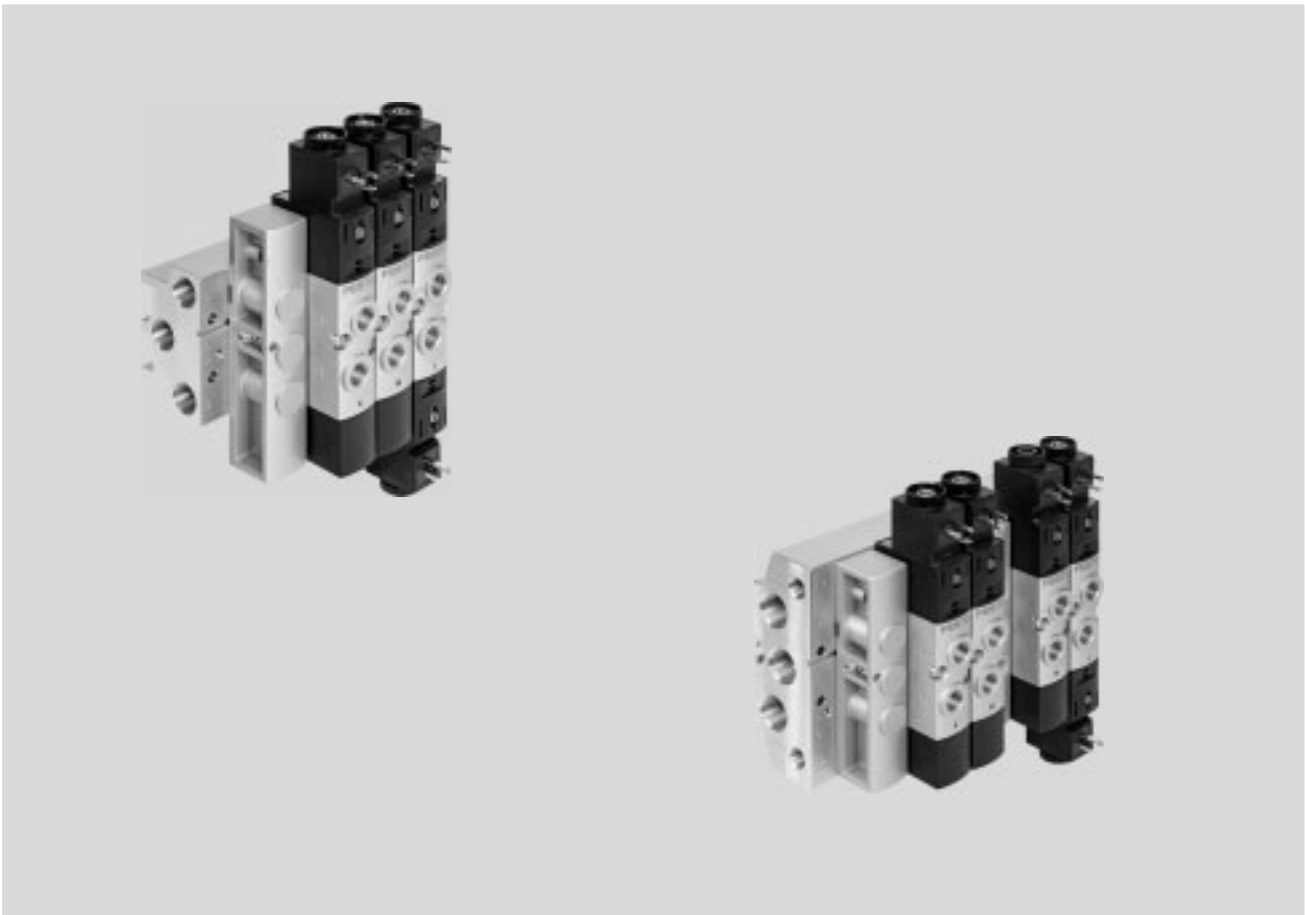


Solenoid valves VUVS/valve manifold VTUS



Solenoid valves VUVS/valve manifold VTUS

Key features



Innovative

- A reliable, heavy-duty valve with a long service life
- Design principle:
 - Piston spool with sealing cartridge (VUVS-L)
 - Piston spool with sealing ring (VUVS-LK)
- Flow rate up to 2300 l/min with VUVS-L
- Flow rate up to 1000 l/min with VUVS-LK
- Wide range of valve functions

Versatile

- Operating voltage can be easily altered by changing the solenoid coil (VUVS-L)
- In-line valves can be used as individual valves or manifold valves
- Variable pressure zones
- Wide range of mounting options

Reliable

- Ergonomic, reliable operation
- Reliable servicing thanks to valves that can be replaced quickly and easily

Easy to install

- Pre-assembled units on rails
- Individual valves assembled ready for installation
- Supply manifolds for mounting on one or both sides
- Secure mounting on wall or H-rail

Valve manifold selection

Configurator

The appropriate valve manifold VTUS can be chosen quickly and easily using the online catalogue. This includes a convenient configurator, making it much easier to order the right product.

The valve manifold is fully assembled according to your order specification and individually checked. This reduces assembly and installation time to a minimum.

Ordering system for valve manifold VTUS

➔ Internet: vtus

2D/3D CAD data

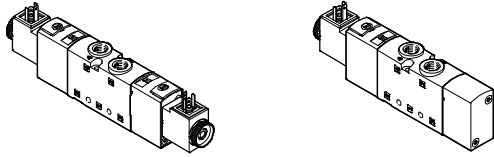
The CAD data for a configured valve manifold can be retrieved online using the configurator.

Solenoid valves VUVS/valve manifold VTUS

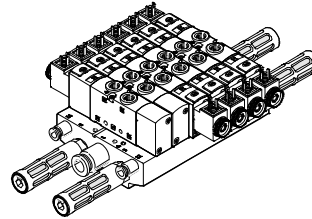
Key features

Solenoid valves VUVS

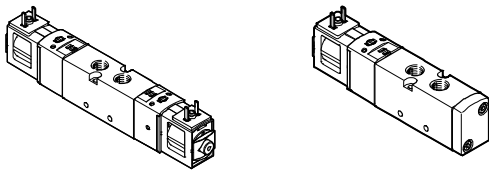
In-line valve VUVS as individual valve



Valve manifold VTUS

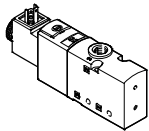


In-line valve VUVS-LK as individual valve



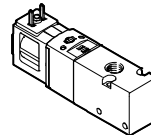
Equipment options

VUVS-L



- 3/2-, 5/2- and 5/3-way valves, with or without solenoid coil
- Size 20 (21 mm), size 25 (26.5 mm) and size 30 (31 mm)

VUVS-LK



- 3/2- and 5/2-way valves, with solenoid coil
- Size 20 (21 mm)
Size 25 (26.5 mm)

The operating voltage of VUVS-L valves can be varied by changing the solenoid coil on the armature tube.

Valve functions of VUVS-L

3/2-way valve, normal position open, single solenoid:

- Internal/external pilot air supply
- Reset via pneumatic/mechanical spring
- Direction of flow can be reversed in the case of external pilot air supply

3/2-way valve, normal position closed, single solenoid:

- Internal/external pilot air supply
- Reset via pneumatic/mechanical spring
- Direction of flow can be reversed in the case of external pilot air supply

5/2-way valve, single solenoid:

- Internal/external pilot air supply
 - Reset via pneumatic/mechanical spring
 - Direction of flow can be reversed in the case of external pilot air supply
- 5/2-way valve, double solenoid:
- Internal/external pilot air supply
 - Direction of flow can be reversed in the case of external pilot air supply

5/3-way valve, mid-position exhausted, pressurised or closed:

- Internal/external pilot air supply
- Reset via mechanical spring
- Direction of flow can be reversed in the case of external pilot air supply

Solenoid valves VUVS/valve manifold VTUS

Key features

Equipment options

Valve functions of VUVS-LK

3/2-way valve, normal position open, single solenoid:

- Internal pilot air supply
- Reset via pneumatic spring
- Direction of flow not reversible

5/2-way valve, single solenoid:

- Internal pilot air supply
- Reset via pneumatic spring
- Direction of flow not reversible

5/2-way valve, double solenoid:

- Internal pilot air supply
- Direction of flow not reversible

Key features

- A maximum of 16 valve positions can be configured in the standard version (for VUVS-L variant only)
- A maximum of 12 valve positions can be configured in the compact version (maximum of 10 valve positions for VUVS-LK variant)

- Valve positions 2 ... 10 can be configured in increments of 1, valve positions 10 ... 16 in increments of 2

- Manifold block with a maximum of 10 valve positions
- Extension module with 2 valve positions
- Supply manifold with a maximum of 10 valve positions

- Creation of pressure zones (maximum 9 pressure zones in the case of a valve manifold with 16 valve positions)

Design

Valve replacement

Each valve is attached to the manifold block using two screws. The appropriate seal is mounted on the valve.

This means that the valves can be easily replaced.

Extension

Valve positions covered with blanking plates can be replaced with valves at a later date. The dimensions, mounting points and existing pneumatic installations remain unchanged.

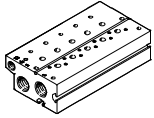
Extension modules with two valve positions are available for the standard manifold block. A manifold block can be extended with a maximum of three extension modules.

Solenoid valves VUVS/valve manifold VTUS

Key features

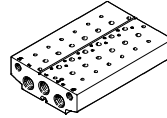
Standard manifold block (not for VUVS-LK valves)

For 3/2-way valves



- Connection
Size 20: G3/8
Size 25: G1/2
Size 30: G3/4
- For valves with external pilot air supply
- Maximum 10 valve positions

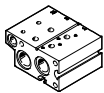
For 5/2- and 5/3-way valves



- Connection
Size 20: G3/8
Size 25: G1/2
Size 30: G3/4
- For valves with external pilot air supply
- Maximum 10 valve positions

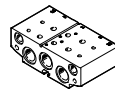
Extension for standard manifold block (not for VUVS-LK valves)

For 3/2-way valves



- Connection
Size 20: G3/8
Size 25: G1/2
Size 30: G3/4
- Maximum two valve positions

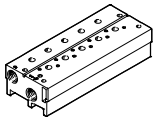
For 5/2- and 5/3-way valves



- Connection
Size 20: G3/8
Size 25: G1/2
Size 30: G3/4
- Maximum two valve positions

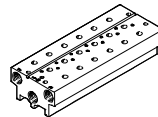
Compact manifold block

For 3/2-way valves



- Connection
Size 20: G1/4
Size 25: G3/8
Size 30: G1/2
- Maximum 10 valve positions

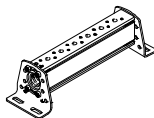
For 5/2- and 5/3-way valves



- Connection
Size 20: G1/4
Size 25: G3/8
Size 30: G1/2
- Maximum 10 valve positions

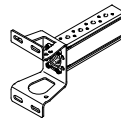
Supply manifold

Mounting on both sides



- Connection
Size 20: G3/8
Size 25: G1/2
Size 30: G3/4
- Maximum 10 valve positions

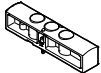
Mounting on one side



- Connection
Size 20: G3/8
Size 25: G1/2
Size 30: G3/4
- Maximum 4 valve positions

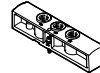
Blanking plate for unused valve position

For covering unused valve positions



Supply plate

For additional air supply and exhaust via a valve position



Separator for pressure zones

For creating pressure zones
(maximum 9 pressure zones permitted)



Note

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

Solenoid valves VUVS/valve manifold VTUS

Key features – Pneumatics



Creating pressure zones and separating exhaust air


Compressed air is supplied and exhausted via the manifold block/supply manifold and via supply plates.

The position of the supply plates and duct separations can be freely selected with the VTUS.

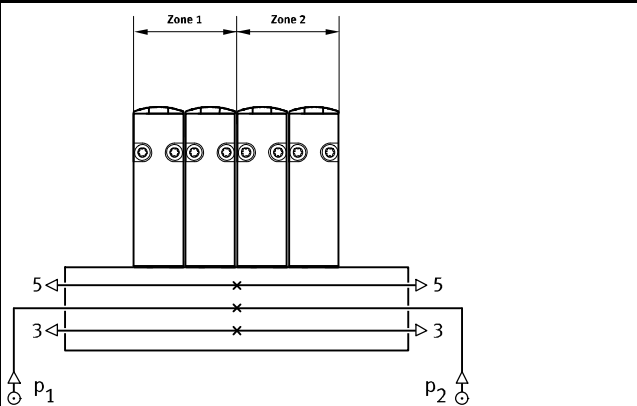
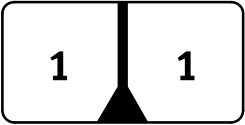

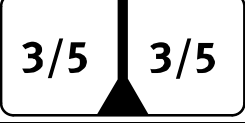
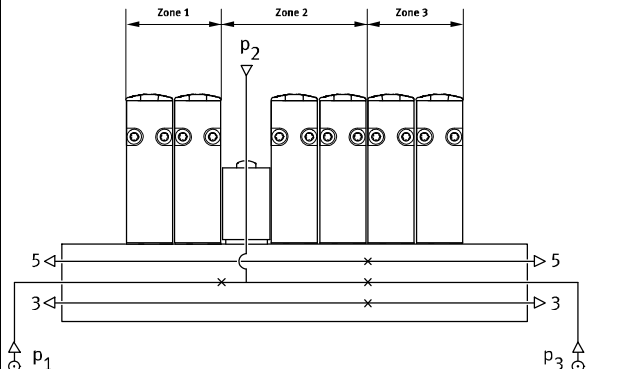
A pressure zone is created by isolating the internal ducts between the valve positions using an appropriate separator.

The separator can be used in the following ducts:

- Duct 1
- Duct 3
- Duct 5

 Note

- Use a separator if the exhaust air pressures are high
- Use at least one supply plate/supply for each pressure zone
- Pressure zone separation is not possible in ducts 12 and 14 (pilot air supply)

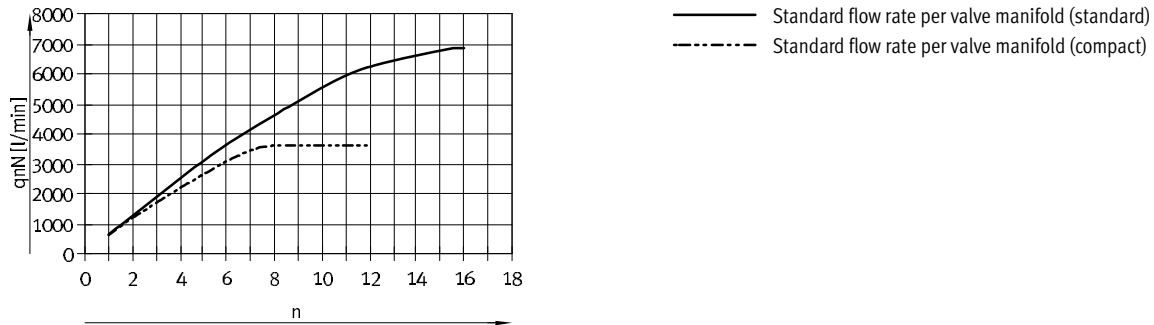
Duct separation	Description
	<p>The pressure zones can be freely configured with the VTUS. The following duct separations are possible:</p> <ul style="list-style-type: none"> • Duct 1 closed  • Duct 1/3/5 closed  • Duct 3/5 closed 
	<p>The number of pressure zones with the VTUS is limited by the number of valve positions on the manifold block/supply manifold. Note that each supply plate occupies one valve position. There must always be at least two valve positions between two separators. In the case of a maximum extension of 16 valve positions, a maximum of 9 pressure zones can be created.</p>

Solenoid valves VUVS/valve manifold VTUS

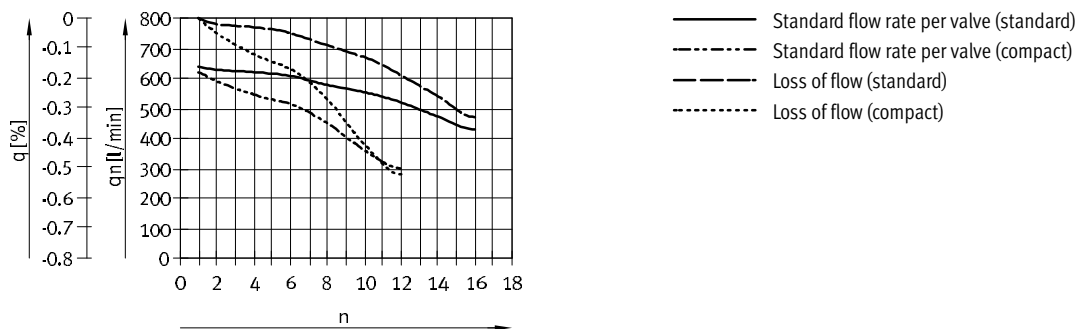
Key features – Pneumatics, VUVS-L

Standard nominal flow rate q_{nN} , with several valves n switched in parallel, size 20

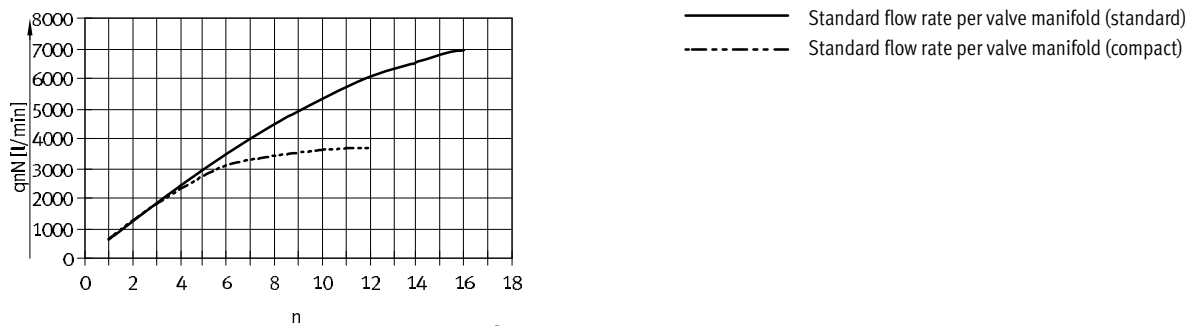
For 3/2-way valves, valve manifold



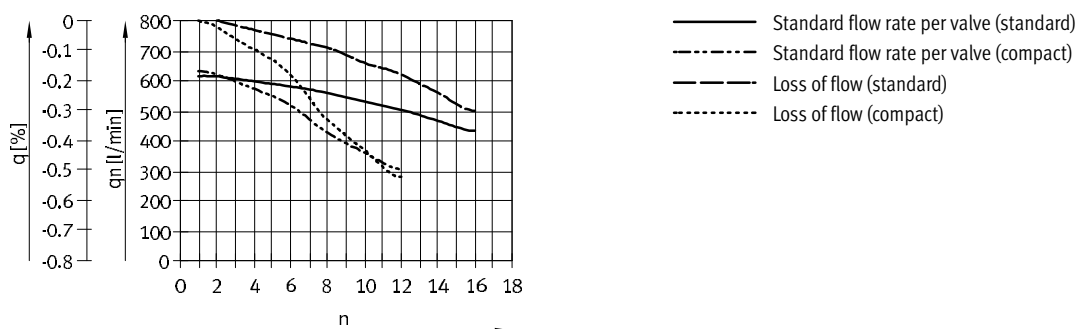
For 3/2-way valves, individual valve



For 5/2-way valves, valve manifold



For 5/2-way valves, individual valve

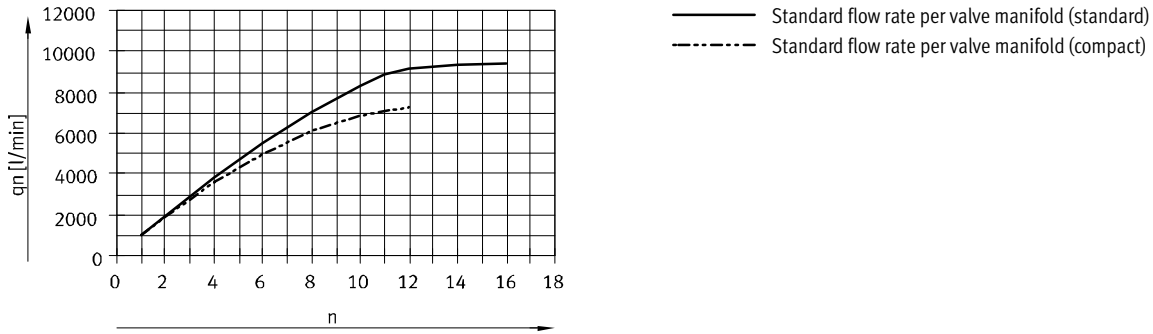


Solenoid valves VUVS/valve manifold VTUS

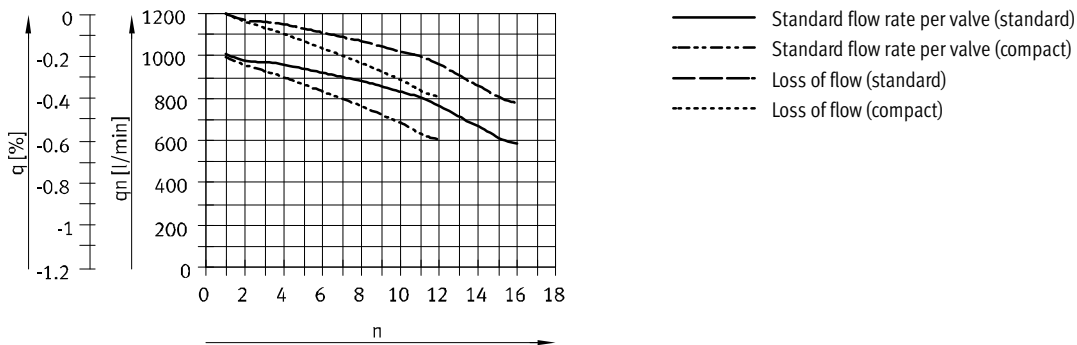
Key features – Pneumatics, VUVS-L

Standard nominal flow rate q_{nN} , with several valves n switched in parallel, size 25

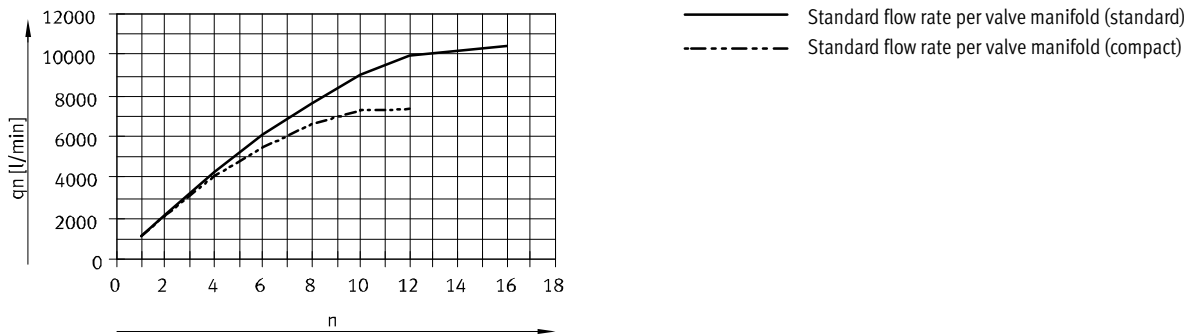
For 3/2-way valves, valve manifold



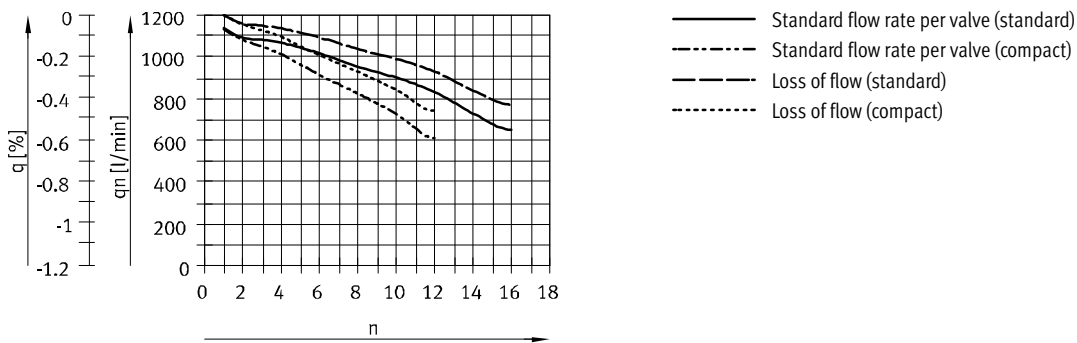
For 3/2-way valves, individual valve



For 5/2-way valves, valve manifold



For 5/2-way valves, individual valve

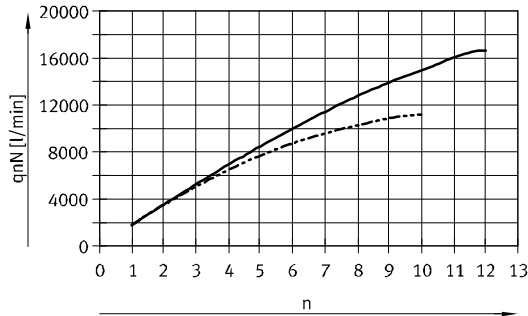


Solenoid valves VUVS/valve manifold VTUS

Key features – Pneumatics, VUVS-L

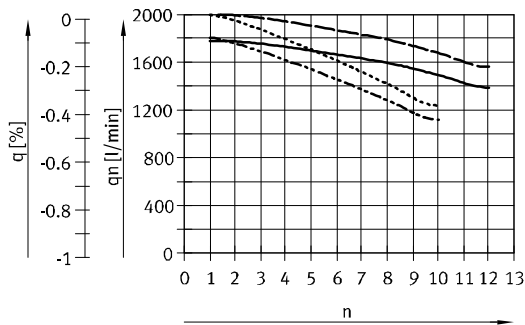
Standard nominal flow rate q_{nN} , with several valves n switched in parallel, size 30

For 3/2-way valves, valve manifold



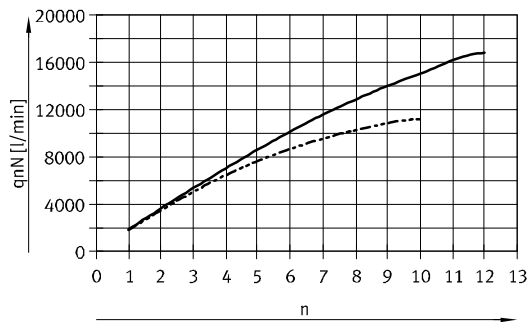
- Standard flow rate per valve manifold (standard)
- - - Standard flow rate per valve manifold (compact)

For 3/2-way valves, individual valve



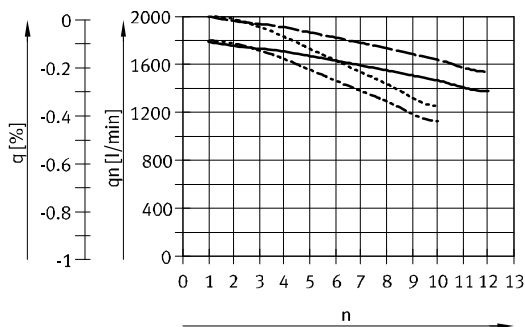
- Standard flow rate per valve (standard)
- - - Standard flow rate per valve (compact)
- · - Loss of flow (standard)
- · · Loss of flow (compact)

For 5/2- and 5/3-way valves, valve manifold



- Standard flow rate per valve manifold (standard)
- - - Standard flow rate per valve manifold (compact)

For 5/2- and 5/3-way valves, individual valve



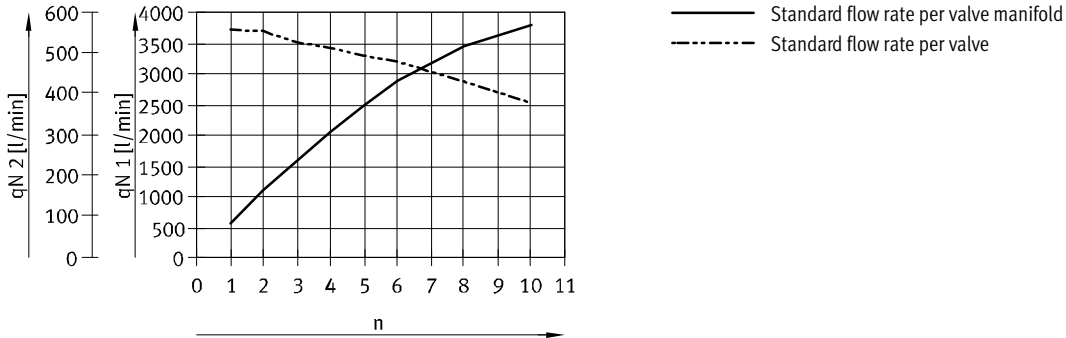
- Standard flow rate per valve (standard)
- - - Standard flow rate per valve (compact)
- · - Loss of flow (standard)
- · · Loss of flow (compact)

Solenoid valves VUVS/valve manifold VTUS

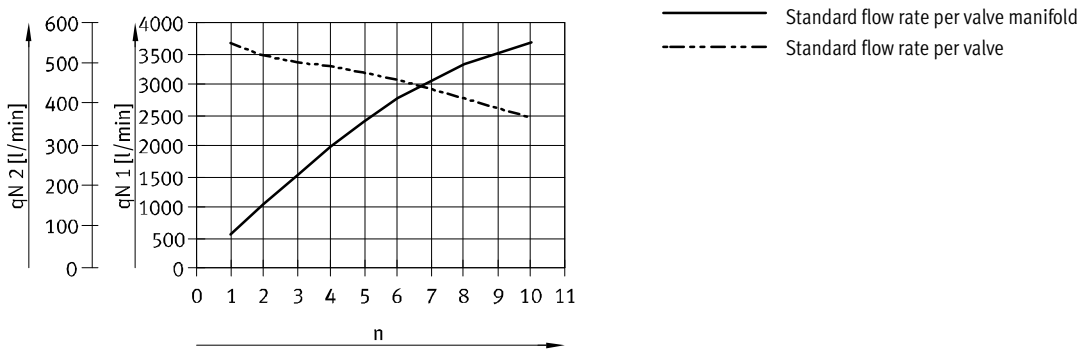
Key features – Pneumatics, VUVS-LK

Standard nominal flow rate q_N , with several valves n switched in parallel, size 20

For 3/2-way valves, individual valve and valve manifold



For 5/2-way valves, individual valve and valve manifold

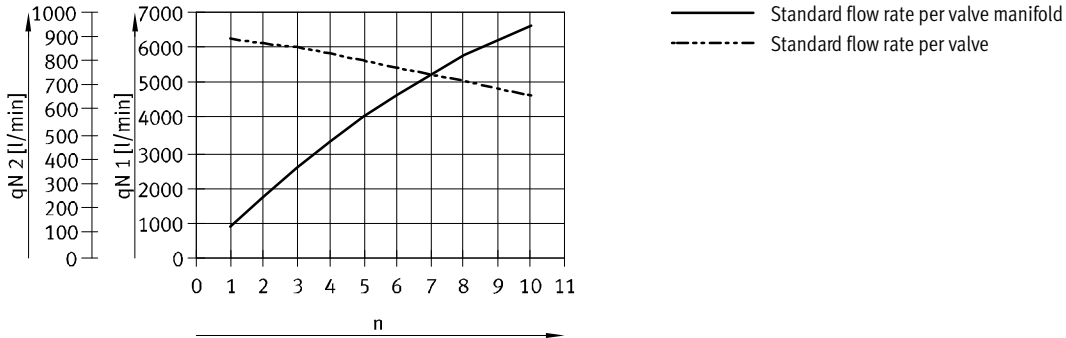


Solenoid valves VUVS/valve manifold VTUS

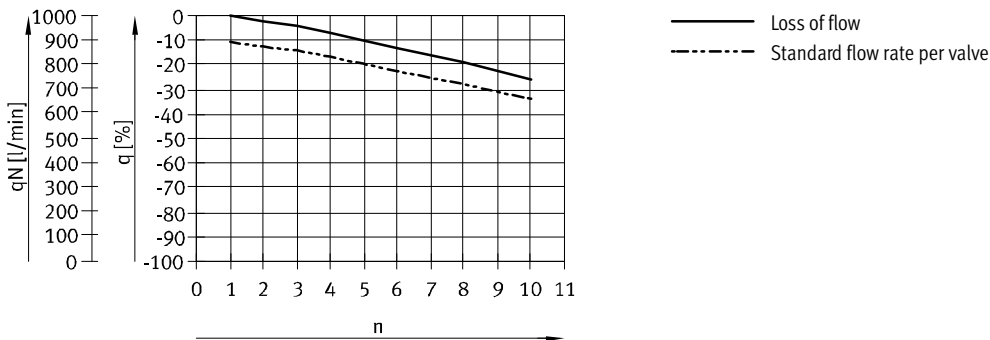
Key features – Pneumatics, VUVS-LK

Standard nominal flow rate q_N , with several valves n switched in parallel, size 25

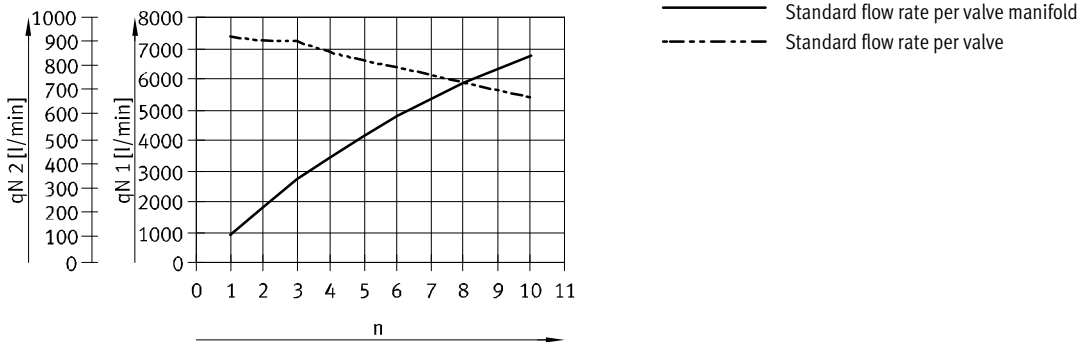
For 3/2-way valves, individual valve and valve manifold



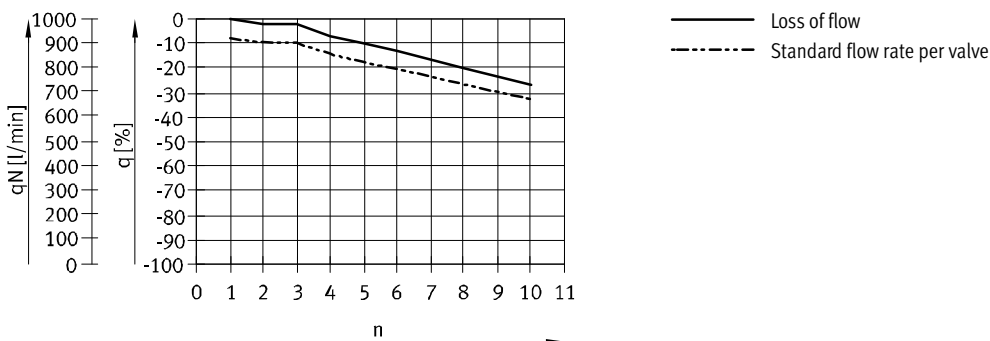
For 3/2-way valves, individual valve



For 5/2-way valves, individual valve and valve manifold



For 5/2-way valves, individual valve



Solenoid valves VUVS/valve manifold VTUS

Key features – Pneumatics

FESTO

Mounting valve manifold VTUS

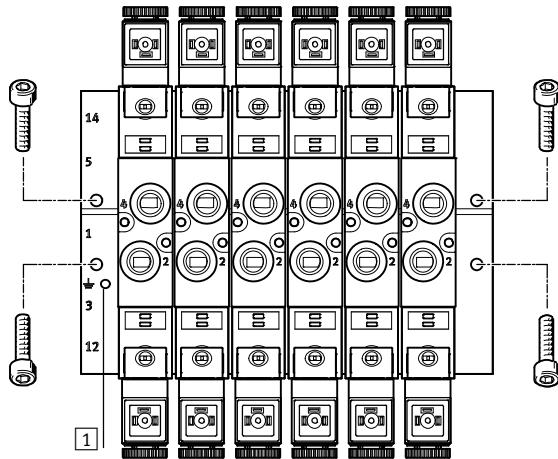
Sturdy valve manifold owing to:

- Four through-holes for wall mounting
- H-rail mounting

-  - Note

Use the thread M4/M5 provided on the manifold block for earthing the valve manifold.

