed
	<u>-</u> W	Mechanical spring return
1 3 11	33	
12 2	L-3-M5	3/2-way valve, monostable
	L-3-1/4-B	Normally closed
V TIT V W		Mechanical spring return
1 3		Suitable for vacuum
14 4 2	L-5-1/4-B	5/2-way valve, monostable
		Mechanical spring return
T / - / -		Suitable for vacuum
5 1 3		
Toggle lever valve	·	·
2	LS-3-1/8	3/2-way valve, monostable
⊙ 12		Normally closed
		 Mechanical spring return
1 3		 Pneumatically piloted, internal pilot air
2	LOS-3-1/8	3/2-way valve, monostable
•\ 110 \ \ \		Normally open
		Mechanical spring return
11 33		• Pneumatically piloted, internal pilot air
10 2	LO-3-1/4-B	3/2-way valve, monostable
		Normally open
		Mechanical spring return
1 3		Suitable for vacuum
4 2	LS-4-1/8	4/2-way valve, monostable
a) 14 A T		Mechanical spring return
<u> </u>		Pneumatically piloted, internal pilot air
1 3		

Valves, mechanically actuated Keyfeatures – Pneumatic components



Valve functions – Circuit symbol						
Circuit symbol	Туре	Description				
Roller lever, roller actuated valve						
2	VMEM-DT-M32C-M	3/2-way valve, monostable				
12	R-3-M5	Normally closed				
□ T T \ W	R-3-1/4-B	Mechanical spring return				
1 3		Suitable for vacuum				
2	VMEM-DT-M32U-M	3/2-way valve, monostable				
10	RO-3-1/4-B	Normally open				
□ _T W		Mechanical spring return				
1 3		Suitable for vacuum				
4 2	VMEM-D-M52-M	5/2-way valve, monostable				
14 14 1		Mechanical spring return				
Today III		Suitable for vacuum				
5 1 3		Reverse operation possible				
4 2	VMEM-D-M52-A	5/2-way valve, monostable				
		(Internal) pneumatic spring return				
5 1 3						
4 2	VMEM-D-M52-E	5/2-way valve, monostable				
		(External) pneumatic spring return				
		Suitable for vacuum				
5 1 3 12		Reverse operation possible				
2 2	R/O-3-PK-3	3/2-way valve, monostable				
12 110 1	,	Normally open/closed				
		Mechanical spring return				
1 3 11 33		, a talk , g				
	RS-3-1/8	3/2-way valve, monostable				
12		Normally closed				
		Mechanical spring return				
1 3		Pneumatically piloted, internal pilot air				
31	ROS-3-1/8	3/2-way valve, monostable				
2		Normally open				
110		Mechanical spring return				
		Pneumatically piloted, internal pilot air				
11 33	RS-4-1/8	4/2-way valve, monostable				
4 2	NJ-4-78					
		Mechanical spring return Programatically piloted, internal pilot air.				
		Pneumatically piloted, internal pilot air				
1 3	D r 1/ D	5/2 wayyaha manastahla				
4 2	R-5-1/4-B	5/2-way valve, monostable				
14		Mechanical spring return Critical forms a super-				
⊙ TT /T W		Suitable for vacuum				
5 1 3						
						

Valves, mechanically actuated Key features – Pneumatic components

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Valve functions		
Circuit symbol	Туре	Description
Ball actuated valve		
12 1 1 3	VMEM-BTC-M32C-M	 3/2-way valve, monostable Normally closed Mechanical spring return Pneumatically piloted, internal pilot air
10 T T W	VMEM-BTC-M32U-M	 3/2-way valve, monostable Normally open Mechanical spring return Pneumatically piloted, internal pilot air
12 12 13 13	VMEM-BTCZ-M32C-M	 3/2-way valve, monostable Normally closed Mechanical spring return Pneumatically piloted, external pilot air
10 2 WW 10 1 3	VMEM-BTCZ-M32U-M	3/2-way valve, monostable Normally open Mechanical spring return Pneumatically piloted, external pilot air
14 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VMEM-BC-M52-M	 5/2-way valve, monostable Mechanical spring return Pneumatically piloted, internal pilot air
14 2 5 1 3	VMEM-BC-M52-A	5/2-way valve, monostablePneumatic spring returnPneumatically piloted, internal pilot air
14 2 W 5 1 3	VMEM-BCZ-M52-M	 5/2-way valve, monostable Mechanical spring return Pneumatically piloted, external pilot air Suitable for vacuum Reverse operation possible
14 2 1 3 12	VMEM-BCZ-M52-E	 5/2-way valve, monostable Pneumatic spring return Pneumatically piloted, external pilot air Suitable for vacuum Reverse operation possible

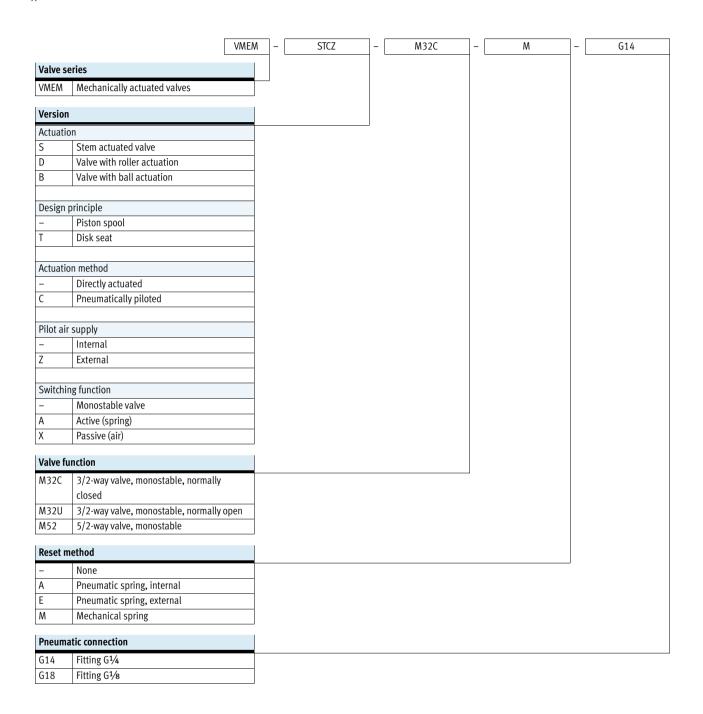


A filter must be installed upstream of valves operated in vacuum mode. This prevents any foreign matter in the intake air getting into the valve (e.g. when operating a suction cup).

Valves, mechanically actuated



Type code



Type discontinued Available up until 2018

Stem actuated valves FESTO

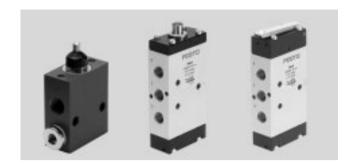
Technical data – Stem actuated valve, standard nominal flow rate 80 ... 160 l/min

- N - Flow rate 80 ... 1,000 l/min

Mounting via through-holes

- **L** - Pressure -0.95 ... +10 bar

- Temperature range -10 ... +60 °C



General technical data							
Туре		V-3-M5	V/0-3-PK-3	VS-3-1/8 VOS-3-1/8	VS-4-1/8	V/0-3-1/8	RW/O-3-1/8
Standard nominal flow rate [[l/min]	80		146 154 (VS)	140 147	140	
1 2				141 161 (VOS)			
Valve function		3/2-way valve		3/2-way valve	4/2-way valve	3/2-way valve	
Exhaust air		-	-	Flow control		-	-
Design		Disk seat valve, dire	ectly actuated	Disk seat valve, pilot	ted	Disk seat valve, directly actuated	
Direction of flow		-	_	Non-reversible		-	-
Sealing principle		-	_	Soft		-	-
Mounting position		-	_	Any		-	-
Note on forced checking proced	ure	-	_	Min. 1/year		-	-
Pneumatic connection		M5	PK-3 ¹⁾	G½8	G ¹ /8	G ¹ / ₈	
Nominal size [[mm]	2.0	2.5	3.5	3.5	3.5	
Weight [[g]	25	20	110	220	90	150
Actuating force [[N]	23.0	17.0	3.0	3.2	28.0	28.0
• at 6 bar							
• with normally closed position	[N]	-	17.0	_	-	37.5	_
• with normally open [position	[N]	-	24.0	-	-	-	_

¹⁾ PK-3=Barbed fitting for plastic tubing with 3 mm nominal diameter

Materials						
Туре	V-3-M5	V/0-3-PK-3	VS-3-1/8 VOS-3-1/8	VS-4- ¹ / ₈	V/0-3- ¹ / ₈	RW/O-3-1/8
Seal	NBR					
Jean	NUK					
Housing	Die-cast zinc	POM	Anodised aluminium	<u> </u>		



Technical data – Stem actuated valve, standard nominal flow rate 80 ... 160 l/min

