Mechanically actuated valve, metric VMEF



Characteristics

At a glance

Innovative:
- Small and compact for a wide range of pneumatic applications
- Numerous valve functions can be selected: 3/2-way and 5/2-way functions
- Flow rate up to 1200 l/min
- Excellent pneumatic performance for a wide range of tasks
- Lightweight
- Minimal actuating forces

Versatile:
- The flexibility of pneumatic working ports provides a practical way of solving individual requirements
- Round silencer for ducted exhaust air
- Partially suitable for vacuum
- Partial reverse operation possible
- Actuation: direct and pilot operated
- Pressure range from vacuum to 10 bar possible
- Version as stem actuated valve, roller lever valve and roller lever valve with idle return

Operationally safe:
- Durable due to proven piston slide and disc seat valves
- Robust thanks to metal housing and connection thread or connector

Easy to assemble:
- To be mounted via through-holes (stem actuated valves are also suitable for front panel installation)
- Can be precisely adjusted with a mounting kit

Benefits:
- No electronic control required
- No programming effort
- Easy to adjust and connect
- Can be controlled and measured via sensors

Valve function

[M32]	3/2-way valve, normally closed or open

Mechanical spring
Vacuum operation possible
directly controlled and pneumatically pilot-operated
Reversible
Ducted exhaust air

[M52]	5/2-way valve, single solenoid/monostable

Pneumatic spring/mechanical spring
Vacuum operation possible
partially reversible
Pneumatically pilot operated
Ducted exhaust air

Actuation type

[S]	Stem actuated valve

3/2-way valve, monostable
5/2-way valve, monostable

[R]	Roller lever valve

3/2-way valve, monostable
5/2-way valve, monostable

[K]	Roller lever valve with idle return

3/2-way valve, monostable
5/2-way valve, monostable

[VB]	Swivel lever valve, double-sided

3/2-way valve, monostable
5/2-way valve, monostable

[VR]	Swivel lever valve, switching range right

3/2-way valve, monostable
5/2-way valve, monostable

[VL]	Swivel lever valve, switching range left

3/2-way valve, monostable
5/2-way valve, monostable

Type code

001	Series	
VMEF	Mechanically actuated valve	

002	Actuation type	
K	Roller lever valve with idle return	
R	Roller lever valve	
S	Stem actuated valve	
VB	Swivel lever valve, double-sided	
VL	Swivel lever valve, switching range left	
VR	Swivel lever valve, switching range right	

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	

Datasheet

General technical data						
Design	One-way roller lever, Piston gate valve	Piston gate valve	Piston gate valve, Roller lever	One-way roller lever, Poppet seat	Roller lever, Poppet seat	Poppet seat
Construction width	20 mm					
Type of piloting	Direct	Direct, Piloted	Direct			Direct, Piloted
Max. actuating speed with lateral actuation	0.7	–	1.4	0.7	1.4	–
Instructions on use	Risk of pinching	Do not use as a mechanical stop	Risk of pinching			Do not use as a mechanical stop
Type of actuation	Mechanical					
Type of mounting	With through-hole					
Sealing principle	Soft					
Flow direction	Reversible	Non-reversible, Reversible	Reversible			
Mounting position	Any					
Max. switching frequency	3 Hz					

Technical data – Stem actuated valve 3/2-way valves G1/4		
Pilot air supply	External	Internal
Valve function	3/2-way, single solenoid, closed	
Standard nominal flow rate (standardised to DIN 1343)	870 l/min	
lap	Zero lap	
Type of piloting	Piloted	
Type of reset	Mechanical spring	
Pilot air port 12/14	M5	
Nominal size	6 mm	
Actuating force	14 N	

Technical data – Stem actuated valve 3/2-way valves G1/8		
Pilot air supply	External	Internal
Valve function	3/2-way, single solenoid, closed	
Standard nominal flow rate (standardised to DIN 1343)	750 l/min	
lap	Zero lap	
Type of piloting	Piloted	
Type of reset	Mechanical spring	
Pilot air port 12/14	M5	
Nominal size	5.6 mm	
Actuating force	14 N	

Technical data – Stem actuated valve 5/2-way valves G1/4			
Pilot air supply	External		Internal
Type of reset	Mechanical spring	Pneumatic spring	Mechanical spring
Valve function	5/2-way, single solenoid		
Standard nominal flow rate (standardised to DIN 1343)	1,200 l/min		
lap	Overlap		
Type of piloting	Piloted		
Pilot air port 12/14	M5		
Nominal size	7 mm		
Actuating force	14 N		

Datasheet

Technical data – Roller lever valve 3/2-way valves G1/4		
Max. stroke limit (hard)	6.3 mm	11 mm
Standard nominal flow rate (standardised to DIN 1343)	870 l/min	
Valve function	3/2-way, single solenoid	
lap	Zero lap	
Type of reset	Mechanical spring	
Nominal size	6 mm	
Actuating force	35.2 N	32.7 N

Technical data – Roller lever valve 3/2-way valves G1/8		
Max. stroke limit (hard)	6.3 mm	11 mm
Standard nominal flow rate (standardised to DIN 1343)	750 l/min	
Valve function	3/2-way, single solenoid	
lap	Zero lap	
Type of reset	Mechanical spring	
Nominal size	5.6 mm	
Actuating force	35.2 N	32.7 N

Technical data – Roller lever valve 5/2-way valves G1/4			
Type of reset	Mechanical spring		Pneumatic spring
Max. stroke limit (hard)	11.6 mm	11.8 mm	11.6 mm
Standard nominal flow rate (standardised to DIN 1343)	1,200 l/min		
Valve function	5/2-way, single solenoid		
lap	Overlap		
Nominal size	7 mm		
Actuating force	38 N	23.5 N	38 N

Technical data – Roller lever valve 5/2-way valves G1/8		
Max. stroke limit (hard)	11.6 mm	11.8 mm
Standard nominal flow rate (standardised to DIN 1343)	750 l/min	
Valve function	5/2-way, single solenoid	
lap	Overlap	
Type of reset	Mechanical spring, Pneumatic spring	Mechanical spring
Nominal size	5.2 mm	
Actuating force	38 N	23.5 N

Technical data – Stem actuated valve 5/2-way valves G1/8			
Pilot air supply	External		Internal
Type of reset	Mechanical spring	Pneumatic spring	Mechanical spring
Valve function	5/2-way, single solenoid		
Standard nominal flow rate (standardised to DIN 1343)	750 l/min		
lap	Overlap		
Type of piloting	Piloted		
Pilot air port 12/14	M5		
Nominal size	5.2 mm		
Actuating force	14 N		

Datasheet

Operating and ambient conditions, stem actuated valve		
Pilot air supply	External	Internal
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]	
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)	
Operating pressure	-0.95 ... 10 bar	2.5 ... 10 bar
Operating pressure	-0.095 ... 1 MPa	0.25 ... 1 MPa
Pilot pressure	2.5 ... 10 bar	
Media temperature	-10 ... 60°C	
Ambient temperature	-10 ... 60°C	
Corrosion resistance class CRC [1)]	2 - Moderate corrosion stress	

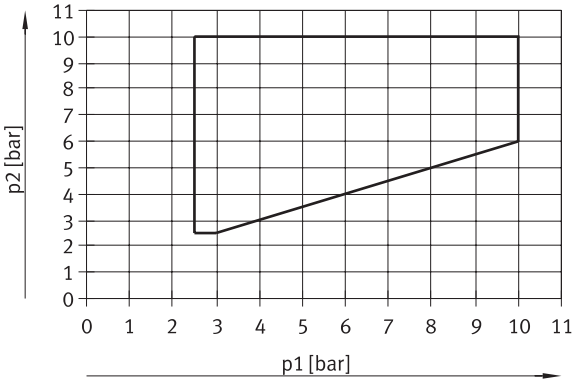
1) Corrosion resistance class CRC 2 to Festo standard FN 940070. Moderate corrosion stress. Indoor application where condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with a normal industrial environment.

Materials, stem actuated valve	
Material housing	Anodised wrought aluminium alloy
Material cover	Reinforced PA
Material mounting adaptor	–
Material seals	NBR
Note on materials	RoHS compliant

Materials, roller lever valve	
Material housing	Anodised wrought aluminium alloy
Material cover	Reinforced PA
Material mounting adaptor	Galvanised steel
Material seals	NBR
Note on materials	RoHS compliant

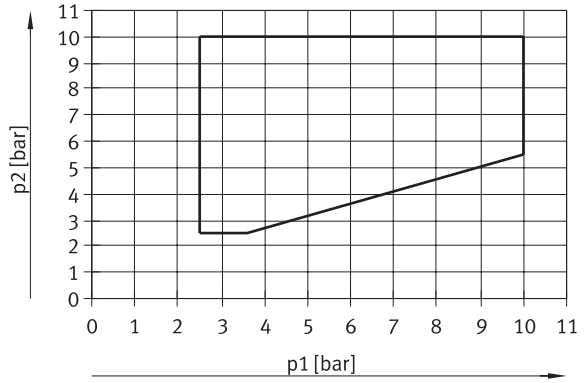
Materials, swivel lever valve	
Material housing	Anodised wrought aluminium alloy
Material cover	Reinforced PA
Material mounting adaptor	–
Material seals	NBR
Note on materials	RoHS compliant

Pilot pressure p2 as a function of external pneumatic spring pressure p1, for piston spool valves VMEF-...-M52...18



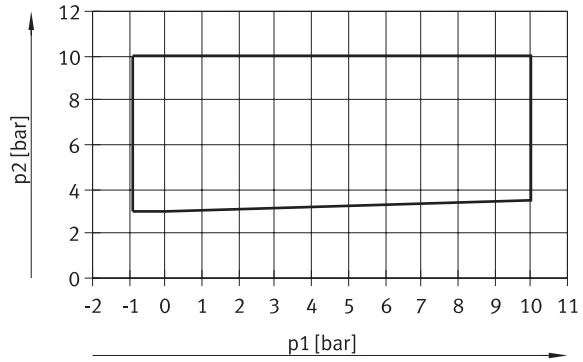
Datasheet

Pilot pressure p2 as a function of external pneumatic spring pressure p1, for piston spool valves VMEF-...-M52...14



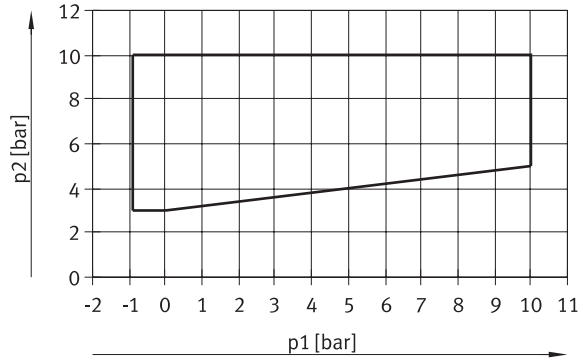
Pilot pressure p2 as a function of working pressure p1, for poppet seat valves VMEF-...-M32... (normally closed)

VMEF



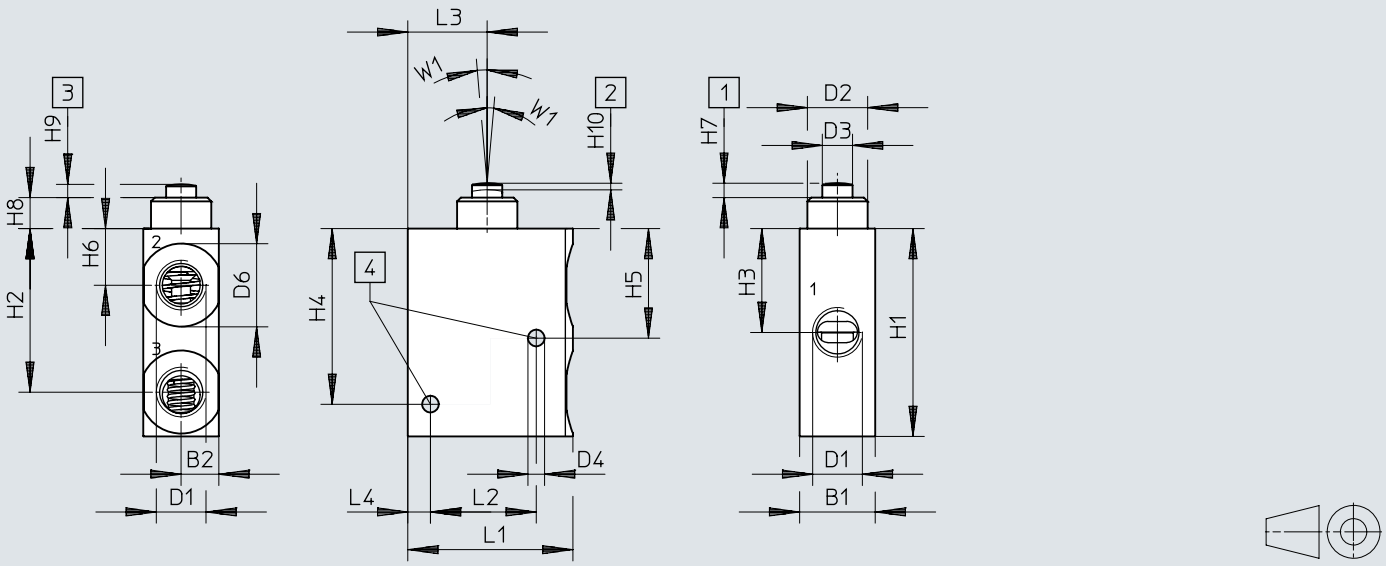
Pilot pressure p2 as a function of working pressure p1, for poppet seat valves VMEF-...-M32... (normally open)