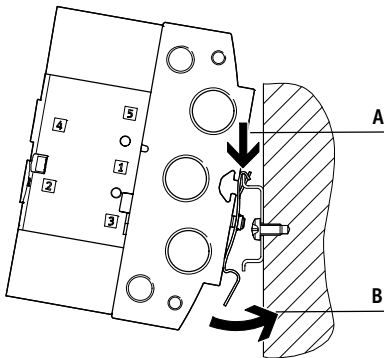
Wall mounting



Sturdy wall mounting of the manifold block using four through-holes.

1 Earth terminal

H-rail mounting



The H-rail mounting VAME-T-M... consists of two mounting clips. These are screwed to the manifold block on the left and right.

The valve manifold VTUS is then lowered onto the H-rail from above (arrow A) and clipped into the H-rail at the bottom (arrow B).

-  - Note

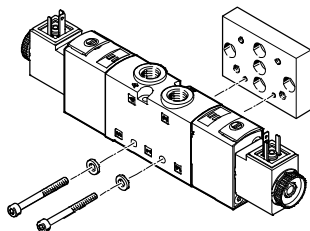
- Note the max. tightening torque of the screws for H-rail mounting
- Only horizontal H-rail mounting is permissible
- Mounting only possible on H-rail TH 35-... to EN 60715
- Vibration/shock loads are not permissible with H-rail mounting
- Further information on assembly
→ Assembly instructions for H-rail mounting VAME-T-M...

Solenoid valves VUVS/valve manifold VTUS

Key features – Assembly

Mounting individual valve VUVS

Wall mounting

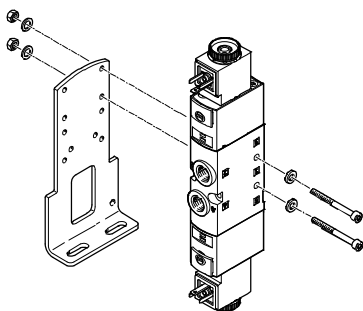


For mounting individual valves on a flat surface, e.g. aluminium profile systems.

The solenoid valves are provided with two through-holes for attaching to the wall mounting VAME-B10-20-W.

The relevant screw set is included when the wall mounting VAME-B10-20-W is ordered.

Foot mounting



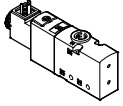
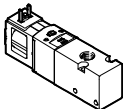
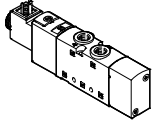
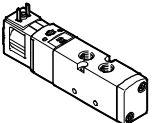
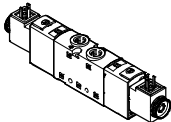
For mounting individual valves on a flat surface, e.g. aluminium profile systems.

The solenoid valves are provided with two through-holes for attaching to the foot mounting VAME-B10-...-A.

The relevant screw set is included when the foot mounting VAME-B10-...-A is ordered.

Solenoid valves VUVS/valve manifold VTUS

Product range overview

Valve	Size	Working port	Order code for valves and flow rate [l/min]							→ Page/ Internet
			M32C	M32U	M52	B52	P53C	P53U	P53E	
3/2-way valve VUVS										
	20	G1/8	■ 700	■ 700	-	-	-	-	-	63
	25	G1/4	■ 1000	■ 1000	-	-	-	-	-	76
	30	G3/8	■ 2300	■ 2300	-	-	-	-	-	92
3/2-way valve VUVS-LK										
	20	G1/8	■ 550	-	-	-	-	-	-	45
	25	G1/4	■ 1000	-	-	-	-	-	-	54
5/2-way valve VUVS										
	20	G1/8	-	-	■ 700	■ 700	-	-	-	63
	25	G1/4	-	-	■ 1300	■ 1300	-	-	-	76
	30	G3/8	-	-	■ 2300	■ 2300	-	-	-	92
5/2-way valve VUVS-LK										
	20	G1/8	-	-	■ 550	■ 550	-	-	-	45
	25	G1/4	-	-	■ 1000	■ 1000	-	-	-	54
5/3-way valve VUVS										
	20	G1/8	-	-	-	-	■ 700	■ 600	■ 600	63
	25	G1/4	-	-	-	-	■ 1200	■ 1000	■ 1000	76
	30	G3/8	-	-	-	-	■ 2000	■ 1600	■ 1600	92

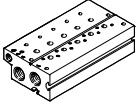

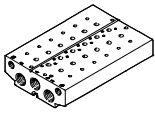



New
Size 30

FESTO

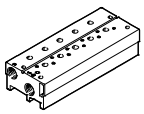
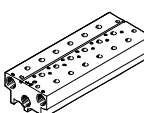
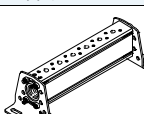
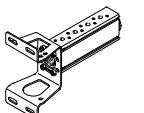
Solenoid valves VUVS/valve manifold VTUS

Product range overview

Design	Size	Description	→ Page/ Internet
Manifold block for 3/2-way valves, standard			
	20	VABM-B10-20E-G38- ... P3	Connection G3/8 109
	25	VABM-B10-25E-G12- ... P3	Connection G1/2 122
	30	VABM-B10-30E-G34- ... P3	Connection G3/4 135
Manifold block extension module for 3/2-way valves, standard			
	20	VABM-B10-20EEE-G38- ... P3	Connection G3/8 109
	25	VABM-B10-25EEE-G12- ... P3	Connection G1/2 122
	30	VABM-B10-30EEE-G34- ... P3	Connection G3/4 135
Manifold block for 5/2- and 5/3-way valves, standard			
	20	VABM-B10-20E-G38- ...	Connection G3/8 109
	25	VABM-B10-25E-G12- ...	Connection G1/2 122
	30	VABM-B10-30E-G34- ...	Connection G3/4 135
Manifold block extension module for 5/2- and 5/3-way valves, standard			
	20	VABM-B10-20EEE-G38- ...	Connection G3/8 109
	25	VABM-B10-25EEE-G12- ...	Connection G1/2 122
	30	VABM-B10-30EEE-G34- ...	Connection G3/4 135

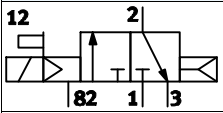
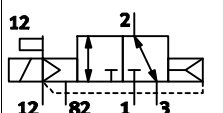
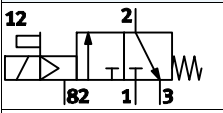
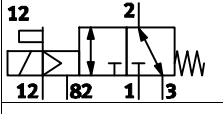
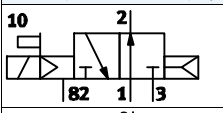
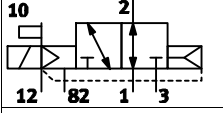
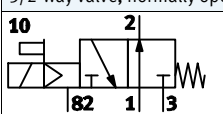
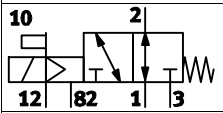
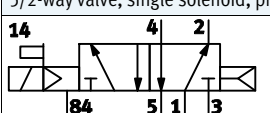
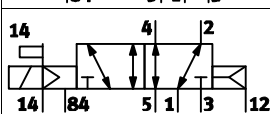
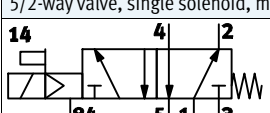
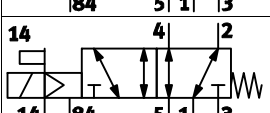
Solenoid valves VUVS/valve manifold VTUS

Product range overview

Design	Size	Description	→ Page/ Internet
Manifold block for 3/2-way valves, compact			
	20	VABM-B10-20S-G14- ... P3	Connection G1/4 109
	25	VABM-B10-25S-G38- ... P3	Connection G3/8 122
	30	VABM-B10-30S-G12- ... P3	Connection G1/2 135
Manifold block for 5/2- and 5/3-way valves, compact			
	20	VABM-B10-20S-G14- ...	Connection G1/4 109
	25	VABM-B10-25S-G38- ...	Connection G3/8 122
	30	VABM-B10-30S-G12- ...	Connection G1/2 135
Supply manifold, for mounting on both sides			
	20	VABM-B10-20-G38- ... -P53	Connection G3/8 109
	25	VABM-B10-25-G12- ... -P53	Connection G1/2 122
	30	VABM-B10-30-G34- ... -P53	Connection G3/4 135
Supply manifold, for mounting on one side			
	20	VABM-B10-20-G38- ... -P53-E	Connection G3/8 109
	25	VABM-B10-25-G12- ... -P53-E	Connection G1/2 122
	30	VABM-B10-30-G34- ... -P53-E	Connection G3/4 135

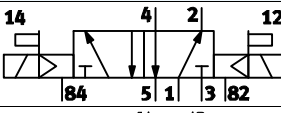
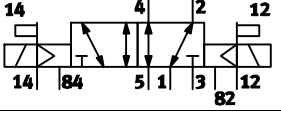
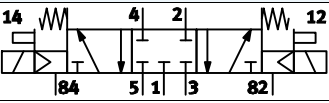
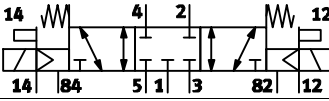
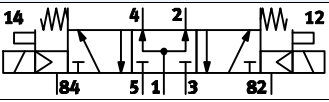
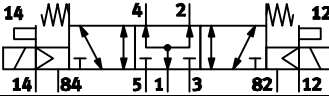
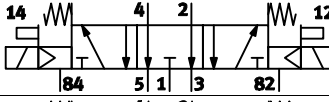
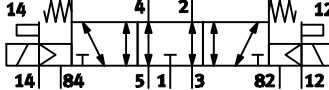
Solenoid valves VUVS/valve manifold VTUS

Overview of valve functions

Valve	Order code for valves	Description	VUVS-L			VUVS-LK	
			Size			Size	
			20	25	30	20	25
3/2-way valve, normally closed, pneumatic spring							
	M32C	Internal pilot air supply, not reversible	■	■	■	■	■
		External pilot air supply, reversible	■	■	■	-	-
3/2-way valve, normally closed, mechanical spring							
	M32C	Internal pilot air supply, not reversible	■	■	■	-	-
		External pilot air supply, reversible	■	■	■	-	-
3/2-way valve, normally open, pneumatic spring							
	M32U	Internal pilot air supply, not reversible	■	■	■	-	-
		External pilot air supply, reversible	■	■	■	-	-
3/2-way valve, normally open, mechanical spring							
	M32U	Internal pilot air supply, not reversible	■	■	■	-	-
		External pilot air supply, reversible	■	■	■	-	-
5/2-way valve, single solenoid, pneumatic spring							
	M52	Internal pilot air supply, not reversible	■	■	■	■	■
		External pilot air supply, reversible	■	■	■	-	-
5/2-way valve, single solenoid, mechanical spring							
	M52	Internal pilot air supply, not reversible	■	■	■	-	-
		External pilot air supply, reversible	■	■	■	-	-

Solenoid valves VUVS/valve manifold VTUS

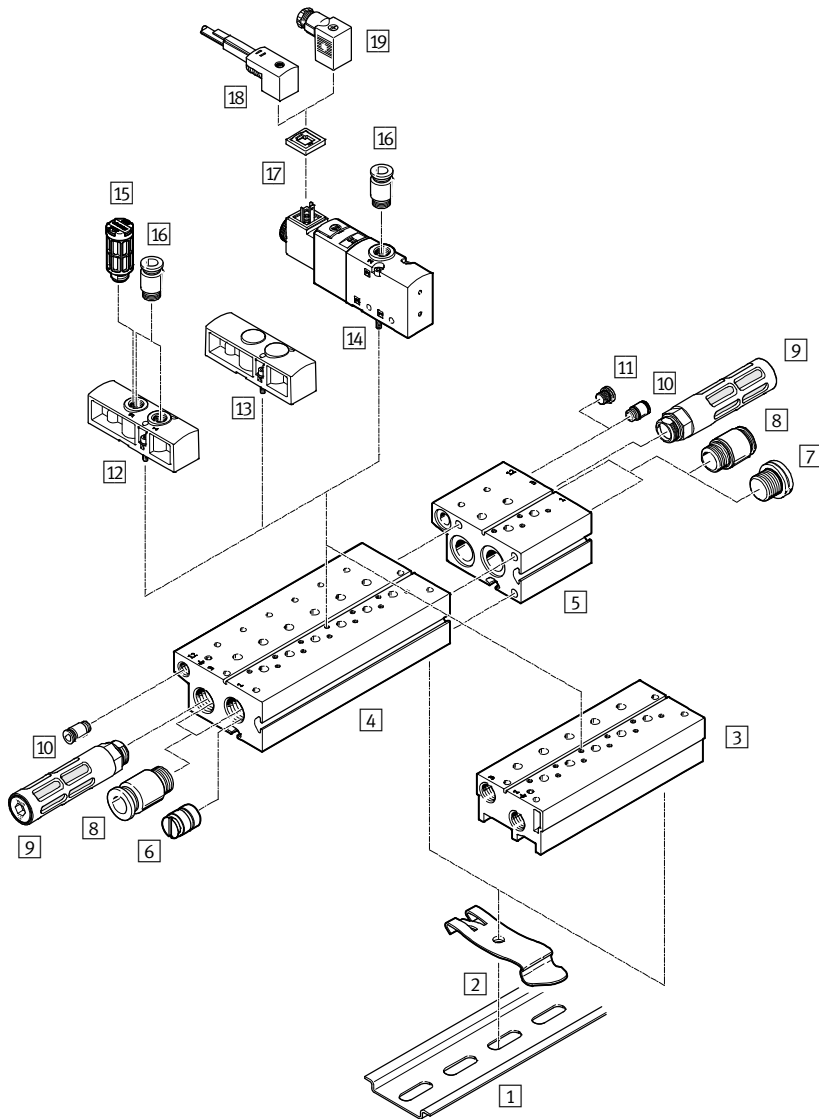
Overview of valve functions

Valve	Order code for valves	Description	VUVS-I			VUVS-LK	
			Size			Size	
			20	25	30	20	25
5/2-way valve, double solenoid							
	B52	Internal pilot air supply, not reversible	■	■	■	■	■
		External pilot air supply, reversible	■	■	■	-	-
5/3-way valve, mechanical spring, closed							
	P53C	Internal pilot air supply, not reversible	■	■	■	-	-
		External pilot air supply, reversible	■	■	■	-	-
5/3-way valve, mechanical spring, pressurised							
	P53U	Internal pilot air supply, not reversible	■	■	■	-	-
		External pilot air supply, reversible	■	■	■	-	-
5/3-way valve, mechanical spring, exhausted							
	P53E	Internal pilot air supply, not reversible	■	■	■	-	-
		External pilot air supply, reversible	■	■	■	-	-

Solenoid valves VUVS-L/valve manifold VTUS

Peripherals overview VUVS-L

Manifold block for 3/2-way valves



Designation	Brief description	→ Page/Internet
1 H-rail	–	–
2 H-rail mounting	For H-rail mounting	121, 134, 147
3 Compact manifold block	For 3/2-way valves, no port for external pilot air supply	117, 130, 143
4 Standard manifold block	For 3/2-way valves, with port 10/12 for external pilot air supply	117, 130, 143
5 Extension module	For standard manifold block, with port 10/12 for external pilot air supply	117, 130, 143
6 Separator	For creating pressure zones in ports 1 and 3	121, 134, 147
7 Blanking plug	For ports 1 and 3, supply and exhaust ports	121, 134, 147
8 Push-in fitting	For ports 1 and 3, supply and exhaust ports	120, 133, 146
9 Silencer	For port 3, exhaust	121, 134, 147
10 Push-in fitting	For port 10/12, external pilot air supply, for standard manifold block only	120, 133, 146
11 Blanking plug	For port 10/12, external pilot air supply, for standard manifold block only	121, 134, 147
12 Supply plate	For additional air supply and exhaust via a valve position	119, 132, 145
13 Cover plate	For covering unused valve positions	119, 132, 145
14 Solenoid valve	3/2-way valve, with solenoid coil	71, 84, 100

Solenoid valves VUVS-L/valve manifold VTUS

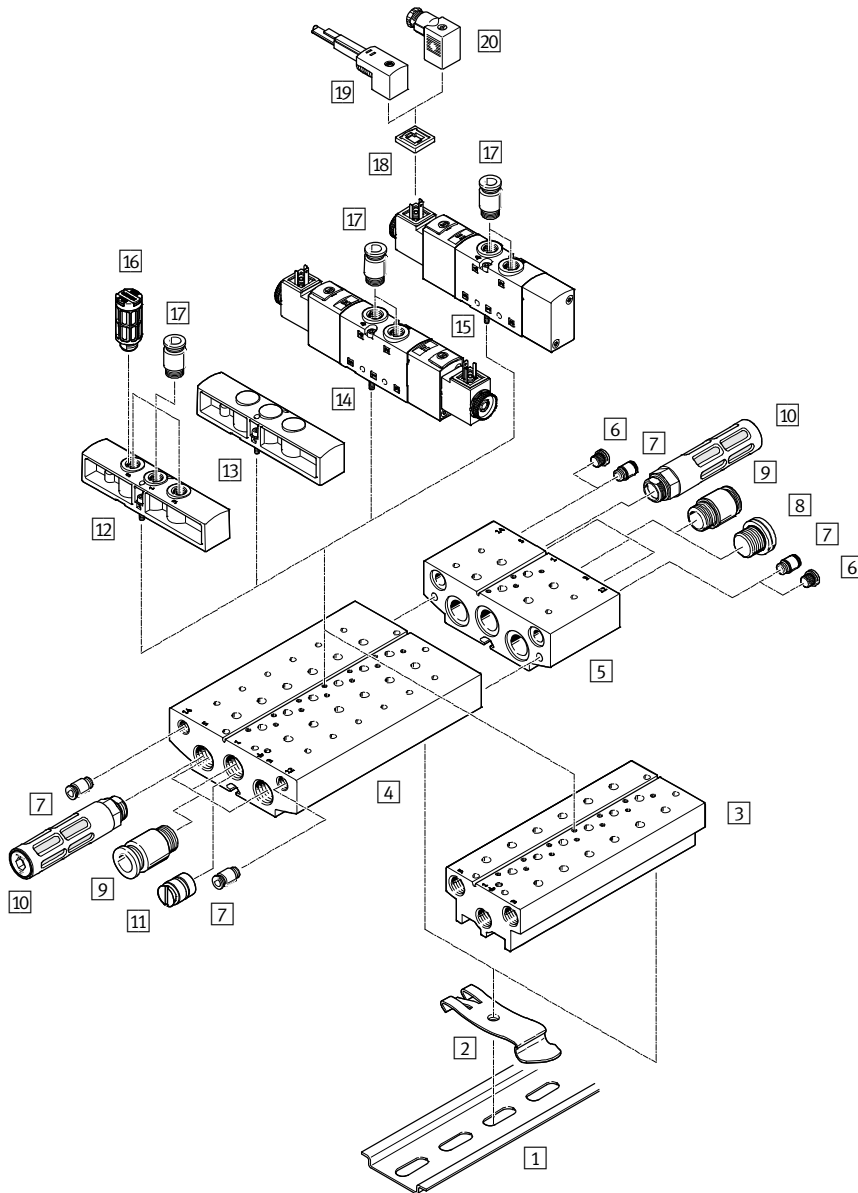
Peripherals overview VUVS-L

Designation	Brief description	→ Page/Internet
15 Silencer	For port 3, exhaust	121, 134, 147
16 Push-in fitting	For ports 1 and 3, supply and exhaust ports with supply plate, for port 2, working port, on the valve	120, 133, 146
17 Illuminating seal	For indicating the switching status	74, 90, 105
18 Plug socket with cable	For solenoid valves VUVS	74, 90, 105
19 Plug socket	For solenoid valves VUVS	74, 90, 105

Solenoid valves VUVS-L/valve manifold VTUS

Peripherals overview VUVS-L

Manifold block for 5/2- and 5/3-way valves



Designation	Brief description	→ Page/Internet
1 H-rail	–	–
2 H-rail mounting	For H-rail mounting	121, 134, 147
3 Compact manifold block	For 5/2- and 5/3-way valves, no port for external pilot air supply	117, 130, 143
4 Standard manifold block	For 5/2- and 5/3-way valves, with ports 12 and 14 for external pilot air supply	117, 130, 143
5 Extension module	For standard manifold block, with ports 12 and 14 for external pilot air supply	117, 130, 143
6 Blanking plug	For ports 12 and 14, external pilot air supply, for standard manifold block only	121, 134, 147
7 Push-in fitting	For ports 12 and 14, external pilot air supply, for standard manifold block only	120, 133, 146
8 Blanking plug	For ports 1, 3 and 5, supply and exhaust ports	121, 134, 147
9 Push-in fitting	For ports 1, 3 and 5, supply and exhaust ports	120, 133, 146
10 Silencer	For ports 3 and 5, exhaust	121, 134, 147
11 Separator	For creating pressure zones in ports 1, 3 and 5	121, 134, 147
12 Supply plate	For additional air supply and exhaust via a valve position	119, 132, 145

Solenoid valves VUVS-L/valve manifold VTUS

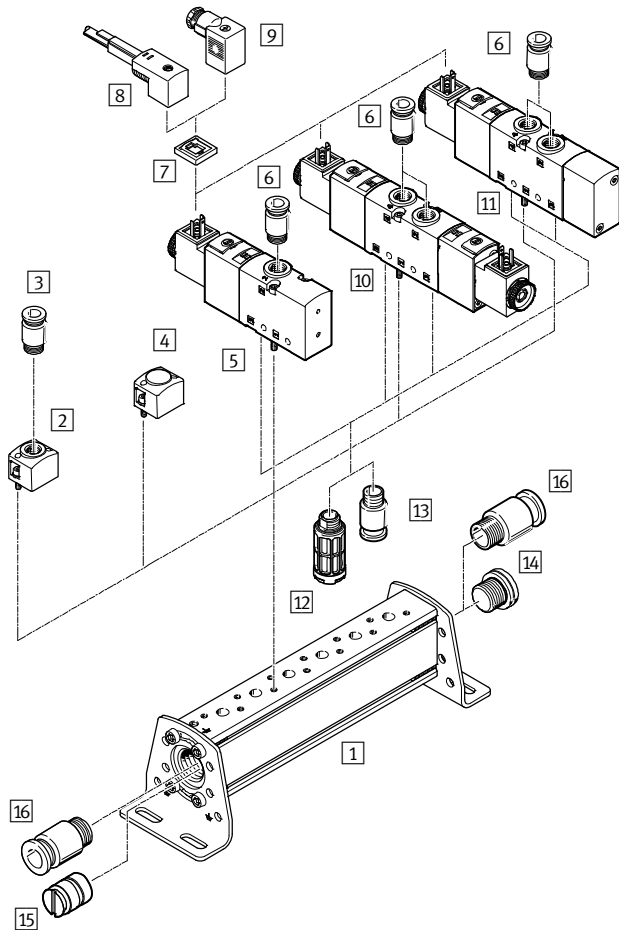
Peripherals overview VUVS-L

Designation	Brief description	→ Page/Internet
13 Cover plate	For covering unused valve positions	119, 132, 145
14 Solenoid valve	5/3-way valve and 5/2-way valve, double solenoid, with solenoid coil	72, 86, 102
15 Solenoid valve	5/2-way valve, single solenoid, with solenoid coil	72, 86, 102
16 Silencer	For ports 3 and 5, exhaust	121, 134, 147
17 Push-in fitting	For ports 1, 3 and 5, supply and exhaust ports with supply plate For ports 2 and 4, working port, on the valve	120, 133, 146
18 Illuminating seal	For indicating the switching status	74, 90, 105
19 Plug socket with cable	For solenoid valves VUVS	74, 90, 105
20 Plug socket	For solenoid valves VUVS	74, 90, 105

Solenoid valves VUVS-L/valve manifold VTUS

Peripherals overview VUVS-L

Supply manifold for mounting on both sides

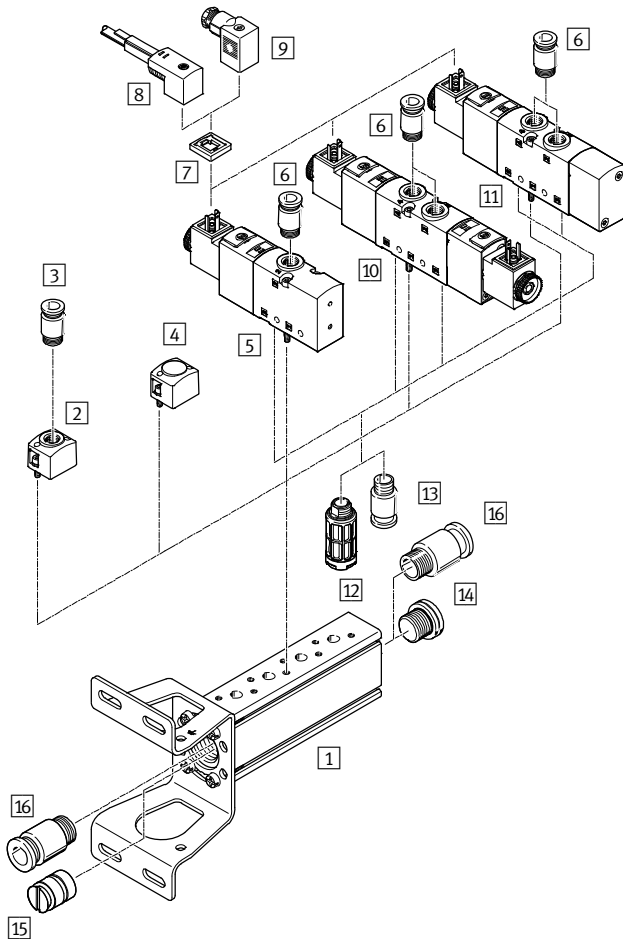


Designation	Brief description	→ Page/Internet
1 Supply manifold	–	118, 131, 144
2 Supply plate	For additional air supply via a valve position	119, 132, 145
3 Push-in fitting	For port 1	120, 133, 146
4 Cover plate	For covering unused valve positions	119, 132, 145
5 Solenoid valve	3/2-way valve, with solenoid coil	71, 84, 100
6 Push-in fitting	For ports 2, 4, working port	120, 133, 146
7 Illuminating seal	For indicating the switching status	74, 90, 105
8 Plug socket with cable	For solenoid valves VUVS	74, 90, 105
9 Plug socket	For solenoid valves VUVS	74, 90, 105
10 Solenoid valve	5/3-way valve and 5/2-way valve, double solenoid, with solenoid coil	72, 86, 102
11 Solenoid valve	5/2-way valve, single solenoid, with solenoid coil	72, 86, 102
12 Silencer	For ports 3 and 5, exhaust, on the valve	121, 134, 147
13 Push-in fitting	For ports 3 and 5, exhaust, on the valve	120, 133, 146
14 Blanking plug	For port 1, supply port	121, 134, 147
15 Separator	For creating pressure zones	121, 134, 147
16 Push-in fitting	For port 1, supply port	120, 133, 146

Solenoid valves VUVS-L/valve manifold VTUS

Peripherals overview VUVS-L

Supply manifold for mounting on one side

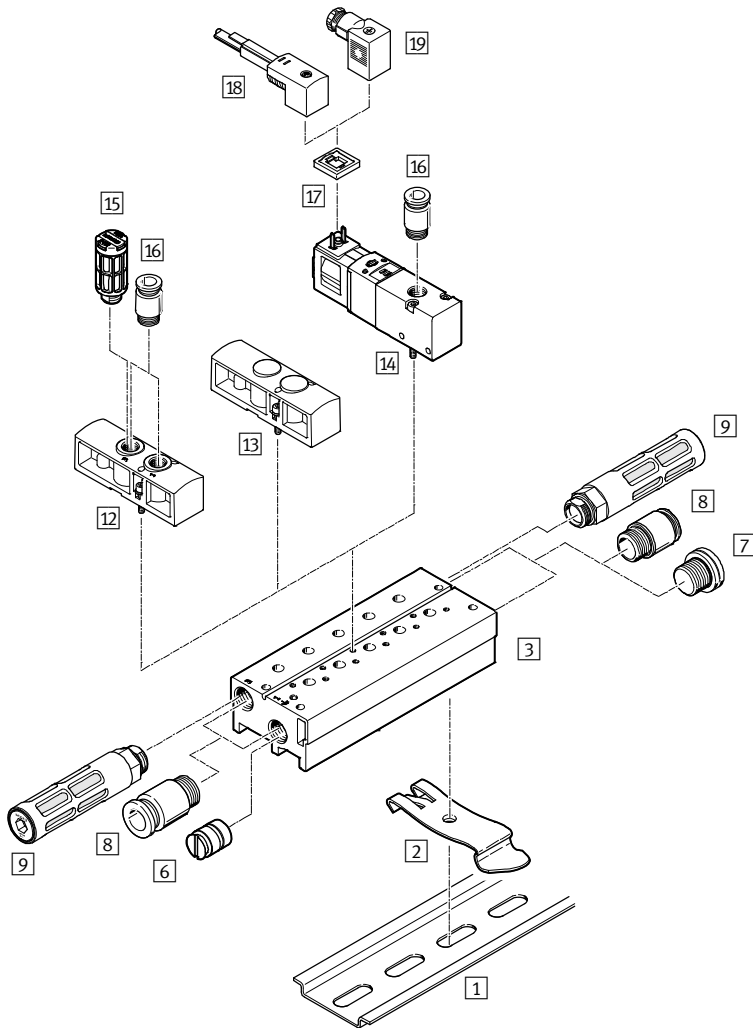


Designation	Brief description	→ Page/Internet
1 Supply manifold	–	118, 131, 144
2 Supply plate	For additional air supply via a valve position	119, 132, 145
3 Push-in fitting	For port 1, supply port	120, 133, 146
4 Cover plate	For covering unused valve positions	119, 132, 145
5 Solenoid valve	3/2-way valve, with solenoid coil	71, 84, 100
6 Push-in fitting	For ports 2 and 4, working port	120, 133, 146
7 Illuminating seal	For indicating the switching status	74, 90, 105
8 Plug socket with cable	For solenoid valves VUVS	74, 90, 105
9 Plug socket	For solenoid valves VUVS	74, 90, 105
10 Solenoid valve	5/3-way valve and 5/2-way valve, double solenoid, with solenoid coil	72, 86, 102
11 Solenoid valve	5/2-way valve, single solenoid, with solenoid coil	72, 86, 102
12 Silencer	For ports 3 and 5, exhaust, on the valve	121, 134, 147
13 Push-in fitting	For ports 3 and 5, on the valve	120, 133, 146
14 Blanking plug	For port 1, supply port	121, 134, 147
15 Separator	For creating pressure zones	121, 134, 147
16 Push-in fitting	For port 1, supply port	120, 133, 146