Operating and environmental conditions								
Туре		V-3-M5	V/0-3-PK-3	VS-3-1/8 VOS-3-1/8	VS-4- ¹ / ₈	V/0-3- ¹ / ₈	RW/O-3- ¹ / ₈	
Operating medium		Compressed air to	Compressed air to ISO 8573-1:2010 [-:-:-]					
Note on operating/pilot med	ium	Lubricated operation possible (required during subsequent operation)						
Operating pressure range	[bar]	-0.95 8	0 8 3.5 8 -0.95 8 -0.95 8				-0.95 8	
Temperature of medium	[°C]	-10 +60						
Ambient temperature	[°C]	-10 +60						
Corrosion resistance class C	RC ¹⁾	-	_	2		-	-	

¹⁾ Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Technical data – Actuator attachment for swivel lever valve RW/0-3-1/8						
Swivel lever, type		ASK-02 (short)	ASL-02 (long)	ASS-02 (rod)		
Actuating force [N]	Max.	7	Dependent on starting height	Dependent on starting height		
Weight	[g]	30	35	30		

Materials - Swivel lever	
Swivel lever	Aluminium, steel

Type discontinued Available up until 2018

Stem actuated valves

FESTO

Technical data – Stem actuated valve, standard nominal flow rate 500 l/min

General technical data							
Туре		VMEM-ST-M32	VMEM-STCM32	VMEM-S-M52	VMEM-SC-M52	VMEM-SCZ-M52	
Standard nominal flow rate	[l/min]	500					
1> 2							
Valve function		3/2-way valve		5/2-way valve			
Reset method	od Mechanical spring Mechanical or pneumatic spring						
Design		Disk seat valve,	Disk seat valve,	Piston spool valve, directly	Piston spool valve,	Piston spool valve,	
		directly actuated	piloted	actuated	piloted	piloted	
Pneumatic connection		G1/8	G1/8	G1/8	G1/8	G ¹ /8	
Pilot air supply		-	Internal or external	-	Internal	External	
Nominal size	[mm]	4.0	4.0	4.0	4.0	4.0	
Weight	[g]	130	152	148	170	170	
Actuating force	[N]	80 ¹⁾	15.5	28 ²⁾	15.5	15.5	
		130		39			

- 1) Value 80 with normally closed valve, value 130 with normally open valve
- 2) Value 28 with mechanical spring reset method, value 39 with pneumatic spring reset method

Materials										
Туре	VMEM-ST-M32	VMEM-STCM32	VMEM-S-M52	VMEM-SC-M52	VMEM-SCZ-M52					
Cover	_	POM	PA							
Seal	NBR									
Housing	Anodised wrought a	Anodised wrought aluminium alloy								
Note on materials	RoHS-compliant	oHS-compliant								

Operating and environmenta	al conditions	S								
Туре		VMEM-ST-M32	MEM-ST-M32 VMEM-STCM32 VMEM-S-M52 VMEM-SC-M52 VMEM-SCZ-N							
Operating medium		Compressed air to I	ompressed air to ISO 8573-1:2010 [7:-:-]							
Note on operating/pilot medi	ium	Lubricated operation possible (required during subsequent operation)								
Operating pressure range	[bar]									
N/C valves		-0.95 8	3.5 8	-		-	-			
N/O valves		-0.95 8	4.5 8	-0.95 10 ¹⁾	2.5 10 ²⁾	2.5 10	-0.95 10			
Temperature of medium	[°C]	-10 +60								
Ambient temperature	[°C]	-10 +60								

- 1) Suitable for vacuum, mechanical spring or external pneumatic spring reset method (in the type codes Reset method M: Mechanical spring or E: External pneumatic spring)
- 2) Not suitable for vacuum, internal pneumatic spring reset method (in the type codes Reset method A: Internal pneumatic spring)



Technical data – Stem actuated valve, standard nominal flow rate 550 ... 600 l/min

General technical data					
Туре		V-5-1/4-B	VO-3-1/4-B	V-3-1/4-B	
Standard nominal flow rate	[l/min]	550	600		
1 2					
Valve function		5/2-way valve	3/2-way valve		
Design		Disk seat valve, directly actuated	Disk seat valve, directly actuated	Disk seat valve, directly actuated	
Pneumatic connection		G1/4	G1/4	G1/4	
Nominal size	[mm]	7.0	7.0	7.0	
Weight	[g]	240	130	130	
Actuating force	[N]	179.0	117.0	66.5	

Materials									
Seal	NBR								
Housing	Die-cast aluminium								

Operating and environment	Operating and environmental conditions								
Operating medium		Compressed air to ISO 8573-1:2010 [7:-:-]							
Note on operating/pilot med	ium	Lubricated operation possible (required during subsequent operation)							
Operating pressure range	[bar]	-0.95 10							
Temperature of medium	[°C]	-10 +60							
Ambient temperature	[°C]	-10 +60							

- Type discontinued Available up until 2018

Stem actuated valves

FESTO

Technical data – Stem actuated valve, standard nominal flow rate 1,000 l/min

General technical data					
Туре		VMEM-ST	VMEM-S	VMEM-SC	VMEM-SCZ
Standard nominal flow rate	[l/min]	1,000			
1 2					
Valve function		3/2-way valve	5/2-way valve		
Reset method		Mechanical spring	Mechanical or pneumatic spring		
Design		Disk seat valve,	Piston spool valve, directly actuated	Piston spool valve,	Piston spool valve,
		directly actuated		directly actuated	directly actuated
Pneumatic connection		G1/4	G1/4	G1/4	G1/4
Pilot air supply		-	-	Internal	External
Nominal size	[mm]	6.0	6.0	6.0	6.0
Weight	[g]	198	320	300	300
Actuating force	[N]	80 ¹⁾	38.0 ²⁾	15.0	15.5
		140	65.0		

- 1) Value 80 with normally closed valve, value 140 with normally open valve
- 2) Value 38 with mechanical spring reset method, value 65 with pneumatic spring reset method

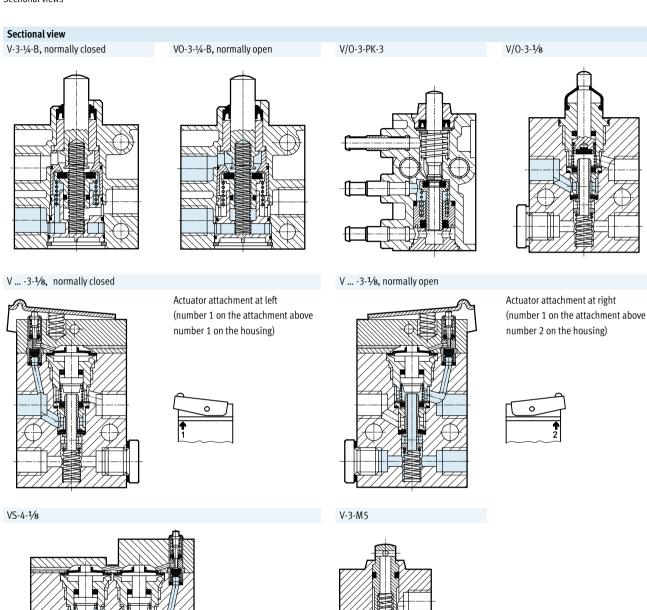
Materials									
Туре	VMEM-ST	VMEM-S	VMEM-SC	VMEM-SCZ					
Cover	-	PA							
Seal	NBR								
Housing	Anodised wrough	Anodised wrought aluminium alloy							
Note on materials	RoHS-compliant	RoHS-compliant							

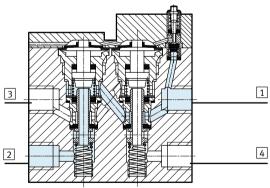
Operating and environmental condit	perating and environmental conditions											
Туре	VMEM-ST	VMEM-S		VMEM-SC	VMEM-SCZ							
Operating medium	Compressed air to	ompressed air to ISO 8573-1:2010 [7:-:-]										
Note on operating/pilot medium	Lubricated operat	ion possible (required du	ring subsequent operati	on)								
Operating pressure range [bar]												
N/C valves	-0.95 8	-		-	-							
N/O valves	-0.95 8	-0.95 10 ¹⁾	2.5 10 ²⁾	2.5 10	-0.95 10							
Temperature of medium [°C]	-10 +60	·			·							
Ambient temperature [°C]	-10 +60											

- 1) Suitable for vacuum, mechanical spring or external pneumatic spring reset method (in the type codes Reset method M: Mechanical spring or E: External pneumatic spring)
 2) Not suitable for vacuum, internal pneumatic spring reset method (in the type codes Reset method A: Internal pneumatic spring)