VMEF-G18/G14



Dimensions

Dimensions – Stem actuated 3/2-way valve Download CAD data www.festo.com



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

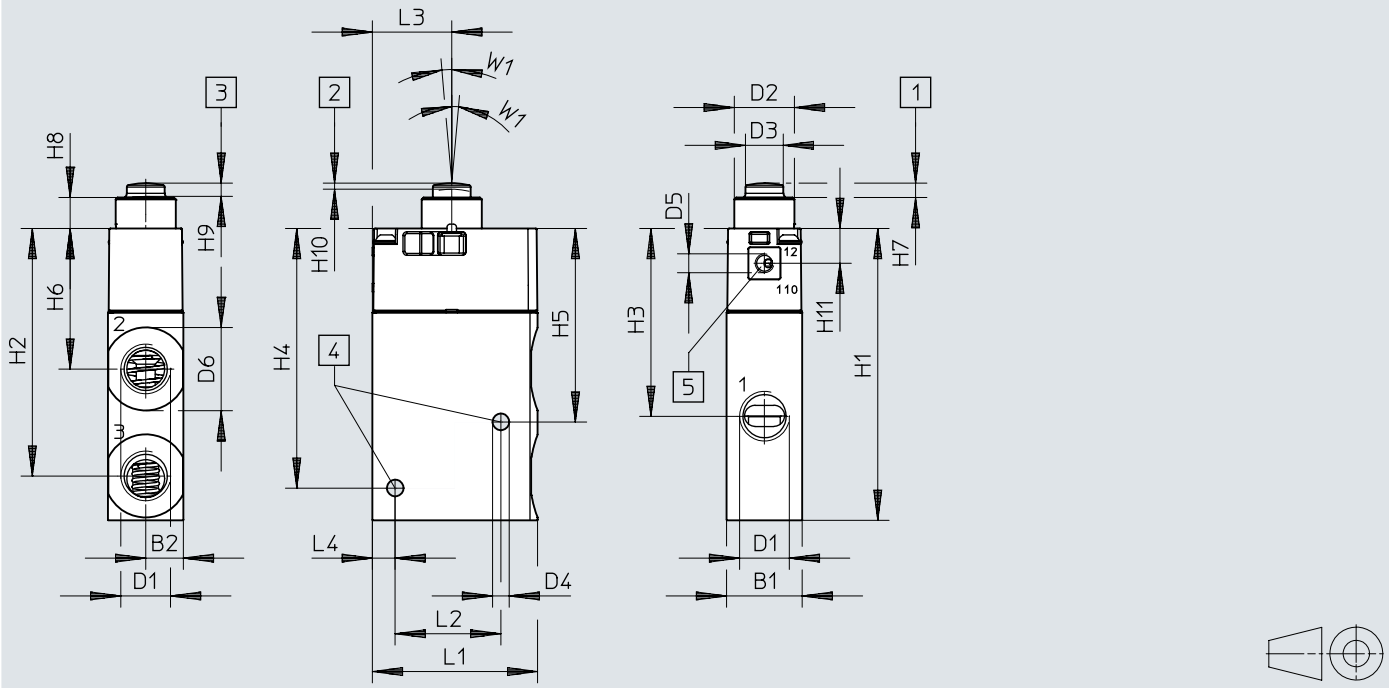
VMEF	B1	B2	D1	D2 ø	D3 ø	D4 ø	D6 ø	L1	L2	L3	L4
VMEF-ST-M32-M-G18	20	10	G1/8	16,0	8,0	4,4	16,5	43,7	28	21	6
VMEF-ST-M32-M-G14			G1/4				22				

VMEF	H1	H2	H3	H4	H5	H6	H7 ±0,2	H8	H9 ±0,3	H10 ±0,3	W1
VMEF-ST-M32-M-G18	55	43,3	27,5	46,5	29	15	3,8	8,2	3,5	1,8	5°
VMEF-ST-M32-M-G14											

Dimensions

Dimensions – Stem actuated 3/2-way valve and 3/2-way valve with external pilot air supply

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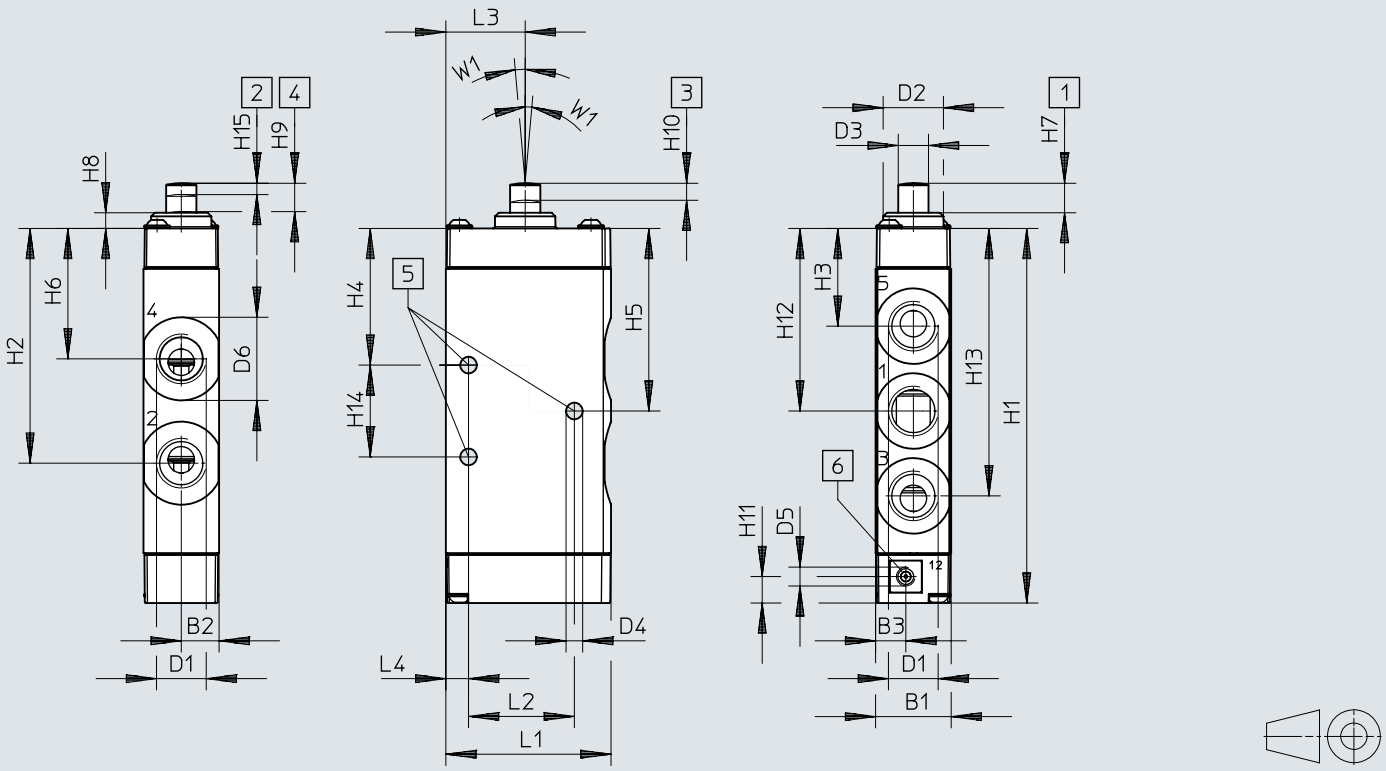
[1] Normal position
[2] Start of opening
[3] Maximum stroke
[4] Mounting hole
[5] Pilot air port 12 (110)

VMEF	B1	B2	D1	D2 ø	D3 ø	D4 ø	D5	D6 ø	L1	L2	L3	L4
VMEF-STC-M32-M-G18	20	10	G1/8	15,9	10	4,4	–	16,5	43,7	28	21	6
VMEF-STC-M32-M-G14			G1/4					22				
VMEF-STCZ-M32-M-G18			G1/8				M5	16,5				
VMEF-STCZ-M32-M-G14			G1/4					22				

VMEF	H1	H2	H3	H4	H5	H6	H7 ±0,15	H8	H9 ±0,15	H10 ±0,4	H11	W1
VMEF-STC-M32-M-G18	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-G14												
VMEF-STCZ-M32-M-G18												
VMEF-STCZ-M32-M-G14												

Dimensions

Dimensions – Stem actuated 5/2-way valve Download CAD data www.festo.com



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

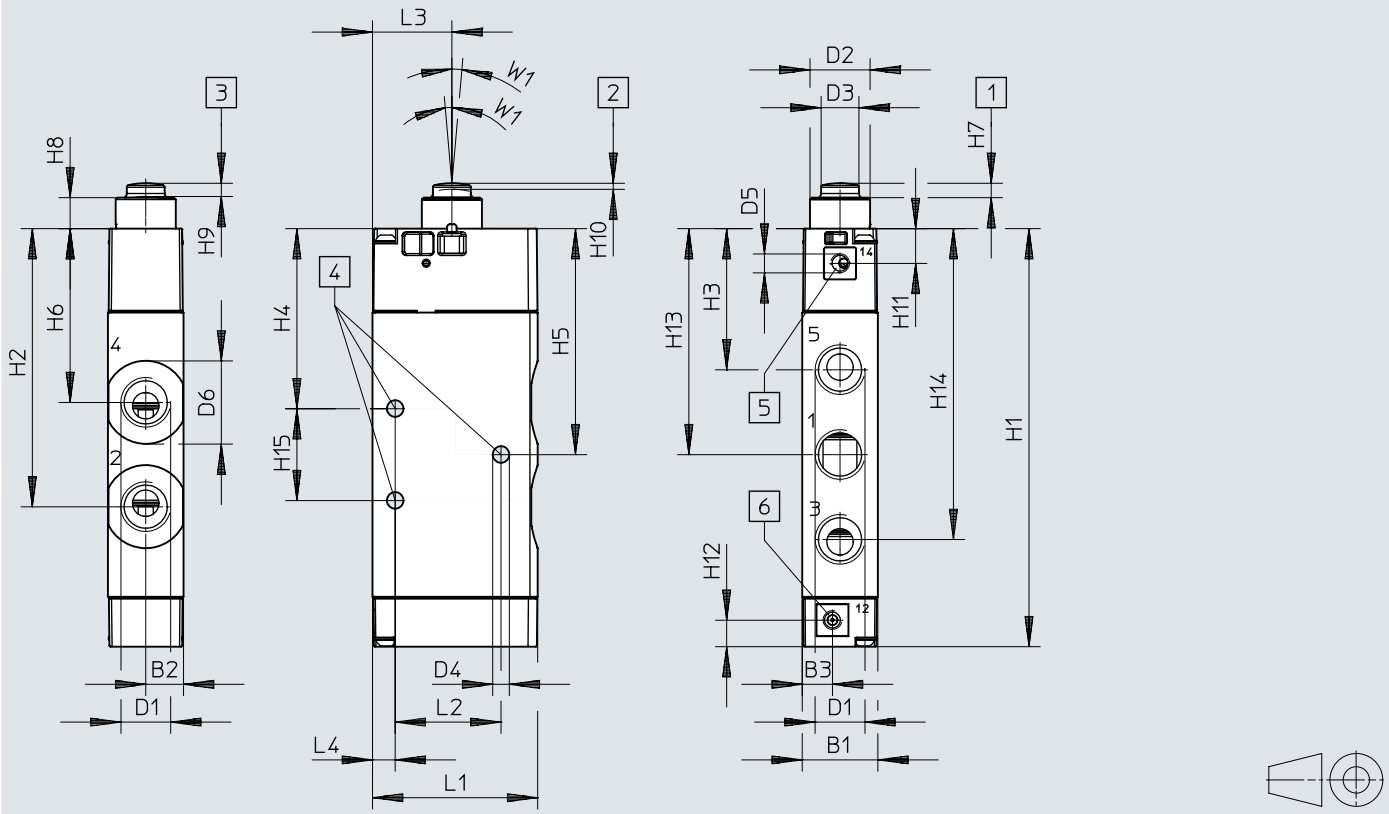
VMEF	B1	B2	B3	D1	D2 ø	D3 ø	D4 ø	D5	D6 ø	L1	L2	L3	L4	H1	H2
VMEF-S-M52-M-G18	20	10	8	G1/8	16	8	4,4	–	16,5	43,7	28	21	6	82,6	49,9
VMEF-S-M52-E-G18								M5							
VMEF-S-M52-M-G14				G1/4				–	22					99,1	62,1
VMEF-S-M52-E-G14								M5							