Solenoid valves VUVS-LK/valve manifold VTUS

Peripherals overview VUVS-LK

Manifold block for 3/2-way valves

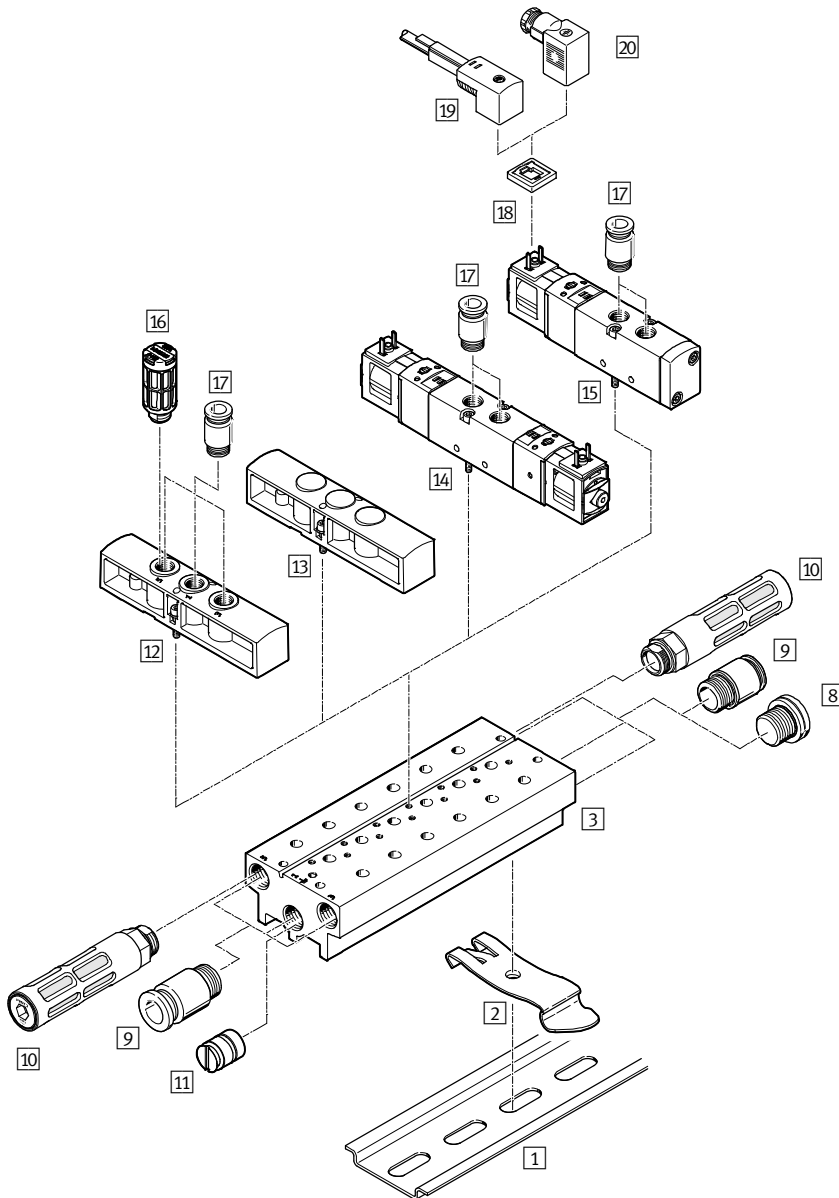


Designation	Brief description	→ Page/Internet
1 H-rail	–	–
2 H-rail mounting	For H-rail mounting	121, 134
3 Compact manifold block	For 3/2-way valves, no port for external pilot air supply	117, 130
6 Separator	For creating pressure zones in ports 1 and 3	121, 134
7 Blanking plug	For ports 1 and 3, supply and exhaust ports	121, 134
8 Push-in fitting	For ports 1 and 3, supply and exhaust ports	120, 133
9 Silencer	For port 3, exhaust	121, 134
12 Supply plate	For additional air supply and exhaust via a valve position	119, 132
13 Cover plate	For covering unused valve positions	119, 132
14 Solenoid valve	3/2-way valve, with solenoid coil	52, 61
15 Silencer	For port 3, exhaust	121, 134
16 Push-in fitting	For ports 1 and 3, supply and exhaust ports with supply plate, for port 2, working port, on the valve	120, 133
17 Illuminating seal	For indicating the switching status	52, 61
18 Plug socket with cable	For solenoid valves VUVS	52, 61
19 Plug socket	For solenoid valves VUVS	52, 61

Solenoid valves VUVS-LK/valve manifold VTUS

Peripherals overview VUVS-LK

Manifold block for 5/2-way valves



Designation	Brief description	→ Page/Internet
1 H-rail	–	–
2 H-rail mounting	For H-rail mounting	121, 134
3 Compact manifold block	For 5/2-way valves, no port for external pilot air supply	117, 130
8 Blanking plug	For ports 1, 3 and 5, supply and exhaust ports	121, 134
9 Push-in fitting	For ports 1, 3 and 5, supply and exhaust ports	120, 133
10 Silencer	For ports 3 and 5, exhaust	121, 134
11 Separator	For creating pressure zones in ports 1, 3 and 5	121, 134
12 Supply plate	For additional air supply and exhaust via a valve position	119, 132

Solenoid valves VUVS-LK/valve manifold VTUS

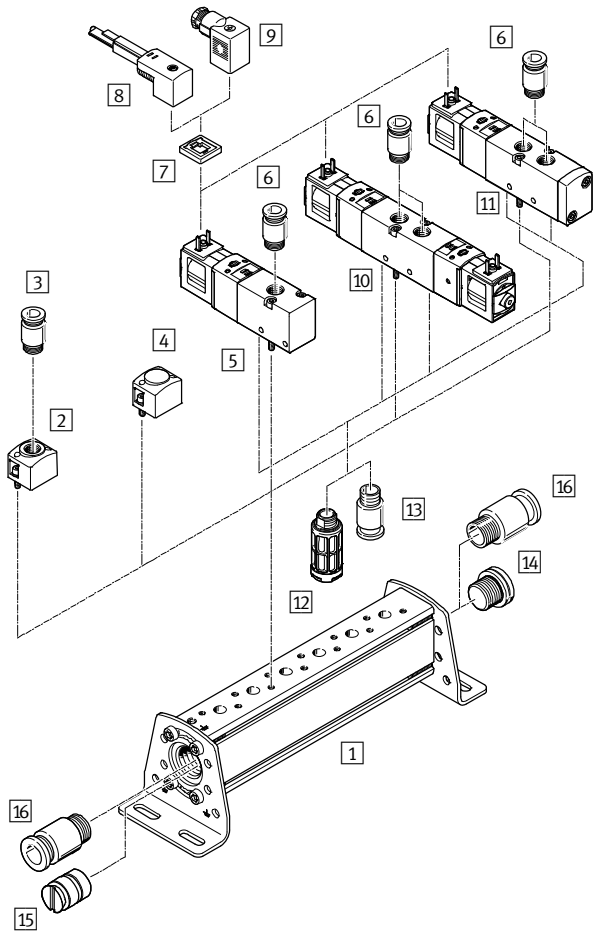
Peripherals overview VUVS-LK

Designation	Brief description	→ Page/Internet
13 Cover plate	For covering unused valve positions	119, 132
14 Solenoid valve	5/2-way valve, double solenoid, with solenoid coil	52, 61
15 Solenoid valve	5/2-way valve, single solenoid, with solenoid coil	52, 61
16 Silencer	For ports 3 and 5, exhaust	121, 134
17 Push-in fitting	For ports 1, 3 and 5, supply and exhaust ports with supply plate For ports 2 and 4, working port, on the valve	120, 133
18 Illuminating seal	For indicating the switching status	52, 61
19 Plug socket with cable	For solenoid valves VUVS	52, 61
20 Plug socket	For solenoid valves VUVS	52, 61

Solenoid valves VUVS-LK/valve manifold VTUS

Peripherals overview VUVS-LK

Supply manifold for mounting on both sides

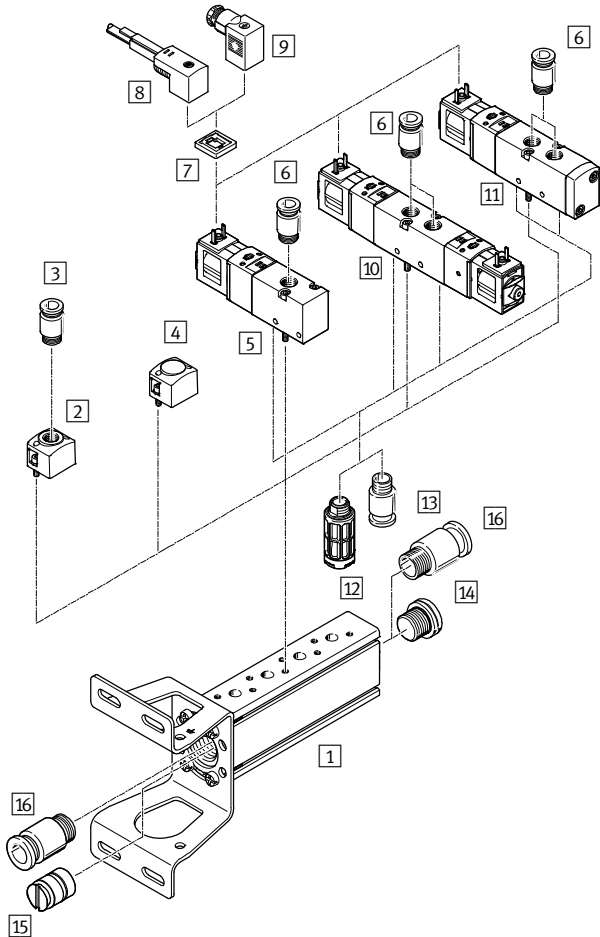


Designation	Brief description	→ Page/Internet
1 Supply manifold	–	118, 131
2 Supply plate	For additional air supply via a valve position	119, 132
3 Push-in fitting	For port 1	120, 133
4 Cover plate	For covering unused valve positions	119, 132
5 Solenoid valve	3/2-way valve, with solenoid coil	52, 61
6 Push-in fitting	For ports 2, 4, working port	120, 133
7 Illuminating seal	For indicating the switching status	52, 61
8 Plug socket with cable	For solenoid valves VUVS	52, 61
9 Plug socket	For solenoid valves VUVS	52, 61
10 Solenoid valve	5/2-way valve, double solenoid, with solenoid coil	52, 61
11 Solenoid valve	5/2-way valve, single solenoid, with solenoid coil	52, 61
12 Silencer	For ports 3 and 5, exhaust, on the valve	121, 134
13 Push-in fitting	For ports 3 and 5, exhaust, on the valve	120, 133
14 Blanking plug	For port 1, supply port	121, 134
15 Separator	For creating pressure zones	121, 134
16 Push-in fitting	For port 1, supply port	120, 133

Solenoid valves VUVS-LK/valve manifold VTUS

Peripherals overview VUVS-LK


Supply manifold for mounting on one side



Designation	Brief description	→ Page/Internet
1 Supply manifold	–	118, 131
2 Supply plate	For additional air supply via a valve position	119, 132
3 Push-in fitting	For port 1, supply port	120, 133
4 Cover plate	For covering unused valve positions	119, 132
5 Solenoid valve	3/2-way valve, with solenoid coil	52, 61
6 Push-in fitting	For ports 2 and 4, working port	120, 133
7 Illuminating seal	For indicating the switching status	52, 61
8 Plug socket with cable	For solenoid valves VUVS	52, 61
9 Plug socket	For solenoid valves VUVS	52, 61
10 Solenoid valve	5/2-way valve, double solenoid, with solenoid coil	52, 61
11 Solenoid valve	5/2-way valve, single solenoid, with solenoid coil	52, 61
12 Silencer	For ports 3 and 5, exhaust, on the valve	121, 134
13 Push-in fitting	For ports 3 and 5, on the valve	120, 133
14 Blanking plug	For port 1, supply port	121, 134
15 Separator	For creating pressure zones	121, 134
16 Push-in fitting	For port 1, supply port	120, 133

Valve manifold VTUS

Technical data – Valve manifold

-  Flow rate
- Size 20:
up to 700 l/min
- Size 25:
up to 1300 l/min
- Size 30:
up to 2300 l/min



General technical data				
Size		20	25	30
Valve manifold configuration		Fixed grid		
Valve width	[mm]	21	26.5	31
Valve design		Piston spool		
Electrical actuation		Individual connection		
Reset method for valves		Pneumatic or mechanical spring		
Pilot air supply		Internal or external		
Direction of flow		Reversible with restrictions		
Suitability for vacuum		Yes with external pilot air supply		
Non-overlapping		Yes		
Sealing principle		Soft		
Max. no. of valve positions		16 (a maximum of 18 valve positions with extension for standard manifold block)		
Max. number of pressure zones		9		
Exhaust air function		With flow control		
Type of actuation		Electrical		
Nominal operating voltage	[V DC]	12, 24		
	[V AC]	24, 110, 120, 230, 240		
Standard nominal flow rate	[qnN]	600 ... 700	1000 ... 1300	1600 ... 2300
Pilot air port	Standard manifold block	12/14	G1/8	G1/8
	Compact manifold block	12/14	On the valve	On the valve
	Supply manifold	12/14	On the valve	On the valve
Pilot exhaust air port	82/84	M5		
Mounting position		Any		
Degree of protection		IP65, IP67		
		With plug socket, to IEC 60529		
Permissible voltage fluctuations	[%]	± 10		
CRC ¹⁾		2 ¹⁾		
Note on materials		RoHS compliant		
Information on materials: seals		HNBR, NBR		

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.



New
Size 30

FESTO

Valve manifold VTUS

Technical data – Valve manifold

Operating and environmental conditions	
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]
Pilot medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Operating pressure [bar]	-0.9 ... +10
Pilot pressure [bar]	1.5 ... 10
Ambient temperature [°C]	-10 ... +50
Temperature of medium [°C]	-10 ... +50
Storage temperature [°C]	-20 ... +60

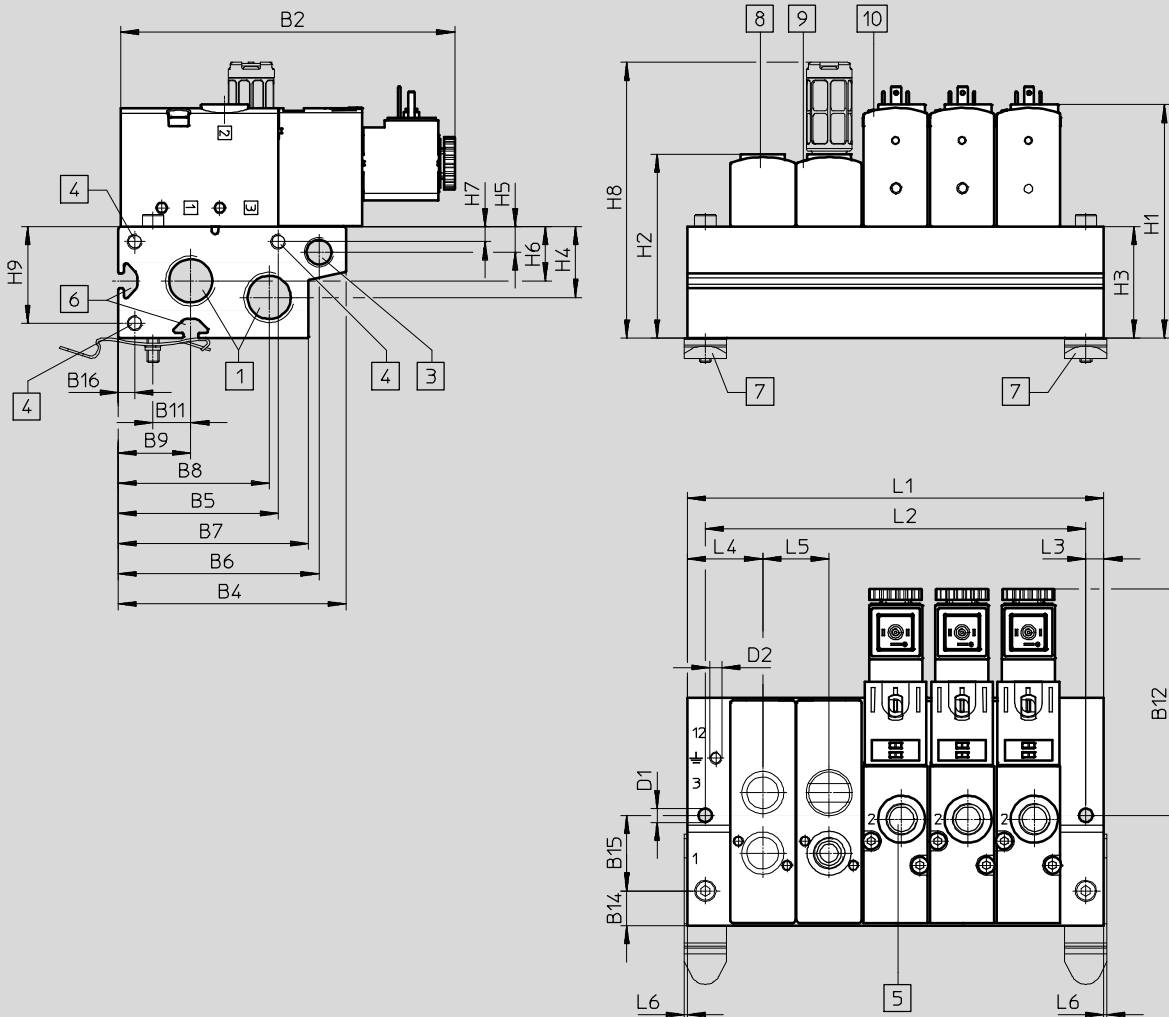
Valve manifold VTUS

Technical data – Valve manifold

Dimensions – Valve manifold

Download CAD data → www.festo.com

With 3/2-way valves, standard manifold block



- | | | | |
|--|--|--|--|
| <p>1 Ports 1 and 3
(at both ends):
G3/8 for VTUS-20
G1/2 for VTUS-25
G3/4 for VTUS-30</p> | <p>4 Thread for extension module:
M5x15.5 for VTUS-20
M5x18 for VTUS-25 and
VTUS-30</p> | <p>6 Profile slot IPM-05 system 5 for
VTUS-20 and VTUS-25, profile
slot IPM-08 system 8 for
VTUS-30</p> | <p>9 Supply plate,
port 1 and 3:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30</p> |
| <p>3 Port 12 (at both ends):
G1/8 for VTUS-20, VTUS-25
and VTUS-30</p> | <p>5 Port 2:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30</p> | <p>7 H-rail mounting VAME-T-M4 for
VTUS-20
VAME-T-M5 for VTUS-25
VAME-T-M6 for VTUS-30</p> | <p>10 3/2-way valve</p> |
| | | <p>8 Blanking plate</p> | |



New
Size 30

FESTO

Valve manifold VTUS

Technical data – Valve manifold

Type	B2	B4	B5	B6	B7	B8	B9	B11	B12	B14	B15	B16
VTUS-20	110.7	75.5	53	66.5	63	50	24	12.5	75	11.5	25	5.5
VTUS-25	129.2	93	67.5	80.5	78	62	30	16	84.2	14	32	6
VTUS-30	144.9	108.2	79	93.2	94.7	75.7	36.2	19	91.2	17.2	38	6.5

Type	D1 Ø	D2	H1	H2	H3	H4	H5	H6	H7	H8	H9	L3	L4	L5	L6
VTUS-20	4.5	M4x6.5	77.4	61	37	23.5	8.5	18	5	91.4	32	6	25	22	1
VTUS-25	4.5	M4x9	95.5	71	45	25	9	22	5	123.4	39	6	29.8	27.5	1
VTUS-30	4.5	M5x11	118	91	61	35	9	28.5	6.5	170.1	54.5	7.5	34	32	–

Type	Valve positions	2	3	4	5	6	7	8	9	10
VTUS-20	L1 [mm]	72	94	116	138	160	182	204	226	248
	L2 [mm]	60	82	104	126	148	170	192	214	236
VTUS-25	L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295
VTUS-30	L1 [mm]	100	132	164	196	228	260	292	324	356
	L2 [mm]	85	117	149	181	213	245	277	309	341

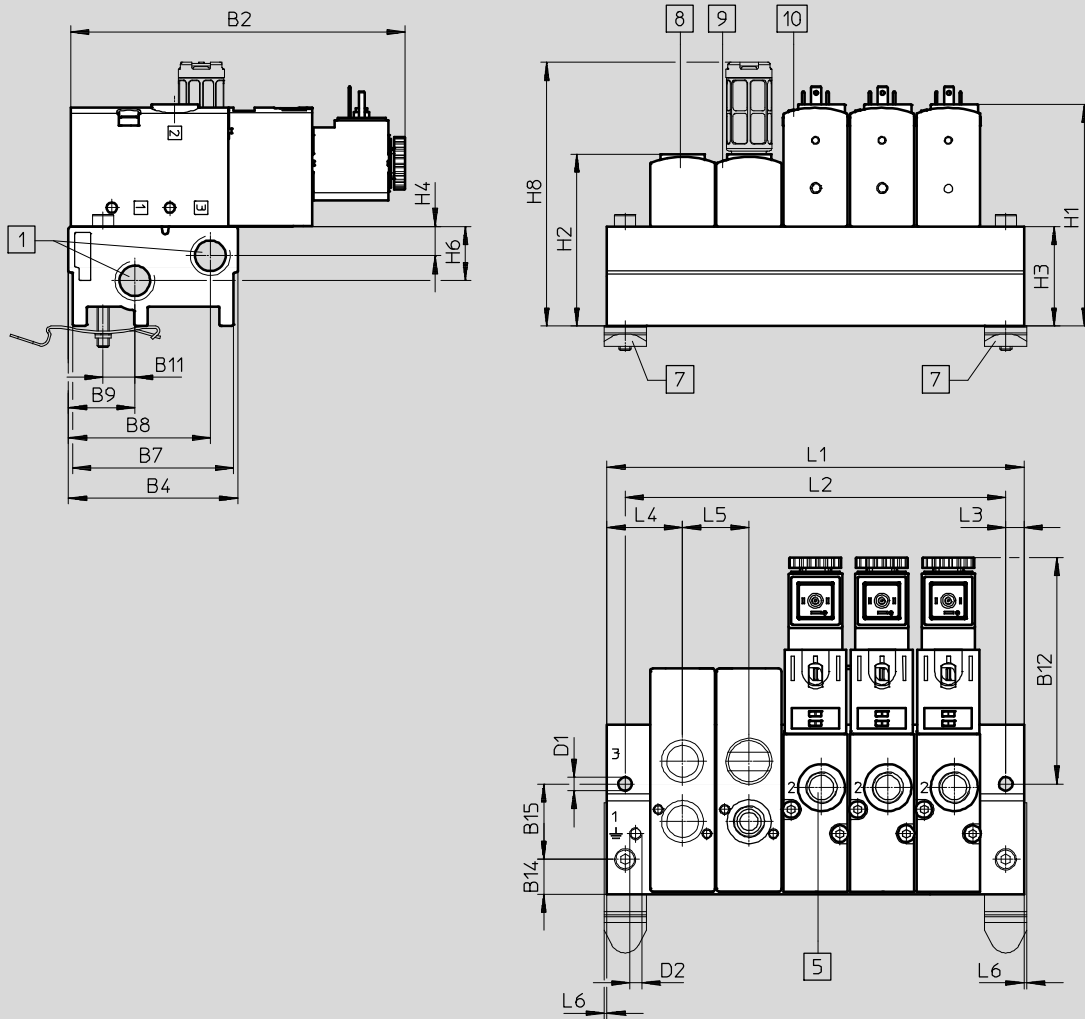
Valve manifold VTUS

Technical data – Valve manifold

Dimensions – Valve manifold

Download CAD data → www.festo.com

With 3/2-way valves, compact manifold block



- | | | | |
|--|--|--|---|
| <p>1 Ports 1 and 3
(at both ends):
G1/4 for VTUS-20
G3/8 for VTUS-25
G1/2 for VTUS-30</p> | <p>5 Port 2:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30</p> | <p>7 H-rail mounting VAME-T-M4 for
VTUS-20
VAME-T-M5 for VTUS-25
VAME-T-M6 for VTUS-30</p> <p>8 Blanking plate</p> | <p>9 Supply plate,
port 1 and 3:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30</p> <p>10 3/2-way valve</p> |
|--|--|--|---|

Valve manifold VTUS

Technical data – Valve manifold

Type	B2	B4	B7	B8	B9	B11	B12	B14	B15
VTUS-20	110.7	56.1	53.1	47	22	10.5	75	11.5	25
VTUS-25	129.2	70.3	67.3	58.8	30	16	84	14	32
VTUS-30	144.9	83	80	69.4	36	19	91.2	17	38

Type	D1 Ø	D2	H1	H2	H3	H4	H6	H8	L3	L4	L5	L6
VTUS-20	4.5	M4x6.5	73.4	57	33	9.7	18	87.4	6	25	22	1
VTUS-25	5.5	M4x9	84.5	60	34	13.5	20	112.4	6	29.8	27.5	1
VTUS-30	6.3	M5x11	99.5	72.5	42.5	17.5	26	151.6	7.5	38	32	–

Type	Valve positions	2	3	4	5	6	7	8	9	10
VTUS-20	L1 [mm]	72	94	116	138	160	182	204	226	248
	L2 [mm]	60	82	104	126	148	170	192	214	236
VTUS-25	L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295
VTUS-30	L1 [mm]	100	132	164	196	228	260	292	324	356
	L2 [mm]	85	117	149	181	213	245	277	309	341

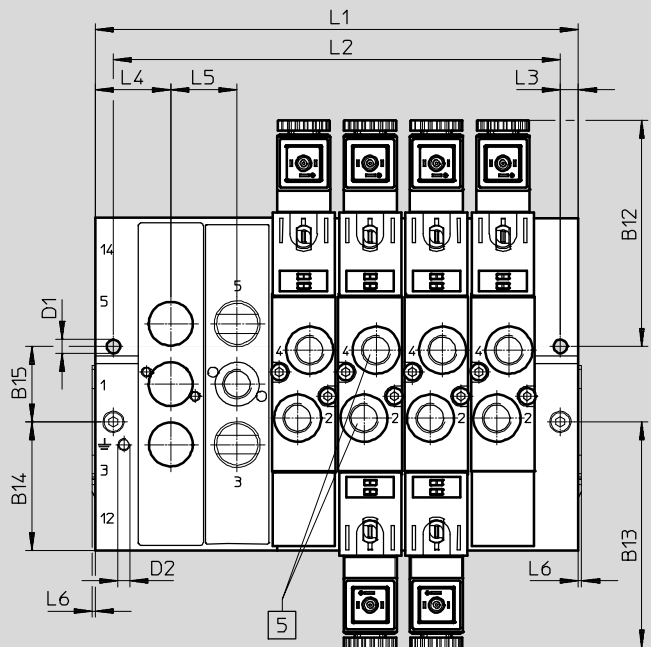
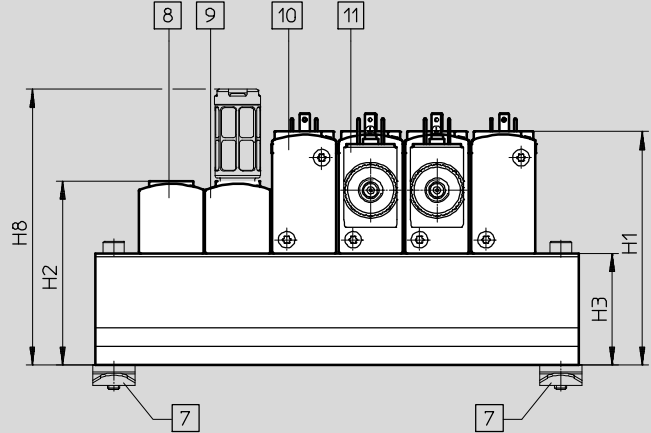
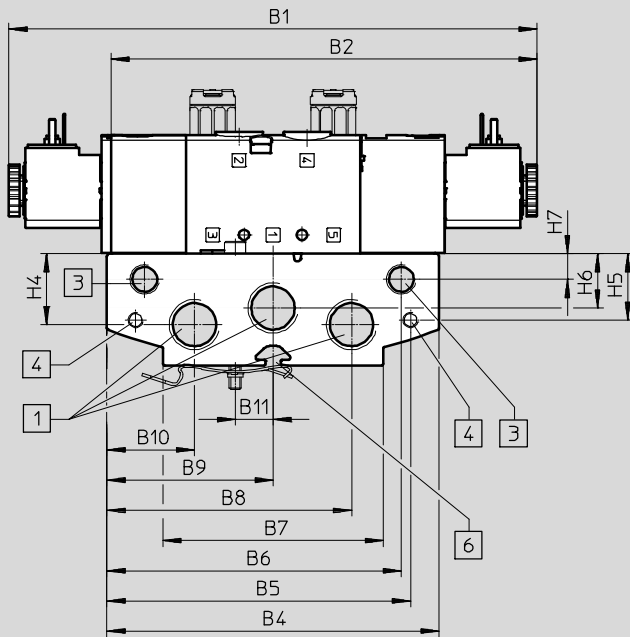
Valve manifold VTUS

Technical data – Valve manifold

Dimensions – Valve manifold

Download CAD data → www.festo.com

With 5/2- and 5/3-way valves, standard manifold block



- 1 Ports 1, 3 and 5 (at both ends):
G3/8 for VTUS-20
G1/2 for VTUS-25
G3/4 for VTUS-30
- 3 Ports 12 and 14 (at both ends):
G1/8 for VTUS-20, VTUS-25 for VTUS-30

- 4 Thread for extension module:
M5x15.5 for VTUS-20
M5x18 for VTUS-25 and VTUS-30
- 5 Ports 2 and 4:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30
- 6 Profile slot IPM-05 system 5

- 7 H-rail mounting VAME-T-M4 for VTUS-20
VAME-T-M5 for VTUS-25
VAME-T-M6 for VTUS-30
- 8 Blanking plate
- 9 Supply plate, ports 1, 3 and 5:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30

- 10 5/2-way valve, single solenoid
- 11 5/2-way valve, double solenoid, or 5/3-way valve

**New**

Size 30

FESTO

Valve manifold VTUS

Technical data – Valve manifold

Type	B1	B2	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15
VTUS-20	174.9	141.2	110	100.5	97.5	73	81	55	29	12.5	75	75	42.5	25
VTUS-25	200.3	162.2	126	119	113.5	80	95	63	31	16	84.2	84.2	47	32
VTUS-30	220.3	180.7	144	137	129	104	111.5	72	32.5	19	91.2	91.2	38	25

Type	D1 Ø	D2	H1	H2	H3	H4	H5	H6	H7	H8	L3	L4	L5	L6
VTUS-20	4.5	M4x6.5	77.4	61	37	23.5	22	18	8.5	91.4	6	25	22	1
VTUS-25	5.5	M4x9	95.5	71	45	25	22	22	9	123.4	6	29.8	27.5	1
VTUS-30	6.3	M5x11	118	91	61	35	22	28.5	9	170.1	7.5	34	32	-

Type	Valve positions	2	3	4	5	6	7	8	9	10
VTUS-20	L1 [mm]	72	94	116	138	160	182	204	226	248
	L2 [mm]	60	82	104	126	148	170	192	214	236
VTUS-25	L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295
VTUS-30	L1 [mm]	100	132	164	196	228	260	292	324	356
	L2 [mm]	85	117	149	181	213	245	277	309	341

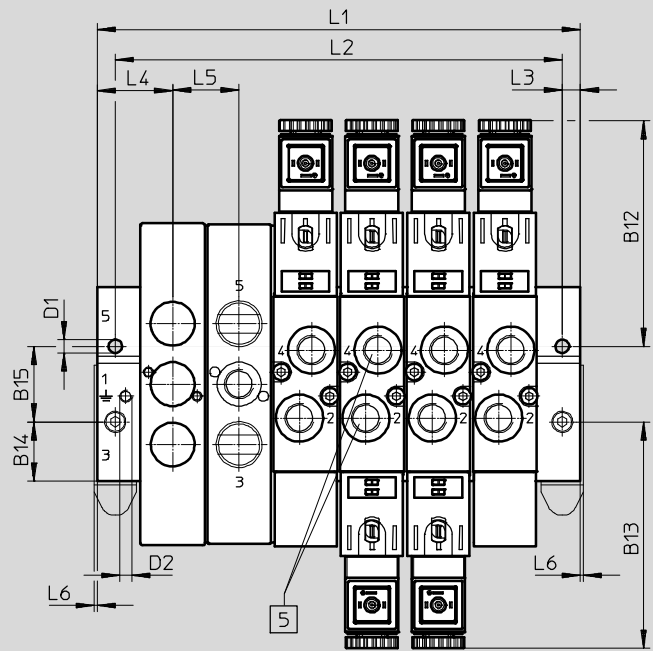
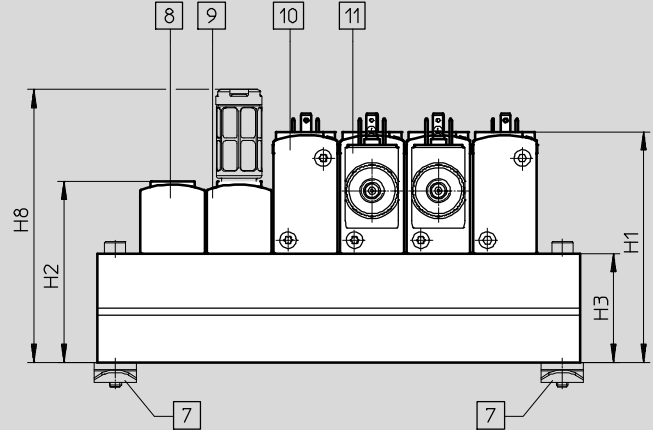
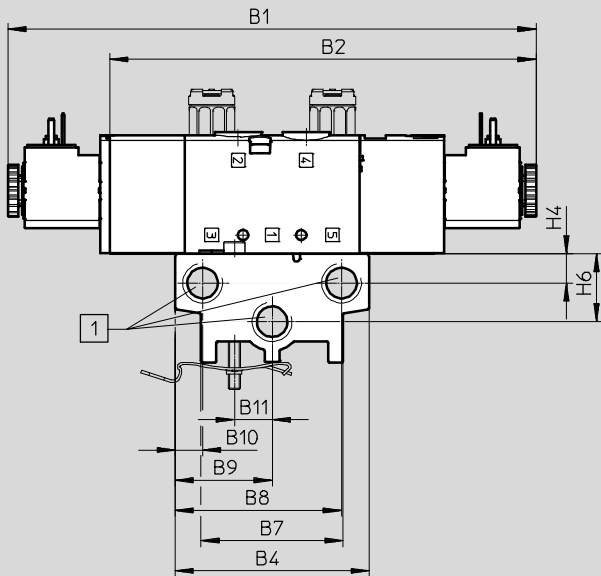
Valve manifold VTUS