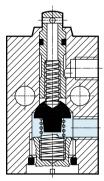


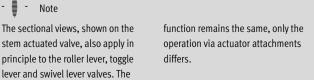
Sectional views



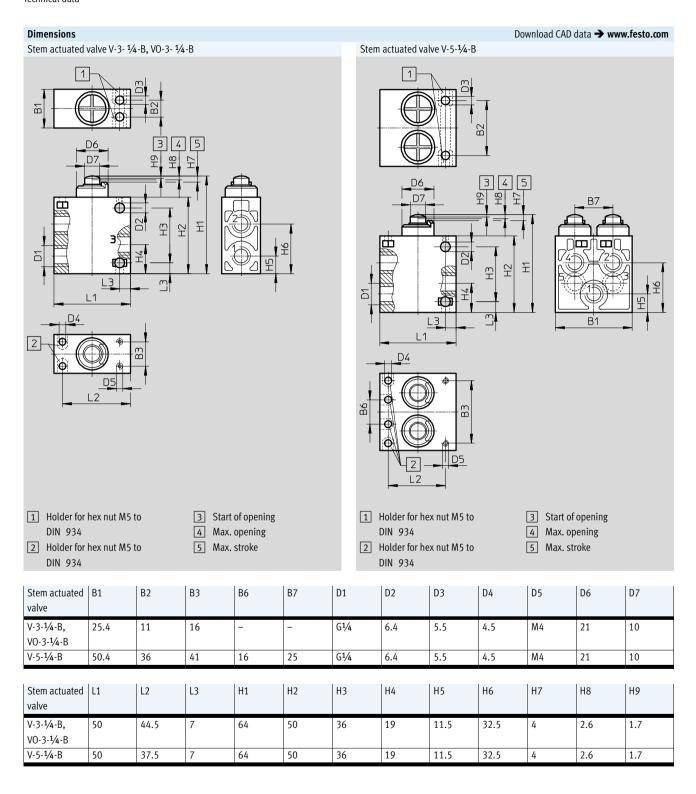




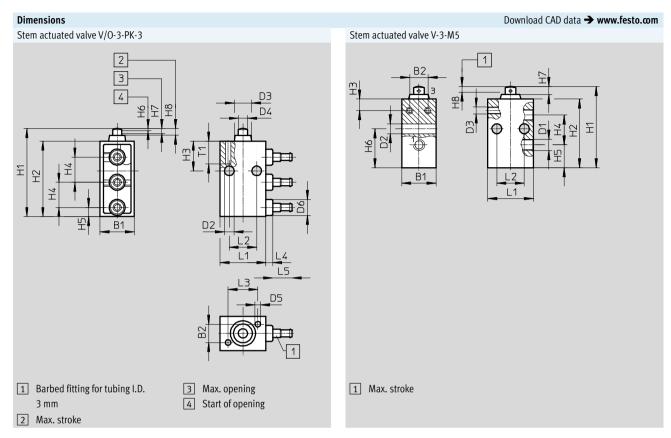


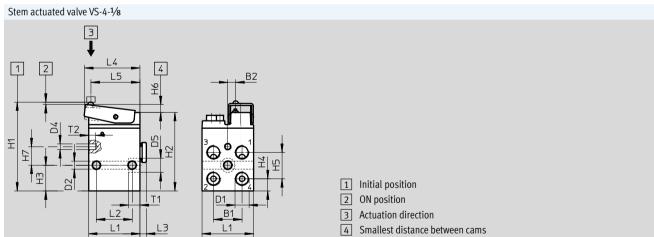








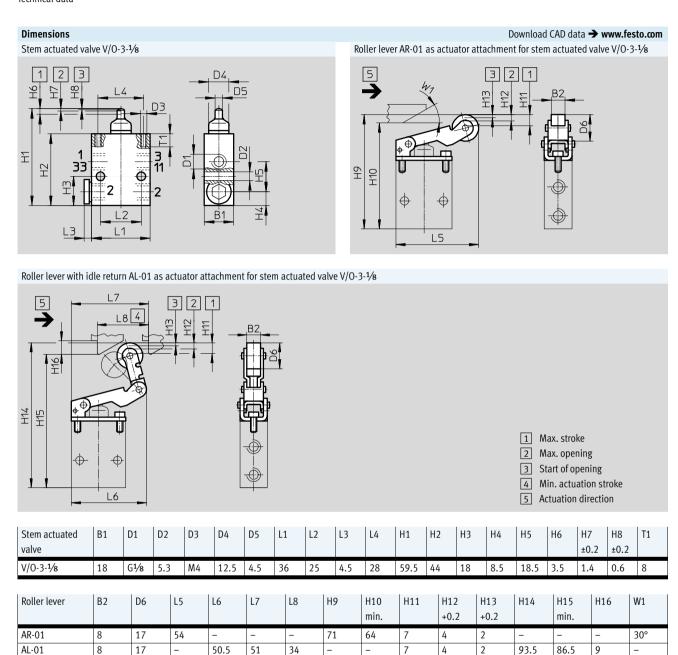




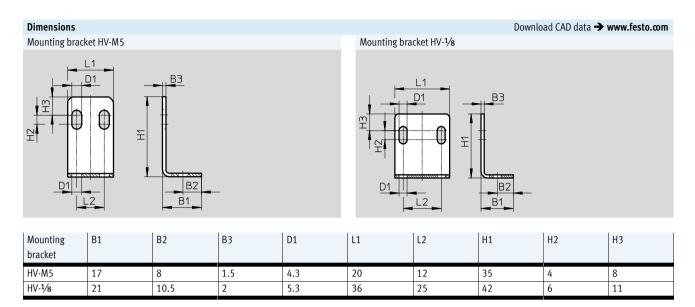
Stem actuated valve	B1	B2	D1	D2	D3	D4	D5	D6	T1	T2
V/0-3-PK-3	15	8	-	4.3	7.5	4	2.4	7	10	-
V-3-M5	15	8	M5	4.3	M3	-	-	-	-	-
VS-4-1/8	20	5.5	G ¹ /8	5.3	_	4.1	10	_	8	5

Stem actuated valve	L1	L2	L3	L4	L5	H1	H2	Н3	H4	H5	H6	H7	Н8	H14
V/0-3-PK-3	20	12	13	3	8.5	38.5	33	13	11	4	0.9	2.1	2.9	-
V-3-M5	-	-	-	-	-	35.5	30	8	13	10	17	3.5	2.5	_
VS-4-1/8	36	25	5	39	35.5	62.5	55	18	8.5	18.5	5.5	-	-	13







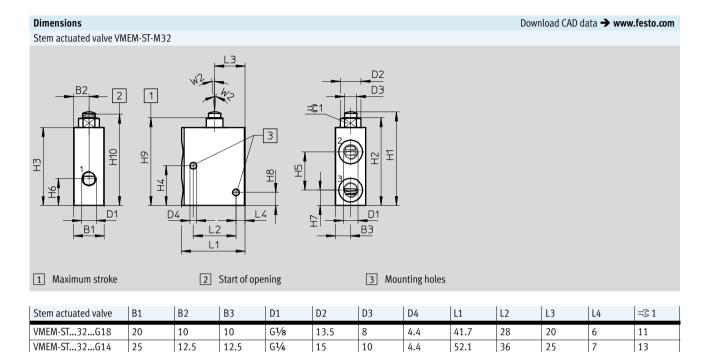


Type discontinued Available up until 2018

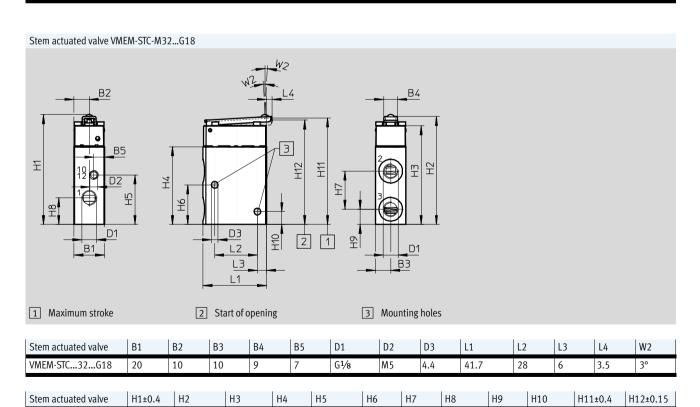
Stem actuated valves

Technical data

FESTO



Stem actuated valve	H1	H2	H3	H4	H5	Н6	H7	Н8	H9	H10±0.3	W2
VMEM-ST32G18	61.6±0.3	57.4	51	26	25	17.5	10	8.5	58.1±0.4	59.8	5°
VMEM-ST32G14	73.3±0.2	67.7	61	26	28	23.5	12.5	8	68.6±0.6	70.5	5°