VMEF	H3	H4	H5	H6	H7 ±0,15	H8	H9 ±0,15	H10 ±0,15	H11	H12	H13	H14	H15 ±0,15	W1
VMEF-S-M52-M-G18	23,1	31,1	40,1	30,3	7,8	4,2	7,5	4,2	7	40,1	57,1	18	3	5°
VMEF-S-M52-E-G18														
VMEF-S-M52-M-G14	25,9	36,2	48,3	34,5				4,5		48,3	70,8	24,3		
VMEF-S-M52-E-G14														

Dimensions

Dimensions – Stem actuated 5/2-way valve and 5/2-way valve with external pilot air supply

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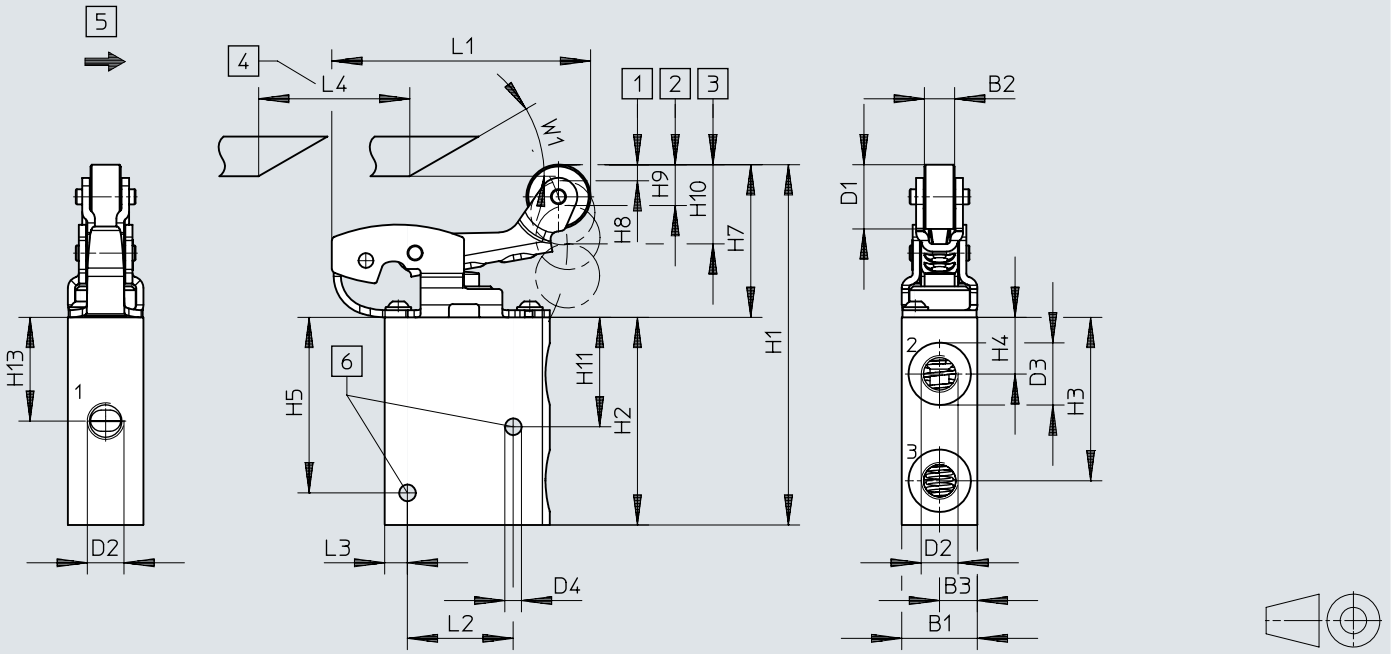
[1] Normal position
[2] Start of opening
[3] Maximum stroke
[4] Mounting hole
[5] Pilot air port 14
[6] Pilot air port 12

VMEF	B1	B2	B3	D1	D2 ø	D3 ø	D4 ø	D5	D6 ø	L1	L2	L3	L4
VMEF-SC-M52-M-G18	20	10	8	G1/8	15,9	10	4,4	–	16,5	43,7	28	21	6
VMEF-SCZ-M52-M-G18				G1/8				M5					
VMEF-SCZ-M52-E-G18				G1/8									
VMEF-SC-M52-M-G14				G1/4				–	22				
VMEF-SCZ-M52-M-G14				G1/4				M5					
VMEF-SCZ-M52-E-G14				G1/4									

VMEF	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-G18	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-G18																
VMEF-SCZ-M52-E-G18																
VMEF-SC-M52-M-G14	110,6	73,6	37,4	47,7	59,8	46							59,8	82,3	24,3	
VMEF-SCZ-M52-M-G14																
VMEF-SCZ-M52-E-G14																

Dimensions

Dimensions – Roller lever valve 3/2-way valve, roller lever Download CAD data www.festo.com



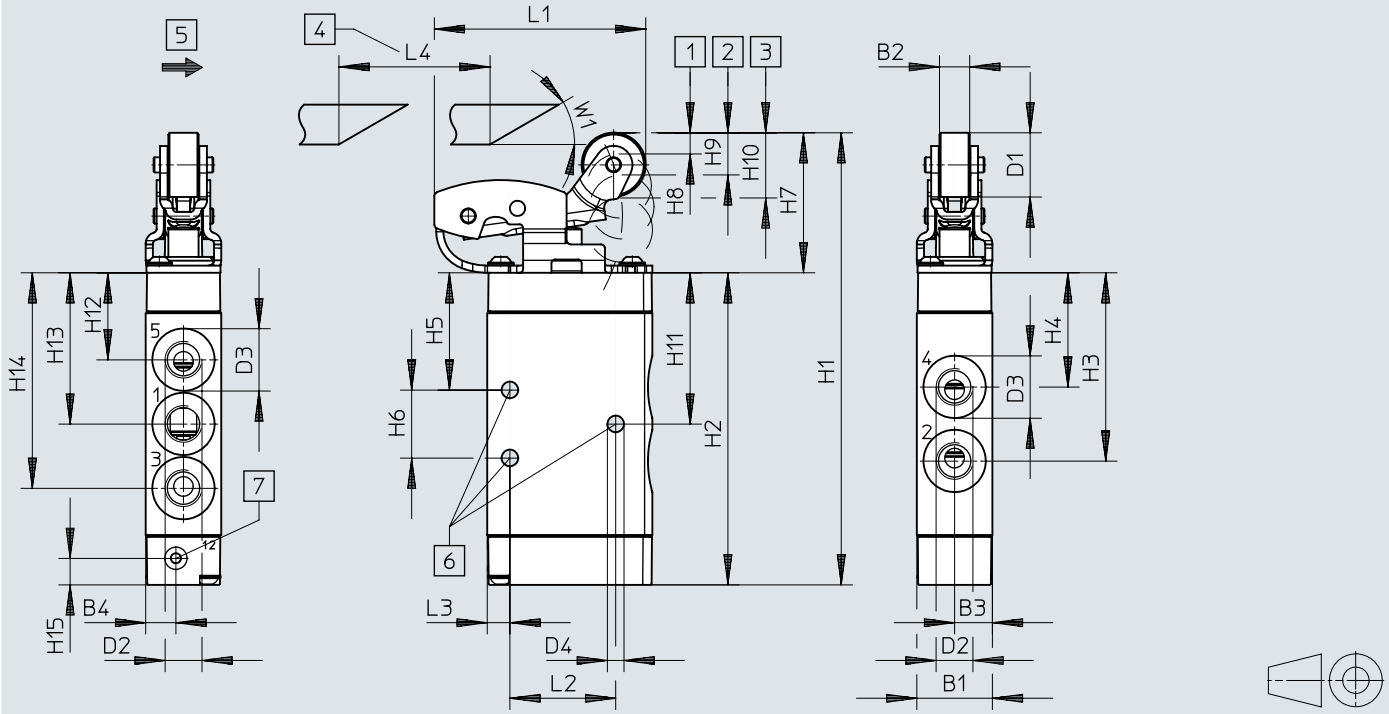
[1] Start of opening
[2] Max. opening
[3] Max. stroke
[4] Cam travel
[5] Actuation direction
[6] Mounting hole

	B1	B2	B3	D1 ø	D2	D3	D4 ø	L1	L2	L3	L4 min.
VMEF-RT-M32-M-G18	20	8	10	17	G1/8	16,5	4,4	68,5	28	6	40
VMEF-RT-M32-M-G14					G1/4	22					

	H1	H2	H3	H4	H5	H7	H8	H9	H10	H11	H13	W1
VMEF-RT-M32-M-G18	91,9	55	43,3	15	46,5	39	5,3	6,3	10,2	29	27,5	30°
VMEF-RT-M32-M-G14												

Dimensions

Dimensions – Roller lever valve 5/2-way valve, roller lever Download CAD data www.festo.com



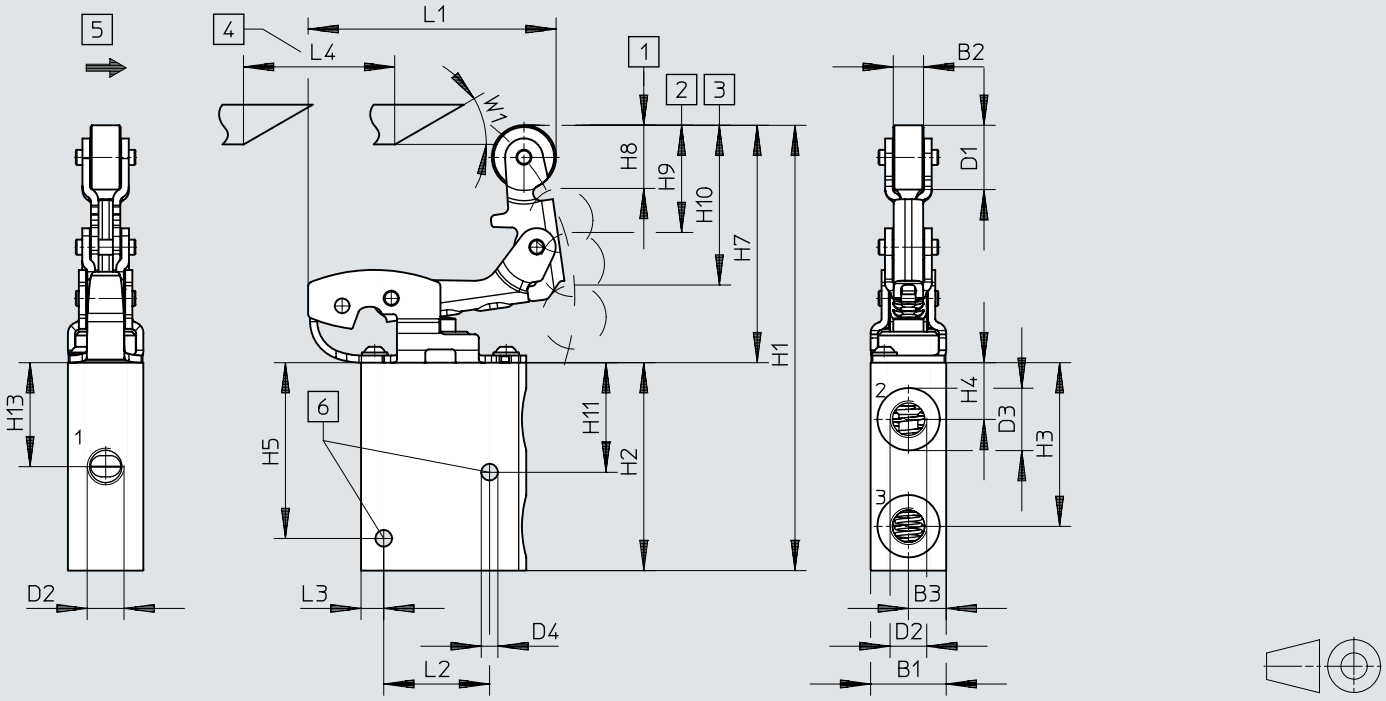
[1] Start of closing
[2] Start of opening
[3] Max. stroke
[4] Cam travel
[5] Actuation direction
[6] Mounting hole
[7] Pilot air port 12