Technical data – Valve manifold

Dimensions – Valve manifold

Download CAD data → www.festo.com

With 5/2- and 5/3-way valves, compact manifold block



- 1 Ports 1, 3 and 5:
G1/4 for VTUS-20
G3/8 for VTUS-25
G1/2 for VTUS-30
- 5 Ports 2 and 4:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30

- 7 H-rail mounting VAME-T-M4 for VTUS-20
VAME-T-M5 for VTUS-25
VAME-T-M6 for VTUS-30
- 8 Blanking plate

- 9 Supply plate,
ports 1, 3 and 5:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30

- 10 5/2-way valve, single solenoid
- 11 5/2-way valve, double solenoid, or 5/3-way valve



New
Size 30

FESTO

Valve manifold VTUS

Technical data – Valve manifold

Type	B1	B2	B4	B7	B8	B9	B10	B11	B12	B13	B14	B15
VTUS-20	174.9	141.2	64.2	47	55.1	32.1	9.1	12.5	75	75	19.6	25
VTUS-25	200.3	162.2	80.5	61.5	69	40.3	11.5	16	84.2	84.2	24.3	32
VTUS-30	220.3	180.7	94	77	80.4	47	13.6	19	91.2	91.2	28	38

Type	D1 Ø	D2	H1	H2	H3	H4	H6	H8	L3	L4	L5	L6
VTUS-20	4.5	M4x6.5	76.4	60	36	9.7	22.5	90.4	6	25	22	1
VTUS-25	5.5	M4x9	84.5	60	34	13.5	20	112.4	6	29.8	27.5	1
VTUS-30	6.3	M5x11	99.5	72.5	42.5	17.5	26	151.6	7.5	34	32	–

Type	Valve positions	2	3	4	5	6	7	8	9	10
VTUS-20	L1 [mm]	72	94	116	138	160	182	204	226	248
	L2 [mm]	60	82	104	126	148	170	192	214	236
VTUS-25	L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295
VTUS-30	L1 [mm]	100	132	164	196	228	260	292	324	356
	L2 [mm]	85	117	149	181	213	245	277	309	341

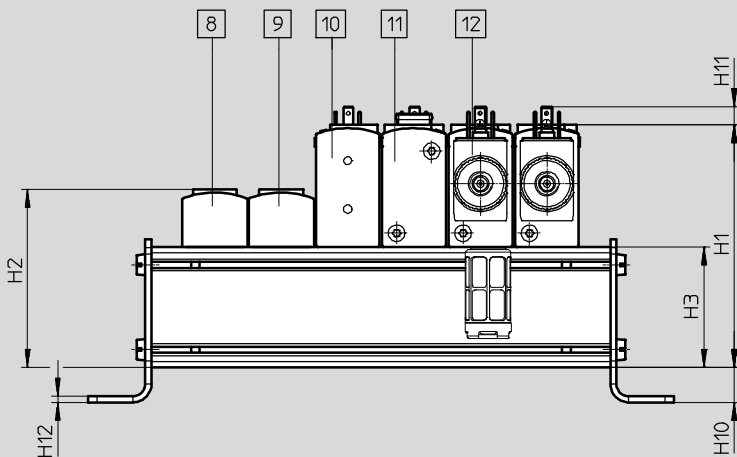
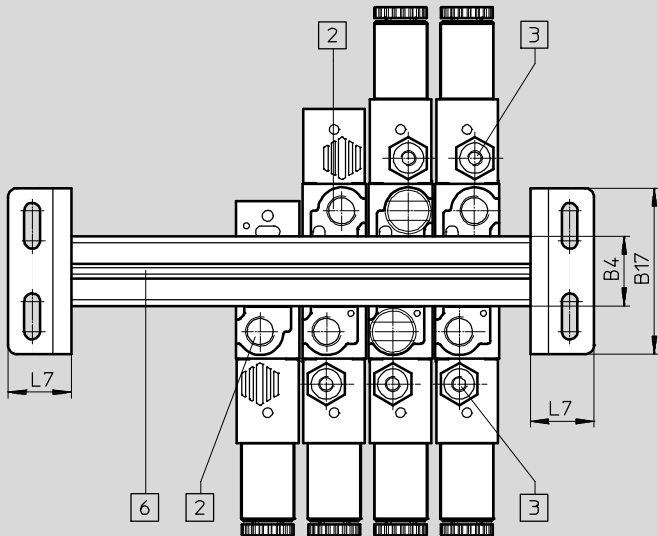
Valve manifold VTUS

Technical data – Valve manifold

Dimensions – Supply manifold

Download CAD data → www.festo.com

Mounting on both sides



- | | | | |
|--|---|---|--|
| <p>2 Port 3 and 5:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/4 for VTUS-30</p> | <p>3 Port 12/14:
M5 for VTUS-20
M5 for VTUS-25
G1/8 for VTUS-30</p> <p>6 Profile slot IPM-05 system 5</p> | <p>8 Blanking plate</p> <p>9 Supply plate,
port 1:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30</p> | <p>10 3/2-way valve</p> <p>11 5/2-way valve, single solenoid</p> <p>12 5/2-way valve, double solenoid, or 5/3-way valve</p> |
|--|---|---|--|

Type	B4	B17	H1	H2	H3	H10	H11	H12	L7
VTUS-20	23	55	80.4	59	40	11.5	6.3	2	21
VTUS-25	28.7	75	102.5	78	52	18	6.7	2	24
VTUS-30	34	85	122	95	65	17.5	6.7	2.5	26

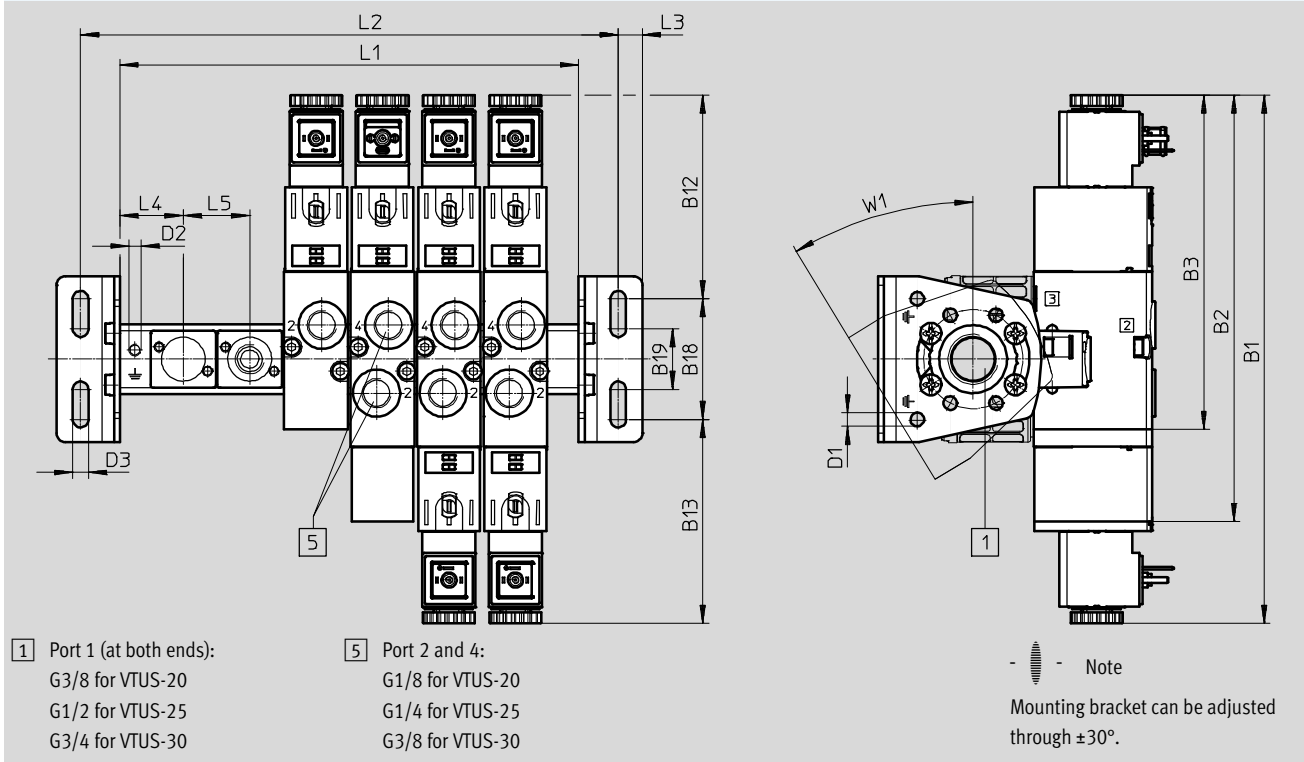
Valve manifold VTUS

Technical data – Valve manifold

Dimensions – Supply manifold

Download CAD data → www.festo.com

Mounting on both sides



Type	B1	B2	B3	B12	B13	B18	B19
VTUS-20	174.9	141.2	110.7	67.5	67.5	40	20
VTUS-25	200.3	162.2	129.2	70.2	70.2	60	35
VTUS-30	220.3	180.7	144.9	77.7	77.7	65	35

Type	D1 Ø	D2	D3 Ø	L3	L4	L5	W1
VTUS-20	4.5	M4x6.5	5.2	8	21	22	30°
VTUS-25	4.5	M4x9	6.6	8	29.8	27.5	30°
VTUS-30	5.5	M5x11	8.6	9	34	32	30°

Type	Valve positions	2	3	4	5	6	7	8	9	10
VTUS-20	L1 [mm]	64	86	108	130	152	174	196	218	240
	L2 [mm]	90	112	134	156	178	200	222	244	266
VTUS-25	L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2 [mm]	119	146.5	174	201.5	229	256.5	284	311.5	339
VTUS-30	L1 [mm]	100	132	164	196	228	260	292	324	356
	L2 [mm]	134	166	198	230	262	294	326	358	390

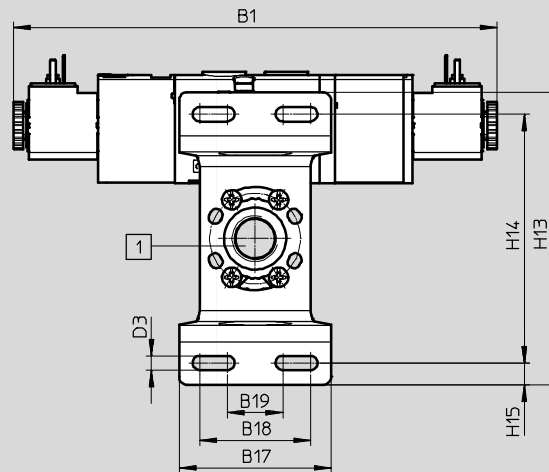
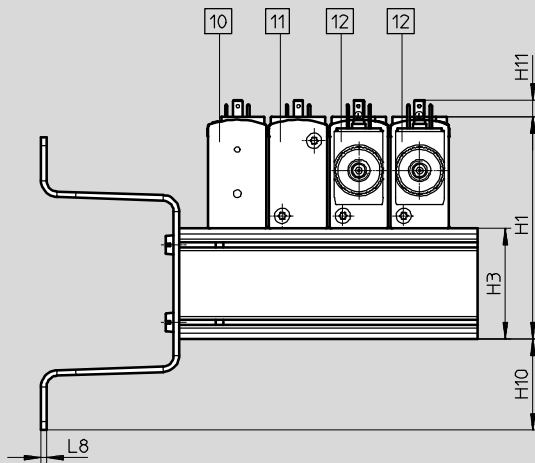
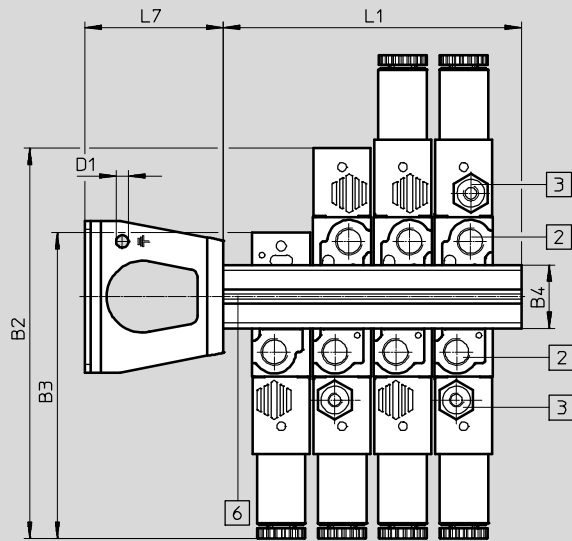
Valve manifold VTUS

Technical data – Valve manifold

Dimensions – Supply manifold

Download CAD data → www.festo.com


Mounting on one side



- 1** Port 1 (at both ends):
G3/8 for VTUS-20
G1/2 for VTUS-25
G3/4 for VTUS-30
- 2** Port 3 and 5:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30

- 3** Ports 12 and 14:
M5 for VTUS-20 and VTUS-25
G1/8 for VTUS-30

- 6** Profile slot IPM-05 system 5
- 10** 3/2-way valve
- 11** 5/2-way valve, single solenoid
- 12** 5/2-way valve, double solenoid, or 5/3-way valve

 Note
Mounting bracket can be adjusted through ±30°.

**New**

Size 30

FESTO

Valve manifold VTUS

Technical data – Valve manifold

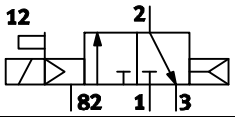
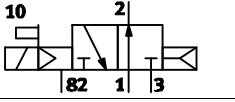
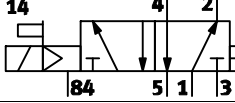
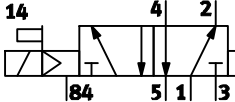
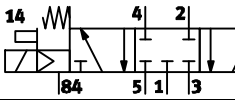
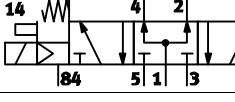
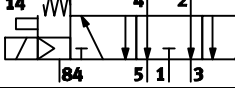
Type	B1	B2	B4	B17	B18	B19
VTUS-20	174.9	110.7	23	55	40	20
VTUS-25	200.3	129.2	28.7	80	60	35
VTUS-30	220.3	144.9	34	85	65	35

Type	D1 Ø	D3 Ø	H1	H3	H10	H11	H13	H14	H15	L7	L8
VTUS-20	4.5	5.2	80.4	40	33	6.3	106	90	8	50	2
VTUS-25	4.5	6.6	102.5	52	38	6.7	128	112	8	64	2
VTUS-30	5.5	8.6	122	65	38	6.7	146	128	9	74	2.5

Type	Valve positions	2	3	4
VTUS-20	L1 [mm]	64	86	108
VTUS-25	L1 [mm]	87	114.5	142
VTUS-30	L1 [mm]	100	132	164

Solenoid valves VUVS


Order code – Solenoid valves

VUVS	-	L							
Valve type									
In-line valve		L							
Design principle									
Piston spool with sealing cartridge		-							
Piston spool with sealing ring		K							
Size									
Valve width	21 mm	20							
	26.5 mm	25							
	31 mm	30							
Valve functions									
									M32C
									M32U
									M52
									B52
									P53C
									P53U
									P53E
Type of reset									
Pneumatic spring for M52 and M32									A
Mechanical spring for M52 and M32									M
For B52 and P53									-
Pilot air supply									
Internal									-
External									Z

Version									
									- Extended features
									S Focused features
Degree of protection for electrics									
									- Standard
									S8 IP67
Electrical connection									
									- None
									C1 Port pattern type C, to EN 175301
									B2 Port pattern type B, industry standard
Nominal operating voltage									
									- None
									1 24 V DC
									1A 24 V AC
									3W 230/240 V AC
									5 12 V DC
									16B 110/120 V AC
Valve pilot control interface									
									- Standard
Exhausting									
									- Without fitting
									QN With fitting
									U1 Silencer with metal housing
									U3 Silencer with polymer housing
Pneumatic connection									
									G18 G1/8
									G14 G1/4
									G38 G3/8
									Q4 Push-in connector 4 mm
									Q6 Push-in connector 6 mm
									Q8 Push-in connector 8 mm
									Q10 Push-in connector 10 mm
									Q12 Push-in connector 12 mm
Manual override									
									D Non-detenting, detenting without accessories
									S Covered
									H Non-detenting

Solenoid valves VUVS-LK, size 20

Technical data

 - Flow rate
Up to 550 l/min

 - Valve width
21 mm

 - Voltage
24 V DC



General technical data			
Valve function		3/2	5/2
Order code for valves		M32C	M52 B52
Valve width	[mm]	21	
Nominal width	[mm]	5.2	
Design		Piston spool	
Direction of flow		Non-reversible	
Pilot air supply		Internal	
Type of actuation		Piloted	
Manual override		Non-detenting, detenting	
Non-overlapping		Yes	
Sealing principle		Soft	
Type of mounting		Optionally via through-hole or on manifold rail	
Standard nominal flow rate	[qn]	550	550 550
Type of actuation		Electrical	
Mounting position		Any	
Exhaust air function		With flow control	
Pneumatic port		G $\frac{1}{8}$	
1, 2, 4, 3, 5		G $\frac{1}{8}$	
CRC ¹⁾		1	

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

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

Technical data – 3/2-way valves		
Order code for valves		M32C
Normal position		Closed
Stable position		Monostable
Reset method		Pneumatic spring
Switching times	On	16
	Off	20
	Change-over	–
Product weight	[g]	120

Solenoid valves VUVS-LK, size 20

Technical data

Technical data – 5/2-way valves			
Order code for valves		M52	B52
Normal position		–	–
Stable position		Monostable	Bistable
Reset method		Pneumatic spring	–
Switching times	On	17	–
	Off	22	–
	Change-over	–	10
Product weight	[g]	145	200

Operating and environmental conditions				
Order code for valves		M32C	M52	B52
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]		
Pilot medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]		
Note on operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)		
Operating pressure	[bar]	1.5 ... 8	1.5 ... 8	1.5 ... 8
Ambient temperature	[°C]	–5 ... +50		
Temperature of medium	[°C]	–5 ... +50		

Electrical data	
Electrical connection	Plug type C
Operating voltage	[V DC] 24
Permissible voltage fluctuations	[%] ±10
Performance	[W] 2.4
Duty cycle ED	[%] 100
Degree of protection to EN 60529	IP65 with plug socket

Information on materials	
Housing	Wrought aluminium alloy
Seals	HNBR, NBR
Piston spool	Wrought aluminium alloy
Note on materials	RoHS compliant
	Contains PWIS (paint-wetting impairment substances)

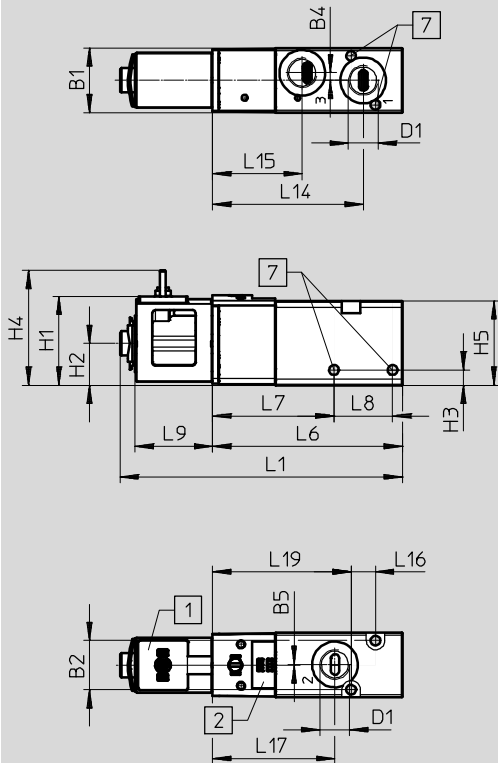
Solenoid valves VUVS-LK, size 20

Technical data

Dimensions

Download CAD data → www.festo.com

3/2-way valves, with solenoid coil



- 1 Solenoid coil interface type C
- 2 Location for inscription label
- 7 For screw M3

Type	B1	B2	B4	B5	D1	H1	H2	H3	H4	H5
VUVS-LK20-M32C-AD-G18-1C1-S	21.2	16.1	2.5	0.2	G1/8	29.2	13.7	5	37.8	27.7

Type	L1	L6	L7	L8	L9	L14	L15	L16	L17	L19
VUVS-LK20-M32C-AD-G18-1C1-S	92.6	62.3	39.8	19.2	25.4	49.4	29.4	8	40.1	45.4

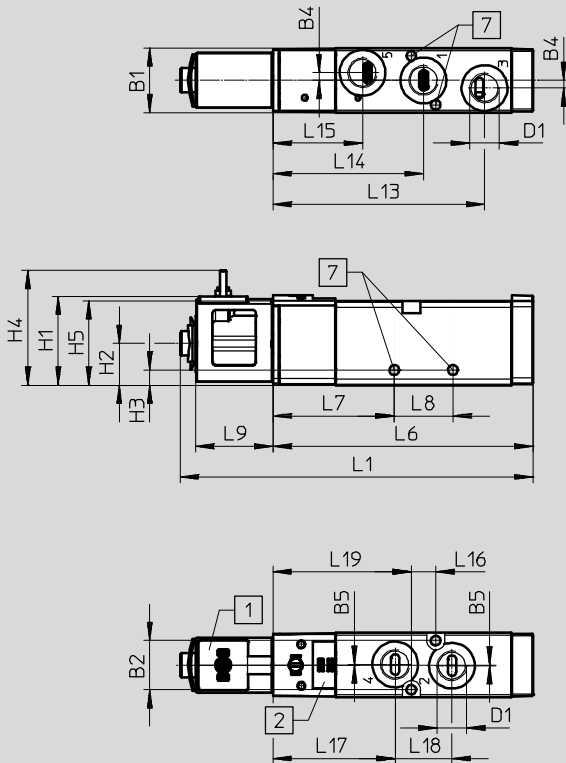
Solenoid valves VUVS-LK, size 20

Technical data

Dimensions

Download CAD data → www.festo.com

5/2-way single solenoid valves, with solenoid coil



- 1 Solenoid coil interface type C
- 2 Location for inscription label
- 7 For screw M3

Type	B1	B2	B4	B5	D1	H1	H2	H3	H4	H5
VUVS-LK20-M52-AD-G18-1C1-S	21.2	16.1	2.5	0.2	G1/8	29.2	13.7	5	37.8	27.7

Type	L1	L6	L7	L8	L9	L13	L14	L15	L16	L17	L18	L19
VUVS-LK20-M52-AD-G18-1C1-S	115.7	85.3	39.8	19.2	25.4	69.4	49.4	29.4	8	40.1	18.6	45.4

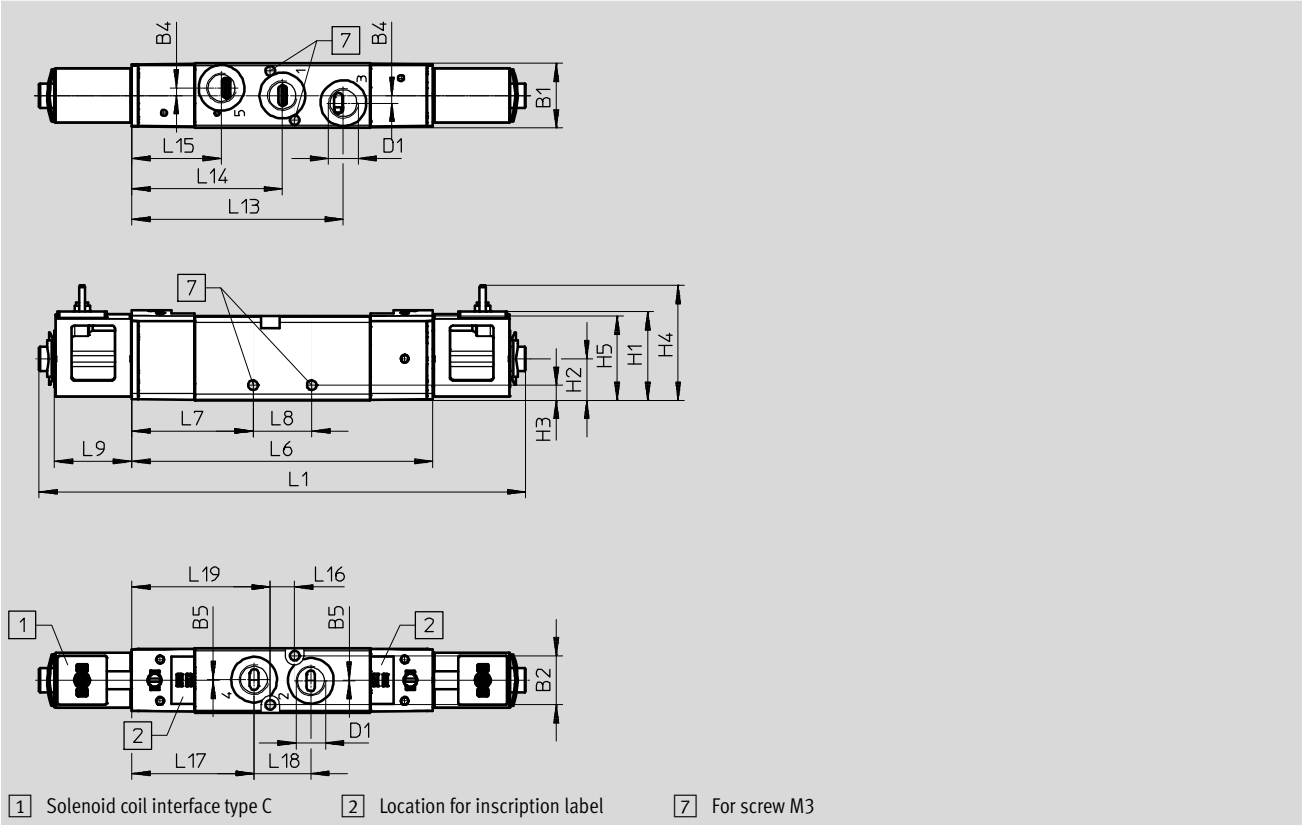
Solenoid valves VUVS-LK, size 20

Technical data

Dimensions

Download CAD data → www.festo.com

5/2-way double solenoid valves, with solenoid coil



Type	B1	B2	B4	B5	D1	H1	H2	H3	H4	H5
VUVS-LK20-B52-D-G18-1C1-S	21.2	16.1	2.5	0.2	G1/8	29.2	13.7	5	37.8	27.7

Type	L1	L6	L7	L8	L9	L13
VUVS-LK20-B52-D-G18-1C1-S	159.6	98.8	39.8	19.2	25.4	69.4

Type	L14	L15	L16	L17	L18	L19
VUVS-LK20-B52-D-G18-1C1-S	49.4	29.4	8	40.1	18.6	45.4

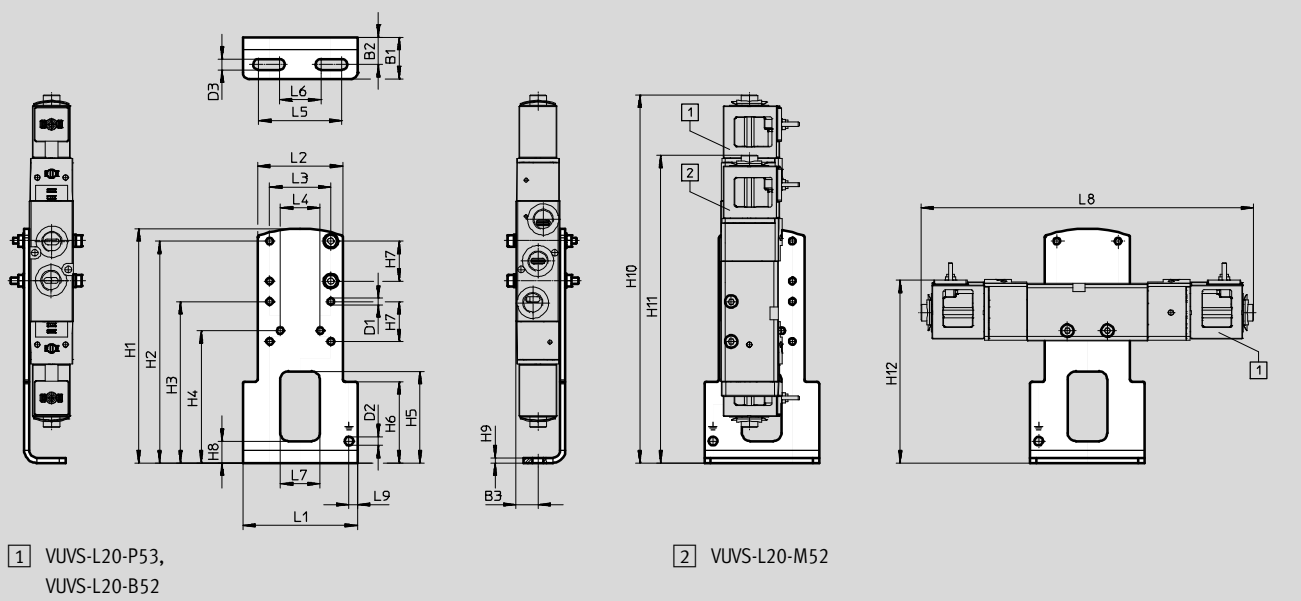
Solenoid valves VUVS-LK, size 20

Accessories

Dimensions

Download CAD data → www.festo.com

Foot mounting



Type		B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	H1	H2	H3	H4	H5
VAME-B10-20-A	VUVS-LK20-B52	20	13.1	10.6	3.2	4.2	5.2	112.5	106.5	77.5	63.5	44
	VUVS-LK20-M52											
	VUVS-LK20-M32											

Type		H6	H7	H8	H9	H10	H11	H12
VAME-B10-20-A	VUVS-LK20-B52	39	19.2	10.5	2.5	176.7	-	87.7
	VUVS-LK20-M52					-	147.7	
	VUVS-LK20-M32					109.8	-	

Type		L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-20-A	VUVS-LK20-B52	55	41	29.4	19.2	40	20	19	159.6	4.1
	VUVS-LK20-M52								115.7	
	VUVS-LK20-M32								92.7	

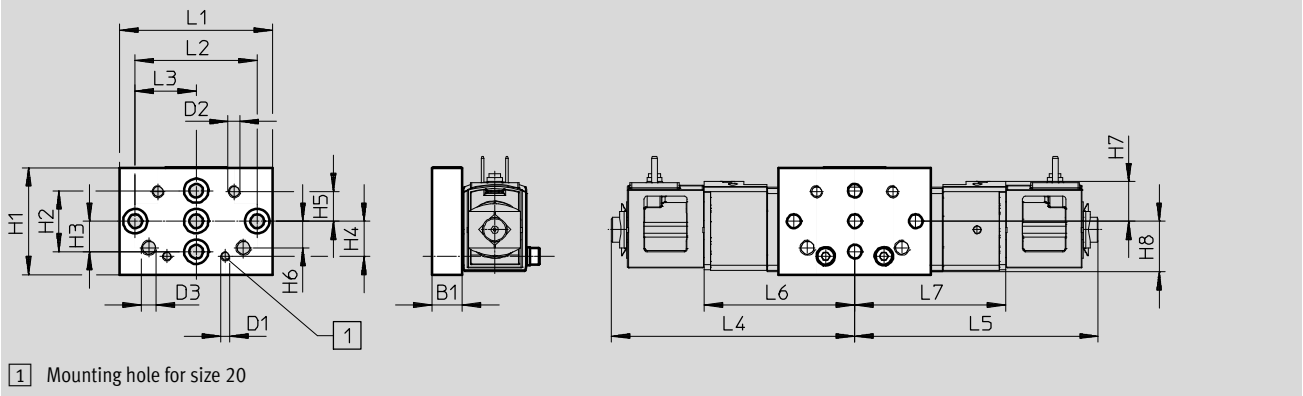
Solenoid valves VUVS-LK, size 20

Accessories

Dimensions

Download CAD data → www.festo.com

Wall mounting

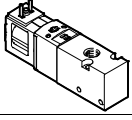
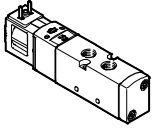
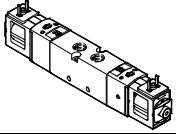




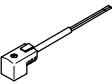

Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-LK20-B52	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-LK20-M52										
	VUVS-LK20-M32										

Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-LK20-B52	13	16.5	50	40	20	79.8	79.8	49.4	49.5
	VUVS-LK20-M52							35.9		
	VUVS-LK20-M32							12.9		

Solenoid valves VUVS-LK, size 20




Accessories

Ordering data				
	Code	Valve function	Part No.	Type
3/2-way valve with solenoid coil, single solenoid				
	Normally closed			
	M32C-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	8043213	VUVS-LK20-M32C-AD-G18-1C1-S
5/2-way valve with solenoid coil, single solenoid				
	M52-A			
		Pneumatic spring return, internal pilot air supply, direction of flow not reversible	8043214	VUVS-LK20-M52-AD-G18-1C1-S
5/2-way valve with solenoid coil, double solenoid				
	B52			
		Internal pilot air supply, direction of flow not reversible	8043215	VUVS-LK20-B52-D-G18-1C1-S

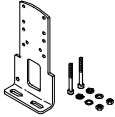
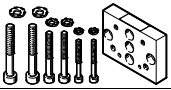

Ordering data						
	Description	Part No.	Type			
Cover cap						
	For manual override, non-detenting or covered	8049538	VAMC-B10-20-CH2-S			
Plug socket						
	Port pattern type C, to DIN EN 175301-803					
	3-pin, screw terminal	Cable connector M12	0 ... 250 V AC/DC	IP65	539712	MSSD-EB-M12
		Cable connector Pg7			151687	MSSD-EB
	4-pin, insulation displacement connector	Cable connector M14	0 ... 250 V AC/DC	IP67	192745	MSSD-EB-S-M14
Plug socket with cable						
	Port pattern type C, to DIN EN 175301-803					
	Angled socket, 3-pin Cable, open end, 3-wire	24 V DC	LED	2.5 m	151688	KMEB-1-24-2,5-LED
				5 m	151689	KMEB-1-24-5-LED
				10 m	193457	KMEB-1-24-10-LED
Illuminating seal						
	Connection pattern type C, to DIN EN 175301-803	24 V DC	151717	MEB-LD-12-24DC		