VMEM-STC...32...G18

72.1

70.8

64.8

51

32.5

26

25

17.5

10

8.5

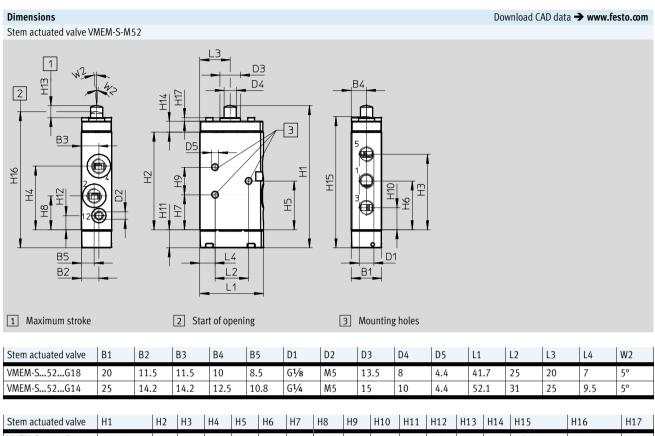
71.2

70.35

Type discontinued Available up until 2018

Stem actuated valves

FESTO



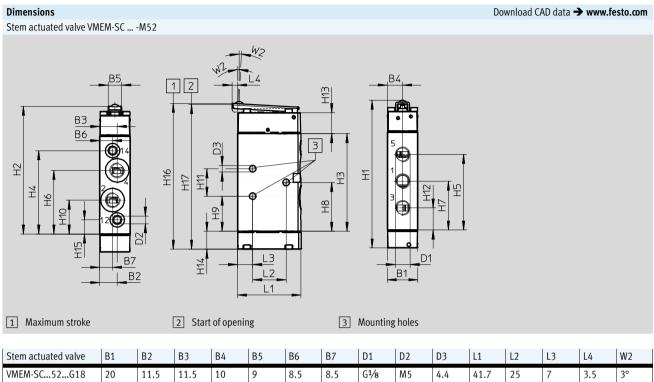
VMEM-S52G18	93.4±0.4	64	49.5	41.8	32	32	23	22.3	18	14.5	11.8	9.3	7.8	7.1	86.3±0.4	89.4±1	2.5
VMEM-S52G14	118.5±0.3	87	68.1	60.1	43.5	43.8	31.4	28.5	24.3	19.5	11	10.1	9	8.3	110.1±0.3	113.7±1.3	3

- Type discontinued Available up until 2018

Stem actuated valves

Technical data

FESTO



Stem actuated valve	В1	B2	B3	В4	B5	В6	В/	D1	D2	D3	L1	L2	L3	L4	W2
VMEM-SC52G18	20	11.5	11.5	10	9	8.5	8.5	G1/8	M5	4.4	41.7	25	7	3.5	3°
VMEM-SC52G14	25	14.2	14.2	12.5	12	10.8	10.8	G1/4	M5	4.4	52.1	31	9.5	4.6	3°

Stem actuated valve	H1±0.4	H2	Н3	H4	H5	Н6	H7	Н8	Н9	H10	H11	H12	H13	H14	H15	H16±0.4	H17+0.5
VMEM-SC52G18	96.9	83.8	64	54.7	49.5	41.8	32	32	23	22.3	18	14.5	13.8	11.8	9.3	95.6	95.1
VMEM-SC52G14	119.4	106.8	87.3	77.5	68.1	59.1	43.8	43.5	31.4	28.5	24.3	19.5	13.8	11	10.1	117.8	117.4

Type discontinued Available up until 2018

Stem actuated valves

Ordering data

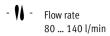
FESTO

Ordering dat	Valve function	Description	Mechanical	Normal	Pilot air ¹⁾	Part No.	Туре	
rate	valve function	Description	reset	position	riiot aii 7	rait No.	туре	
[l/min]			Teset	position				
	- d l							
Stem actuate		Cuitable for vacuum		Closed	_	3626	V-3-M5	
80	3/2-way valve, monostable	Suitable for vacuum Suitable for vacuum		Open/closed	-	10747	V/O-3-PK-3	
140 147	4/2-way valve,	Sultable for vacuum	-	Open/cioseu	-	3394	VS-4-1/8	
140 147	monostable	_	_	_	_	3354	VJ-4-78	
140	3/2-way valve,	Suitable for vacuum		Open/closed	_	4938	V/0-3- ¹ / ₈	
140	monostable	Sultable for vacuum	_	Open/ciosed		4770	V/O-J-78	
146 154	3/2-way valve,			Closed	_	2334	VS-3-1/8	
140 154	monostable		_	closed		2331	13 3 70	
141 161	3/2-way valve,	_		Open	_	2952	VOS-3-1/8	
	monostable							
500	3/2-way valve,	Suitable for vacuum	•	Closed	_	555618	VMEM-ST-M32C-M-G18	.] .
	monostable			Open	_	555619	VMEM-ST-M32U-M-G18	.] .
		_		Closed	Internal	555620	VMEM-STC-M32C-M-G18	. Į.
					External	555622	VMEM-STCZ-M32C-M-G18	٠٦.
				Open	Internal	555621	VMEM-STC-M32U-M-G18	٠٦.
					External	555623	VMEM-STCZ-M32U-M-G18	٠٦.
		Suitable for vacuum, reverse	-	_	-	555624	VMEM-S-M52-M-G18	٠٦.
		operation						
		(Internal) pneumatic reset		-	-	555625	VMEM-S-M52-A-G18	-1-
		Suitable for vacuum, reverse		-	-	555626	VMEM-S-M52-E-G18	- J -
		operation, (external)						
		pneumatic reset						
		-		-	Internal	555627	VMEM-SC-M52-M-G18	٠٦.
		Suitable for vacuum, reverse		-	External	555629	VMEM-SCZ-M52-M-G18	٠٦.
		operation						
		-	_	_	Internal	555628	VMEM-SC-M52-A-G18	٠٦.
		Suitable for vacuum, reverse		_	External	555630	VMEM-SCZ-M52-E-G18	٠٦.
		operation						
550	5/2-way valve,	Suitable for vacuum	-	_	-	6809	V-5-1/4-B	٠٦.
	monostable							
600	3/2-way valve,	Suitable for vacuum		Closed	-	6808	V-3-1/4-B	٠Į.
	monostable			Open	-	9157	VO-3-1/4-B	-1-
1000	3/2-way valve,	Suitable for vacuum	•	Closed	-	556901	VMEM-ST-M32C-M-G14	-1-
	monostable			Open	-	556902	VMEM-ST-M32U-M-G14	-1-
	5/2-way valve,	Suitable for vacuum, reverse	•	_	_	556903	VMEM-S-M52-M-G14	-] -
	monostable	operation					\##F## C M== 4 C / /	_
		-	-	-	-	556904	VMEM-S-M52-A-G14	-] -
		Suitable for vacuum, reverse	_	-	_	556905	VMEM-S-M52-E-G14	-1-
		operation	_		Intorr -1	FF(00/	VMFM CC MF2 M C44	-
		Cuitable for us source source	-	_	Internal	556906	VMEM-SC-M52-M-G14	-[-
		Suitable for vacuum, reverse operation			External	556908	VMEM-SCZ-M52-M-G14	٠٦.
		орегация		_	Internal	556907	VMEM CC MED A C44	-
		Cuitable for vacuum reverse		_	Internal External	556907	VMEM-SC-M52-A-G14 VMEM-SCZ-M52-E-G14	-l-
		Suitable for vacuum, reverse			LAICHIIdi	220203	V IVIEIVI-3CZ-IVI3Z-E-U14	. F.

¹⁾ With piloted valves

Swivel lever valves FESTO

Technical data – Swivel lever valve, standard nominal flow rate 80 ... 140 l/min



Mounting via through-holes







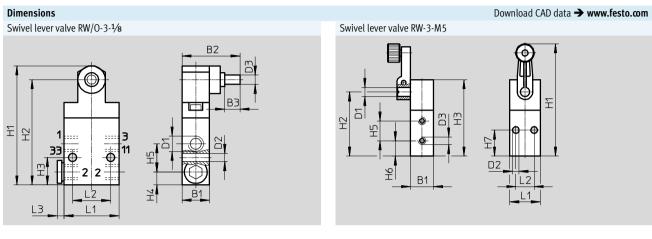
General technical data				
Туре		RW-3-M5	RW/O-3-PK-3	RW/0-3-1/8
Standard nominal flow rate 1 2	[l/min]	80	80	140
Valve function		3/2-way valve	3/2-way valve	3/2-way valve
Design		Piston poppet valve, directly actuated	Piston poppet valve, directly actuated	Disk seat valve, directly actuated
Pneumatic connection		M5	NW3 (barbed fitting)	G1/8
Nominal size	[mm]	2	2.5	3.5
Weight	[g]	65	40	150
Actuating force	[N]	14.5	13.0 (RW)	28.0
at 6 bar			16.0 RWO)	

Materials			
Туре	RW-3-M5	RW/O-3-PK-3	RW/O-3-1/8
Seal	NBR	NBR	NBR
Housing	Die-cast zinc	POM	Anodised aluminium

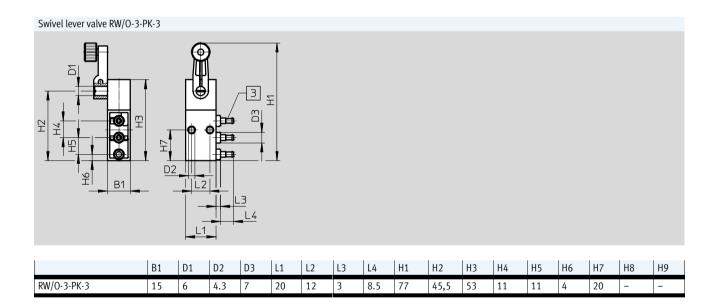
Operating and environmental conditions											
Туре		RW-3-M5	RW/O-3-PK-3	RW/O-3-1/8							
Operating medium		Compressed air to ISO 8573-1:2010 [-:-	-:-]								
Operating pressure range	[bar]	-0.95 8	0 8	-0.95 8							
Temperature of medium	[°C]	-10 +60									