	B1	B2	B3	B4	D1 ø	D2	D3	D4	L1	L2	L3	L4 min.	H1	H2
VMEF-R-M52-...G18	20	8	10	8	17	G1/8	16,5	4,4	56	28	6	40	119,6	82,6
VMEF-R-M52-...G14						G1/4	22						136,1	99,1

	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12	H13	H14	H15	W1
VMEF-R-M52-...G18	49,9	30,3	31,1	18	37	5	7	11	40,1	23,1	40,1	57,1	7	30°
VMEF-R-M52-...G14	62,1	34,5	36,2	24,3					48,3	25,9	48,3	70,8		

Dimensions

Dimensions – Roller lever valve 3/2-way valve, roller lever with idle return Download CAD data www.festo.com



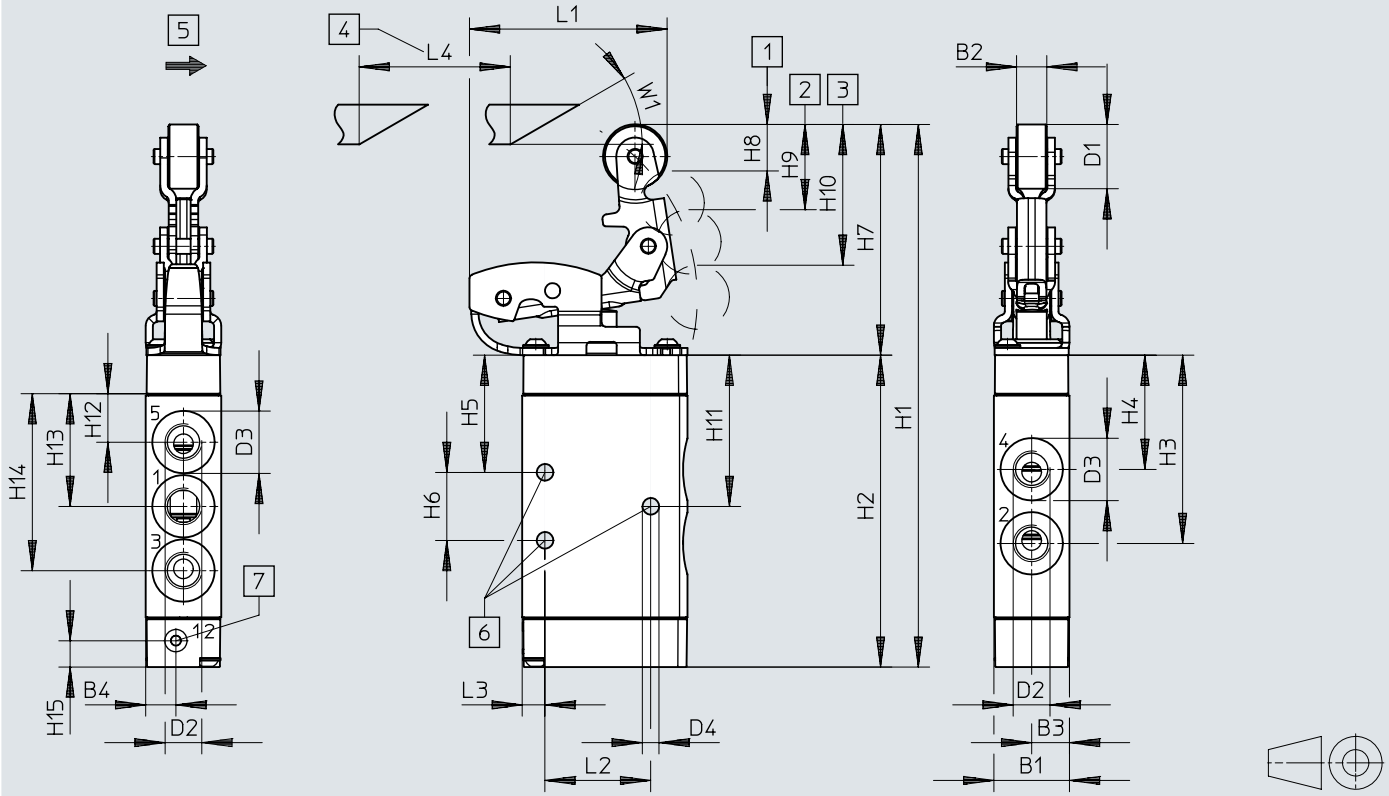
[1] Start of closing
[2] Start of opening
[3] Max. stroke
[4] Cam travel
[5] Actuation direction
[6] Mounting hole

VMEF	B1	B2	B3	D1 ø	D2	D3	D4 ø	L1	L2	L3	L4 min.
VMEF-KT-M32-M-G18	20	8	10	17	G1/8	16,5	4,4	65,6	28	6	40
VMEF-KT-M32-M-G14					G1/4	22					

VMEF	H1	H2	H3	H4	H5	H7	H8	H9	H10	H11	H13	W1
VMEF-KT-M32-M-G18	117,2	55	43,3	15	46,5	62	6	6	10	29	27,5	30°
VMEF-KT-M32-M-G14												

Dimensions

Dimensions – Roller lever valve 5/2-way valve, roller lever with idle return Download CAD data www.festo.com



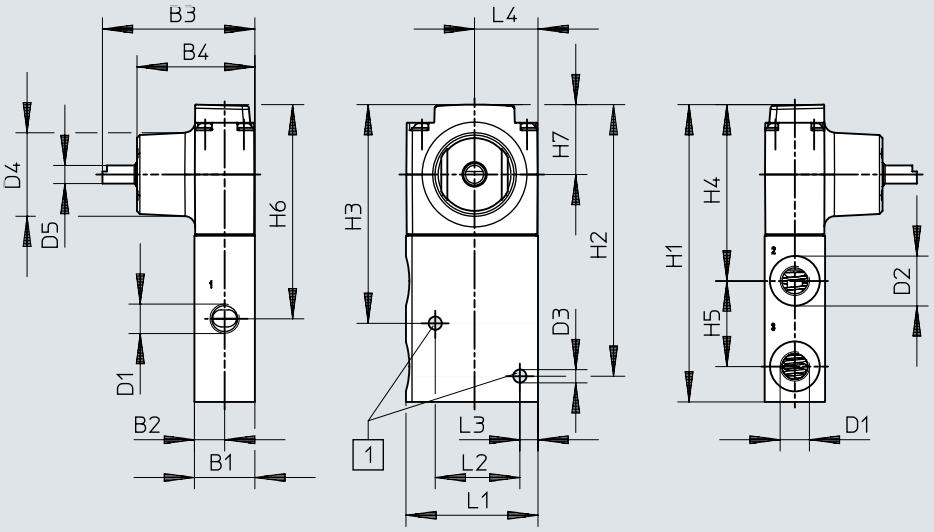
[1] Start of opening
[2] Max. opening
[3] Max. stroke
[4] Cam travel
[5] Actuation direction
[6] Mounting hole
[7] Pilot air port 12

VMEF	B1	B2	B3	B4	D1 ø	D2	D3	D4	L1	L2	L3	L4 min.	H1	H2
VMEF-K-M52-...G18	20	8	10	8	17	G1/8	16,5	4,4	52,4	28	6	40	143,5	82,6
VMEF-K-M52-...G14						G1/4	22						160	99,1

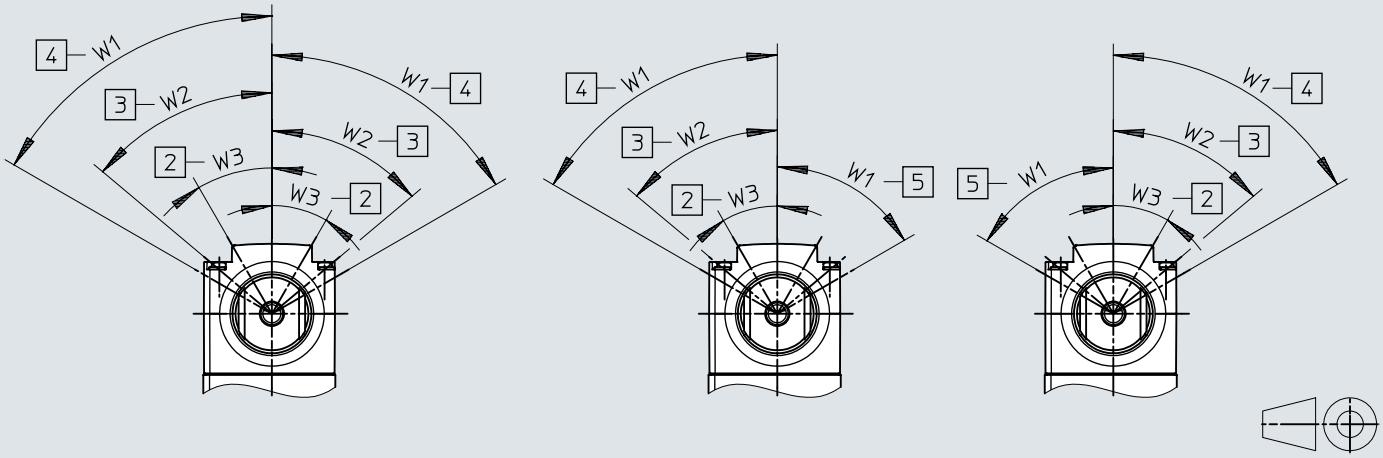
VMEF	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12	H13	H14	H15	W1
VMEF-K-M52-...G18	49,9	30,3	31,1	18	61	7	5	11	40,1	23,1	40,1	57,1	7	30°
VMEF-K-M52-...G14	62,1	34,5	36,2	24,3					48,3	25,9	48,3	70,8		

Dimensions

Dimensions – Swivel lever valve 3/2-way valve Download CAD data www.festo.com



VMEF-VBT-... VMEF-VLT-... VMEF-VRT-...