Solenoid valves VUVS-LK, size 20

Accessories


Ordering data					
	Description		Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread G $\frac{1}{8}$ for tubing O.D.	4 mm	186106	QS-G1/8-4-I	10
			133008	QS-G1/8-4-I-100	100
		6 mm	186107	QS-G1/8-6-I	10
			133009	QS-G1/8-6-I-100	100
		8 mm	186109	QS-G1/8-8-I	10
			133010	QS-G1/8-8-I-100	100
Angled push-in fitting with external hex					
	Connecting thread G $\frac{1}{8}$ for tubing O.D.	4 mm	186116	QSL-G1/8-4	10
			132048	QSL-G1/8-4-100	100
		6 mm	186117	QSL-G1/8-6	10
			132049	QSL-G1/8-6-100	100
		8 mm	186119	QSL-G1/8-8	10
			132050	QSL-G1/8-8-50	50
Angled push-in fitting, long, with external hex					
	Connecting thread G $\frac{1}{8}$ for tubing O.D.	4 mm	186127	QSL-G1/8-4	10
			133015	QSL-G1/8-4-100	100
		6 mm	186128	QSL-G1/8-6	10
			133016	QSL-G1/8-6-100	100
		8 mm	186130	QSL-G1/8-8	10
			133017	QSL-G1/8-8-100	100


1) Packaging unit

Ordering data				
	Description	Weight [g]	Part No.	Type
Foot mounting				
	With screw set for attaching the valve to the foot mounting	97	576412	VAME-B10-20-A
Wall mounting				
	With screw set for attaching the valve to the wall mounting	53	576413	VAME-B10-20-W
Set of spare parts				
	Set comprising seals and screws	10	8026203	VAME-B10-20-MK

Solenoid valves VUVS-LK, size 25

Technical data

 Flow rate
Up to 1000 l/min

 Valve width
26.5 mm

 Voltage
24 V DC



General technical data			
Valve function		3/2	5/2
Order code for valves		M32C	M52 B52
Valve width	[mm]	26.5	
Nominal width	[mm]	6.7	
Design		Piston spool	
Direction of flow		Non-reversible	
Pilot air supply		Internal	
Type of actuation		Piloted	
Manual override		Non-detenting, detenting	
Non-overlapping		Yes	
Sealing principle		Soft	
Type of mounting		Optionally via through-hole or on manifold rail	
Standard nominal flow rate	[qnN]	1000	1000 1000
Type of actuation		Electrical	
Mounting position		Any	
Exhaust air function		With flow control	
Pneumatic port		G $\frac{1}{4}$	
1, 2, 4, 3, 5		G $\frac{1}{4}$	
CRC ¹⁾		1	

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

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

Technical data – 3/2-way valves		
Order code for valves		M32C
Normal position		Closed
Stable position		Monostable
Reset method		Pneumatic spring
Switching times	On	16
	Off	20
	Change-over	–
Product weight	[g]	200

Solenoid valves VUVS-LK, size 25

Technical data

Technical data – 5/2-way valves			
Order code for valves		M52	B52
Normal position		–	–
Stable position		Monostable	Bistable
Reset method		Pneumatic spring	–
Switching times	On	20	–
	Off	22	–
	Change-over	–	12
Product weight	[g]	250	320

Operating and environmental conditions				
Order code for valves		M32C	M52	B52
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]		
Pilot medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]		
Note on operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)		
Operating pressure	[bar]	1.5 ... 8	1.5 ... 8	1.5 ... 8
Ambient temperature	[°C]	–5 ... +50		
Temperature of medium	[°C]	–5 ... +50		

Electrical data	
Electrical connection	Plug type B
Operating voltage	[V DC] 24
Permissible voltage fluctuations	[%] 10
Performance	[W] 3.3
Duty cycle ED	[%] 100
Degree of protection to EN 60529	IP65 with plug socket

Information on materials	
Housing	Wrought aluminium alloy
Seals	HNBR, NBR
Piston spool	Wrought aluminium alloy
Note on materials	RoHS compliant
	Contains PWIS (paint-wetting impairment substances)

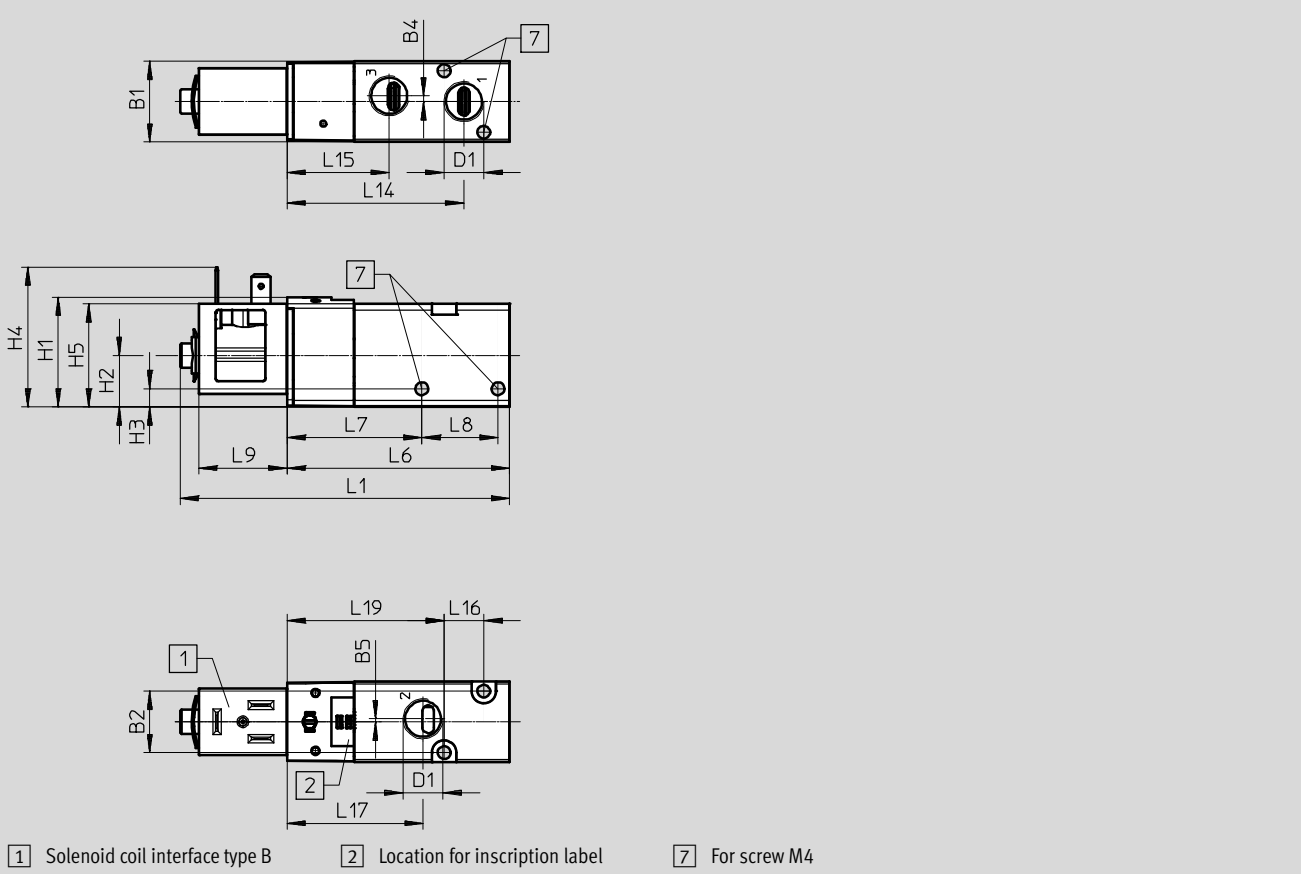
Solenoid valves VUVS-LK, size 25

Technical data

Dimensions

Download CAD data → www.festo.com

3/2-way valves, with solenoid coil



Type	B1	B2	B4	B5	D1	H1	H2	H3	H4	H5
VUVS-LK25-M32C-AD-G14-1B2-S	26.5	20.2	1.9	1	G1/4	36.1	16.9	6	45.9	33.9

Type	L1	L6	L7	L8	L9	L14	L15	L16	L17	L19
VUVS-LK25-M32C-AD-G14-1B2-S	108.1	73	44.2	25	29	58	33.5	13	44.6	51.5

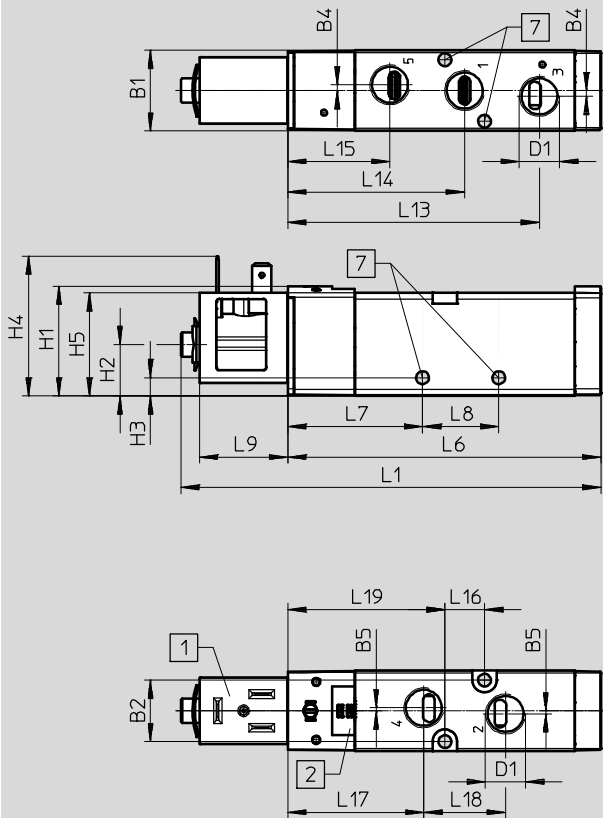
Solenoid valves VUVS-LK, size 25

Technical data

Dimensions

Download CAD data → www.festo.com

5/2-way single solenoid valves, with solenoid coil



- 1 Solenoid coil interface type B
- 2 Location for inscription label
- 7 For screw M4

Type	B1	B2	B4	B5	D1	H1	H2	H3	H4	H5
VUVS-LK25-M52-AD-G14-1B2-S	26.5	20.2	1.9	1	G1/4	36.1	16.9	6	45.9	33.9

Type	L1	L6	L7	L8	L9	L13	L14	L15	L16	L17	L18	L19
VUVS-LK25-M52-AD-G14-1B2-S	137.8	102.7	44.2	25	29	82.5	58	33.5	13	44.6	26.8	51.5

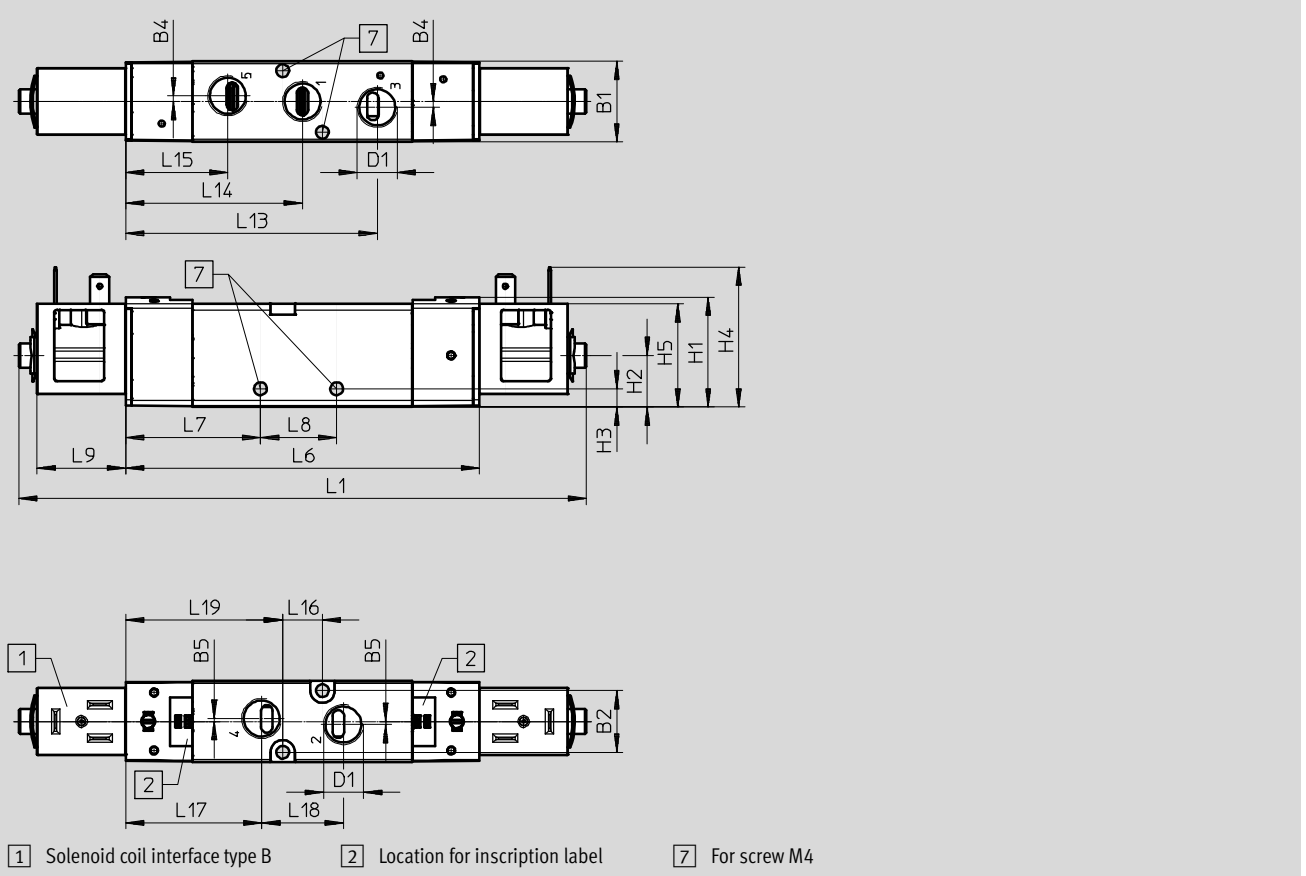
Solenoid valves VUVS-LK, size 25

Technical data

Dimensions

Download CAD data → www.festo.com

5/2-way double solenoid valves, with solenoid coil



Type	B1	B2	B4	B5	D1	H1	H2	H3	H4	H5
VUVS-LK25-B52-D-G14-1B2-S	26.5	20.2	1.9	1	G1/4	36.1	16.9	6	45.9	33.9

Type	L1	L6	L7	L8	L9	L13	L14	L15	L16	L17	L18	L19
VUVS-LK25-B52-D-G14-1B2-S	186.1	116	44.2	25	29	82.5	58	33.5	13	44.6	26.8	51.5

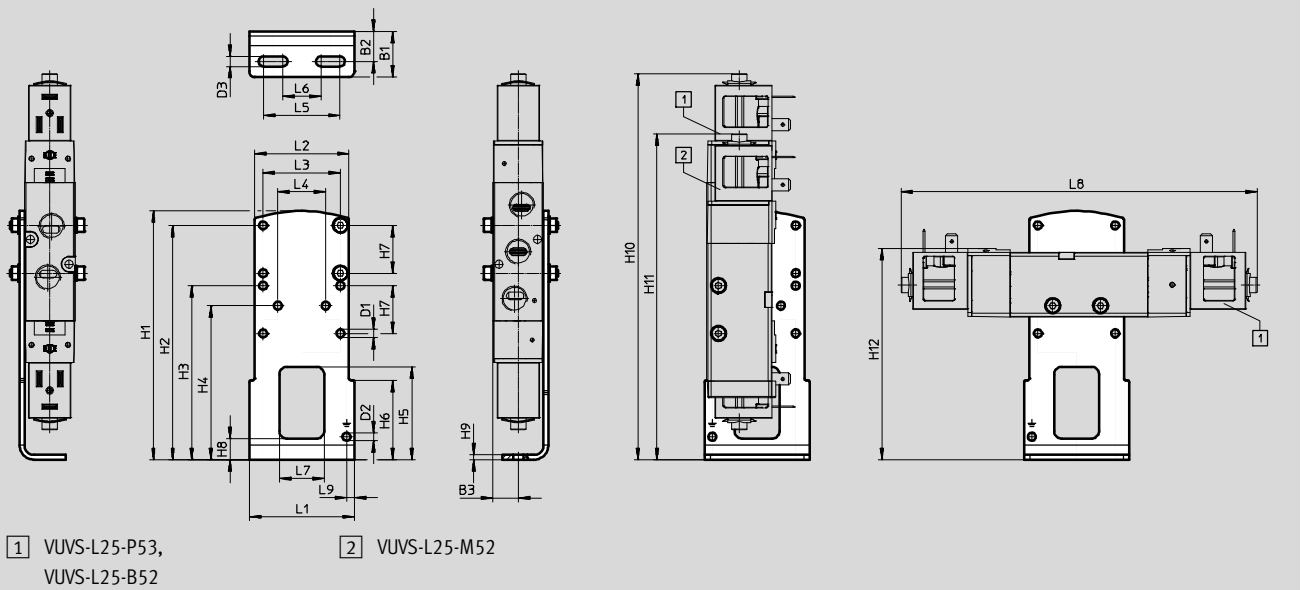
Solenoid valves VUVS-LK, size 25

Accessories

Dimensions

Download CAD data → www.festo.com

Foot mounting



Type		B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	H1	H2	H3	H4	H5
VAME-B10-25-A	VUVS-LK25-B52	24	15.8	13.3	4.2	4.2	5.2	130	122.5	91	80.5	48.5
	VUVS-LK25-M52											
	VUVS-LK25-M32											

Type		H6	H7	H8	H9	H10	H11	H12
VAME-B10-25-A	VUVS-LK25-B52	41.5	25	11	2.5	210.8	-	110.6
	VUVS-LK25-M52							
	VUVS-LK25-M32							

Type		L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-25-A	VUVS-LK25-B52	55	49.4	40.4	25	40	20	23.5	186.1	4.1
	VUVS-LK25-M52									
	VUVS-LK25-M32									

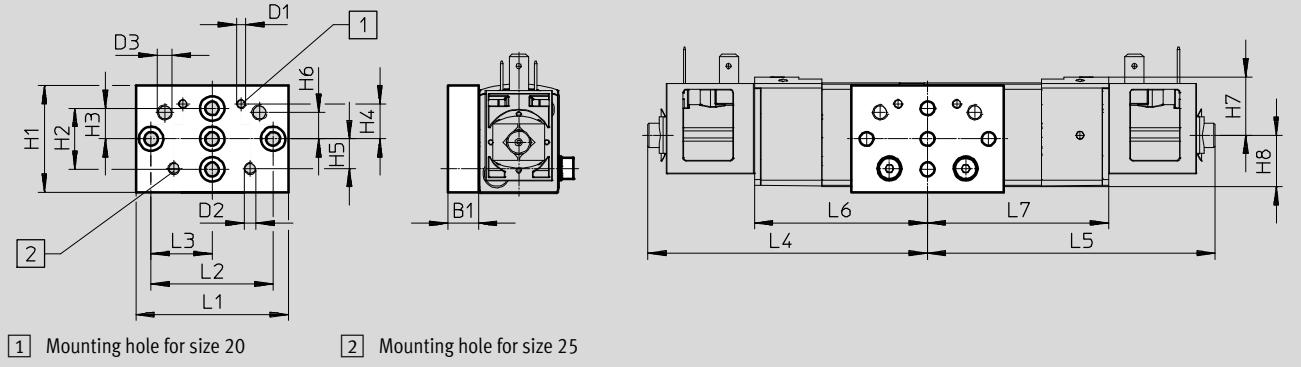
Solenoid valves VUVS-LK, size 25

Accessories

Dimensions

Download CAD data → www.festo.com

Wall mounting

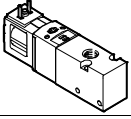
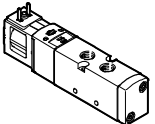
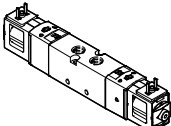




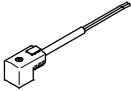

Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-LK25-B52	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-LK25-M52										
	VUVS-LK25-M32										

Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-LK25-B52	19.2	16.9	50	40	20	93.1	93.1	56.7	59.3
	VUVS-LK25-M52									
	VUVS-LK25-M32									

Solenoid valves VUVS-LK, size 25




Accessories

Ordering data				
	Code	Valve function	Part No.	Type
3/2-way valve with solenoid coil, single solenoid				
	Normally closed			
	M32C-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	8043217	VUVS-LK25-M32C-AD-G14-1B2-S
5/2-way valve with solenoid coil, single solenoid				
	M52-A			
		Pneumatic spring return, internal pilot air supply, direction of flow not reversible	8043218	VUVS-LK25-M52-AD-G14-1B2-S
5/2-way valve with solenoid coil, double solenoid				
	B52			
		Internal pilot air supply, direction of flow not reversible	8043219	VUVS-LK25-B52-D-G14-1B2-S

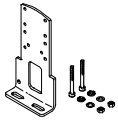
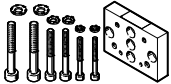

Ordering data					
	Description	Part No.	Type		
Cover cap					
	For manual override, non-detenting or covered	8049539	VAMC-B10-25-CH2-S		
Plug socket					
	Port pattern type B, to EN 175301-803				
	3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/DC	IP65	539710 MSSD-F-M16
		Cable connector Pg9			34431 MSSD-F
3-pin, insulation displacement connector	–	0 ... 250 V AC/DC	IP67	192746 MSSD-F-S-M16	
Plug socket with cable					
	Port pattern type B, to EN 175301-803				
	Angled socket, 3-pin Cable, open end, 3-wire	24 V DC	LED	2.5 m	30935 KMF-1-24DC-2.5-LED
				5 m	30937 KMF-1-24DC-5-LED
				10 m	193458 KMF-1-24-10-LED
Illuminating seal					
	Port pattern type B, to DIN EN 175301-803	24 V DC	19143	MF-LD-12-24DC	

Solenoid valves VUVS-LK

Accessories


Ordering data					
	Description		Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread G $\frac{1}{4}$ 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-G1/4-10-I	10
Angled push-in fitting with external hex					
	Connecting thread G $\frac{1}{4}$ for tubing O.D.	6 mm	186118	QSL-G1/4-6	10
			132051	QSL-G1/4-6-100	100
		8 mm	186120	QSL-G1/4-8	10
			132052	QSL-G1/4-8-50	50
		10 mm	186122	QSL-G1/4-10	10
			132053	QSL-G1/4-10-50	50
Angled push-in fitting, long, with external hex					
	Connecting thread G $\frac{1}{4}$ for tubing O.D.	6 mm	186129	QSL-G1/4-6	10
		8 mm	186131	QSL-G1/4-8	10
		10 mm	186133	QSL-G1/4-10	10


1) Packaging unit


Ordering data				
	Description	Weight [g]	Part No.	Type
Foot mounting				
	With screw set for attaching the valve to the foot mounting	130	2293485	VAME-B10-25-A
Wall mounting				
	With screw set for attaching the valve to the wall mounting	53	576413	VAME-B10-20-W
Set of spare parts				
	Set comprising seals and screws	12	8035636	VAME-B10-25-MK

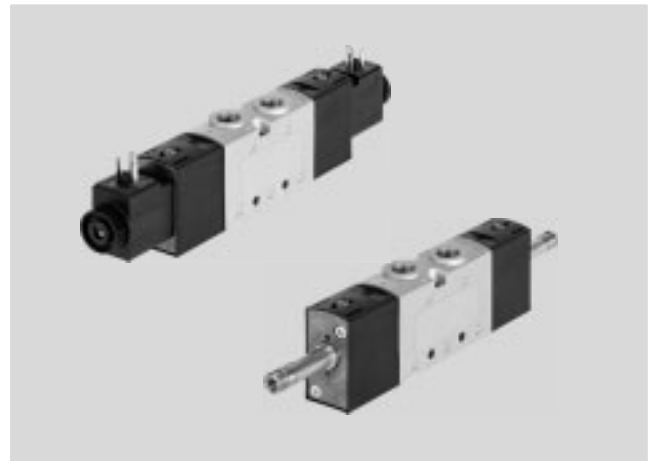
Solenoid valves VUVS-L, size 20

Technical data

-  - Flow rate
Up to 700 l/min

-  - Valve width
21 mm

-  - Voltage
12, 24 V DC
24, 110, 120, 230, 240 V AC



General technical data							
Valve function	3/2		5/2		5/3		
Order code for valves	M32C	M32U	M52	B52	P53C	P53U	P53E
Valve width [mm]	21						
Nominal width [mm]	5.7				5	4.8	4.5
Design	Piston spool						
Direction of flow	Reversible with external pilot air supply						
Pilot air supply	Internal or external						
Type of actuation	Piloted						
Manual override	Non-detenting, detenting						
Non-overlapping	Yes						
Sealing principle	Soft						
Type of mounting	Optionally via through-hole or on manifold rail						
Standard nominal flow rate [q _{nN}]	700	700	700	700	700	600	
Type of actuation	Electrical						
Mounting position	Any						
Exhaust air function	With flow control						
Pneumatic port 1, 2, 4, 3, 5	G $\frac{1}{8}$						
Auxiliary pilot air port 12/14	M5						
Pilot exhaust air port 82/84	M5						
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.

Solenoid valves VUVS-L, size 20

Technical data

Technical data – 3/2-way valves					
Order code for valves		M32C		M32U	
Normal position		Closed		Open	
Stable position		Monostable		Monostable	
Reset method		Pneumatic spring	Mechanical spring	Pneumatic spring	Mechanical spring
Switching times	On	14	14	14	15
	Off	21	32	21	28
	Change-over	–	–	–	–
Product weight excluding solenoid coil	[g]	138	136	138	136
Product weight including solenoid coil	[g]	172	170	172	170

Technical data – 5/2-way valves				
Order code for valves		M52		B52
Normal position		–		–
Stable position		Monostable		Bistable
Reset method		Pneumatic spring	Mechanical spring	–
Switching times	On	20	12	–
	Off	29	44	–
	Change-over	–	–	10
Product weight excluding solenoid coil	[g]	188	183	225
Product weight including solenoid coil	[g]	222	217	259

Technical data – 5/3-way valves					
Order code for valves		P53C		P53U	P53E
Normal position/mid-position		Closed		Pressurised	Exhausted
Stable position		Monostable			
Reset method		Mechanical spring			
Switching times	On	13	13	13	13
	Off	42	42	42	44
	Change-over	24	21	21	24
Product weight excluding solenoid coil	[g]	229	229	229	229
Product weight including solenoid coil	[g]	263	263	263	263

Safety data	
Note on forced checking procedure	Switching frequency min. 1/week
Max. positive test pulse 0 signal	[µs] 1900 (valves with VACS-C-C1-1)
Max. negative test pulse 1 signal	[µs] 2700 (valves with VACS-C-C1-1)
Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Vibration resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

Solenoid valves VUVS-L, size 20

Technical data

Operating and environmental conditions				
Order code for valves	M32	M52	B52	P53
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
Pilot medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)			
Operating pressure with internal pilot air supply [bar]	2.5 ... 10		1.5 ... 10	2.5 ... 10
Operating pressure with external pilot air supply [bar]	-0.9 ... +10			
Pilot pressure [bar]	2.5 ... 10		1.5 ... 10	2.5 ... 10
Ambient temperature [°C]	-10 ... +60			
Temperature of medium [°C]	-10 ... +60			

Electrical data		
	With solenoid coil	Without solenoid coil
Electrical connection	Plug type C	Via solenoid coil
Operating voltage [V DC]	24	→ Internet: vacs
Permissible voltage fluctuations [%]	±10	
Performance [W]	2.5	
Duty cycle ED [%]	100	
Degree of protection to EN 60529	IP65 with plug socket	

Information on materials	
Housing	Die-cast aluminium
Seals	HNBR, NBR
Piston spool	Wrought aluminium alloy
Note on materials	RoHS compliant

Solenoid valves VUVS-L, size 20

Technical data



Dimensions Download CAD data → www.festo.com

3/2-way valves, with solenoid coil

3/2-way valves, without solenoid coil

1 Solenoid coil interface type C
 4 Port 10/12 for pilot air supply
 6 Port 82 for pilot exhaust air
 7 For screw M3

2 Location for inscription label

Type	B1	B2	B3	B4	B5	D1	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L20-M32...-...D-G18-...	21.1	16.1	–	2.5	2	G1/8	–	M5	8	40	20.9	6.2	46.7	36.4
VUVS-L20-M32...-...ZD-G18-...			2.6				M5							

Type	L2	L4	L6	L7	L8	L9	L11	L12	L13	L14	L15	L16	L17	L19
VUVS-L20-M32...-...D-G18-...	110.7	109.1	80.1	47.3	19.2	30.6	29	–	60.9	56.9	36.9	8	45.6	52.9
VUVS-L20-M32...-...ZD-G18-...								19.5						

Solenoid valves VUVS-L, size 20

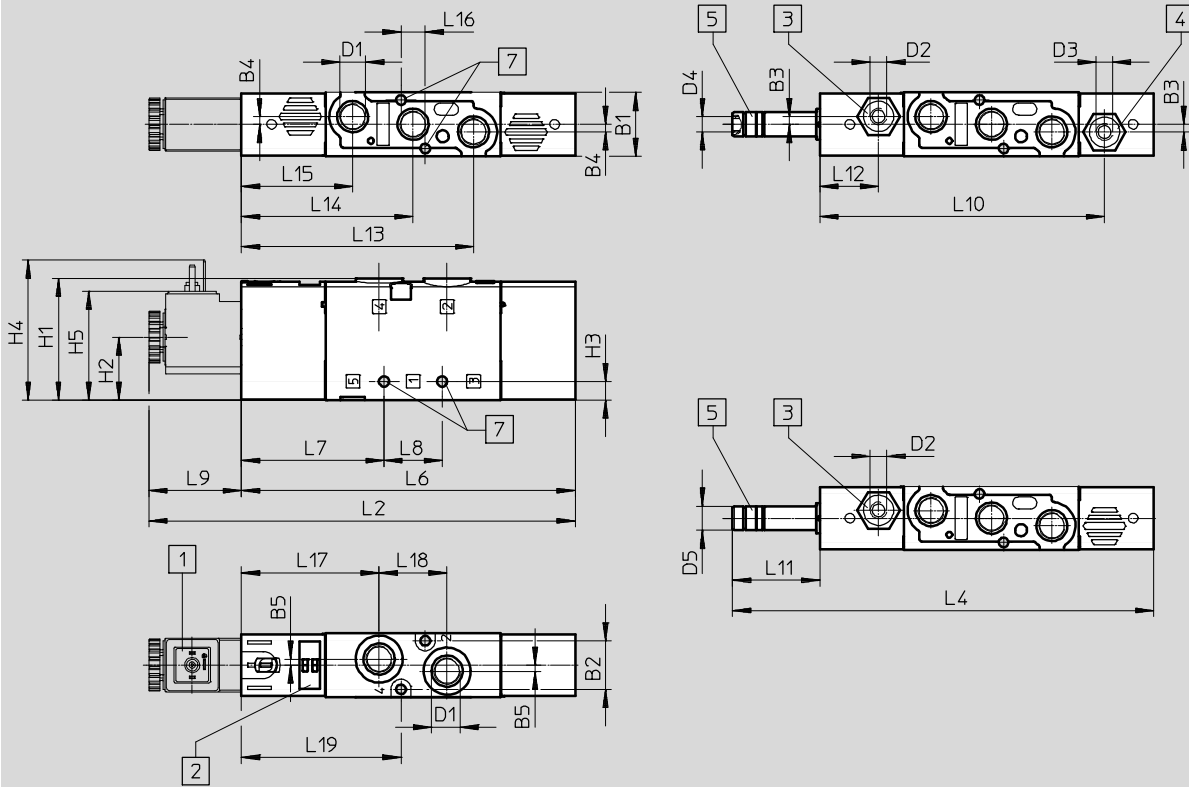
Technical data

Dimensions

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5/2-way single solenoid valves, with solenoid coil

5/2-way single solenoid valves, without solenoid coil



- 1 Solenoid coil interface type C
- 2 Location for inscription label
- 3 Port 14 for pilot air supply
- 4 Port 12 for pilot air supply
- 5 Port 84 for pilot exhaust air
- 7 For screw M3

Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L20-M52-...D-G18-...	21.1	16.1	-	2.5	2	G1/8	-	-	M5	8	40.4	20.9	6.2	46.7	36.4
VUVS-L20-M52-...ZD-G18-...			2.6				M5	M5							

Type	L2	L4	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-L20-M52-...D-G18-...	141.2	139.6	110.6	47.3	19.2	30.6	-	29	-	76.9	56.9	36.9	8	45.6	22.5	52.9
VUVS-L20-M52-...ZD-G18-...							94.3		19.5							