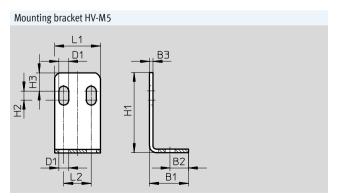
Technical data – Actuator atta	achment for	swivel lever valve RW/0-3-1/8			
Swivel lever, type		ASK-01 (short)	ASK-02 (short)	ASL-02 (long)	ASS-02 (rod)
Actuating force [N]	Max.	-	7	Dependent on starting height	Dependent on starting height
Weight	[g]	20	30	35	30

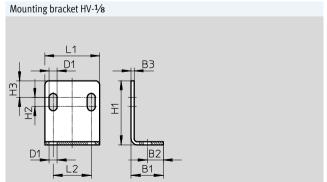
Materials - Swivel lever				
Swivel lever, type	ASK-01 (short)	ASK-02 (short)	ASL-02 (long)	ASS-02 (rod)
Material	GD-Zn	Aluminium, steel		



	B1	B2	B3	D1	D2	D3	L1	L2	L3	H1	H2	Н3	H4	H5	Н6	H7	Н8	Н9
RW/0-3-1/8	18	38	10	G1/8	5.3	6	36	25	4.5	78	69	18	8.5	18.5	-	-	-	-
RW-3-M5	30	15	-	12	4.3	M5	20	12	-	73.5	70.5	50	25.5	15	10	13	10.6	3







Mounting bracket	B1	B2	В3	D1	L1	L2	H1	H2	Н3
HV-M5	17	8	1.5	4.3	20	12	35	4	8
HV-1/8	21	10.5	2	5.3	36	25	42	6	11

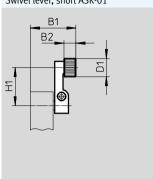
Swivel lever valves

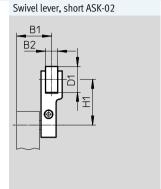


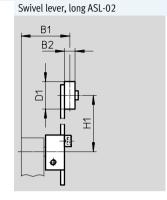


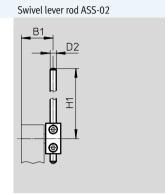
Actuator attachment for swivel lever valve

Swivel lever, short ASK-01





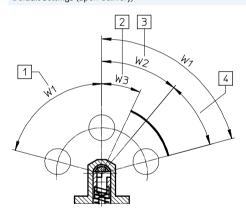




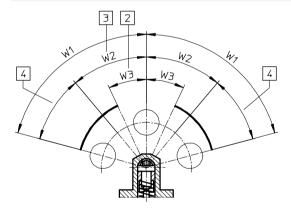
Actuator attachment	B1	B2	D1	D2	H1
ASK-01	30	8	12	-	25
ASK-02	23	8	17	-	30
ASL-02	32	7	18	-	25 85
ASS-02	21	-	_	4	30 140

Actuating ranges are set by converting the switching head

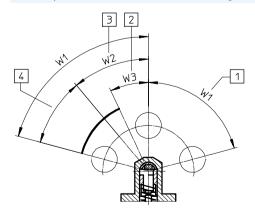
Default settings (upon delivery)



Valve components 1 and 2 turned 90° around the longitudinal axis



Valve components 1 and 2 turned 180° around the longitudinal axis



- 1 (w1) Idling, or max. angle position (75°)
- 2 (w3) Start of opening (25° ±8°)
- (w2) Max. opening angle (40° ±5°)
- 4 Overtravel

Swivel lever valves



Technical data

Ordering d	ata					
Nominal flow rate [l/min]	Valve function	Description	Mechanical reset	Normal position	Part No.	Туре
Swivel leve	er valve					
80	3/2-way valve, monostable	Suitable for vacuum		Closed	4031	RW-3-M5
80	3/2-way valve, monostable	Not suitable for vacuum		Open/closed	10750	RW/0-3-PK-3
140	3/2-way valve, monostable	Suitable for vacuum		Open/closed	4937	RW/0-3-1/8

Ordering data								
	Description	Part No.	Туре	PU ¹⁾				
Actuator attachment	Actuator attachment Control of the C							
) DE	Short swivel lever, version 1	13248	ASK-01	1				
)®[Short swivel lever, version 2	5835	ASK-02	1				
)pe[Long swivel lever	5836	ASL-02	1				
<u></u>	Swivel lever rod	4789	ASS-02	1				

¹⁾ Packaging unit

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Whisker valves FESTO

Technical data – Whisker valve, standard nominal flow rate 146 ... 175 l/min

- N - Flow rate 146 ... 175 l/min Mounting via through-holes



- Temperature range -10 ... +60 °C



General technical data				
Туре		FVS-3-1/8	FVS0-3-1/8	
Version		Whisker valve		
Standard nominal flow rate	[l/min]	146	175	
1> 2				
Valve function		3/2-way valve, closed, monostable	3/2-way valve, open, monostable	
Exhaust air		Flow control		
Design		Disk seat valve, piloted		
Direction of flow	of flow Non-reversible			
Sealing principle		Soft		
Mounting position		Any		
Pneumatic connection		G ¹ /8		
Nominal size	[mm]	3.5		
Weight	[g]	130		
Actuating force	[N]	→ Graph		
at 6 bar				
Repetition accuracy of	[mm]	±0.1		
switching point				

Materials	
Seal	NBR
Housing	Anodised aluminium
Note on materials	RoHS-compliant

Operating and environment	Operating and environmental conditions				
Operating medium		Compressed air to ISO 8573-1:2010 [-:-:-]			
Note on operating/pilot medium		Lubricated operation possible (required during subsequent operation)			
Operating pressure range	[bar]	3.5 8			
Temperature of medium	[°C]	-10 +60			
Ambient temperature	[°C]	-10 +60			
Corrosion resistance class CF	RC ¹⁾	2			

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

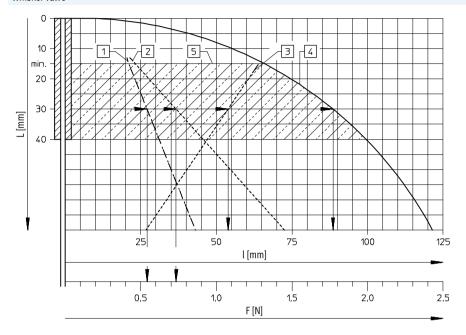
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Whisker valves FESTO

Technical data

Switching forces F and switching travel l at 6 bar as a function of approach distance L $\,$

Whisker valve



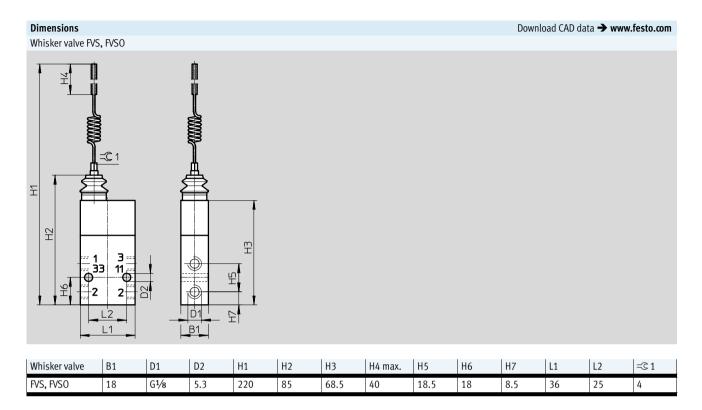
This piloted valve with extremely low actuating forces is particularly suited for systems where dissimilar parts or actuating elements without precision positioning are to be sensed, or where the actuating levels are different. The whisker can be approached from any direction perpendicular to the whisker axis, or can be passed.

- Switching force
- 2 Passing force
- 3 Switching travel
- 4 Overtravel
- 5 Permissible approach range

Example:

A distance of 30 mm from the end of the spring results in:

Switching travel 54 mm Switching force 0.57 N Overtravel 88 mm Passing force 0.75 N Whisker valves FESTO



Ordering da	ata						
Nominal flow rate [l/min]	Valve function	Description	Mechanical reset	Normal position	Pilot air ¹⁾	Part No.	Туре
Whisker val	Whisker valve						
146	3/2-way valve, monostable	Whisker valve		Closed	Internal	3876	FVS-3- ¹ / ₈
175	3/2-way valve,	Whisker valve	•	Open	Internal	3877	FVSO-3-1/8

¹⁾ With piloted valves

Roller lever valves with idle return, toggle lever valvesTechnical data – Roller lever valve with idle return, toggle lever valve, standard nominal flow rate 80 ... 175 l/min