[1] Mounting holes
[2] Start of the opening
[3] Max. opening
[4] Flashover
[5] Idling

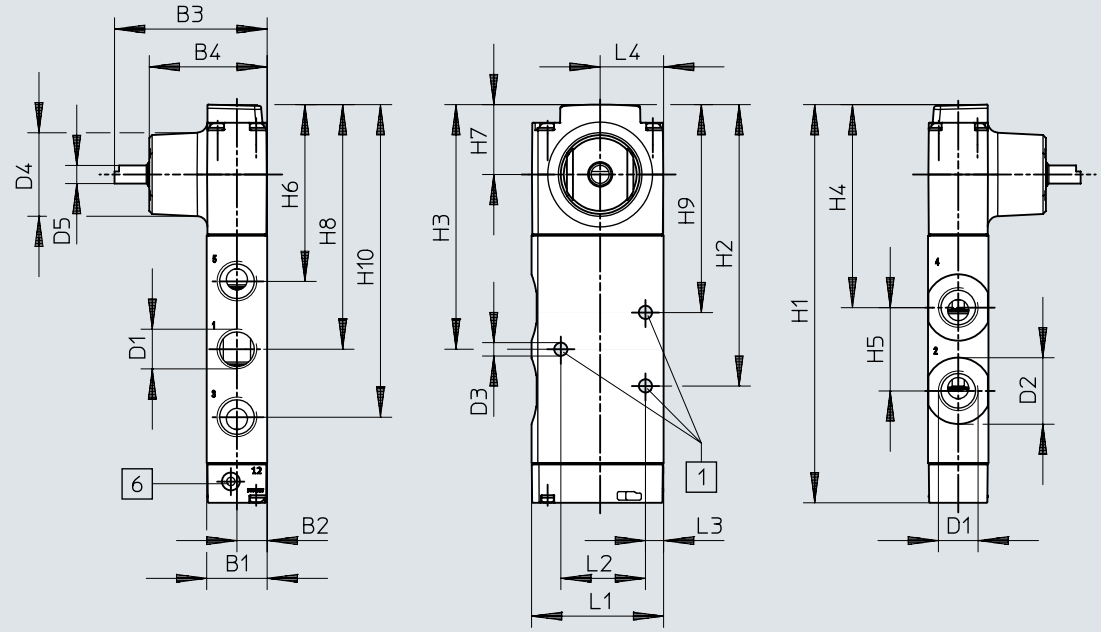
Dimensions

	B1	B2	B3	B4	D1	D2 ø	D3 ø	D4 ø	D5 ø	H1	H2	H3
VMEF-VBT-M32-M-G18	20	10	50,4	39	G1/8	16,5	4,4	27,7	6	98,4	89,9	72,4
VMEF-VBT-M32-M-G14					G1/4	22						
VMEF-VLT-M32-M-G18					G1/8	16,5						
VMEF-VLT-M32-M-G14					G1/4	22						
VMEF-VRT-M32-M-G18					G1/8	16,5						
VMEF-VRT-M32-M-G14					G1/4	22						

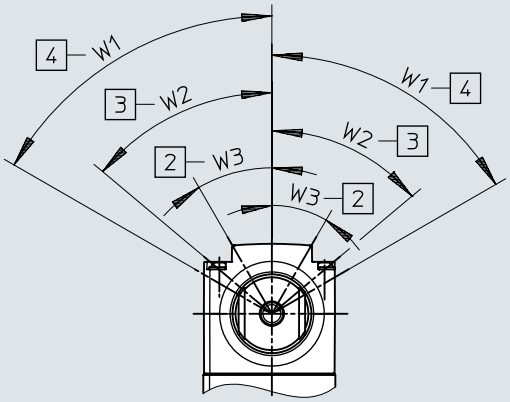
	H4	H5	H6	H7	L1	L2	L3	L4	W1	W2	W3
VMEF-VBT-M32-M-G18	58,4	28,3	70,9	23,1	43,7	28	6	21	60°	50°	30°
VMEF-VBT-M32-M-G14											
VMEF-VLT-M32-M-G18											
VMEF-VLT-M32-M-G14											
VMEF-VRT-M32-M-G18											
VMEF-VRT-M32-M-G14											

Dimensions

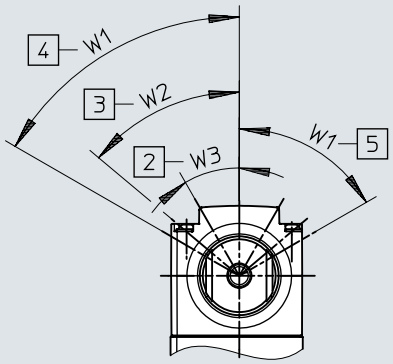
Dimensions – Swivel lever valve 5/2-way valve Download CAD data www.festo.com



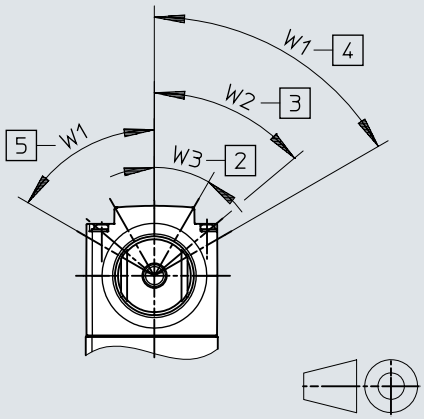
VMEF-VB-...



VMEF-VL-...



VMEF-VR-...



[1] Mounting holes
[2] Start of the opening
[3] Max. opening
[4] Flashover
[5] Idling
[6] Pilot air port 12

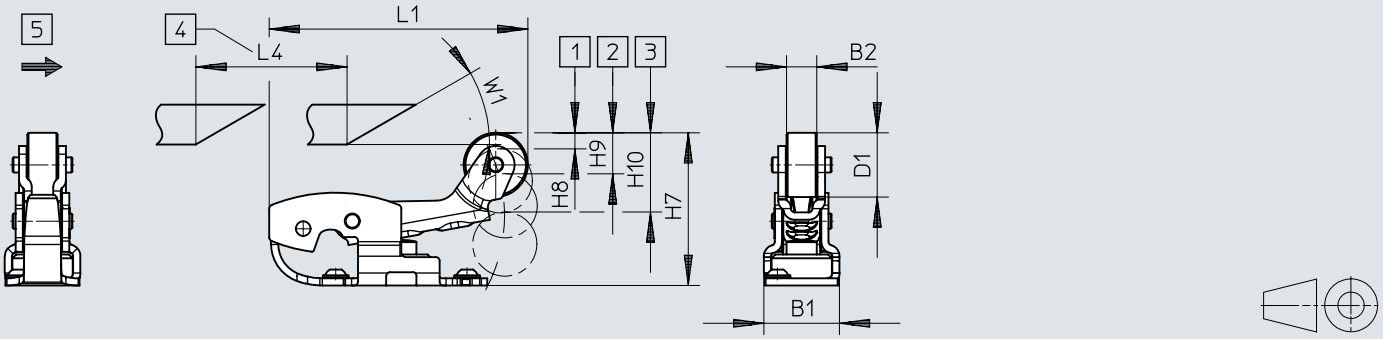
Dimensions

	B1	B2	B3	B4	D1	D2 ø	D3 ø	D4 ø	D5 ø	H1	H2	H3	H4
VMEF-VB-M52-M-G18	20	10	50,5	39	G1/8	16,5	4,4	27,7	6	115,3	81,7	72,7	62,9
VMEF-VL-M52-M-G18					G1/8								
VMEF-VR-M52-M-G18					G1/8								
VMEF-VB-M52-M-G14					G1/4	22				131,8	93,1	81	67,2
VMEF-VL-M52-M-G14					G1/4								
VMEF-VR-M52-M-G14					G1/4								

	H5	H6	H7	H8	H9	H10	L1	L2	L3	L4	W1	W2	W3
VMEF-VB-M52-M-G18	19,6	55,7	23,1	72,7	63,7	89,7	43,7	28	6	21	60°	50°	30°
VMEF-VL-M52-M-G18													
VMEF-VR-M52-M-G18													
VMEF-VB-M52-M-G14	27,6	58,5	23,1	81	68,8	103,5	43,7	28	6	21	60°	50°	30°
VMEF-VL-M52-M-G14													
VMEF-VR-M52-M-G14													

Dimensions

Dimensions – Actuator attachments VAOM, roller lever for 3/2-way valves Download CAD data www.festo.com

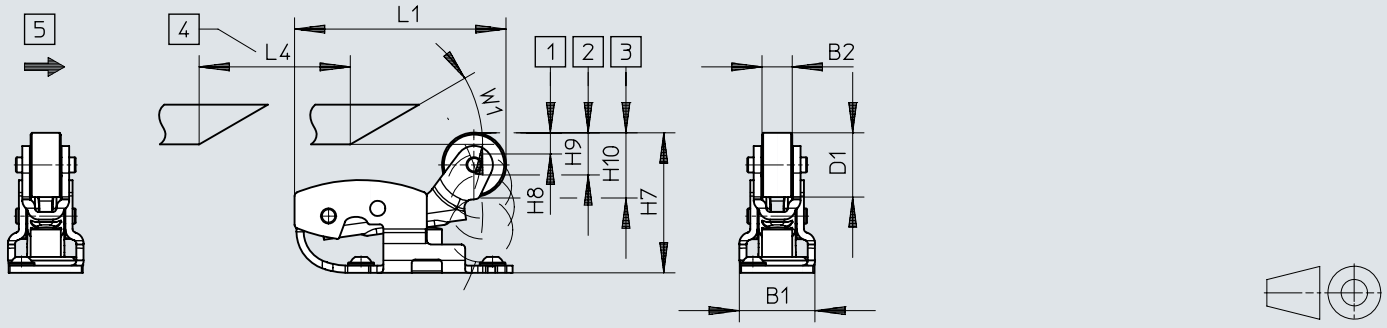


[1] Start of opening
[2] Max. opening
[3] Max. stroke
[4] Cam travel
[5] Actuation direction

VAOM	B1	B2	D1 ø	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°

Dimensions

Dimensions – Actuator attachments VAOM, roller lever for 5/2-way valves Download CAD data www.festo.com



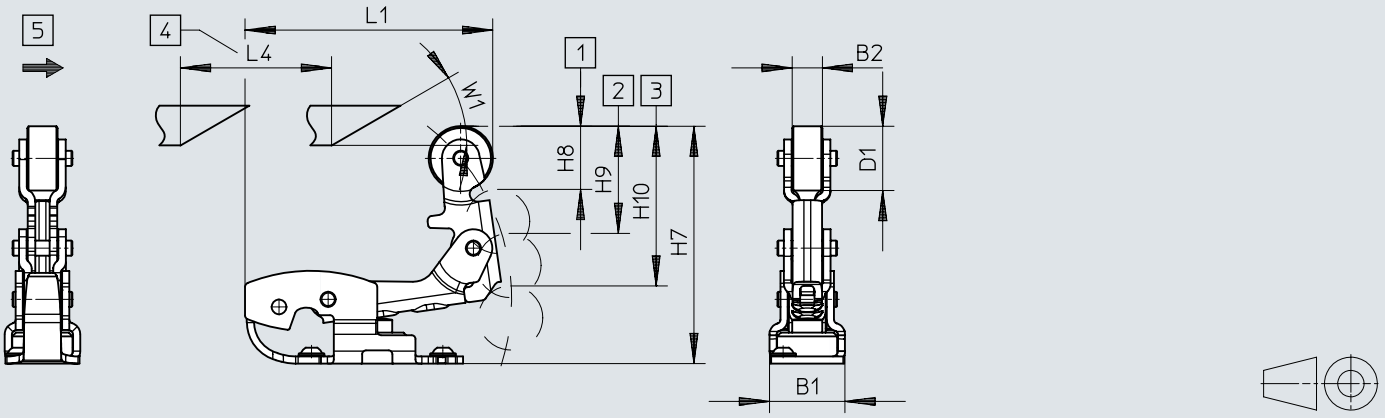
[1] Start of opening
[2] Max. opening
[3] Max. stroke
[4] Cam travel
[5] Actuation direction

VAOM	B1	B2	D1 ø	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°

Dimensions

Dimensions – Actuator attachments VAOM, roller lever with idle return for 3/2-way valves

Download CAD data www.festo.com



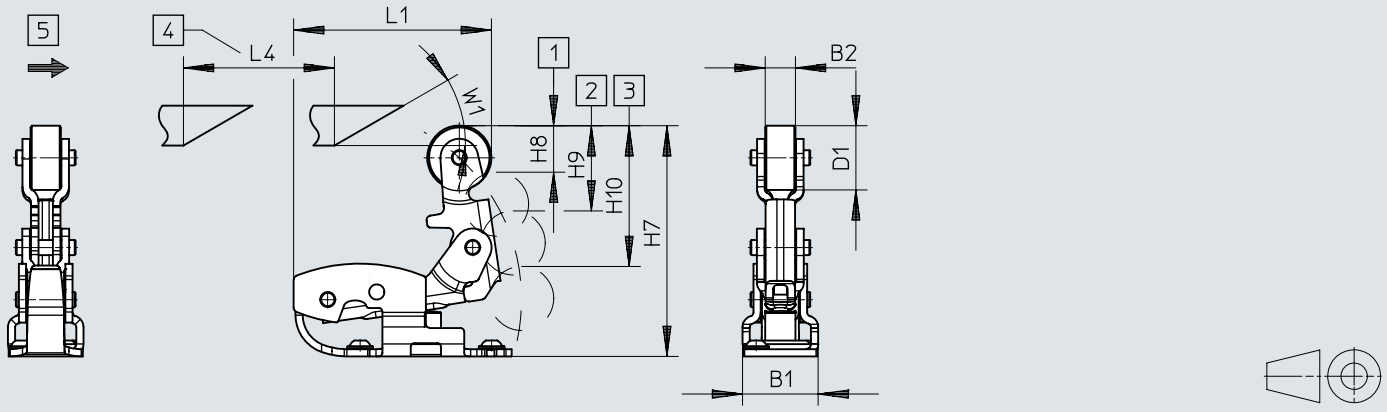
[1] Start of opening
[2] Max. opening
[3] Max. stroke
[4] Cam travel
[5] Actuation direction