Solenoid valves VUVS-L, size 20

Technical data

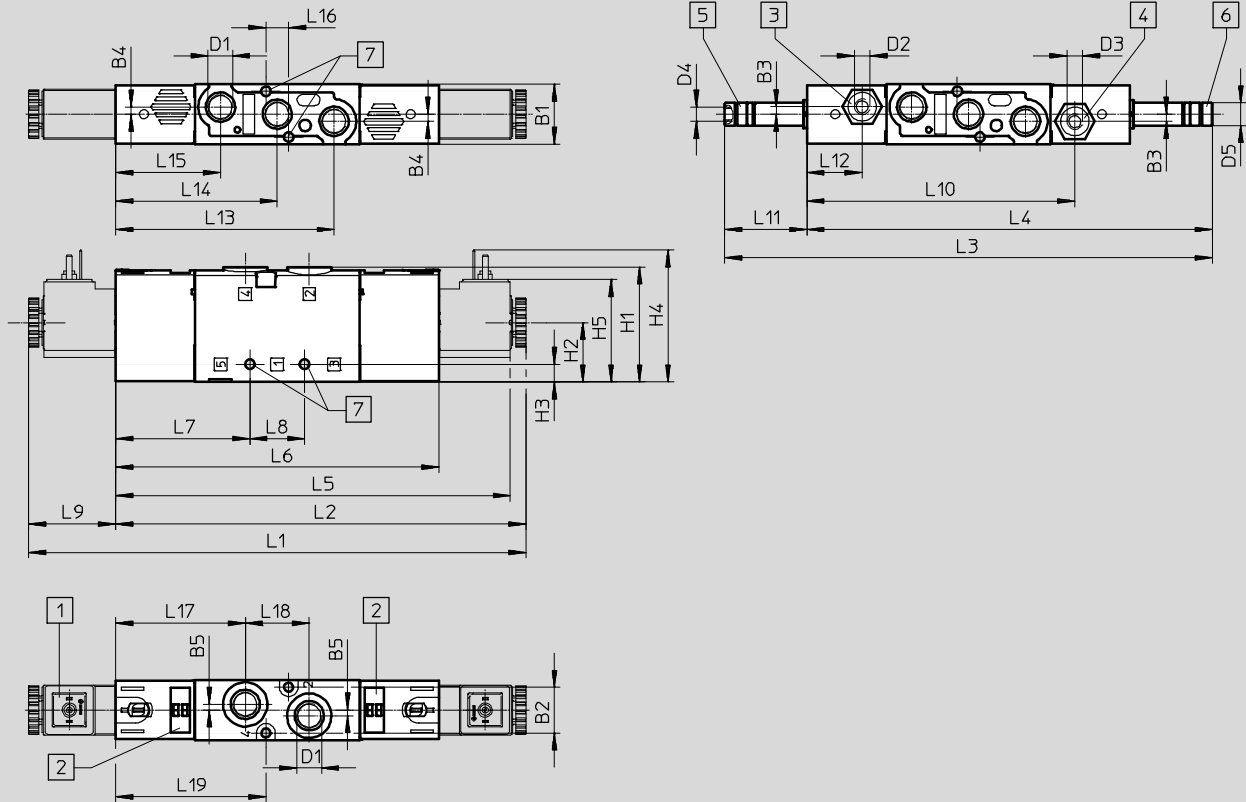


Dimensions

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5/3-way valves and 5/2-way valves, double solenoid, with solenoid coil

5/3-way valves and 5/2-way valves, double solenoid, without solenoid coil



- 1 Solenoid coil interface type C
- 2 Location for inscription label
- 3 Port 14 for pilot air supply
- 4 Port 12 for pilot air supply
- 5 Port 84 for pilot exhaust air
- 6 Port 82 for pilot exhaust air
- 7 For screw M3

Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L20-P53...-MD-G18-...	21.1	16.1	-	2.5	2	G1/8	-	-	M5	8	40.4	20.9	6.2	46.7	36.4
VUVS-L20-P53...-MZD-G18-...			2.6				M5	M5							
VUVS-L20-B52-D-G18-...			-				-	-							
VUVS-L20-B52-ZD-G18-...			2.6				M5	M5							

Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
VUVS-L20-P53...-MD-G18-...	174.9	144.3	171.7	142.7	139.1	113.7	47.3	19.2	30.6	-	29
VUVS-L20-P53...-MZD-G18-...										94.3	
VUVS-L20-B52-D-G18-...										-	
VUVS-L20-B52-ZD-G18-...										94.3	

Type	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-L20-P53...-MD-G18-...	-	76.9	56.9	36.9	8	45.6	22.5	52.9
VUVS-L20-P53...-MZD-G18-...	19.5							
VUVS-L20-B52-D-G18-...	-							
VUVS-L20-B52-ZD-G18-...	19.5							

Solenoid valves VUVS-L, size 20

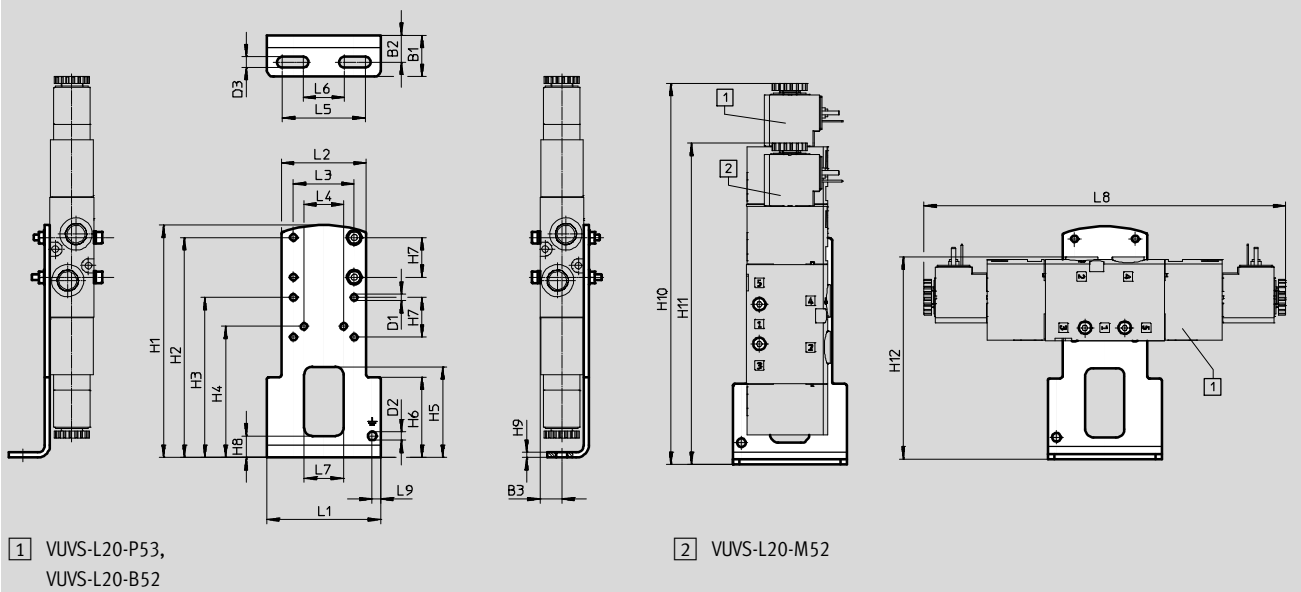
Accessories

FESTO

Dimensions

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Foot mounting



Type		B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	H1	H2	H3	H4	H5
VAME-B10-20-A	VUVS-L20-B52/P53	20	13.1	10.6	3.2	4.2	5.2	112.5	106.5	77.5	63.5	44
	VUVS-L20-M52											
	VUVS-L20-M32											

Type		H6	H7	H8	H9	H10	H11	H12
VAME-B10-20-A	VUVS-L20-B52/P53	39	19.2	10.5	2.5	184.4	-	97.7
	VUVS-L20-M52							
	VUVS-L20-M32							

Type		L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-20-A	VUVS-L20-B52/P53	55	41	29.4	19.2	40	20	19	174.9	4.1
	VUVS-L20-M52									
	VUVS-L20-M32									

Solenoid valves VUVS-L, size 20

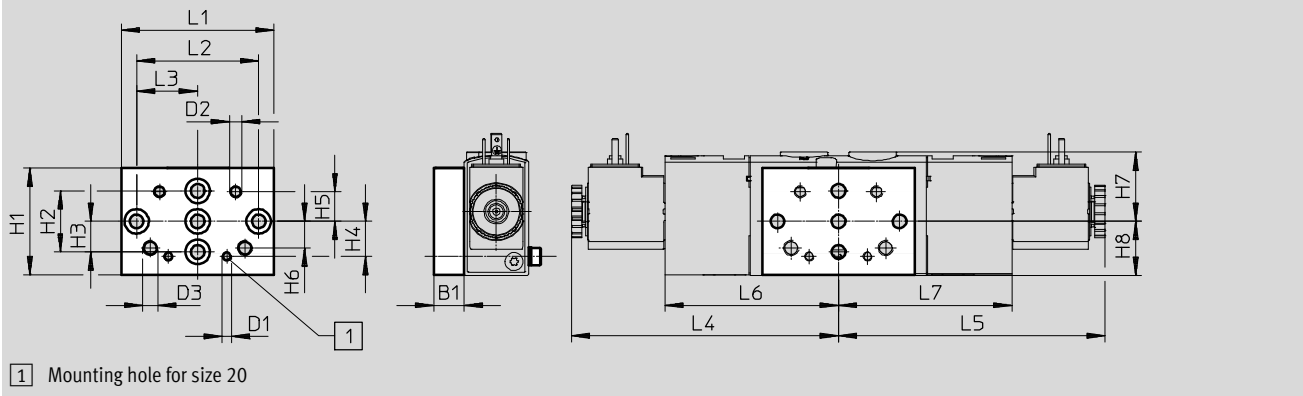
Technical data



Dimensions

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Wall mounting

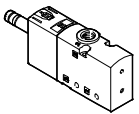
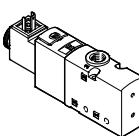


Type		B1	D1	D2	D3	H1	H2	H3	H4	H5
VAME-B10-20-W	VUVS-L20-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7
	VUVS-L20-M52									
	VUVS-L20-M32									

Type		H6	H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-L20-B52/P53	8.7	22.7	17.7	50	40	20	87.5	87.4	56.9	56.8
	VUVS-L20-M52							-		53.8	
	VUVS-L20-M32							-		23.3	

Solenoid valves VUVS-L, size 20

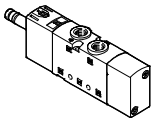
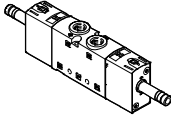
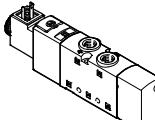
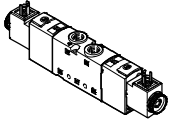
Accessories

Ordering data				
	Code	Valve function	Part No.	Type
3/2-way valve without solenoid coil				
	Single solenoid, normally closed			
	M32C-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575255	VUVS-L20-M32C-AD-G18-F7
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575257	VUVS-L20-M32C-AZD-G18-F7
	M32C-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575260	VUVS-L20-M32C-MD-G18-F7
		Mechanical spring return, external pilot air supply, direction of flow reversible	575259	VUVS-L20-M32C-MZD-G18-F7
	Single solenoid, normally open			
	M32U-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575256	VUVS-L20-M32U-AD-G18-F7
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575258	VUVS-L20-M32U-AZD-G18-F7
	M32U-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575262	VUVS-L20-M32U-MD-G18-F7
		Mechanical spring return, external pilot air supply, direction of flow reversible	575261	VUVS-L20-M32U-MZD-G18-F7
3/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, normally closed			
	M32C-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575269	VUVS-L20-M32C-AD-G18-F7-1C1
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575271	VUVS-L20-M32C-AZD-G18-F7-1C1
	M32C-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575274	VUVS-L20-M32C-MD-G18-F7-1C1
		Mechanical spring return, external pilot air supply, direction of flow reversible	575273	VUVS-L20-M32C-MZD-G18-F7-1C1
	Single solenoid, normally open			
	M32U-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575270	VUVS-L20-M32U-AD-G18-F7-1C1
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575272	VUVS-L20-M32U-AZD-G18-F7-1C1
	M32U-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575276	VUVS-L20-M32U-MD-G18-F7-1C1
		Mechanical spring return, external pilot air supply, direction of flow reversible	575275	VUVS-L20-M32U-MZD-G18-F7-1C1

Solenoid valves VUVS-L, size 20

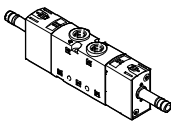
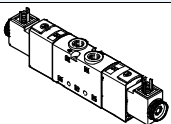
Accessories



Ordering data				
	Code	Valve function	Part No.	Type
5/2-way valve without solenoid coil				
	Single solenoid			
	M52-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575249	VUVS-L20-M52-AD-G18-F7
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575675	VUVS-L20-M52-AZD-G18-F7
	M52-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575250	VUVS-L20-M52-MD-G18-F7
Mechanical spring return, external pilot air supply, direction of flow reversible		575679	VUVS-L20-M52-MZD-G18-F7	
	Double solenoid			
	B52	Internal pilot air supply, direction of flow not reversible	575251	VUVS-L20-B52-D-G18-F7
External pilot air supply, direction of flow reversible		575682	VUVS-L20-B52-ZD-G18-F7	
5/2-way valve with solenoid coil (24 V DC)				
	Single solenoid			
	M52-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575263	VUVS-L20-M52-AD-G18-F7-1C1
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575676	VUVS-L20-M52-AZD-G18-F7-1C1
	M52-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575264	VUVS-L20-M52-MD-G18-F7-1C1
Mechanical spring return, external pilot air supply, direction of flow reversible		575680	VUVS-L20-M52-MZD-G18-F7-1C1	
	Double solenoid			
	B52	Internal pilot air supply, direction of flow not reversible	575265	VUVS-L20-B52-D-G18-F7-1C1
External pilot air supply, direction of flow reversible		575683	VUVS-L20-B52-ZD-G18-F7-1C1	

Solenoid valves VUVS-L, size 20




Accessories


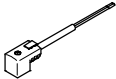

Ordering data				
	Code	Valve function	Part No.	Type
5/3-way valve without solenoid coil				
	Mid-position closed			
	P53C	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575254	VUVS-L20-P53C-MD-G18-F7
		Mechanical spring return, external pilot air supply, direction of flow reversible	575685	VUVS-L20-P53C-MZD-G18-F7
	Mid-position exhausted			
	P53E	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575252	VUVS-L20-P53E-MD-G18-F7
		Mechanical spring return, external pilot air supply, direction of flow reversible	575691	VUVS-L20-P53E-MZD-G18-F7
	Mid-position pressurised			
	P53U	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575253	VUVS-L20-P53U-MD-G18-F7
		Mechanical spring return, external pilot air supply, direction of flow reversible	575688	VUVS-L20-P53U-MZD-G18-F7
	5/3-way valve with solenoid coil (24 V DC)			
	Mid-position closed			
	P53C	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575268	VUVS-L20-P53C-MD-G18-F7-1C1
		Mechanical spring return, external pilot air supply, direction of flow reversible	575686	VUVS-L20-P53C-MZD-G18-F7-1C1
	Mid-position exhausted			
	P53E	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575266	VUVS-L20-P53E-MD-G18-F7-1C1
		Mechanical spring return, external pilot air supply, direction of flow reversible	575692	VUVS-L20-P53E-MZD-G18-F7-1C1
	Mid-position pressurised			
	P53U	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575267	VUVS-L20-P53U-MD-G18-F7-1C1
		Mechanical spring return, external pilot air supply, direction of flow reversible	575689	VUVS-L20-P53U-MZD-G18-F7-1C1

Solenoid valves VUVS-L, size 20

Accessories




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Ordering data			
	Description	Part No.	Type
Solenoid coils for valves			
	Port pattern type C, to DIN EN 175301-803	12 V DC	8025331 VACS-C-C1-5
		24 V DC	8025330 VACS-C-C1-1
		48 V DC	8025336 VACS-C-C1-7
		24 V AC/50-60 Hz	8025335 VACS-C-C1-1A
		48 V AC	8025337 VACS-C-C1-7A
		110/120 V AC/50-60 Hz	8025334 VACS-C-C1-16B
		230/240 V AC/50-60 Hz	8025338 VACS-C-C1-3W
Seal set			
	For valves in order to guarantee protection class IP67	2643771	VAMC-B10-C-B-S8
Cover cap			
	For manual override, non-detenting or covered	8028240	VAMC-B10-20-CH2

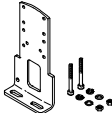
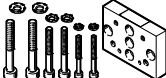


Ordering data								
	Description	Part No.	Type					
Plug socket								
	Port pattern type C, to DIN EN 175301-803	3-pin, screw terminal	Cable connector M12	0 ... 250 V AC/DC	IP65	539712	MSSD-EB-M12	
			Cable connector Pg7				151687	MSSD-EB
	4-pin, insulation displacement connector	Cable connector M14	0 ... 250 V AC/DC	IP67			192745	MSSD-EB-S-M14
					3-pin, straight plug connector	Cable connector M12	12 ... 24 V AC/DC	IP65
Plug socket with cable								
	Port pattern type C, to DIN EN 175301-803	Angled socket, 3-pin	24 V DC	LED	2.5 m	151688	KMEB-1-24-2,5-LED	
					5 m	151689	KMEB-1-24-5-LED	
					10 m	193457	KMEB-1-24-10-LED	
		Cable, open end, 3-wire	230 V AC	-	2.5 m	151690	KMEB-1-230AC-2,5	
					5 m	151691	KMEB-1-230AC-5	
Illuminating seal								
	Connection pattern type C, to DIN EN 175301-803	24 V DC	151717	MEB-LD-12-24DC				
		230 V AC	151718	MEB-LD-230AC				

Solenoid valves VUVS-L, size 20

Accessories




Ordering data					
	Description		Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread M5 for tubing O.D.	4 mm	153315	QSM-M5-4-I	10
	Connecting thread G $\frac{1}{8}$ for tubing O.D.	4 mm	186106	QS-G1/8-4-I	10
			133008	QS-G1/8-4-I-100	100
	6 mm	186107	QS-G1/8-6-I	10	
		133009	QS-G1/8-6-I-100	100	
	8 mm	186109	QS-G1/8-8-I	10	
133010		QS-G1/8-8-I-100	100		
Angled push-in fitting with external hex					
	Connecting thread G $\frac{1}{8}$ for tubing O.D.	4 mm	186116	QSL-G1/8-4	10
			132048	QSL-G1/8-4-100	100
	6 mm	186117	QSL-G1/8-6	10	
		132049	QSL-G1/8-6-100	100	
	8 mm	186119	QSL-G1/8-8	10	
		132050	QSL-G1/8-8-50	50	
Angled push-in fitting, long, with external hex					
	Connecting thread G $\frac{1}{8}$ for tubing O.D.	4 mm	186127	QSL-G1/8-4	10
			133015	QSL-G1/8-4-100	100
	6 mm	186128	QSL-G1/8-6	10	
		133016	QSL-G1/8-6-100	100	
	8 mm	186130	QSL-G1/8-8	10	
		133017	QSL-G1/8-8-100	100	

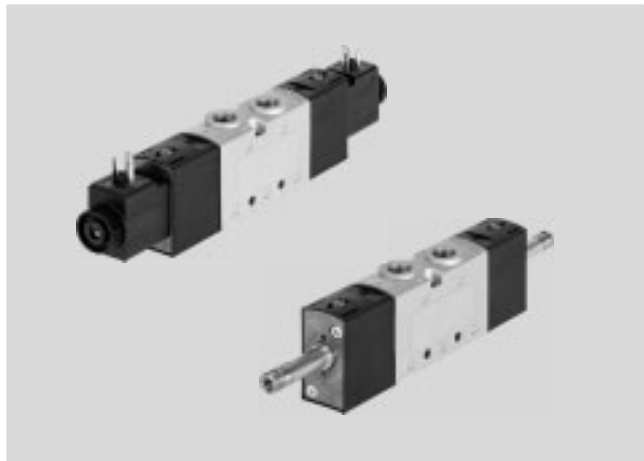
1) Packaging unit

Ordering data				
	Description	Weight [g]	Part No.	Type
Foot mounting				
	With screw set for attaching the valve to the foot mounting	97	576412	VAME-B10-20-A
Wall mounting				
	With screw set for attaching the valve to the wall mounting	53	576413	VAME-B10-20-W
Set of spare parts				
	Set comprising seals and screws	10	8026203	VAME-B10-20-MK
Inscription label				
	40 pieces in frame	-	565306	ASLR-C-E4

Solenoid valves VUVS-L, size 25

Technical data

-  Flow rate
Up to 1300 l/min
-  Valve width
26.5 mm
-  Voltage
12, 24 V DC
24, 110, 120, 230, 240 V AC



General technical data							
Valve function	3/2		5/2		5/3		
Order code for valves	M32C	M32U	M52	B52	P53C	P53U	P53E
Valve width [mm]	26.5						
Nominal width [mm]	6.3		6.9		6.5		6.3
Design	Piston spool						
Direction of flow	Reversible with external pilot air supply						
Pilot air supply	Internal or external						
Type of actuation	Piloted						
Manual override	Non-detenting, detenting						
Non-overlapping	Yes						
Sealing principle	Soft						
Type of mounting	Optionally via through-hole or on manifold rail						
Standard nominal flow rate [q _n N]	1000		1300		1300		1200
Type of actuation	Electrical						
Mounting position	Any						
Exhaust air function	With flow control						
Pneumatic port 1, 2, 4, 3, 5	G $\frac{1}{4}$						
Auxiliary pilot air port 12/14	M5						
Pilot exhaust air port 82/84	M5						
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.

Solenoid valves VUVS-L, size 25

Technical data

Technical data – 3/2-way valves					
Order code for valves		M32C		M32U	
Normal position		Closed		Open	
Stable position		Monostable		Monostable	
Reset method		Pneumatic spring	Mechanical spring	Pneumatic spring	Mechanical spring
Switching times	On	13	11	12	11
	Off	26	40	26	39
	Change-over	–	–	–	–
Product weight excluding solenoid coil	[g]	244	244	244	244
Product weight including solenoid coil	[g]	297	297	297	297

Technical data – 5/2-way valves				
Order code for valves		M52		B52
Normal position		–		–
Stable position		Monostable		Bistable
Reset method		Pneumatic spring	Mechanical spring	–
Switching times	On	19	12	–
	Off	35	47	–
	Change-over	–	–	11
Product weight excluding solenoid coil	[g]	311	311	322
Product weight including solenoid coil	[g]	363	363	428

Technical data – 5/3-way valves				
Order code for valves		P53C	P53U	P53E
Normal position/mid-position		Closed	Pressurised	Exhausted
Stable position		Monostable		
Reset method		Mechanical spring		
Switching times	On	13	14	14
	Off	42	48	48
	Change-over	26	25	25
Product weight excluding solenoid coil	[g]	324	324	324
Product weight including solenoid coil	[g]	430	430	430

Safety data		
Note on forced checking procedure		Switching frequency min. 1/week
Max. positive test pulse	[µs]	2000 (valves with VACF-B-...-1) 0 signal
Max. negative test pulse	[µs]	3600 (valves with VACF-B-...-1) 1 signal
Shock resistance		Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Vibration resistance		Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

Solenoid valves VUVS-L, size 25

Technical data

Operating and environmental conditions				
Order code for valves	M32	M52	B52	P53
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
Pilot medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)			
Operating pressure with internal pilot air supply [bar]	2.5 ... 10		1.5 ... 10	2.5 ... 10
Operating pressure with external pilot air supply [bar]	-0.9 ... +10			
Pilot pressure [bar]	2.5 ... 10		1.5 ... 10	2.5 ... 10
Ambient temperature [°C]	-10 ... +60			
Temperature of medium [°C]	-10 ... +60			

Electrical data		
	With solenoid coil	Without solenoid coil
Electrical connection	Plug type C, plug type B	Via solenoid coil
Operating voltage [V DC]	24	→ Internet: vacf
Permissible voltage fluctuations [%]	10	
Performance [W]	3.3	
Duty cycle ED [%]	100	
Degree of protection to EN 60529	IP65 with plug socket	

Information on materials	
Housing	Die-cast aluminium
Seals	HNBR, NBR
Piston spool	Wrought aluminium alloy
Note on materials	RoHS compliant

Solenoid valves VUVS-L, size 25

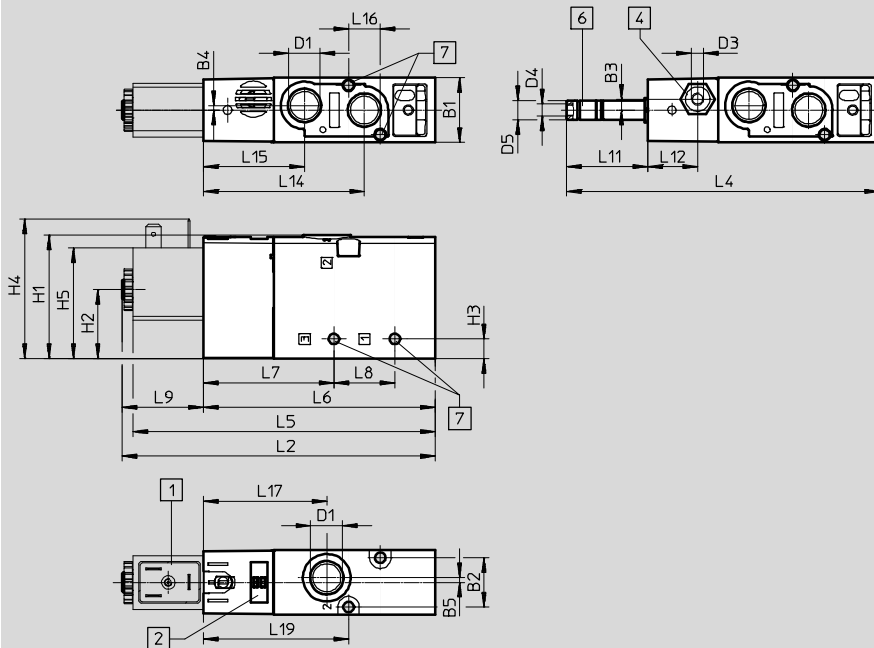
Technical data

Dimensions

Download CAD data → www.festo.com

3/2-way valves, with solenoid coil

3/2-way valves, without solenoid coil



- 1 Solenoid coil interface type B/type C
- 2 Location for inscription label
- 4 Port 10/12 for pilot air supply
- 6 Port 82 for pilot exhaust air
- 7 For screw M4

Type	B1	B2	B3	B4	B5	D1	D3	D4	D5	H1	H2	H3	H4	H5
VUVS-L25-M32...-...D-G14-...	26.5	20.2	–	1.9	1.9	G1/4	–	M5	8	50.5	28.2	8	57.2	45.2
VUVS-L25-M32...-...ZD-G14-...			4.5				M5							

Type	L2	L4	L5	L6	L7	L8	L9	L11	L12	L14	L15	L16	L17	L19
VUVS-L25-M32...-...D-G14-...	129.2	128.1	123.8	94.8	53.3	25	34.4	33.3	–	65.8	41.3	13	50.4	59.3
VUVS-L25-M32...-...ZD-G14-...									20.3					

Solenoid valves VUVS-L, size 25

Technical data

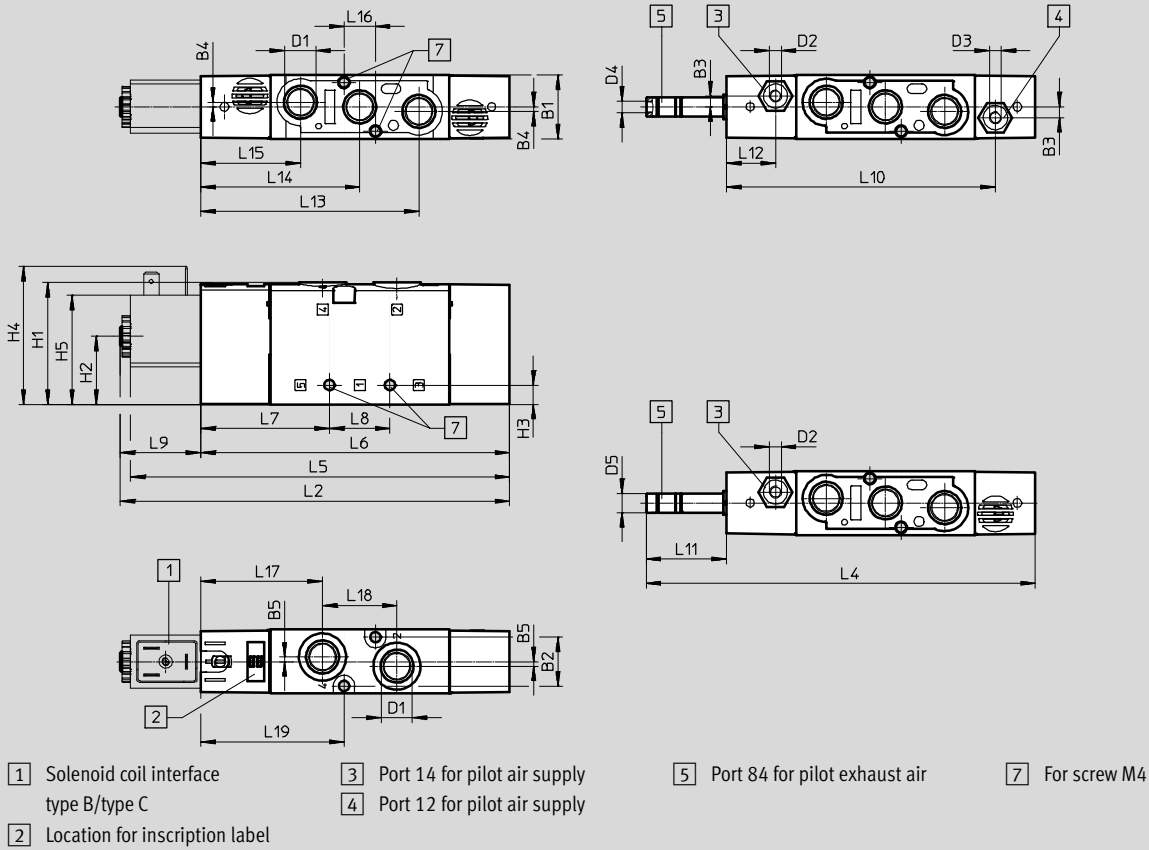


Dimensions

Download CAD data → www.festo.com

5/2-way single solenoid valves, with solenoid coil

5/2-way single solenoid valves, without solenoid coil



Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5	H1	H2	H3	H4	H5
VUVS-L25-M52-...D-G14-...	26.5	20.2	–	1.9	1.9	G1/4	–	–	M5	8	50.5	28.2	8	57.2	45.2
VUVS-L25-M52-...ZD-G14-...			4.5				M5	M5							

Type	L2	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-L25-M52-...D-G14-...	162.2	161.1	156.8	127.8	53.3	25	34.4	–	33.3	–	90.3	65.8	41.3	13	50.4	30.8	59.3
VUVS-L25-M52-...ZD-G14-...								111.3		20.3							

Solenoid valves VUVS-L, size 25

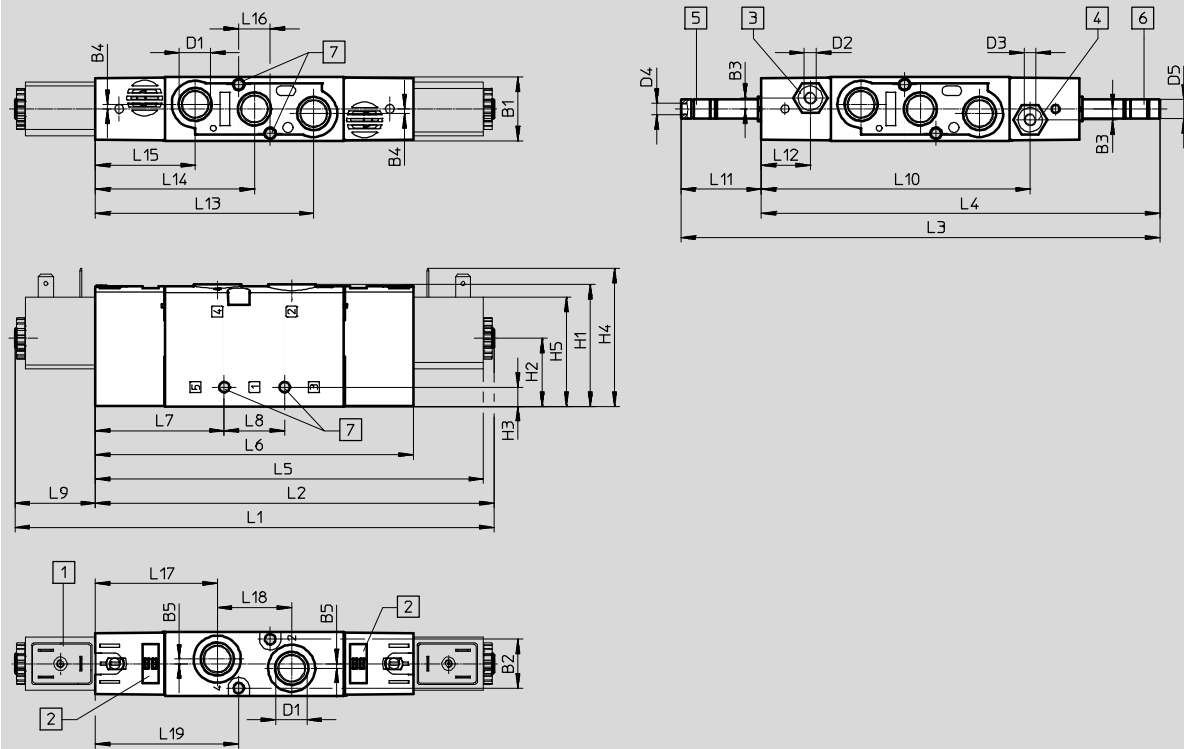
Technical data

Dimensions

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5/3-way valves and 5/2-way valves, double solenoid, with solenoid coil

5/3-way valves and 5/2-way valves, double solenoid, without solenoid coil



- 1 Solenoid coil interface type B/type C
- 2 Location for inscription label
- 3 Port 14 for pilot air supply
- 4 Port 12 for pilot air supply
- 5 Port 84 for pilot exhaust air
- 6 Port 82 for pilot exhaust air
- 7 For screw M4

Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L25-P53...-MD-G14-...	26.5	20.2	-	1.9	1.9	G1/4	-	-	M5	8	50.5	28.2	8	57.2	45.2
VUVS-L25-P53...-MZD-G14-...			4.5				M5	M5							
VUVS-L25-B52-D-G14-...			-				-	-							
VUVS-L25-B52-ZD-G14-...			4.5				M5	M5							

Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
VUVS-L25-P53...-MD-G14-...	200.3	166	198.2	164.9	160.6	131.6	53.3	25	33.3	-	33.3
VUVS-L25-P53...-MZD-G14-...										111.3	
VUVS-L25-B52-D-G14-...										-	
VUVS-L25-B52-ZD-G14-...										111.3	

Type	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-L25-P53...-MD-G14-...	-	90.3	65.8	41.3	13	50.4	30.8	59.3
VUVS-L25-P53...-MZD-G14-...	20.3							
VUVS-L25-B52-D-G14-...	-							
VUVS-L25-B52-ZD-G14-...	20.3							