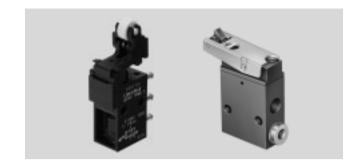


- N - Flow rate 80 ... 600 l/min Mounting via through-holes



-0.95 ... 8 bar





General technical data								
Type		L/0-3-PK-3	L-3-M5	LS-3-1/8	LOS-3-1/8	LS-4-1/8		
Version		Roller lever valve	with idle return	Toggle lever valve				
Standard nominal flow rate	[l/min]	80		146	175	128		
1 2								
Valve function		3/2-way valve		3/2-way valve	3/2-way valve	4/2-way valve		
Design Disk seat valve, direct			irectly actuated	Disk seat valve, pilo	oted			
Direction of flow		-	-	Non-reversible				
Sealing principle –			-	Soft				
Mounting position		_	-	Any				
Pneumatic connection		PK-3 ¹⁾	M5	G1/8	G1/8	G1/8		
Nominal size	[mm]	2.5	2	3.5	3.5	3.5		
Weight	[g]	19	43	110	110	220		
Actuating force	[N]	_	16.5	1.7	1.8	2.2		
• at 6 bar								
 with normally closed 	[N]	10.0	-	-	-	-		
position								
 with normally open 	[N]	13.0	-	-	-	-		
position								

¹⁾ Barbed fitting for plastic tubing with 3 mm nominal diameter

Materials					
Туре	L/0-3-PK-3	L-3-M5	LS-3-1/8	LOS-3-1/8	LS-4-1/8
Seal	NBR				
Housing	POM Die-cast zinc Anodised aluminium				
Note on materials	- RoHS-compliant				

Operating and environmental conditions							
Туре		L/0-3-PK-3	L-3-M5	LS-3-1/8	LOS-3-1/8	LS-4-1/8	
Operating medium		Compressed air to ISO	Compressed air to ISO 8573-1:2010 [-:-:-]				
Note on operating/pilot med	ium	Lubricated operation possible (required during subsequent operation)					
Operating pressure range	[bar]	0 8	-0.95 8	3.5 8			
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 may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Roller lever valves with idle return, toggle lever valves Technical data – Roller lever valve with idle return, toggle lever valve, standard nominal flow rate 550 ... 600 l/min



General technical data				
Туре		L-5-1/4-B	L-3-1/4-B	LO-3-1/4-B
Version		Toggle lever valve	Toggle lever valve	Toggle lever valve
Standard nominal flow rate	[l/min]	550	600	600
1> 2				
Valve function		5/2-way valve	3/2-way valve, closed	3/2-way valve, open
Design		Disk seat valve, directly actuated	Disk seat valve, directly actuated	Disk seat valve, directly actuated
Pneumatic connection		G ¹ / ₄	G1/4	G ¹ / ₄
Nominal size	[mm]	7.0	7.0	7.0
Weight	[g]	360	250	250
Actuating force	[N]	71.5	24.5	50.0

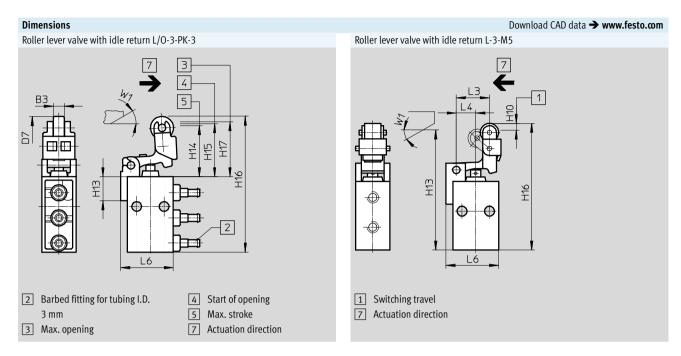
Materials	
Seal	NBR
Housing	Die-cast aluminium

Operating and environmental conditions					
Operating medium		Compressed air to ISO 8573-1:2010 [7:-:-]			
Note on operating/pilot medium		Lubricated operation possible (required during subsequent operation)			
Operating pressure range	[bar]	-0.95 10			
Ambient temperature	[°C]	-10 +60			

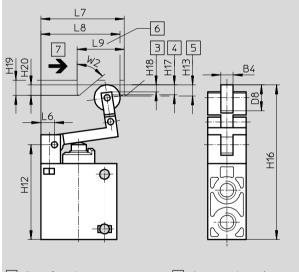
Roller lever valves with idle return, toggle lever valves



Technical data

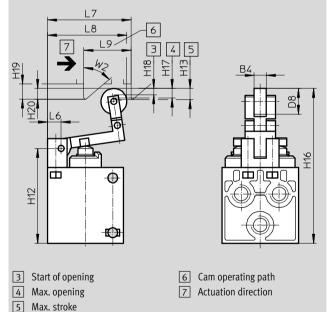






- 3 Start of opening
- 4 Max. opening
- 5 Max. stroke
- 6 Cam operating path
- 7 Actuation direction

Roller lever valve with idle return L-5-1/4-B

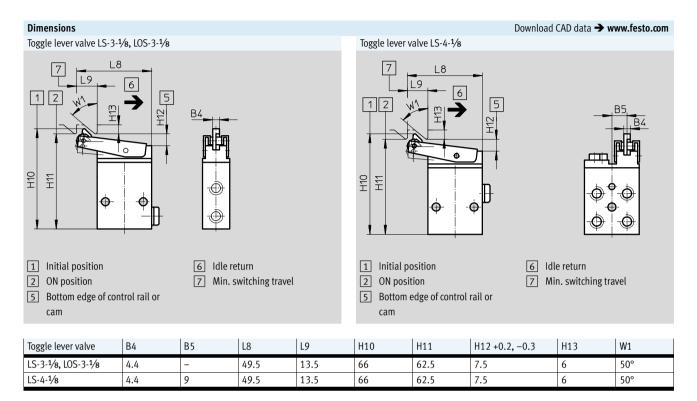


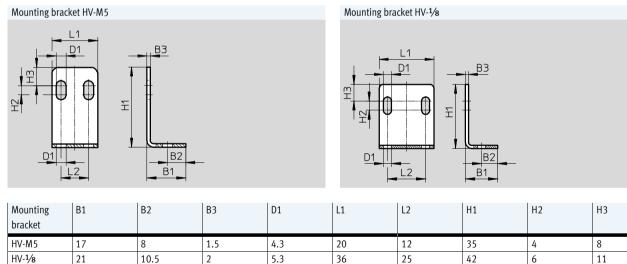
Roller lever valve with idle return	В3	B4	D7	D8	L3	L4	L6	L7	L8	L9
L/O-3-PK-3	4.8	-	10	-	-	-	23	-	-	-
L-3-M5	-	-	-	-	14.5	8.5	23	-	-	-
L-3-1/4-B, LO-3-1/4-B	-	8	-	17	-	-	9	55	54	31
L-5-1/4-B	-	8	-	17	-	-	9	55	54	31

Roller lever valve with idle return	H10	H12	H13	H14	H15	H16	H17	H18	H19	H20	W1	W2
L/0-3-PK-3	-	-	10.5	22.3	23.2	59.5	24	-	-	-	30°	-
L-3-M5	3	-	52.5	-	-	55.5	-	-	-	-	30°	-
L-3-1/4-B, LO-3-1/4-B	-	62.5	7.4	-	-	102	6.3	4.1	10	7	-	50°
L-5-1/4-B	-	62.5	7.4	_	-	102	6.3	4.1	10	7	-	50°

Roller lever valves with idle return, toggle lever valves







Roller lever valves with idle return, toggle lever valves Ordering data



Ordering	data					
Nominal flow rate [l/min]	Valve function	Description	Mechanical reset	Normal position	Part No.	Туре
Toggle leve	er valve					
128	4/2-way valve, monostable	Toggle lever valve	•	-	3416	LS-4-1/8
146	3/2-way valve, monostable	Toggle lever valve	•	Closed	2186	LS-3-1/8
175	3/2-way valve, monostable	Toggle lever valve		Open	2950	LOS-3- ¹ / ₈
Roller leve	er valve with idle retur	n				
80	3/2-way valve,	Roller lever valve with idle return		Open/closed	10749	L/O-3-PK-3
	monostable	Roller lever valve with idle return, suitable for vacuum		Closed	3628	L-3-M5
550	5/2-way valve, monostable	Roller lever valve with idle return, suitable for vacuum	•	-	8993	L-5-1/4-B
600	3/2-way valve,	Roller lever valve with idle return,	-	Closed	8982	L-3-1/4-B
	monostable	suitable for vacuum		Open	8989	LO-3-1/4-B

Ordering data				
	Description	Part No.	Туре	PU ¹⁾
Actuator attachment				
	For roller lever valve with idle return L-3-M5, roller lever with idle return with mounting screws	6513	AL-05	1

¹⁾ Packaging unit

Roller lever valves, roller actuated valves Technical data – Roller lever valve, roller actuated valve, standard nominal flow rate 80 ... 170 l/min



- N - Flow rate 80 ... 500 l/min Mounting either via through-holes or on front panel