VAOM	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°

Dimensions

Dimensions – Actuator attachments VAOM, roller lever with idle return for 5/2-way valves

Download CAD data www.festo.com

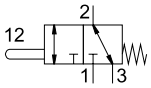


[1] Start of opening
[2] Max. opening
[3] Max. stroke
[4] Cam travel
[5] Actuation direction

VAOM	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°

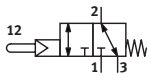
Ordering data

Stem actuated valve, 3/2-way valve, monostable, normally closed or open, reset via mechanical spring, vacuum compatible



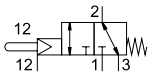
Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Direct	Reversible	Poppet seat	110 g	**8031300**	**VMEF-ST-M32-M-G14**
			116 g	**8031295**	**VMEF-ST-M32-M-G18**

Stem actuated valve, 3/2-way valve, monostable, normally closed or open, reset via mechanical spring, pneumatically pilot controlled, internal pilot air



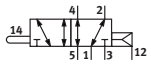
Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Piloted	Reversible	Poppet seat	124 g	**8031332**	**VMEF-STC-M32-M-G14**
			131 g	**8031331**	**VMEF-STC-M32-M-G18**

Stem actuated valve, 3/2-way valve, monostable, normally closed or open, reset via mechanical spring, pneumatically pilot controlled, external pilot air



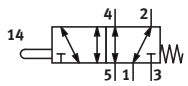
Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Piloted	Reversible	Poppet seat	124 g	**8031336**	**VMEF-STCZ-M32-M-G14**
			131 g	**8031335**	**VMEF-STCZ-M32-M-G18**

Stem actuated valve, 5/2-way valve, monostable, normally closed or open position, reset via (external) pneumatic spring, vacuum compatible



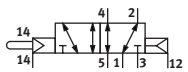
Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Direct	Reversible	Piston gate valve	144 g	**8031299**	**VMEF-S-M52-E-G18**
			177 g	**8031304**	**VMEF-S-M52-E-G14**

Stem actuated valve, 5/2-way valve, monostable, normally closed or open, reset via mechanical spring, vacuum compatible



Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Direct	Reversible	Piston gate valve	145 g	**8031297**	**VMEF-S-M52-M-G18**
			178 g	**8031302**	**VMEF-S-M52-M-G14**

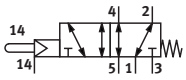
Stem actuated valve, 5/2-way valve, monostable, reset via pneumatic spring, pneumatically pilot controlled, external pilot air, vacuum-compatible



Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Piloted	Reversible	Piston gate valve	150 g	**8031324**	**VMEF-SCZ-M52-E-G18**
			183 g	**8031323**	**VMEF-SCZ-M52-E-G14**

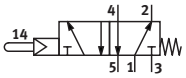
Ordering data

Stem actuated valve, 5/2-way valve, monostable, reset via mechanical spring, pneumatically pilot controlled, external pilot air, vacuum compatible



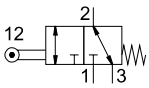
Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Piloted	Reversible	Piston gate valve	151 g	**8031328**	**VMEF-SCZ-M52-M-G18**
			184 g	**8031327**	**VMEF-SCZ-M52-M-G14**

Stem actuated valve, 5/2-way valve, monostable, reset via mechanical spring, pneumatically pilot controlled, internal pilot air



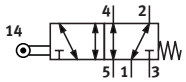
Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Piloted	Non-reversible	Piston gate valve	151 g	**8031320**	**VMEF-SC-M52-M-G18**
			184 g	**8031319**	**VMEF-SC-M52-M-G14**

Roller lever valve, 3/2-way valve, monostable, normally closed or open, reset via mechanical spring, directly controlled, vacuum compatible



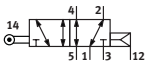
Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Direct	Reversible	Roller lever, Poppet seat	204 g	**8047095**	**VMEF-RT-M32-M-G14**
			209 g	**8049239**	**VMEF-RT-M32-M-G18**

Roller lever valve, 5/2-way valve, monostable, reset via mechanical spring, directly controlled, vacuum compatible



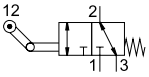
Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Direct	Reversible	Piston gate valve, Roller lever	240 g	**8049238**	**VMEF-R-M52-M-G18**
			272 g	**8047094**	**VMEF-R-M52-M-G14**

Roller lever valve, 5/2-way valve, monostable, reset via (external) pneumatic spring, directly controlled, vacuum compatible



Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Direct	Reversible	Piston gate valve, Roller lever	240 g	**8047092**	**VMEF-R-M52-E-G18**
			272 g	**8047093**	**VMEF-R-M52-E-G14**

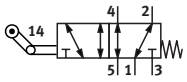
Roller lever valve with idle return, 3/2-way valve, monostable, normally closed or open, reset via mechanical spring, directly controlled, vacuum compatible



Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Direct	Reversible	One-way roller lever, Poppet seat	218 g	**8047103**	**VMEF-KT-M32-M-G14**
			227 g	**8049241**	**VMEF-KT-M32-M-G18**

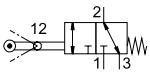
Ordering data

Roller lever valve with idle return, 5/2-way valve, monostable, reset via mechanical spring, directly controlled, vacuum compatible



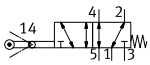
Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Direct	Reversible	One-way roller lever, Piston gate valve	255 g	**8049240**	**VMEF-K-M52-M-G18**
			286 g	**8047102**	**VMEF-K-M52-M-G14**

Swivel lever valve, switching range on both sides, poppet valve, 3/2-way valve, monostable, closed or open rest position, reset via mechanical spring



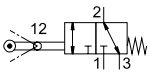
Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Direct	Reversible	Quarter turn actuator, Poppet seat	178 g	**8048967**	**VMEF-VBT-M32-M-G18**
				8048968	**VMEF-VBT-M32-M-G14**

Swivel lever valve, switching range on both sides, 5/2-way valve, monostable, normally closed or open, reset via mechanical spring



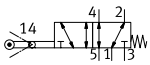
Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Direct	Reversible	Piston gate valve, Quarter turn actuator	207 g	**8048969**	**VMEF-VB-M52-M-G18**
			238 g	**8048970**	**VMEF-VB-M52-M-G14**

Swivel lever valve, switching range right, poppet valve, 3/2-way valve, monostable, closed or open rest position, reset via mechanical spring



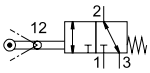
Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Direct	Reversible	Quarter turn actuator, Poppet seat	178 g	**8048971**	**VMEF-VRT-M32-M-G18**
				8048972	**VMEF-VRT-M32-M-G14**

Swivel lever valve, switching range right, 5/2-way valve, monostable, normally closed or open, reset via mechanical spring



Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Direct	Reversible	Piston gate valve, Quarter turn actuator	207 g	**8048973**	**VMEF-VR-M52-M-G18**
			238 g	**8048974**	**VMEF-VR-M52-M-G14**

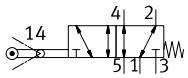
Swivel lever valve, switching range left, poppet valve, 3/2-way valve, monostable, closed or open rest position, reset via mechanical spring



Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Direct	Reversible	Quarter turn actuator, Poppet seat	178 g	**8048976**	**VMEF-VLT-M32-M-G14**
				8048975	**VMEF-VLT-M32-M-G18**

Ordering data

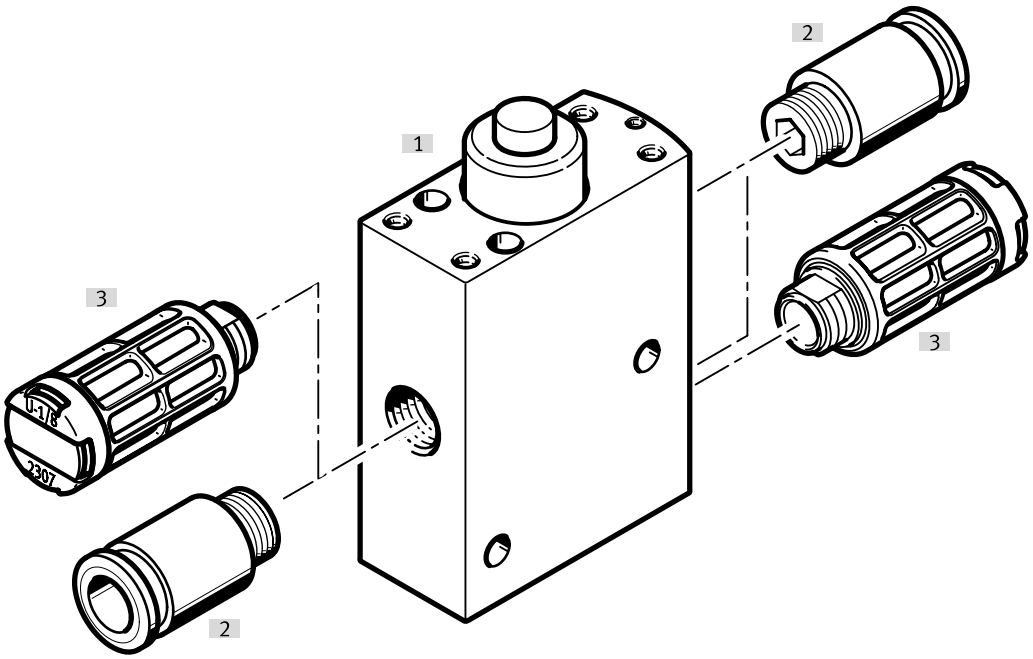
Swivel lever valve, switching range left, 5/2-way valve, monostable, normally closed or open, reset via mechanical spring



Type of piloting	Flow direction	Design	Product weight	Part no.	Type
Direct	Reversible	Piston gate valve, Quarter turn actuator	207 g	**8048977**	**VMEF-VL-M52-M-G18**
			238 g	**8048978**	**VMEF-VL-M52-M-G14**

Peripherals

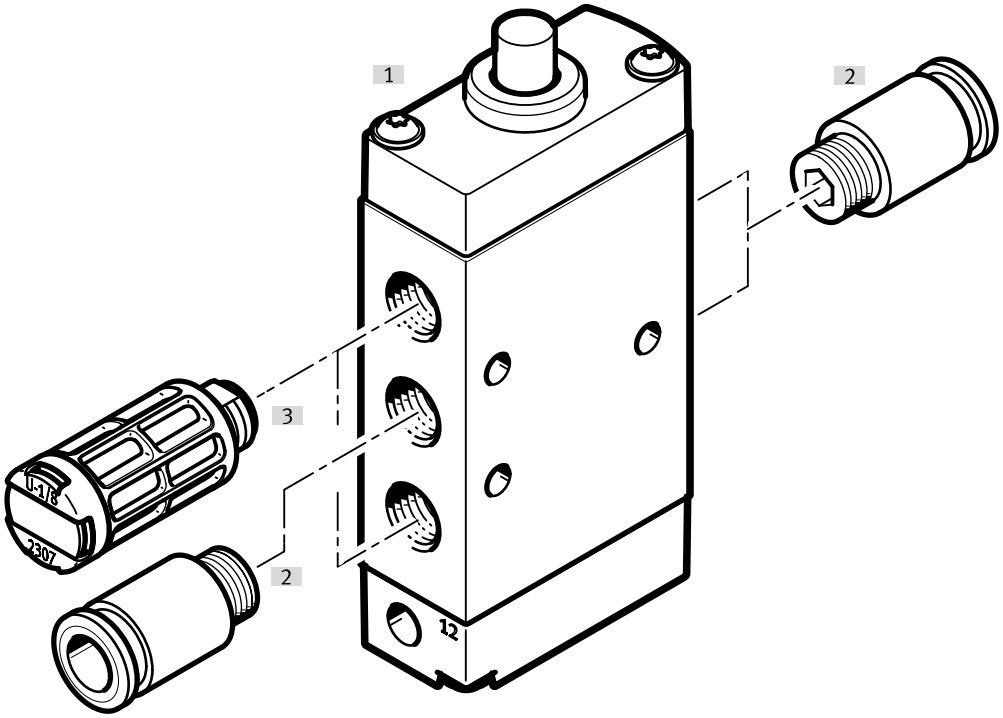
Peripherals overview, stem actuated valve 3/2