Solenoid valves VUVS-L, size 25

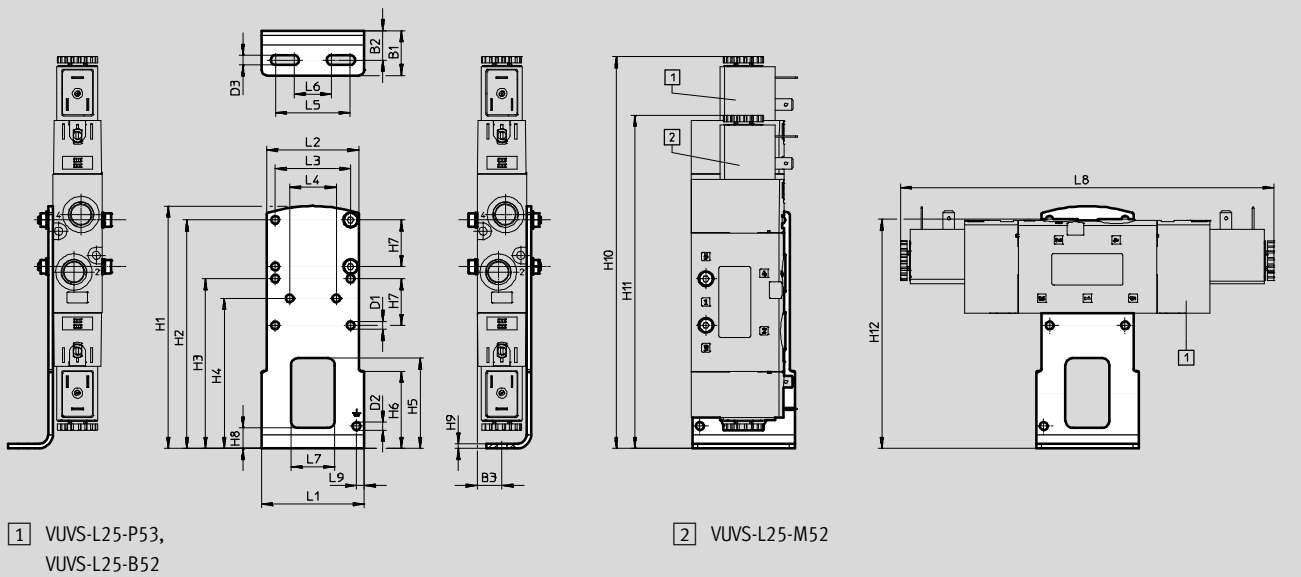
Accessories



Dimensions

Download CAD data → www.festo.com

Foot mounting



Type		B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	H1	H2	H3	H4	H5
VAME-B10-25-A	VUVS-L25-B52/P53	24	15.8	13.3	4.2	4.2	5.2	130	122.5	91	80.5	48.5
	VUVS-L25-M52											
	VUVS-L25-M32											

Type		H6	H7	H8	H9	H10	H11	H12
VAME-B10-25-A	VUVS-L25-B52/P53	41.5	25	11	2.5	210	-	123
	VUVS-L25-M52					-	178.7	
	VUVS-L25-M32					139	-	

Type		L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-25-A	VUVS-L25-B52/P53	55	49.4	40.4	25	40	20	23.5	198.2	4.1
	VUVS-L25-M52								161.1	
	VUVS-L25-M32								128.1	

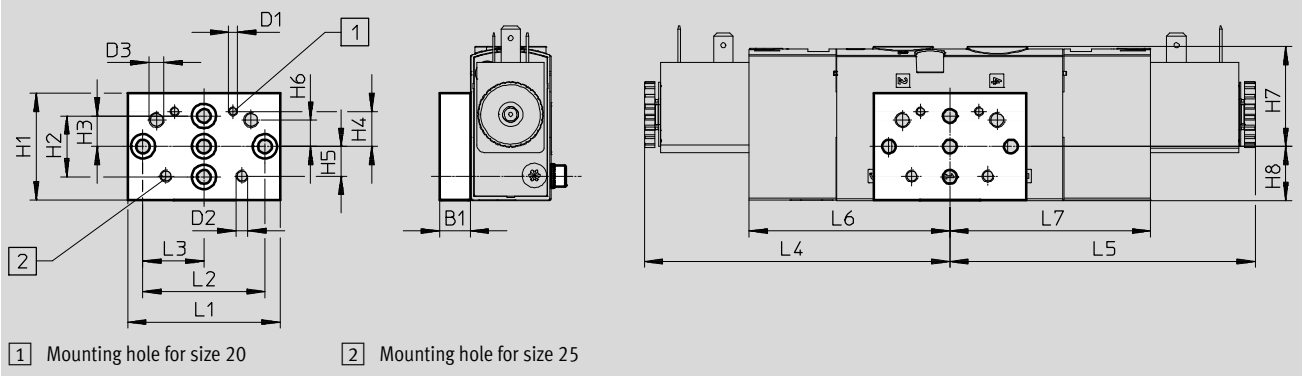
Solenoid valves VUVS-L, size 25

Accessories

Dimensions

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Wall mounting

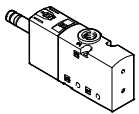
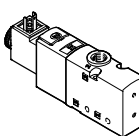


Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-L25-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-L25-M52										
	VUVS-L25-M32										

Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-L25-B52/P53	32.8	17.7	50	40	20	100	100	65.8	65.8
	VUVS-L25-M52									
	VUVS-L25-M32									

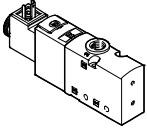
Solenoid valves VUVS-L, size 25

Accessories

Ordering data				
	Code	Valve function	Part No.	Type
3/2-way valve without solenoid coil				
	Single solenoid, normally closed			
	M32C-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575471	VUVS-L25-M32C-AD-G14-F8
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575472	VUVS-L25-M32C-AZD-G14-F8
	M32C-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575473	VUVS-L25-M32C-MD-G14-F8
		Mechanical spring return, external pilot air supply, direction of flow reversible	575474	VUVS-L25-M32C-MZD-G14-F8
	Single solenoid, normally open			
	M32U-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575486	VUVS-L25-M32U-AD-G14-F8
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575487	VUVS-L25-M32U-AZD-G14-F8
	M32U-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575488	VUVS-L25-M32U-MD-G14-F8
		Mechanical spring return, external pilot air supply, direction of flow reversible	575489	VUVS-L25-M32U-MZD-G14-F8
3/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, normally closed, type C			
	M32C-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575475	VUVS-L25-M32C-AD-G14-F8-1C1
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575476	VUVS-L25-M32C-AZD-G14-F8-1C1
	M32C-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575477	VUVS-L25-M32C-MD-G14-F8-1C1
		Mechanical spring return, external pilot air supply, direction of flow reversible	575478	VUVS-L25-M32C-MZD-G14-F8-1C1
	Single solenoid, normally closed, type B			
	M32C-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575479	VUVS-L25-M32C-AD-G14-F8-1B2
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575480	VUVS-L25-M32C-AZD-G14-F8-1B2
	M32C-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575481	VUVS-L25-M32C-MD-G14-F8-1B2
		Mechanical spring return, external pilot air supply, direction of flow reversible	575482	VUVS-L25-M32C-MZD-G14-F8-1B2

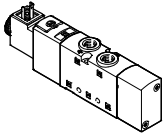
Solenoid valves VUVS-L, size 25

Accessories

Ordering data				
	Code	Valve function	Part No.	Type
3/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, normally open, type C			
	M32U-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575490	VUVS-L25-M32U-AD-G14-F8-1C1
	M32U-A	Pneumatic spring return, external pilot air supply, direction of flow reversible	575491	VUVS-L25-M32U-AZD-G14-F8-1C1
	M32U-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575492	VUVS-L25-M32U-MD-G14-F8-1C1
	M32U-M	Mechanical spring return, external pilot air supply, direction of flow reversible	575493	VUVS-L25-M32U-MZD-G14-F8-1C1
	Single solenoid, normally open, type B			
	M32U-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575494	VUVS-L25-M32U-AD-G14-F8-1B2
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575495	VUVS-L25-M32U-AZD-G14-F8-1B2
	M32U-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575496	VUVS-L25-M32U-MD-G14-F8-1B2
		Mechanical spring return, external pilot air supply, direction of flow reversible	575497	VUVS-L25-M32U-MZD-G14-F8-1B2

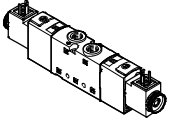
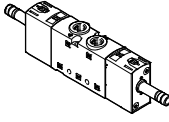
Solenoid valves VUVS-L, size 25

Accessories

Ordering data				
	Code	Valve function	Part No.	Type
5/2-way valve without solenoid coil				
	Single solenoid			
	M52-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575501	VUVS-L25-M52-AD-G14-F8
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575502	VUVS-L25-M52-AZD-G14-F8
	M52-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575509	VUVS-L25-M52-MD-G14-F8
Mechanical spring return, external pilot air supply, direction of flow reversible		575510	VUVS-L25-M52-MZD-G14-F8	
	Double solenoid			
	B52	Internal pilot air supply, direction of flow not reversible	575516	VUVS-L25-B52-D-G14-F8
		External pilot air supply, direction of flow reversible	575517	VUVS-L25-B52-ZD-G14-F8
5/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, type C			
	M52-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575503	VUVS-L25-M52-AD-G14-F8-1C1
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575504	VUVS-L25-M52-AZD-G14-F8-1C1
	M52-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575511	VUVS-L25-M52-MD-G14-F8-1C1
		Mechanical spring return, external pilot air supply, direction of flow reversible	575512	VUVS-L25-M52-MZD-G14-F8-1C1
	Single solenoid, type B			
	M52-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575505	VUVS-L25-M52-AD-G14-F8-1B2
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575506	VUVS-L25-M52-AZD-G14-F8-1B2
	M52-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575513	VUVS-L25-M52-MD-G14-F8-1B2
		Mechanical spring return, external pilot air supply, direction of flow reversible	575514	VUVS-L25-M52-MZD-G14-F8-1B2

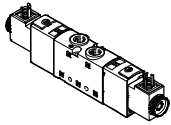
Solenoid valves VUVS-L, size 25

Accessories

Ordering data				
	Code	Valve function	Part No.	Type
5/2-way valve with solenoid coil (24 V DC)				
	Double solenoid, type C			
	B52	Internal pilot air supply, direction of flow not reversible	575518	VUVS-L25-B52-D-G14-F8-1C1
		External pilot air supply, direction of flow reversible	575519	VUVS-L25-B52-ZD-G14-F8-1C1
	Double solenoid, type B			
	B52	Internal pilot air supply, direction of flow not reversible	575520	VUVS-L25-B52-D-G14-F8-1B2
		External pilot air supply, direction of flow reversible	575521	VUVS-L25-B52-ZD-G14-F8-1B2
5/3-way valve without solenoid coil				
	Mid-position closed			
	P53C	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575523	VUVS-L25-P53C-MD-G14-F8
		Mechanical spring return, external pilot air supply, direction of flow reversible	575524	VUVS-L25-P53C-MZD-G14-F8
	Mid-position exhausted			
	P53E	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575537	VUVS-L25-P53E-MD-G14-F8
		Mechanical spring return, external pilot air supply, direction of flow reversible	575538	VUVS-L25-P53E-MZD-G14-F8
	Mid-position pressurised			
	P53U	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575530	VUVS-L25-P53U-MD-G14-F8
		Mechanical spring return, external pilot air supply, direction of flow reversible	575531	VUVS-L25-P53U-MZD-G14-F8

Solenoid valves VUVS-L, size 25




Accessories

Ordering data				
	Code	Valve function	Part No.	Type
5/3-way valve with solenoid coil (24 V DC)				
	Mid-position closed, type C			
	P53C	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575525	VUVS-L25-P53C-MD-G14-F8-1C1
		Mechanical spring return, external pilot air supply, direction of flow reversible	575526	VUVS-L25-P53C-MZD-G14-F8-1C1
	Mid-position exhausted, type C			
	P53E	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575539	VUVS-L25-P53E-MD-G14-F8-1C1
		Mechanical spring return, external pilot air supply, direction of flow reversible	575540	VUVS-L25-P53E-MZD-G14-F8-1C1
	Mid-position pressurised, type C			
	P53U	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575532	VUVS-L25-P53U-MD-G14-F8-1C1
		Mechanical spring return, external pilot air supply, direction of flow reversible	575533	VUVS-L25-P53U-MZD-G14-F8-1C1
	Mid-position closed, type B			
	P53C	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575527	VUVS-L25-P53C-MD-G14-F8-1B2
		Mechanical spring return, external pilot air supply, direction of flow reversible	575528	VUVS-L25-P53C-MZD-G14-F8-1B2
	Mid-position exhausted, type B			
	P53E	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575541	VUVS-L25-P53E-MD-G14-F8-1B2
		Mechanical spring return, external pilot air supply, direction of flow reversible	575542	VUVS-L25-P53E-MZD-G14-F8-1B2
	Mid-position pressurised, type B			
	P53U	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575534	VUVS-L25-P53U-MD-G14-F8-1B2
		Mechanical spring return, external pilot air supply, direction of flow reversible	575535	VUVS-L25-P53U-MZD-G14-F8-1B2

Solenoid valves VUVS-L, size 25

Accessories


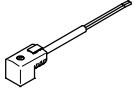

FESTO

Ordering data			
	Description	Part No.	Type
Solenoid coils for valves			
	Port pattern type C, to DIN EN 175301-803	12 V DC	8030810 VACF-B-C1-5
		24 V DC	8030811 VACF-B-C1-1
		48 V DC	8030812 VACF-B-C1-7
		24 V AC/50-60 Hz	8030813 VACF-B-C1-1A
		48 V AC	8030814 VACF-B-C1-7A
		110/120 V AC/50-60 Hz	8030815 VACF-B-C1-16B
		230/240 V AC/50-60 Hz	8030817 VACF-B-C1-3W
	Port pattern type B, to EN 175301-803	12 V DC	8030801 VACF-B-B2-5
		24 V DC	8030802 VACF-B-B2-1
		48 V DC	8030803 VACF-B-B2-7
		24 V AC/50-60 Hz	8030804 VACF-B-B2-1A
		48 V AC/50-60 Hz	8030805 VACF-B-B2-7A
		110/120 V AC/50-60 Hz	8030806 VACF-B-B2-16B
		230/240 V AC/50-60 Hz	8030808 VACF-B-B2-3W
Seal set			
	For solenoid valves in order to guarantee protection class IP67	8034609 VAMC-B10-B-B-S8	
Cover cap			
	For manual override, non-detenting or covered	8028240 VAMC-B10-20-CH2	

Solenoid valves VUVS-L, size 25




Accessories

FESTO

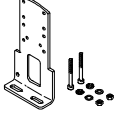
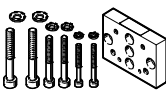
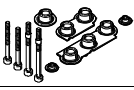

Ordering data						
Description				Part No.	Type	
Plug socket						
	Port pattern type C, to DIN EN 175301-803					
	3-pin, screw terminal	Cable connector M12	0 ... 250 V AC/DC	IP65	539712	MSSD-EB-M12
		Cable connector Pg7			151687	MSSD-EB
	4-pin, insulation displacement connector	Cable connector M14	0 ... 250 V AC/DC	IP67	192745	MSSD-EB-S-M14
	3-pin, straight plug connector	Cable connector M12	12 ... 24 V AC/DC	IP65	188024	MSSD-EB-M12-MONO
	Port pattern type B, to EN 175301-803					
	3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/DC	IP65	539710	MSSD-F-M16
		Cable connector Pg9			34431	MSSD-F
	3-pin, insulation displacement connector	–	0 ... 250 V AC/DC	IP67	192746	MSSD-F-S-M16
	Plug socket with cable					
	Port pattern type C, to DIN EN 175301-803					
	Angled socket, 3-pin Cable, open end, 3-wire	24 V DC	LED	2.5 m	151688	KMEB-1-24-2,5-LED
				5 m	151689	KMEB-1-24-5-LED
				10 m	193457	KMEB-1-24-10-LED
	230 V AC	–	2.5 m	151690	KMEB-1-230AC-2,5	
			5 m	151691	KMEB-1-230AC-5	
	Port pattern type B, to DIN EN 175301-803					
	Angled socket, 3-pin Cable, open end, 3-wire	24 V DC	LED	2.5 m	30935	KMF-1-24DC-2,5-LED
				5 m	30937	KMF-1-24DC-5-LED
				10 m	193458	KMF-1-24-10-LED
230 V AC	–	2.5 m	30936	KMF-1-230AC-2,5		
		5 m	30938	KMF-1-230AC-5		
Illuminating seal						
	Port pattern type C, to DIN EN 175301-803		24 V DC	151717	MEB-LD-12-24DC	
			230 V AC	151718	MEB-LD-230AC	
	Port pattern type B, to DIN EN 175301-803		24 V DC	19143	MF-LD-12-24DC	
			230 V AC	19144	MF-LD-230AC	

Solenoid valves VUVS-L, size 25

Accessories


Ordering data					
	Description		Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread M5 for tubing O.D.	4 mm	153315	QSM-M5-4-I	10
	Connecting thread G $\frac{1}{4}$ 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-G1/4-10-I	10
Angled push-in fitting with external hex					
	Connecting thread G $\frac{1}{4}$ for tubing O.D.	6 mm	186118	QSL-G1/4-6	10
			132051	QSL-G1/4-6-100	100
	8 mm	186120	QSL-G1/4-8	10	
		132052	QSL-G1/4-8-50	50	
	10 mm	186122	QSL-G1/4-10	10	
		132053	QSL-G1/4-10-50	50	
Angled push-in fitting, long, with external hex					
	Connecting thread G $\frac{1}{4}$ for tubing O.D.	6 mm	186129	QSL-G1/4-6	10
		8 mm	186131	QSL-G1/4-8	10
		10 mm	186133	QSL-G1/4-10	10


1) Packaging unit


Ordering data					
	Description	Weight [g]	Part No.	Type	
Foot mounting					
	With screw set for attaching the valve to the foot mounting	130	2293485	VAME-B10-25-A	
Wall mounting					
	With screw set for attaching the valve to the wall mounting	53	576413	VAME-B10-20-W	
Set of spare parts					
	Set comprising seals and screws	12	8035636	VAME-B10-25-MK	
Inscription label					
	40 pieces in frame	-	565306	ASLR-C-E4	

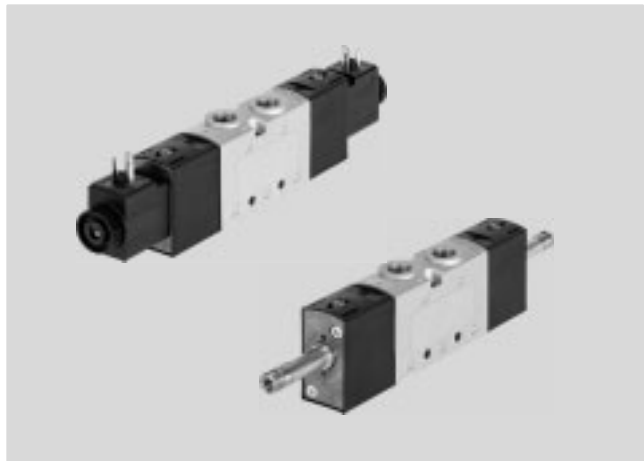
Solenoid valves VUVS-L, size 30

Technical data

-  - Flow rate
Up to 2300 l/min

-  - Valve width
31 mm

-  - Voltage
12, 24 V DC
24, 110, 120, 230, 240 V AC



General technical data							
Valve function		3/2		5/2		5/3	
Order code for valves		M32C	M32U	M52	B52	P53C	P53U P53E
Valve width	[mm]	31					
Nominal width	[mm]	9.4			8.9	8.1	
Design		Piston spool					
Direction of flow		Reversible with external pilot air supply					
Pilot air supply		Internal or external					
Type of actuation		Piloted					
Manual override		Non-detenting, detenting					
Non-overlapping		Yes					
Sealing principle		Soft					
Type of mounting		Optionally via through-hole or on manifold rail					
Standard nominal flow rate	[qnN]	2300	2300	2300	2000	1600	1600
Type of actuation		Electrical					
Mounting position		Any					
Exhaust air function		With flow control					
Pneumatic port		G3/8					
1, 2, 4, 3, 5		G1/8					
Auxiliary pilot air port 12/14		M5					
Pilot exhaust air port 82/84		2					
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.

Solenoid valves VUVS-L, size 30

Technical data

Technical data – 3/2-way valves					
Order code for valves		M32C		M32U	
Normal position		Closed		Open	
Stable position		Monostable		Monostable	
Reset method		Pneumatic spring	Mechanical spring	Pneumatic spring	Mechanical spring
Switching times	On	19	16	19	15
	Off	36	58	37	57
	Change-over	–	–	–	–
Product weight excluding solenoid coil	[g]	354	354	354	354
Product weight including solenoid coil	[g]	405	405	405	405

Technical data – 5/2-way valves				
Order code for valves		M52		B52
Normal position		–		–
Stable position		Monostable		Bistable
Reset method		Pneumatic spring	Mechanical spring	–
Switching times	On	24	17	–
	Off	49	62	–
	Change-over	–	–	13
Product weight excluding solenoid coil	[g]	450	450	464
Product weight including solenoid coil	[g]	500	500	565

Technical data – 5/3-way valves					
Order code for valves		P53C		P53U	P53E
Normal position/mid-position		Closed		Pressurised	Exhausted
Stable position		Monostable			
Reset method		Mechanical spring			
Switching times	On	17	18	20	
	Off	76	75	74	
	Change-over	39	31	36	
Product weight excluding solenoid coil	[g]	461	461	461	
Product weight including solenoid coil	[g]	562	562	562	

Safety data		
Note on forced checking procedure		Switching frequency min. 1/week
Max. positive test pulse	[µs]	2000 (valves with VACF-B-...-1)
0 signal		
Max. negative test pulse	[µs]	3600 (valves with VACF-B-...-1)
1 signal		
Shock resistance		Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Vibration resistance		Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

Solenoid valves VUVS-L, size 30

Technical data

Operating and environmental conditions				
Order code for valves	M32	M52	B52	P53
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
Pilot medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)			
Operating pressure with internal pilot air supply [bar]	2.5 ... 10		1.5 ... 10	2.5 ... 10
Operating pressure with external pilot air supply [bar]	-0.9 ... +10			
Pilot pressure [bar]	2.5 ... 10		1.5 ... 10	2.5 ... 10
Ambient temperature [°C]	-10 ... +60			
Temperature of medium [°C]	-10 ... +60			

Electrical data		
	With solenoid coil	Without solenoid coil
Electrical connection	Via electrical solenoid coil	Via solenoid coil
Operating voltage	[V DC] 12 and 24 ±10%	→ Internet: vacf
	[V AC] 24, 110, 120, 230, 240 ±10%	
Duty cycle ED [%]	100	
Degree of protection to EN 60529	IP65 with plug socket	
Permissible voltage fluctuations [%]	10	

Information on materials	
Housing	Die-cast aluminium
Seals	HNBR, NBR
Piston spool	Wrought aluminium alloy
Note on materials	RoHS compliant

Solenoid valves VUVS-L, size 30

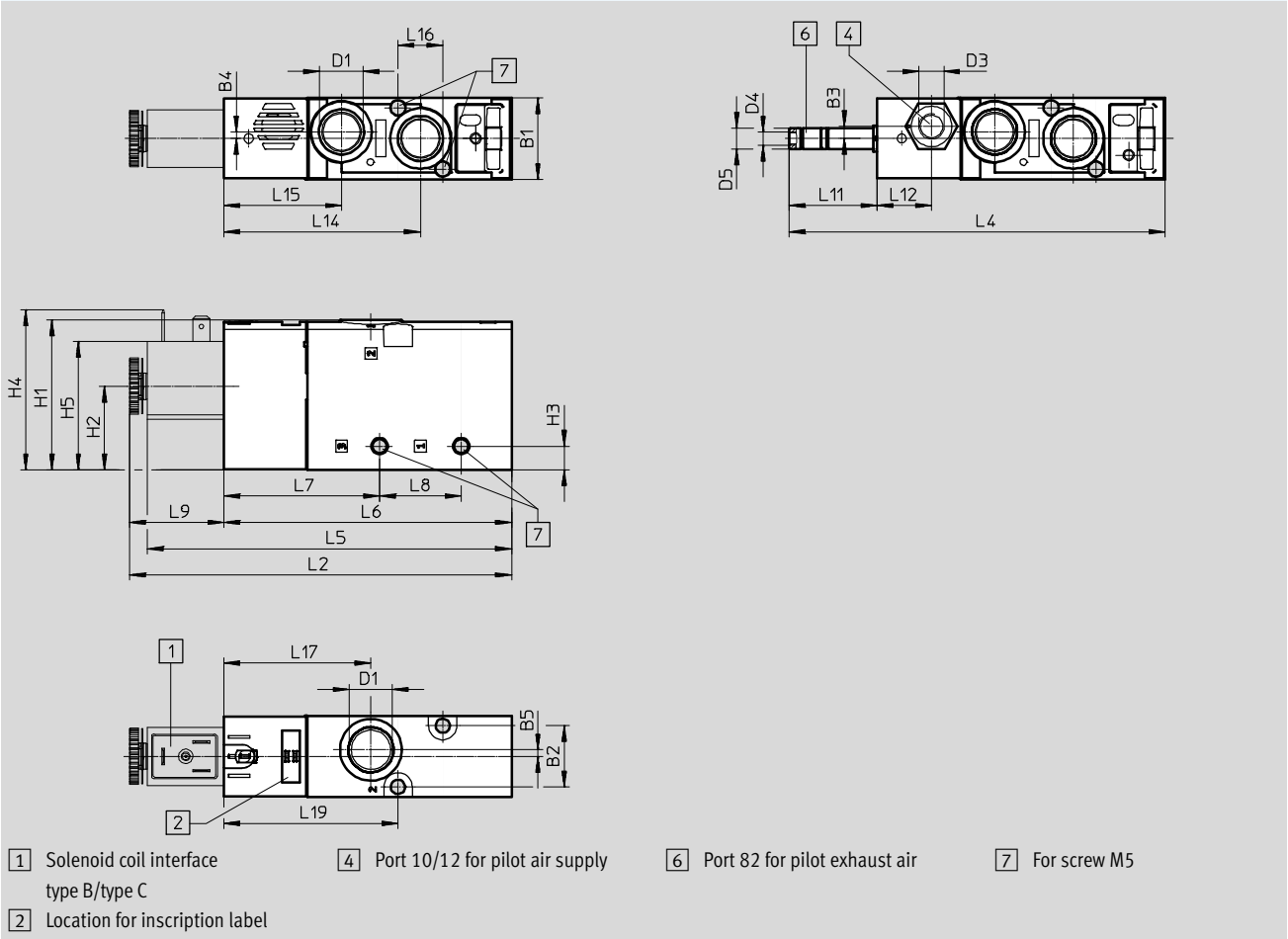
Technical data

Dimensions

Download CAD data → www.festo.com

3/2-way valves, with solenoid coil

3/2-way valves, without solenoid coil



Type	B1	B2	B3	B4	B5	D1	D3	D4	D5	H1	H2	H3	H4	H5
VUVS-L30-M32...-D-G38-...	31	23.3	–	2.5	2.5	G3/8	–	M5	8	57	31.8	9	63.7	51.6
VUVS-L30-M32...-ZD-G38-...			4.6				G1/8							

Type	L2	L4	L5	L6	L7	L8	L9	L11	L12	L14	L15	L16	L17	L19
VUVS-L30-M32...-D-G38-...	144.9	142.8	139.5	109.5	59.3	31	35.4	33.3	–	74.8	44.8	17	56	66.3
VUVS-L30-M32...-ZD-G38-...									20.8					

Solenoid valves VUVS-L, size 30

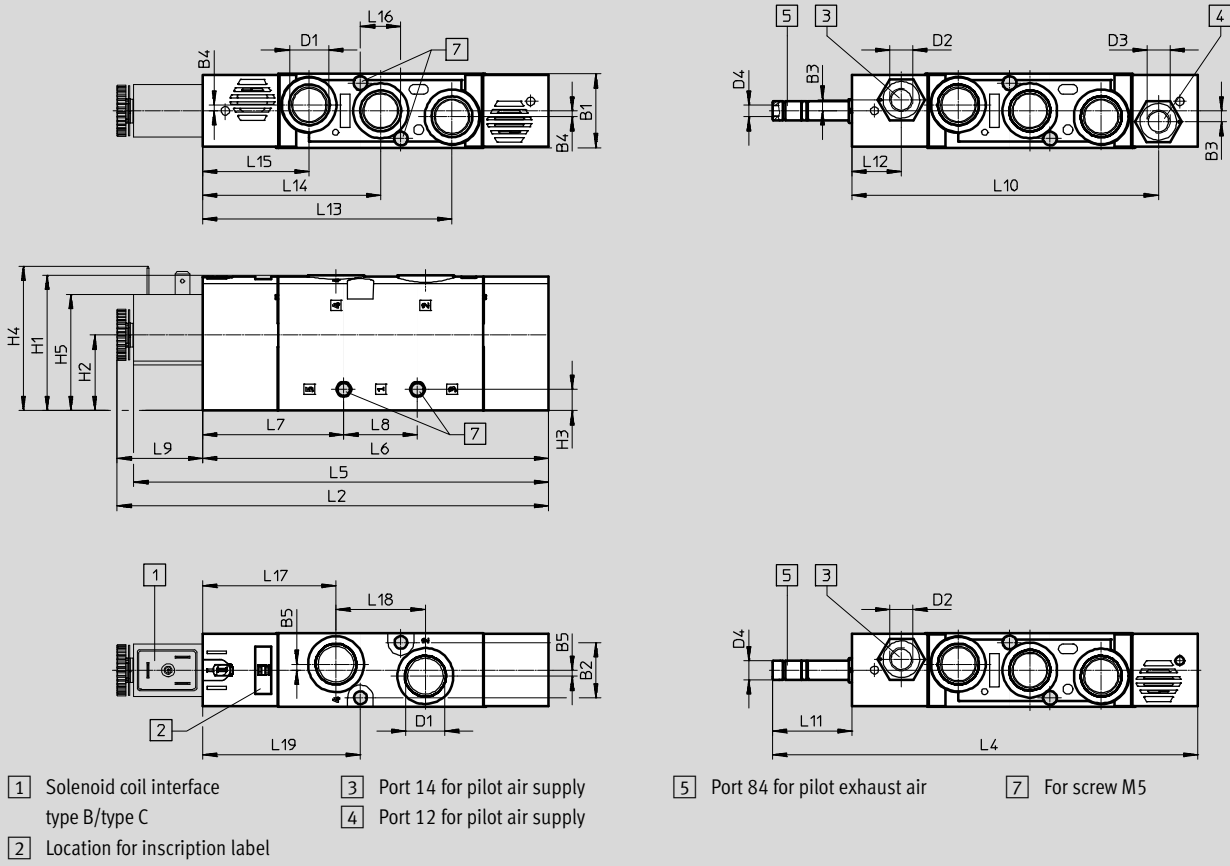
Technical data

Dimensions

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5/2-way single solenoid valves, with solenoid coil

5/2-way single solenoid valves, without solenoid coil



- 1 Solenoid coil interface type B/type C
- 2 Location for inscription label
- 3 Port 14 for pilot air supply
- 4 Port 12 for pilot air supply
- 5 Port 84 for pilot exhaust air
- 7 For screw M5

Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5	H1	H2	H3	H4	H5
VUVS-L30-M52-...D-G38-...	31	23.3	–	2.5	2.5	G3/8	–	–	M5	8	57	31.8	9	63.7	51.6
VUVS-L30-M52-...ZD-G38-...			4.6				G1/8	G1/8							

Type	L2	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-L30-M52-...D-G38-...	180.7	178.6	179.6	145.3	59.3	31	35.4	–	33.3	–	104.8	74.8	44.8	17	56	37.6	66.3
VUVS-L30-M52-...ZD-G38-...								128.8		20.8							

Solenoid valves VUVS-L, size 30

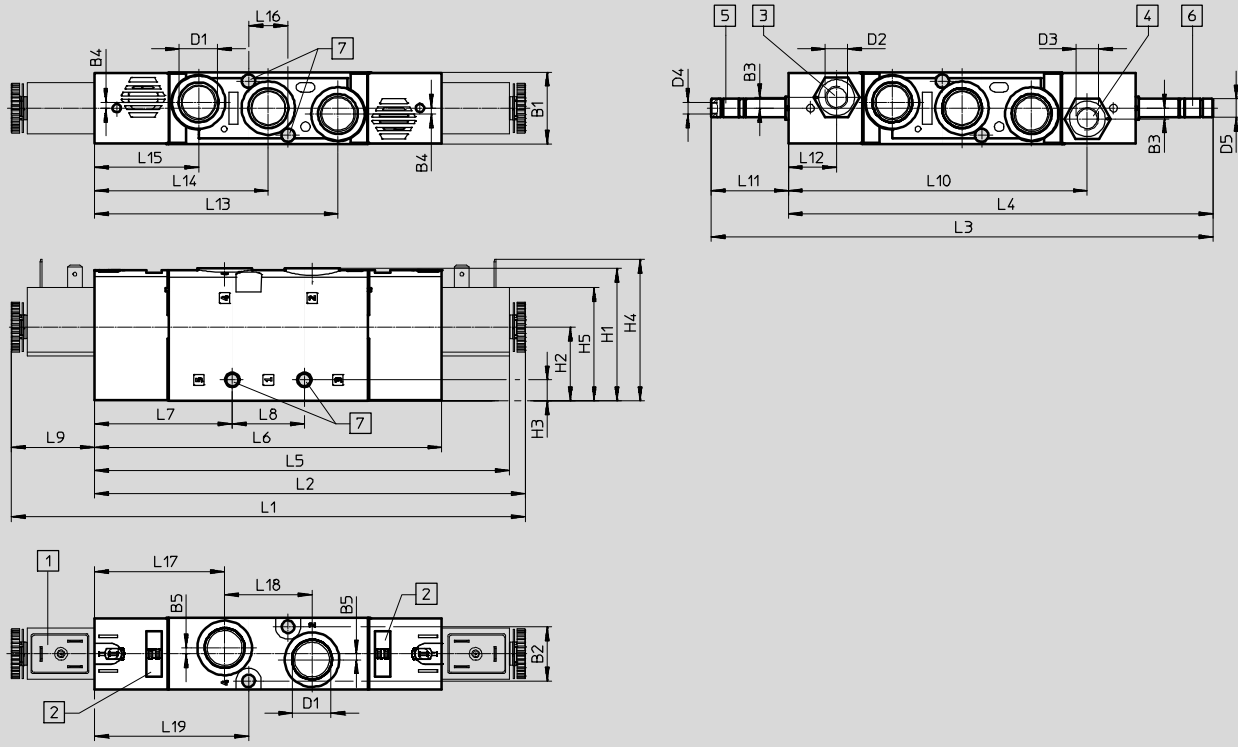
Technical data

Dimensions

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5/3-way valves and 5/2-way valves, double solenoid, with solenoid coil