- **L** - Pressure -0.95 ... 10 bar

- 👃 - Temperature range −10 ... +60 °C



General technical data								
Туре		R/O-3-PK-3	R-3-M5	RS-3-1/8	ROS-3-1/8	RS-4-1/8		
Version		Roller lever valve						
Standard nominal flow rate	[l/min]	80		151	169	128		
1> 2								
Valve function		3/2-way valve, open	n/closed	3/2-way valve	3/2-way valve	4/2-way valve		
Exhaust air		-	_	Flow control				
Design		Disk seat valve, dir	ectly actuated	Disk seat valve, pilo	oted			
Direction of flow		-	-	Non-reversible				
Sealing principle		_	_	Soft				
Mounting position		-	_	Any				
Note on forced checking proced	ure	_	_	Min. 1/year				
Pneumatic connection		PK-3 ¹⁾	M5	G1/8	G1/8	G1/8		
Nominal size	[mm]	2.5	2	3.5	3.5	3.5		
Weight	[g]	18	40	120	120	230		
Actuating force	[N]	_	16.5	1.7	1.9	1.8		
• at 6 bar								
 with normally closed position 	[N]	10.0	-	-	_	-		
• with normally open position	[N]	15.0	-	-	-	-		

¹⁾ Barbed fitting for plastic tubing with 3 mm nominal diameter

Roller lever valves, roller actuated valves Technical data – Roller lever valve, roller actuated valve, standard nominal flow rate 80 ... 170 l/min



Materials					
Туре	R/O-3-PK-3	R-3-M5	RS-3-1/8	ROS-3-1/8	RS-4-1/8
Seal	NBR				
Housing	POM Die-cast zinc Anodised aluminium				
Note on materials	-	-	RoHS-compliant		

Operating and environment	al condition:	S							
Туре		R/O-3-PK-3	R-3-M5	RS-3-1/8	ROS-3-1/8	RS-4-1/8			
Operating medium		Compressed air to ISO	3573-1:2010 [-:-:-]						
Note about operating/pilot medium		Lubricated operation po	Lubricated operation possible (required during subsequent operation)						
Operating pressure range	[bar]	0 8	-0.95 8	3.5 8	3.5 8	3.5 8			
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 may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Technical data – Actuator attachment							
Type		AR-01	AL-01				
Version		Roller lever	Roller lever with idle return				
Actuating force [N] Max.		10	12				
Weight	[g]	42	52				

Materials – Actuator attachment	
Actuator attachment	Galvanised steel

Roller lever valves, roller actuated valves Technical data – Roller lever valve, roller actuated valve, standard nominal flow rate 550 ... 600 l/min



General technical data				
Туре		R-5-1/4-B	R-3-1/4-B	RO-3-1/4-B
Version		Roller lever valve	Roller lever valve	Roller lever valve
Standard nominal flow rate	[l/min]	550	600	600
1> 2				
Valve function		5/2-way valve	3/2-way valve, closed	3/2-way valve, open
Design		Disk seat valve, directly actuated	Disk seat valve, directly actuated	Disk seat valve, directly actuated
Pneumatic connection		G1/4	G1/4	G1/4
Nominal size	[mm]	7.0	7.0	7.0
Weight	[g]	340	230	230
Actuating force	[N]	75.0	26.0	48.0

Materials	
Seal	NBR
Housing	Die-cast aluminium

Operating and environment	Operating and environmental conditions								
Operating medium Compressed air to ISO 8573-1:2010 [-:-:-]									
Note on operating/pilot med	ium	Lubricated operation possible (required during subsequent operation)							
Operating pressure range	[bar]	-0.95 10							
Ambient temperature	[°C]	-10 +60							

Roller lever valves, roller actuated valves Technical data – Roller lever valve, roller actuated valve, standard nominal flow rate 500 l/min



General technical data			
Туре		VMEM-DT	VMEM-D
Standard nominal flow rate	[l/min]	500	
1> 2			
Valve function		3/2-way valve	5/2-way valve
Reset method		Mechanical spring	Mechanical or pneumatic spring
Design		Disk seat valve, directly actuated	Piston spool valve, directly actuated
Pneumatic connection		G ¹ /8	G ¹ /8
Pilot air supply		-	-
Nominal size	[mm]	4.0	4.0
Weight	[g]	160	176
Max. switching frequency	[Hz]	2	2
Max. actuating speed			
 Axial actuation 	[m/s]	0.6	0.6
 Lateral actuation 	[m/s]	0.2	0.2
Actuating force	[N]	90 1)	27.5 ²⁾
		130	41
Max. actuating force	[N]	80	80
Max. lateral force	[N]	30	30

¹⁾ Value 90 with normally closed valve, value 130 with normally open valve

²⁾ Value 27.5 with mechanical spring reset method, value 41 with pneumatic spring reset method

Materials						
Cover	PA					
Seal	NBR					
Housing	Anodised wrought aluminium alloy					
Note on materials	RoHS-compliant					

Operating and environment	tal conditio	ns		
Туре		VMEM-DT	VMEM-D	
Operating medium		Compressed air to ISO 8573-1:2010 [7:-	:-]	
Note on operating/	[µm]	Lubricated operation possible (required d	uring subsequent operation)	
pilot medium				
Operating pressure range	[bar]	-0.95 8	-0.95 10 ¹⁾	2.5 10 ²⁾
Pilot pressure	[bar]	-	2.5 10 ³⁾	
Temperature of medium	[°C]	-10 +60	·	
Ambient temperature	[°C]	-10 +60		
Corrosion resistance class C	RC ⁴⁾	2		

Suitable for vacuum, mechanical spring or external pneumatic spring reset method (in the type codes Reset method M: Mechanical spring or E: External pneumatic spring)

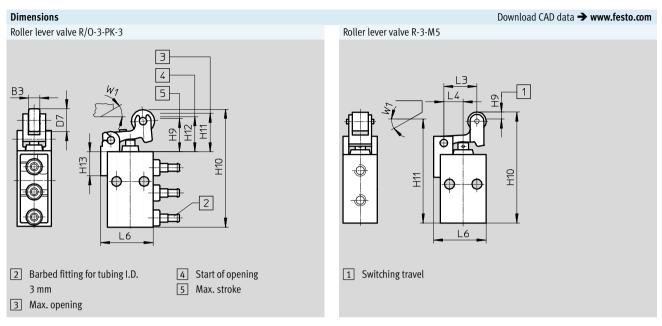
Not suitable for vacuum, internal pneumatic spring reset method (in the type codes Reset method A: Internal pneumatic spring)

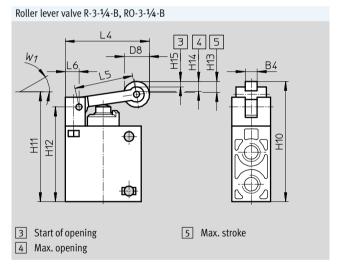
With VMEM-D ... E ...

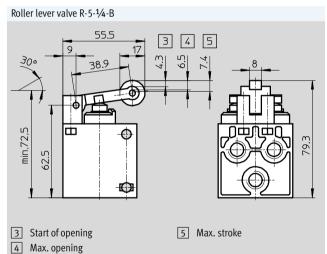
Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.









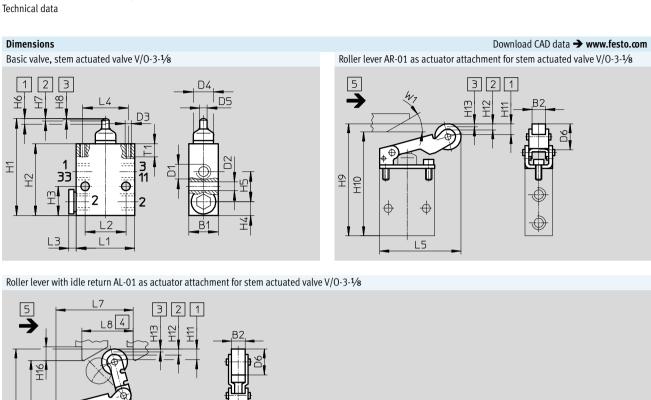
Roller lever valve	B3	B4	D7	D8	L3	L4	L5	L6
R/O-3-PK-3	4.8	-	10	-	_	_	-	23
R-3-M5	_	-	_	-	14.5	8.5	-	23
R-3-1/4-B, RO-3-1/4-B	-	8	_	17	-	55.5	39	9
R-5-1/4-B	-	8	_	17	_	55.5	39	9

Roller lever valve	H9	H10	H11	H12	H13	H14	H15	W1
R/O-3-PK-3	14.5	51.5	16.8	18.5	10.5	_	-	30°
R-3-M5	3	48.5	45.5	-	-	-	-	30°
R-3-1/4-B, RO-3-1/4-B	-	79.3	min. 72.5	62.5	7.4	6.5	4.3	30°
R-5-1/4-B	-	79.3	min. 72.5	62.5	7.4	6.5	4.3	30°



H175

L6





The stem actuated valve V/0-3-1/8can be extended with an actuator attachment for the roller lever or

toggle lever valve. The technical data is listed with the stem actuated valve.