Accessories			→ Link
	Type/order code	Description	
[1]	3/2-way valve	Stem actuated valve	vmef
[2]	Fitting	For working air/exhaust air connections (1, 3, 5) and working connections (2, 4)	37
[3]	Silencer	For exhaust air connections (3, 5)	37

Peripherals

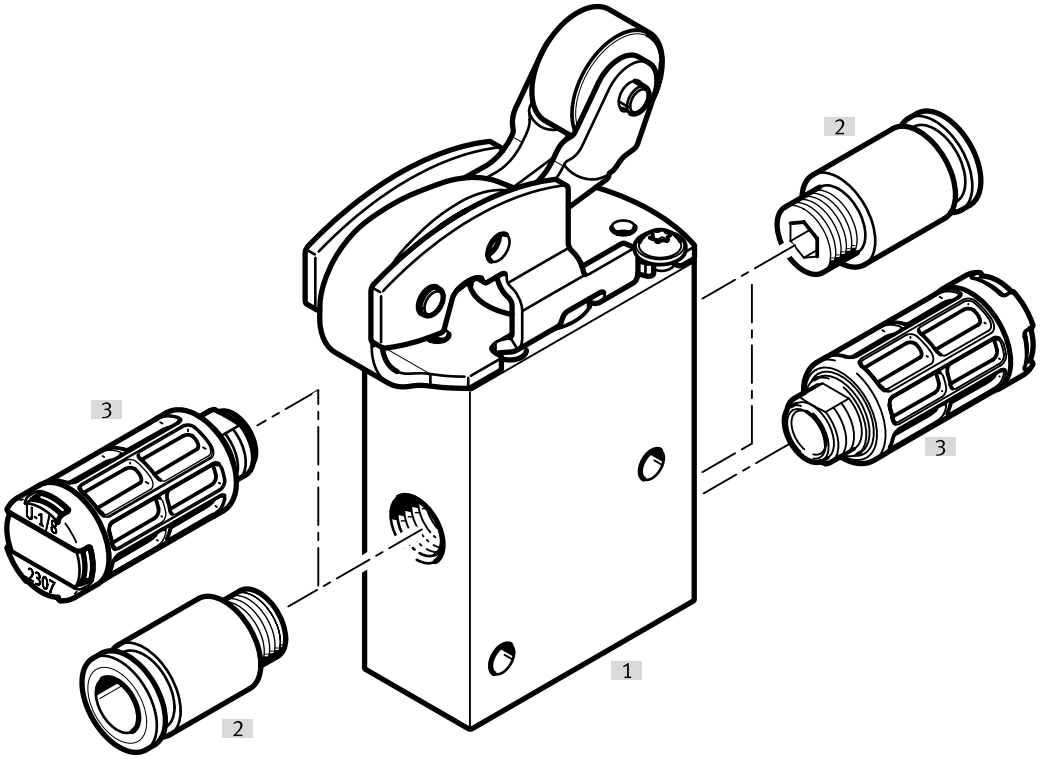
Peripherals overview, stem actuated valve 5/2



Accessories			→ Link
	Type/order code	Description	
[1]	5/2-way valve	Stem actuated valve	vmef
[2]	Fitting	For working air/exhaust air connections (1, 3, 5) and working connections (2, 4)	37
[3]	Silencer	For exhaust air connections (3, 5)	37

Peripherals

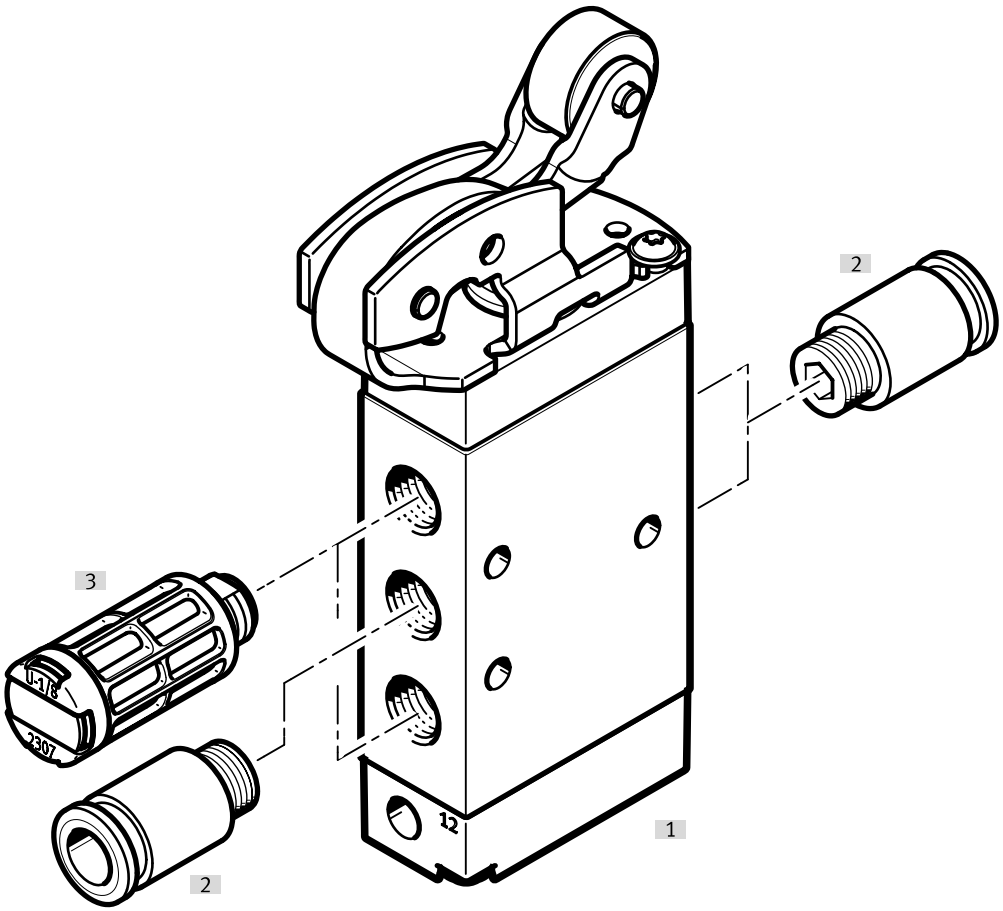
Peripherals overview, roller lever valve 3/2



Accessories			→ Link
	Type/order code	Description	
[1]	3/2-way valve	Stem actuated valve with roller lever attachment	vmef
[2]	Fitting	For working air/exhaust air connections (1, 3, 5) and working connections (2, 4)	37
[3]	Silencer	For exhaust air connections (3, 5)	37

Peripherals

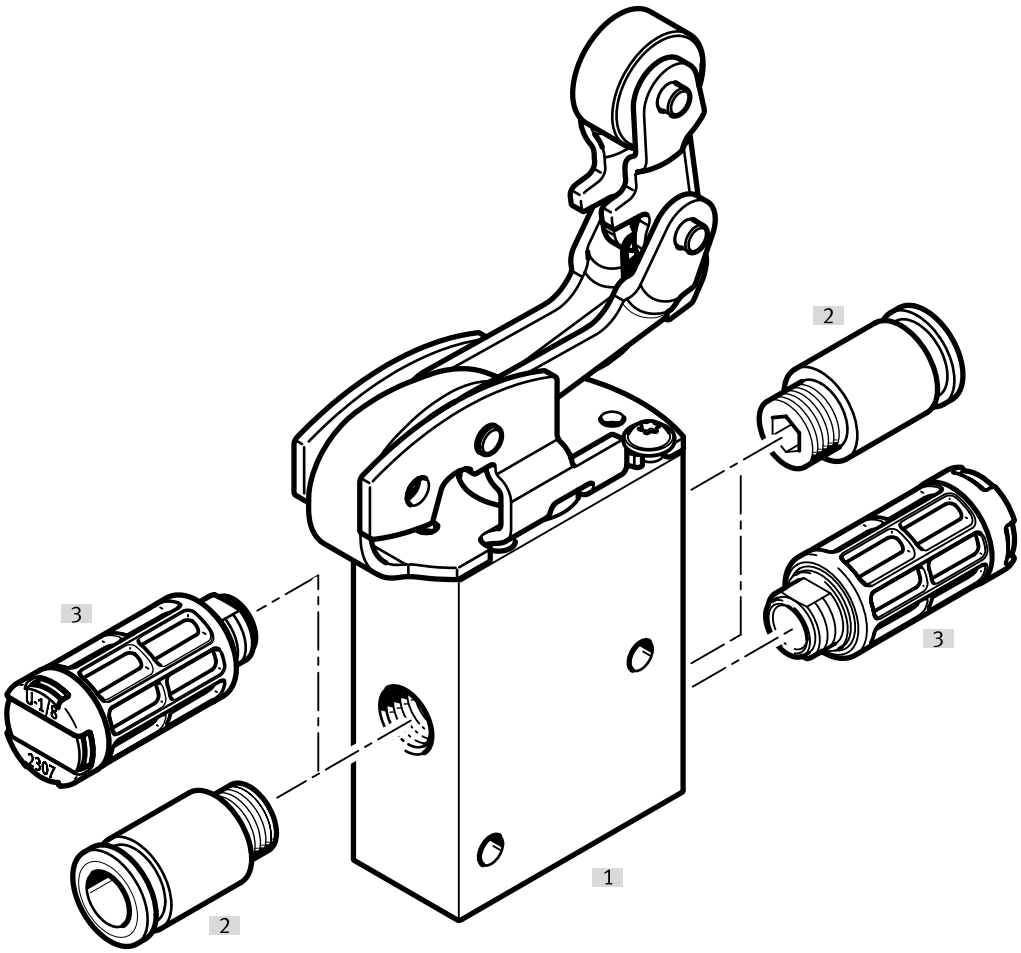
Peripherals overview, roller lever valve 5/2



Accessories			→ Link
	Type/order code	Description	
[1]	5/2-way valve	Stem actuated valve with roller lever attachment	vmef
[2]	Fitting	For working air/exhaust air connections (1, 3, 5) and working connections (2, 4)	37
[3]	Silencer	For exhaust air connections (3, 5)	37

Peripherals

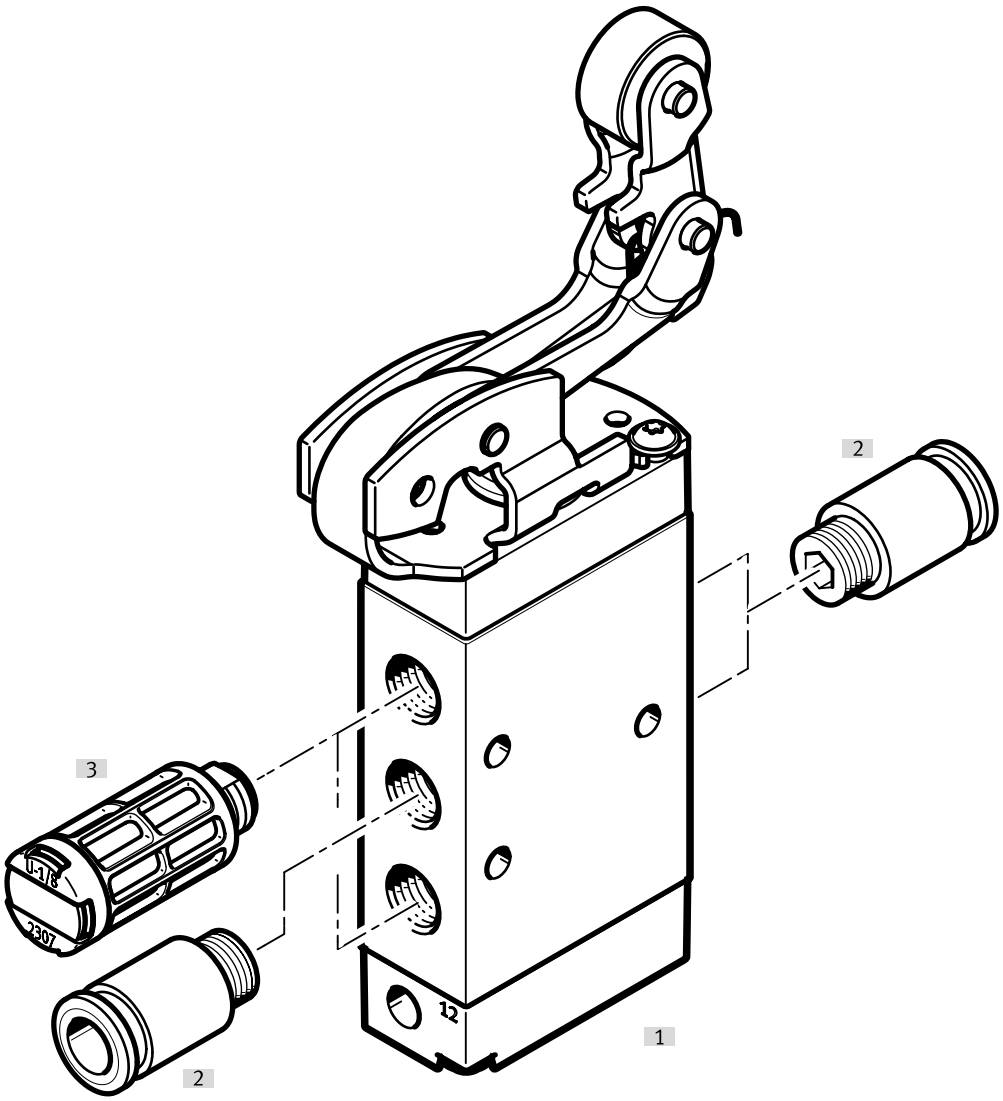
Peripherals overview, roller lever valve with idle return 3/2



Accessories			→ Link
	Type/order code	Description	
[1]	3/2-way valve	Stem actuated valve with idle return roller lever attachment	vmef
[2]	Fitting	For working air/exhaust air connections (1, 3, 5) and working connections (2, 4)	37
[3]	Silencer	For exhaust air connections (3, 5)	37

Peripherals

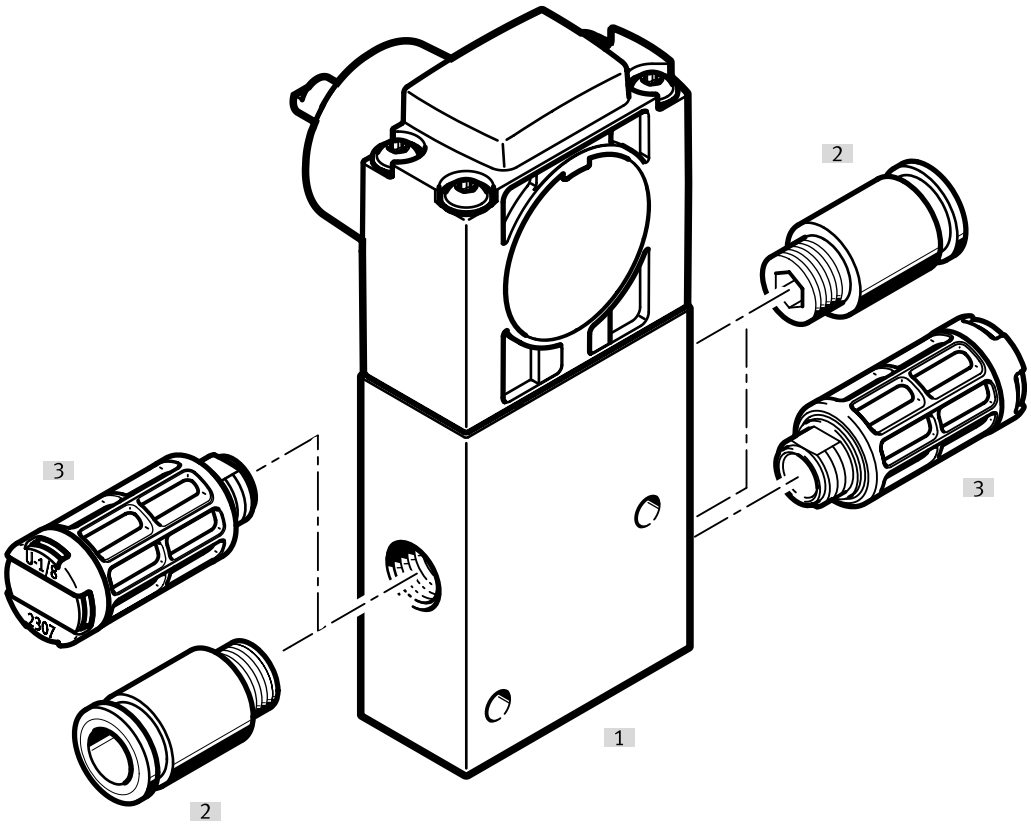
Peripherals overview, roller lever valve with idle return 5/2



Accessories			→ Link
	Type/order code	Description	
[1]	5/2-way valve	Stem actuated valve with idle return roller lever attachment	vmef
[2]	Fitting	For working air/exhaust air connections (1, 3, 5) and working connections (2, 4)	37
[3]	Silencer	For exhaust air connections (3, 5)	37

Peripherals

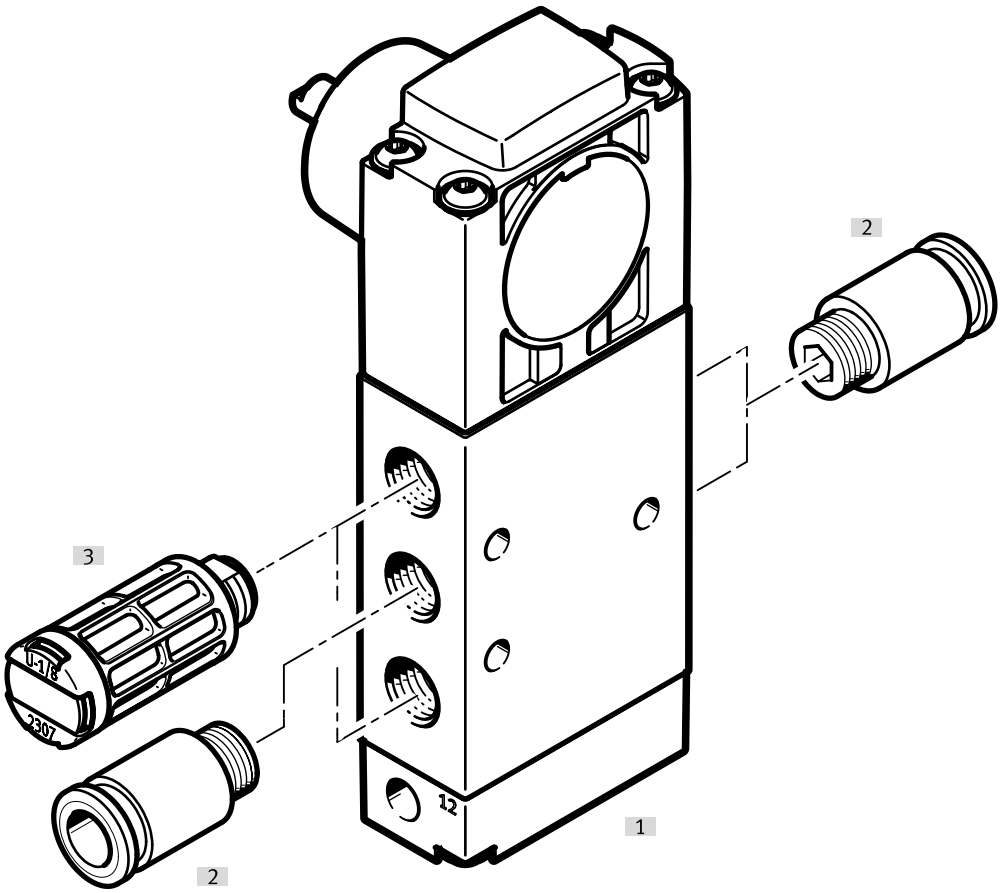
Peripherals overview, swivel lever valve 3/2



Accessories			→ Link
	Type/order code	Description	
[1]	3/2-way valve	Swivel lever valve	vmef
[2]	Fitting	For working air/exhaust air ports (1, 3, 5) and working ports (2, 4)	37
[3]	Silencer	For exhaust ports (3, 5)	37

Peripherals

Peripherals overview, swivel lever valve 5/2



Accessories			→ Link
	Type/order code	Description	
[1]	5/2-way valve	Swivel lever valve	vmef
[2]	Fitting	For working air/exhaust air ports (1, 3, 5) and working ports (2, 4)	37
[3]	Silencer	For exhaust ports (3, 5)	37

Accessories

Roller lever, for 3/2-way valves, with retaining screws



Type of mounting	Part no.	Type
Screw-clamped	**8049235**	**VAOM-R4-20-D1-32**

Roller lever, for 5/2-way valves, with retaining screws



Type of mounting	Part no.	Type
Screw-clamped	**8049233**	**VAOM-R4-20-D1-52**

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



Type of mounting	Part no.	Type
Screw-clamped	**8049237**	**VAOM-R4-20-D2-32**

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



Type of mounting	Part no.	Type
Screw-clamped	**8049236**	**VAOM-R4-20-D2-52**

Short swivel lever



Product weight	Part no.	Type
30 g	**5835**	**ASK-02**
	4789	**ASS-02**

Push-in fitting, straight, with internal hexagon



Pneumatic connection, port 1	Pneumatic connection, port 2	Packaging unit [units]	Part no.	Type
Male thread M5	For tubing outside diameter of 4 mm	10	**153315**	**QSM-M5-4-I**
Male thread G1/4	For tubing outside diameter of 6 mm		**186108**	**QS-G1/4-6-I**
	For tubing outside diameter of 8 mm		**186110**	**QS-G1/4-8-I**
	For tubing outside diameter of 10 mm		**186112**	**QS-G1/4-10-I**

Accessories

Push-in fitting, straight, with external hexagon



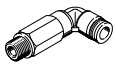
Pneumatic connection, port 1	Pneumatic connection, port 2	Packaging unit [units]	Part no.	Type
Male thread M5	For tubing outer diameter of 3 mm	10	153302	QSM-M5-3
	For tubing outside diameter of 4 mm		153304	QSM-M5-4
	For tubing outside diameter of 6 mm		153306	QSM-M5-6
Male thread G1/8	For tubing outside diameter of 4 mm		186095	QS-G1/8-4
	For tubing outside diameter of 6 mm		186096	QS-G1/8-6
Male thread G1/4			186097	QS-G1/4-6
	For tubing outside diameter of 8 mm		186099	QS-G1/4-8
	For tubing outside diameter of 10 mm		186101	QS-G1/4-10
	For tubing outer diameter of 12 mm		186350	QS-G1/4-12

Push-in fitting, angled, with external hexagon



Pneumatic connection, port 1	Pneumatic connection, port 2	Packaging unit [units]	Part no.	Type
Male thread G1/8	For tubing outside diameter of 4 mm	10	186116	QSL-G1/8-4
		100	132048	QSL-G1/8-4-100
	For tubing outside diameter of 6 mm	10	186117	QSL-G1/8-6
		100	132049	QSL-G1/8-6-100
	For tubing outside diameter of 8 mm	10	186119	QSL-G1/8-8
		50	132050	QSL-G1/8-8-50
Male thread G1/4		10	186120	QSL-G1/4-8
		50	132052	QSL-G1/4-8-50
	For tubing outside diameter of 10 mm	10	186122	QSL-G1/4-10
		50	132053	QSL-G1/4-10-50
	For tubing outer diameter of 12 mm	10	186351	QSL-G1/4-12
		20	132054	QSL-G1/4-12-20

Push-in fitting, angled, long, with external hexagon



Pneumatic connection, port 1	Pneumatic connection, port 2	Packaging unit [units]	Part no.	Type
Male thread G1/8	For tubing outside diameter of 4 mm	10	186127	QSLL-G1/8-4
		100	133015	QSLL-G1/8-4-100
	For tubing outside diameter of 6 mm	10	186128	QSLL-G1/8-6
		100	133016	QSLL-G1/8-6-100
	For tubing outside diameter of 8 mm	10	186130	QSLL-G1/8-8
		100	133017	QSLL-G1/8-8-100

Silencer, polymer



Pneumatic connection	Product weight	Part no.	Type
G1/8	2.3 g	2307	U-1/8
		534222	U-1/8-50
G1/4	7.7 g	2316	U-1/4
		534223	U-1/4-20

Accessories

Silencer, metal



Pneumatic connection	Product weight	Part no.	Type
G1/8	8 g	**6841**	**U-1/8-B**
G1/4	17 g	**6842**	**U-1/4-B**

Mounting kit for switching point adjustment



Product weight	Part no.	Type
70 g	**8060046**	**VAME-R4-20-PA**