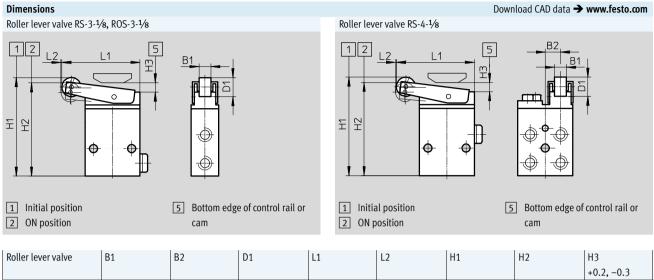
1 Max. stroke 2 Max. opening 3 Start of opening 4 Min. actuation stroke

5 Actuation direction

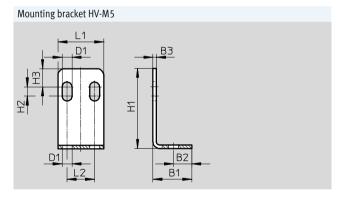
Stem actuated valve	B1	D1	D2	D3	D4	D5	L1	L2	L3	L4	H1	H2	H3	H4	H5	H6	H7 ±0.2	H8 ±0.2	T1
V/0-3-1/8	18	G1/8	5.3	M4	12.5	4.5	36	25	4.5	28	59.5	44	18	8.5	18.5	3.5	1.4	0.6	8
Actuator	B2	D6	15		16	17	18	Н	9	H10	H11	H1:	2 H	113	H14	H15	H1	6 \	<i>N</i> 1

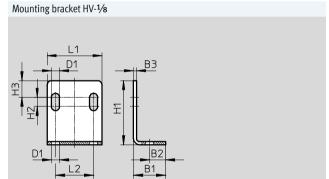
Actuator attachment	B2	D6	L5	L6	L7	L8	Н9	H10 min.	H11	H12 +0.2	H13 +0.2	H14	H15 min.	H16	W1
AR-01	8	17	54	-	-	-	71	64	7	4	2	-	-	-	30°
AL-01	8	17	_	50.5	51	34	-	_	7	4	2	93.5	86.5	9	-





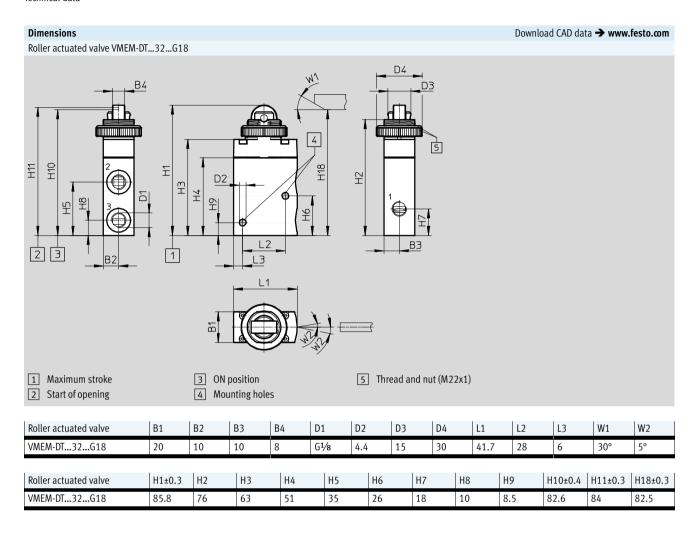
Roller lever valve	B1	B2	D1	L1	L2	H1	H2	H3 +0.2, -0.3
RS-3-1/8, ROS-3-1/8	7.7	-	12.5	51.5	0.5	64.5	61	6
RS-4-1/8	7.7	9	12.5	51.5	0.5	64.5	61	6



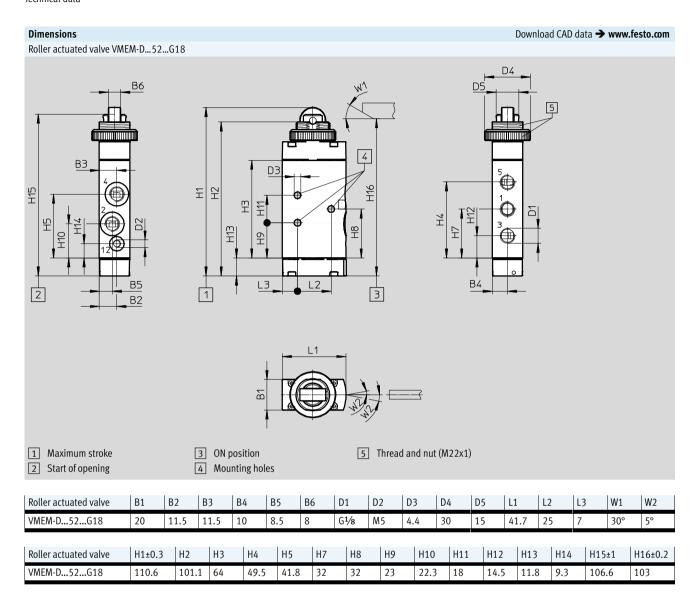


Mounting bracket	B1	B2	В3	D1	L1	L2	H1	H2	H3
HV-M5	17	8	1.5	4.3	20	12	35	4	8
_									-









Roller lever valves, roller actuated valves Ordering data



Ordering d	lata					
Nominal flow rate [l/min]	Valve function	Description	Mechanical reset	Normal position	Part No.	Туре
Roller leve	r valve			<u>'</u>	<u>'</u>	
80	3/2-way valve, monostable	Roller lever valve	•	Open/closed Closed	10748 3629	R/O-3-PK-3 R-3-M5
128	4/2-way valve, monostable	Roller lever valve	•	-	2949	RS-4- ¹ / ₈
151	3/2-way valve, monostable	Roller lever valve	•	Closed	2272	RS-3- ¹ / ₈
169	3/2-way valve, monostable	Roller lever valve	•	Open	2270	ROS-3-1/8
550	5/2-way valve, monostable	Roller lever valve, suitable for vacuum	•	-	8996	R-5-1/4-B
600	3/2-way valve,	Roller lever valve, suitable for vacuum		Closed	8985	R-3-1/4-B
	monostable			Open	8991	RO-3- ¹ / ₄ -B
Roller actu	ated valve					
500	3/2-way valve,	Roller actuated valve, suitable for vacuum		Closed	563386	VMEM-DT-M32C-M-G18
	monostable			Open	563387	VMEM-DT-M32U-M-G18
	5/2-way valve, monostable	Roller actuated valve, suitable for vacuum, reverse operation	•	-	563390	VMEM-D-M52-M-G18
		Roller actuated valve	-	-	563388	VMEM-D-M52-A-G18
		Roller actuated valve, suitable for vacuum, reverse operation	-	-	563389	VMEM-D-M52-E-G18

Ordering data				
	Description	Part No.	Туре	PU ¹⁾
Actuator attachment				
<u>•</u>	For stem actuated valve V/O-3-1/8, roller lever	4936	AR-01	1
	For stem actuated valve V/0-3-1/8, roller lever with idle return	4941	AL-01	1
• <u></u>	For roller lever valve R-3-M5, roller lever with mounting screws	6512	AR-05	1

¹⁾ Packaging unit

Valves, mechanically actuatedAccessories



Ordering data					
_	Description		Part No.	Туре	PU ¹⁾
Push-in fitting w	ith external hex (Mini version)				
	Connecting thread M5 for tubing O.D.	3 mm	153302	QSM-M5-3	10
		4 mm	153304	QSM-M5-4	10
		6 mm	153306	QSM-M5-6	10
	Connecting thread G½ for tubing O.D.	4 mm	186264	QSM-G ¹ /8-4	10
		6 mm	186265	QSM-G ¹ /8-6	10
Push-in fitting w	ith external hex (Standard version)				
	Connecting thread G½ for tubing O.D.	4 mm	186095	QS-G ¹ /8-4	10
		6 mm	186096	QS-G ¹ /8-6	10
	Connecting thread G1/4 for tubing O.D.	6 mm	186097	QS-G ¹ / ₄ -6	10
		8 mm	186099	QS-G ¹ / ₄ -8	10
		10 mm	186101	QS-G ¹ / ₄ -10	10
	<u> </u>	1			
Push-in fitting w	ith internal hex (Mini version)				
<u> </u>	Connecting thread M5 for tubing O.D.	3 mm	153313	QSM-M5-3-I	10
		4 mm	153315	QSM-M5-4-I	10
		6 mm	153315	QSM-M5-6-I	10
	Connecting thread G½ for tubing O.D.	4 mm	186266	QSM-G ¹ /8-4-I	10
		6 mm	186267	QSM-G ¹ /8-6-I	10
	<u> </u>				
Push-in fitting w	ith internal hex (Standard version)				
	Connecting thread G ¹ /8 for tubing O.D.	4 mm	186106	QS-G ¹ /8-4-I	10
		6 mm	186107	QS-G ¹ /8-6-I	10
		8 mm	186109	QS-G ¹ /8-8-I	10
	Connecting thread G½ for tubing O.D.	6 mm	186108	QS-G1/4-6-I	10
		8 mm	186110	QS-G1/4-8-I	10
		10 mm	186112	QS-G ¹ / ₄ -10-I	10
		<u> </u>			
Silencer					
	Connecting thread	G1/8	2307	U-1/8	1
0			161419	UC-1/8	1
		G1/4	2316	U-1/4	1
			6842	U-1/4-B	1
			165004	UC-1/4	1
			,		
Mounting bracke	t				
0	For valves with push-in connector and threaded connection M5	11 g	9634	HV-M5	1
	For valves with push-in connector and threaded connection G½	32 g	9635	HV-1/8	1

¹⁾ Packaging unit