5/3-way valves and 5/2-way valves, double solenoid, without solenoid coil



- 1 Solenoid coil interface type B/type C
- 2 Location for inscription label
- 3 Port 14 for pilot air supply
- 4 Port 12 for pilot air supply
- 5 Port 84 for pilot exhaust air
- 6 Port 82 for pilot exhaust air
- 7 For screw M5

Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L30-P53...-MD-G38-...	31	23.3	-	2.5	2.5	G3/8	-	-	M5	8	57	31.8	9	63.7	51.6
VUVS-L30-P53...-MZD-G38-...			G1/8				G1/8								
VUVS-L30-B52-D-G38-...			-				-								
VUVS-L30-B52-ZD-G38-...			G1/8				G1/8								

Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
VUVS-L30-P53...-MD-G38-...	220.3	185	216.2	182.9	179.6	149.6	59.3	31	35.4	-	33.3
VUVS-L30-P53...-MZD-G38-...										128.8	
VUVS-L30-B52-D-G38-...										-	
VUVS-L30-B52-ZD-G38-...										128.8	

Type	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-L30-P53...-MD-G38-...	-	104.8	74.8	44.8	17	56	37.6	66.3
VUVS-L30-P53...-MZD-G38-...	20.8							
VUVS-L30-B52-D-G38-...	-							
VUVS-L30-B52-ZD-G38-...	20.8							

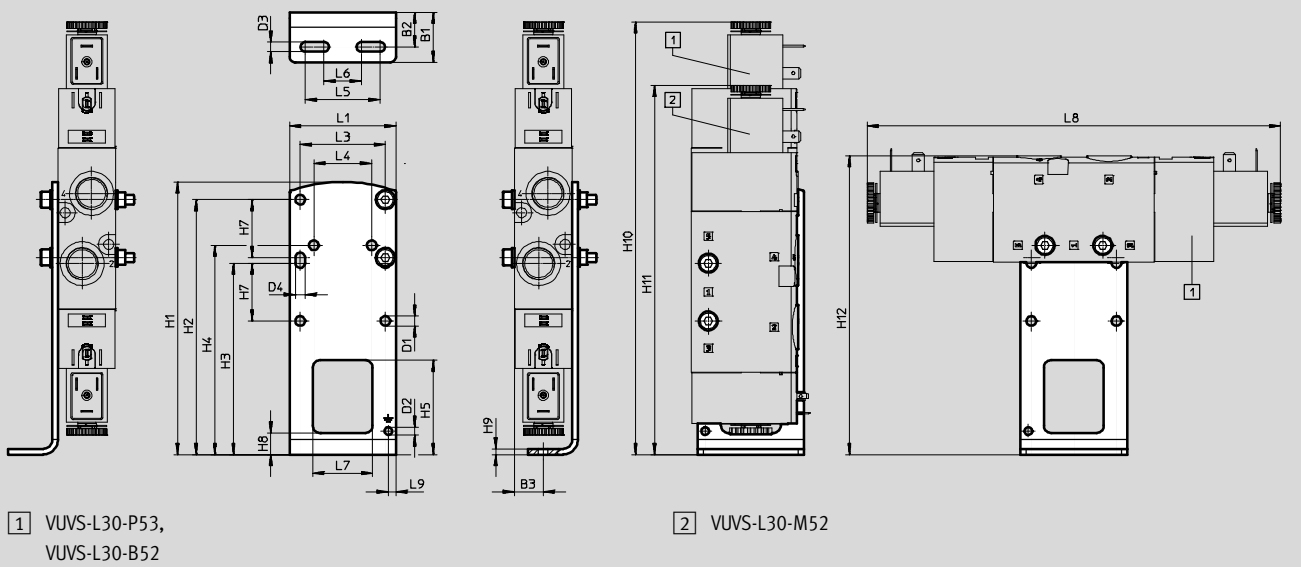
Solenoid valves VUVS-L, size 30

Accessories

Dimensions

Download CAD data → www.festo.com

Foot mounting



Type		B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	D4 Ø	H1	H2	H3	H4	H5
VAME-B10-30-A	VUVS-L30-B52/P53	26.8	18.5	15.5	5.2	4.2	5.2	5.2	146	136.5	102.5	112	50.5
	VUVS-L30-M52												
	VUVS-L30-M32												

Type		H6	H7	H8	H9	H10	H11	H12
VAME-B10-30-A	VUVS-L30-B52/P53	-	31	11.5	3	231.2	-	160
	VUVS-L30-M52							
	VUVS-L30-M32							

Type		L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-30-A	VUVS-L30-B52/P53	57	-	45.6	31	40	20	32	220.3	4.1
	VUVS-L30-M52									
	VUVS-L30-M32									

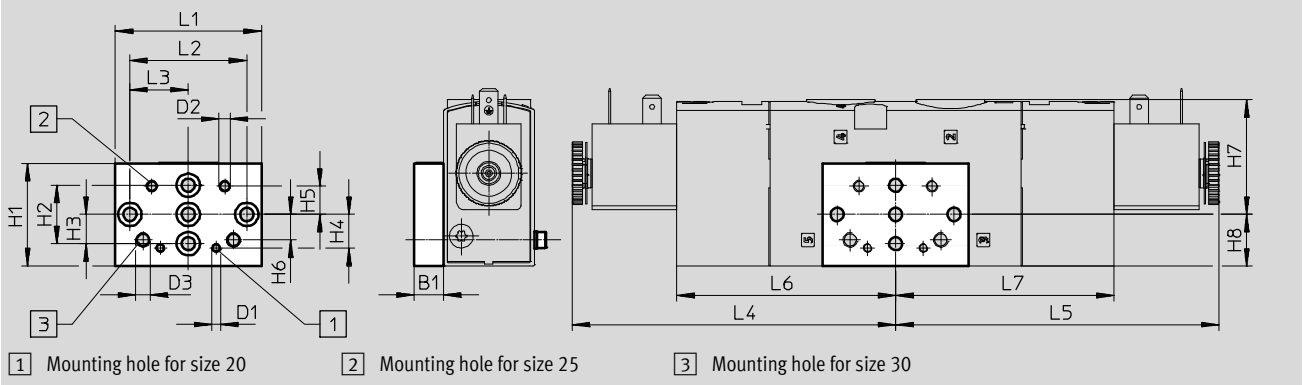
Solenoid valves VUVS-L, size 30

Accessories

Dimensions

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Wall mounting

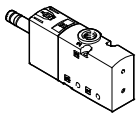
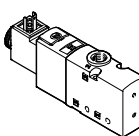


Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-L30-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-L30-M52										
	VUVS-L30-M32										

Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-L30-B52/P53	39.3	17.7	50	40	20	110.2	110.2	74.8	74.8
	VUVS-L30-M52						–		70.5	
	VUVS-L30-M32						–		34.7	

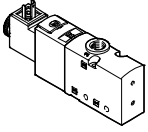
Solenoid valves VUVS-L, size 30

Accessories

Ordering data				
	Code	Valve function	Part No.	Type
3/2-way valve without solenoid coil				
	Single solenoid, normally closed			
	M32C-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575564	VUVS-L30-M32C-AD-G38-F8
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575565	VUVS-L30-M32C-AZD-G38-F8
	M32C-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575566	VUVS-L30-M32C-MD-G38-F8
		Mechanical spring return, external pilot air supply, direction of flow reversible	575567	VUVS-L30-M32C-MZD-G38-F8
	Single solenoid, normally open			
	M32U-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575579	VUVS-L30-M32U-AD-G38-F8
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575580	VUVS-L30-M32U-AZD-G38-F8
	M32U-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575581	VUVS-L30-M32U-MD-G38-F8
		Mechanical spring return, external pilot air supply, direction of flow reversible	575582	VUVS-L30-M32U-MZD-G38-F8
3/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, normally closed, type C			
	M32C-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575568	VUVS-L30-M32C-AD-G38-F8-1C1
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575569	VUVS-L30-M32C-AZD-G38-F8-1C1
	M32C-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575570	VUVS-L30-M32C-MD-G38-F8-1C1
		Mechanical spring return, external pilot air supply, direction of flow reversible	575571	VUVS-L30-M32C-MZD-G38-F8-1C1
	Single solenoid, normally closed, type B			
	M32C-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575572	VUVS-L30-M32C-AD-G38-F8-1B2
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575573	VUVS-L30-M32C-AZD-G38-F8-1B2
	M32C-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575574	VUVS-L30-M32C-MD-G38-F8-1B2
		Mechanical spring return, external pilot air supply, direction of flow reversible	575575	VUVS-L30-M32C-MZD-G38-F8-1B2

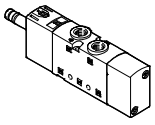
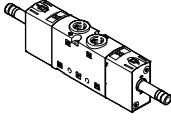
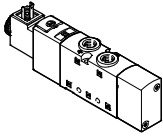
Solenoid valves VUVS-L, size 30

Accessories

Ordering data				
	Code	Valve function	Part No.	Type
3/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, normally open, type C			
	M32U-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575583	VUVS-L30-M32U-AD-G38-F8-1C1
	M32U-A	Pneumatic spring return, external pilot air supply, direction of flow reversible	575584	VUVS-L30-M32U-AZD-G38-F8-1C1
	M32U-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575585	VUVS-L30-M32U-MD-G38-F8-1C1
	M32U-M	Mechanical spring return, external pilot air supply, direction of flow reversible	575586	VUVS-L30-M32U-MZD-G38-F8-1C1
	Single solenoid, normally open, type B			
	M32U-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575587	VUVS-L30-M32U-AD-G38-F8-1B2
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575588	VUVS-L30-M32U-AZD-G38-F8-1B2
	M32U-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575589	VUVS-L30-M32U-MD-G38-F8-1B2
		Mechanical spring return, external pilot air supply, direction of flow reversible	575590	VUVS-L30-M32U-MZD-G38-F8-1B2

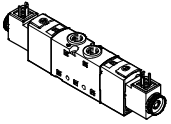
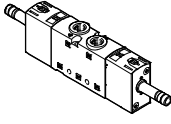
Solenoid valves VUVS-L, size 30

Accessories

Ordering data				
	Code	Valve function	Part No.	Type
5/2-way valve without solenoid coil				
	Single solenoid			
	M52-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575594	VUVS-L30-M52-AD-G38-F8
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575595	VUVS-L30-M52-AZD-G38-F8
	M52-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575602	VUVS-L30-M52-MD-G38-F8
		Mechanical spring return, external pilot air supply, direction of flow reversible	575603	VUVS-L30-M52-MZD-G38-F8
		Double solenoid		
B52		Internal pilot air supply, direction of flow not reversible	575609	VUVS-L30-B52-D-G38-F8
		External pilot air supply, direction of flow reversible	575610	VUVS-L30-B52-ZD-G38-F8
5/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, type C			
	M52-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575596	VUVS-L30-M52-AD-G38-F8-1C1
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575597	VUVS-L30-M52-AZD-G38-F8-1C1
	M52-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575604	VUVS-L30-M52-MD-G38-F8-1C1
		Mechanical spring return, external pilot air supply, direction of flow reversible	575605	VUVS-L30-M52-MZD-G38-F8-1C1
	Single solenoid, type B			
	M52-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575598	VUVS-L30-M52-AD-G38-F8-1B2
		Pneumatic spring return, external pilot air supply, direction of flow reversible	575599	VUVS-L30-M52-AZD-G38-F8-1B2
	M52-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575606	VUVS-L30-M52-MD-G38-F8-1B2
		Mechanical spring return, external pilot air supply, direction of flow reversible	575607	VUVS-L30-M52-MZD-G38-F8-1B2

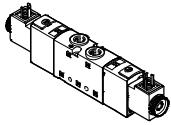
Solenoid valves VUVS-L, size 30

Accessories

Ordering data				
	Code	Valve function	Part No.	Type
5/2-way valve with solenoid coil (24 V DC)				
	Double solenoid, type C			
	B52	Internal pilot air supply, direction of flow not reversible	575611	VUVS-L30-B52-D-G38-F8-1C1
		External pilot air supply, direction of flow reversible	575612	VUVS-L30-B52-ZD-G38-F8-1C1
	Double solenoid, type B			
	B52	Internal pilot air supply, direction of flow not reversible	575613	VUVS-L30-B52-D-G38-F8-1B2
		External pilot air supply, direction of flow reversible	575614	VUVS-L30-B52-ZD-G38-F8-1B2
5/3-way valve without solenoid coil				
	Mid-position closed			
	P53C	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575616	VUVS-L30-P53C-MD-G38-F8
		Mechanical spring return, external pilot air supply, direction of flow reversible	575617	VUVS-L30-P53C-MZD-G38-F8
	Mid-position exhausted			
	P53E	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575630	VUVS-L30-P53E-MD-G38-F8
		Mechanical spring return, external pilot air supply, direction of flow reversible	575631	VUVS-L30-P53E-MZD-G38-F8
	Mid-position pressurised			
	P53U	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575623	VUVS-L30-P53U-MD-G38-F8
		Mechanical spring return, external pilot air supply, direction of flow reversible	575624	VUVS-L30-P53U-MZD-G38-F8




Solenoid valves VUVS-L, size 30

Accessories

Ordering data				
	Code	Valve function	Part No.	Type
5/3-way valve with solenoid coil (24 V DC)				
	Mid-position closed, type C			
	P53C	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575618	VUVS-L30-P53C-MD-G38-F8-1C1
		Mechanical spring return, external pilot air supply, direction of flow reversible	575619	VUVS-L30-P53C-MZD-G38-F8-1C1
	Mid-position exhausted, type C			
	P53E	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575632	VUVS-L30-P53E-MD-G38-F8-1C1
		Mechanical spring return, external pilot air supply, direction of flow reversible	575633	VUVS-L30-P53E-MZD-G38-F8-1C1
	Mid-position pressurised, type C			
	P53U	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575625	VUVS-L30-P53U-MD-G38-F8-1C1
		Mechanical spring return, external pilot air supply, direction of flow reversible	575626	VUVS-L30-P53U-MZD-G38-F8-1C1
	Mid-position closed, type B			
	P53C	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575620	VUVS-L30-P53C-MD-G38-F8-1B2
		Mechanical spring return, external pilot air supply, direction of flow reversible	575621	VUVS-L30-P53C-MZD-G38-F8-1B2
	Mid-position exhausted, type B			
	P53E	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575634	VUVS-L30-P53E-MD-G38-F8-1B2
		Mechanical spring return, external pilot air supply, direction of flow reversible	575635	VUVS-L30-P53E-MZD-G38-F8-1B2
	Mid-position pressurised, type B			
	P53U	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575627	VUVS-L30-P53U-MD-G38-F8-1B2
		Mechanical spring return, external pilot air supply, direction of flow reversible	575628	VUVS-L30-P53U-MZD-G38-F8-1B2


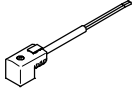

Solenoid valves VUVS-L, size 30

Accessories

Ordering data			
	Description	Part No.	Type
Solenoid coils for valves			
	Port pattern type C, to DIN EN 175301-803	12 V DC	8030810 VACF-B-C1-5
		24 V DC	8030811 VACF-B-C1-1
		48 V DC	8030812 VACF-B-C1-7
		24 V AC/50-60 Hz	8030813 VACF-B-C1-1A
		48 V AC	8030814 VACF-B-C1-7A
		110/120 V AC/50-60 Hz	8030815 VACF-B-C1-16B
		230/240 V AC/50-60 Hz	8030817 VACF-B-C1-3W
	Port pattern type B, to EN 175301-803	12 V DC	8030801 VACF-B-B2-5
		24 V DC	8030802 VACF-B-B2-1
		48 V DC	8030803 VACF-B-B2-7
		24 V AC/50-60 Hz	8030804 VACF-B-B2-1A
		48 V AC/50-60 Hz	8030805 VACF-B-B2-7A
		110/120 V AC/50-60 Hz	8030806 VACF-B-B2-16B
		230/240 V AC/50-60 Hz	8030808 VACF-B-B2-3W
Seal set			
	For solenoid valves in order to guarantee protection class IP67	8034609	VAMC-B10-B-B-S8
Cover cap			
	For manual override, non-detenting or covered	8028240	VAMC-B10-20-CH2




Solenoid valves VUVS-L, size 30

Accessories

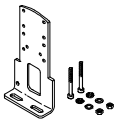
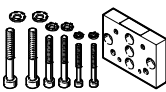
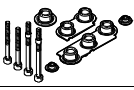

Ordering data						
Description				Part No.	Type	
Plug socket						
	Port pattern type C, to DIN EN 175301-803					
	3-pin, screw terminal	Cable connector M12	0 ... 250 V AC/DC	IP65	539712	MSSD-EB-M12
		Cable connector Pg7			151687	MSSDEB
	4-pin, insulation displacement connector	Cable connector M14	0 ... 250 V AC/DC	IP67	192745	MSSD-EB-S-M14
	3-pin, straight plug connector, M12, 2-pin	Cable connector M12	12 ... 24 V AC/DC	IP65	188024	MSSD-EB-M12-MONO
	Port pattern type B, to EN 175301-803					
	3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/DC	IP65	539710	MSSD-F-M16
		Cable connector Pg9			34431	MSSD-F
	3-pin, insulation displacement connector	–	0 ... 250 V AC/DC	IP67	192746	MSSD-F-S-M16
	Plug socket with cable					
	Port pattern type C, to DIN EN 175301-803					
	Angled socket, 3-pin Cable, open end, 3-wire	24 V DC	LED	2.5 m	151688	KMEB-1-24-2,5-LED
				5 m	151689	KMEB-1-24-5-LED
				10 m	193457	KMEB-1-24-10-LED
		230 V AC	–	2.5 m	151690	KMEB-1-230AC-2,5
				5 m	151691	KMEB-1-230AC-5
				Port pattern type B, to DIN EN 175301-803		
	Angled socket, 3-pin Cable, open end, 3-wire	24 V DC	LED	2.5 m	30935	KMF-1-24DC-2.5-LED
				5 m	30937	KMF-1-24DC-5-LED
				10 m	193458	KMF-1-24-10-LED
230 V AC		–	2.5 m	30936	KMF-1-230AC-2.5	
			5 m	30938	KMF-1-230AC-5	
			Illuminating seal			
	Connection pattern type C, to DIN EN 175301-803		24 V DC	151717	MEB-LD-12-24DC	
			230 V AC	151718	MEB-LD-230AC	
	Connection pattern type B, to DIN EN 175301-803		24 V DC	19143	MF-LD-12-24DC	
			230 V AC	19144	MF-LD-230AC	

Solenoid valves VUVS-L, size 30

Accessories

Ordering data					
	Description		Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread G $\frac{1}{8}$ for tubing O.D.	4 mm	186106	QS-G1/8-4-I	10
	Connecting thread G $\frac{3}{8}$ for tubing O.D.	6 mm	186111	QS-G3/8-8-I	10
		8 mm	186113	QS-G3/8-10-I	10
		10 mm	186114	QS-G3/8-12-I	10
Angled push-in fitting with external hex					
	Connecting thread G $\frac{3}{8}$ for tubing O.D.	6 mm	186121	QSL-G3/8-8	10
			186123	QSL-G3/8-10	10
	8 mm	186124	QSL-G3/8-12	10	
		132055	QSL-G3/8-8-50	50	
	10 mm	132056	QSL-G3/8-10-20	20	
		132057	QSL-G3/8-12-20	20	
Angled push-in fitting, long, with external hex					
	Connecting thread G $\frac{3}{8}$ for tubing O.D.	8 mm	186132	QSL-G3/8-8	10
		10 mm	186134	QSL-G3/8-10	10
		12 mm	186135	QSL-G3/8-12	10

1) Packaging unit

Ordering data					
	Description	Weight [g]	Part No.	Type	
Foot mounting					
	With screw set for attaching the valve to the foot mounting	239	8026337	VAME-B10-30-A	
Wall mounting					
	With screw set for attaching the valve to the wall mounting	53	576413	VAME-B10-20-W	
Set of spare parts					
	Set comprising seals and screws	22	8035637	VAME-B10-30-MK	
Inscription label					
	40 pieces in frame	-	565306	ASLR-C-E4	

Solenoid valves VUVS/valve manifold VTUS


Order code – Manifold block

VABM	-	B10	-		-
Manifold assembly parts					
Manifold block		VABM			
Valve series					
VUVS		B10			
Valve width					
21 mm				20	
26.5 mm				25	
31 mm				30	
Version					
Supply manifold					-
Compact manifold block					S
Standard manifold block					E
Extension module for standard manifold block					EEE

	-		-		-	
Mounting						
E						Supply manifold for mounting on one side
-						Standard mounting
Port for valve function						
-						Manifold block for 5/2- and 5/3-way valves
P3						Manifold block for 3/2-way valves
P53						Supply manifold
Number of valve positions						
2 ... 10						2 to 10
Pneumatic connections 1, 3, 5						
G38						G3/8
G14						G1/4
G12						G1/2
G34						G3/4

Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 20

 Flow rate
Up to 700 l/min



General technical data								
	Manifold block Standard		Extension module for standard manifold block		Manifold block compact		Supply manifold on both sides on one side	
	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2, 5/2, 5/3	
For valve function	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2, 5/2, 5/3	
Grid dimension [mm]	22							
Type of mounting	With through-hole						With mounting bracket	
Max. number of valve positions	10	10	2	2	10		10	4
Port 1	G3/8	G3/8	G3/8	G3/8	G1/4	G1/4	G3/8	G3/8
Port 3	G3/8	G3/8	G3/8	G3/8	G1/4	G1/4	–	–
Port 5	–	G3/8	–	G3/8	–	G1/4	–	–
Port 12	G1/8	G1/8	G1/8	G1/8	–	–	–	–
Port 14	–	G1/8	–	G1/8	–	–	–	–
CRC ¹⁾	2 ¹⁾							

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.

Weight [g]									
Valve positions	2	3	4	5	6	7	8	9	10
Manifold block for 3/2-way valves, standard									
VABM-B10-20E-G38-...-P3	449	574	699	825	950	1075	1200	1326	1451
Manifold block, extension module for 3/2-way valves, standard									
VABM-B10-20EEE-G38-2-P3	324	–	–	–	–	–	–	–	–
Manifold block for 5/2- and 5/3-way valves, standard									
VABM-B10-20E-G38-...	680	866	1053	1239	1425	1612	1798	1985	2171
Manifold block, extension module for 5/2- and 5/3-way valves, standard									
VABM-B10-20EEE-G38-2	492	–	–	–	–	–	–	–	–
Manifold block for 3/2-way valves, compact									
VABM-B10-20S-G14-...-P3	280	360	441	521	601	681	762	842	922
Manifold block for 5/2- and 5/3-way valves, compact									
VABM-B10-20S-G14-...	344	439	535	630	726	821	917	1012	1108
Supply manifold for mounting on both sides									
VABM-B10-20-G38-...-P53	226	268	310	352	395	437	479	521	563
Supply manifold for mounting on one side									
VABM-B10-20-G38-2-P53-E	240	282	324	–	–	–	–	–	–

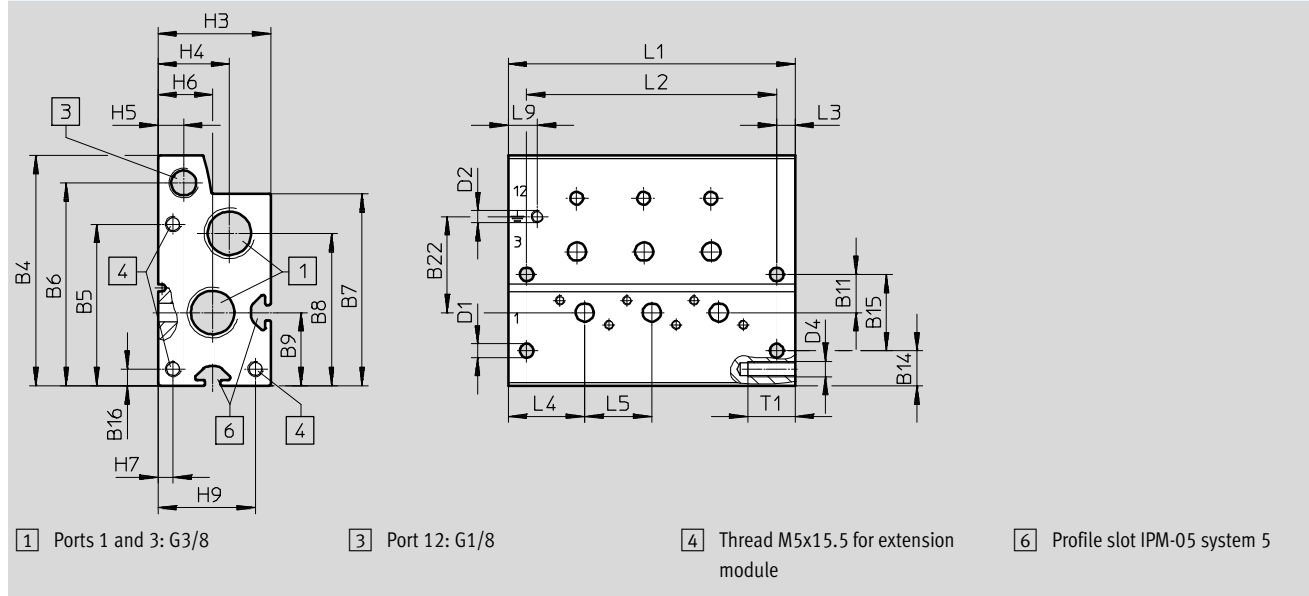
Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 20

Information on materials	
Materials	Wrought aluminium alloy
Note on materials	RoHS compliant

Dimensions Download CAD data → www.festo.com

Manifold block for 3/2-way valves, standard



Type	B4	B5	B6	B7	B8	B9	B11	B14	B15	B16	B22
VABM-B10-20E-G38-...-P3	75.5	53	66.5	63	50	24	12.5	11.5	25	5.5	31.5

Type	D1 Ø	D2	D4	H3	H4	H5	H6	H7	H9	L3	L4	L5	L9	T1
VABM-B10-20E-G38-...-P3	4.5	M4x6.5	M5	37	23.5	8.5	18	5	32	6	25	22	9.5	15.5

Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	72	94	116	138	160	182	204	226	248
L2 [mm]	60	82	104	126	148	170	192	214	236

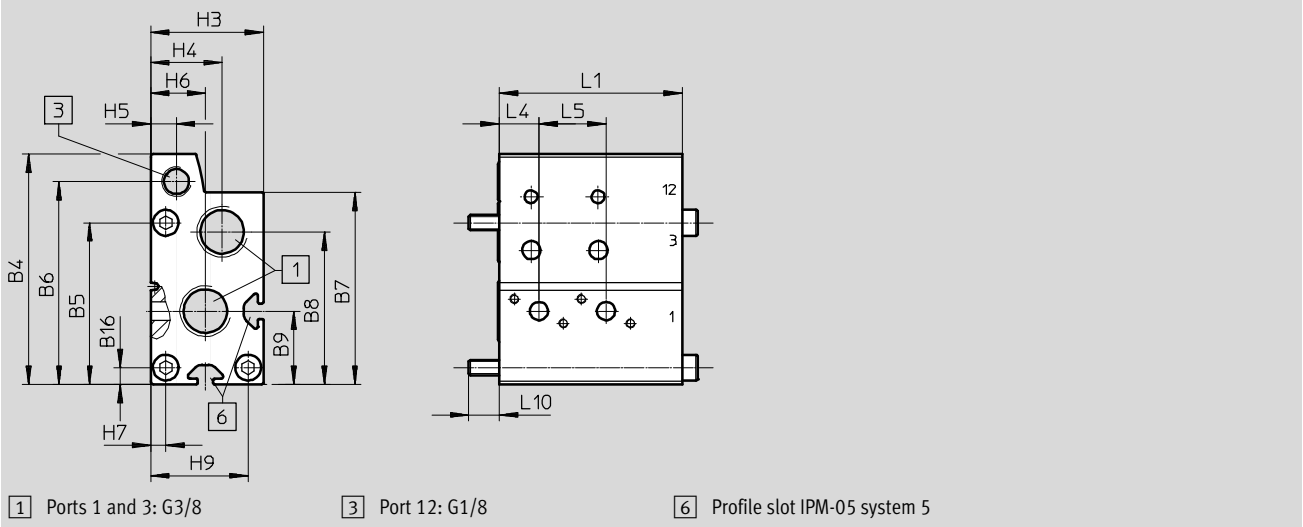
Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 20

Dimensions

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Manifold block, extension module for 3/2-way valves, standard



Type	B4	B7	B6	B7	B8	B9	B16	H3
VABM-B10-20EEE-G38-2-P3	75.5	53	66.5	63	50	24	5.5	37

Type	H4	H5	H6	H7	H9	L1	L4	L5	L10
VABM-B10-20EEE-G38-2-P3	23.5	8.5	18	5	32	60	25	22	10

Solenoid valves VUVS/valve manifold VTUS

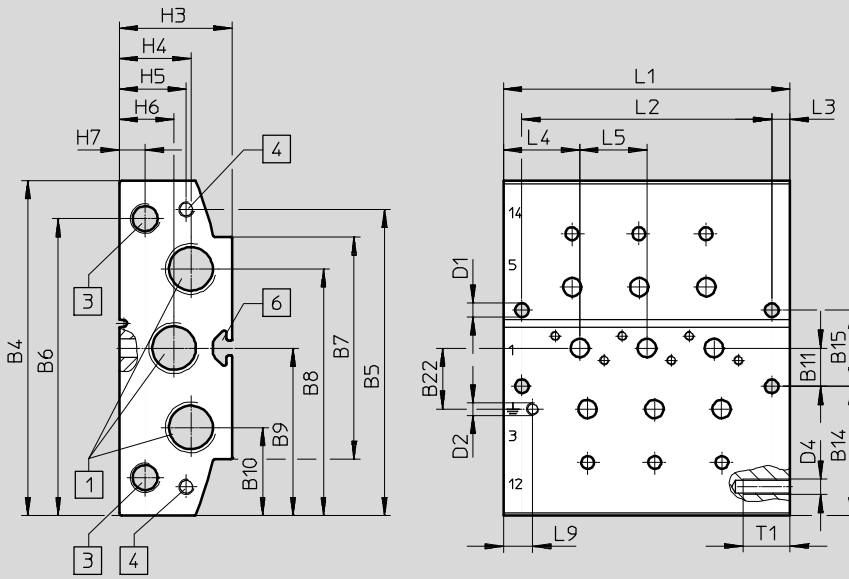
Technical data – Manifold block, size 20



Dimensions

Download CAD data → www.festo.com

Manifold block for 5/2- and 5/3-way valves, standard



- 1 Ports 1, 3 and 5: G3/8
- 3 Ports 12 and 14: G1/8
- 4 Thread M5x15.5 for extension module
- 6 Profile slot IPM-05 system 5 module

Type	B4	B5	B6	B7	B8	B9	B10	B11	B14	B15	B22
VABM-B10-20E-G38-...	110	100.5	97.5	73	81	55	29	12.5	42.5	25	20

Type	D1 Ø	D2	D4	H3	H4	H5	H6	H7	L3	L4	L5	L9	T1
VABM-B10-20E-G38-...	4.5	M4x6.5	M5	37	23.5	22	18	8.5	6	25	22	9.5	15.5

Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	72	94	116	138	160	182	204	226	248
L2 [mm]	60	82	104	126	148	170	192	214	236

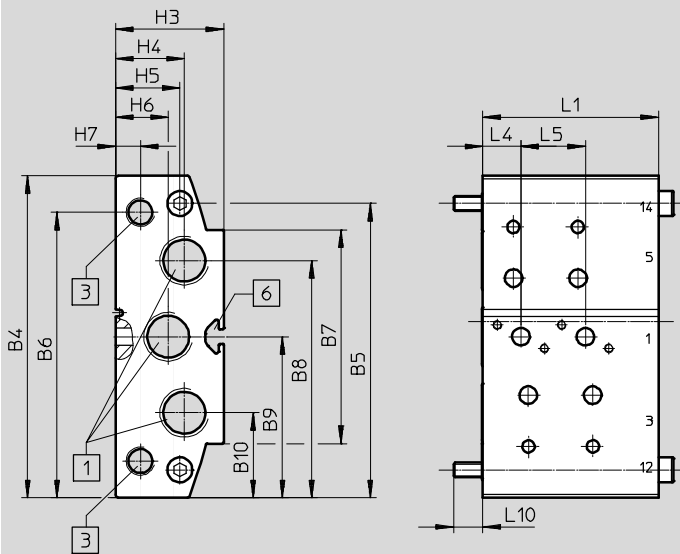
Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 20

Dimensions

Download CAD data → www.festo.com

Manifold block, extension module for 5/2- and 5/3-way valves, standard



1 Ports 1, 3 and 5: G3/8

3 Ports 12 and 14: G1/8

6 Profile slot IPM-05 system 5

Type	B4	B5	B6	B7	B8	B9	B10	H3
VABM-B10-20EEE-G38-2	110	100.5	97.5	73	81	55	29	37

Type	H4	H5	H6	H7	L1	L4	L5	L10
VABM-B10-20EEE-G38-2	23.5	22	18	8.5	60	13	22	10

Solenoid valves VUVS/valve manifold VTUS

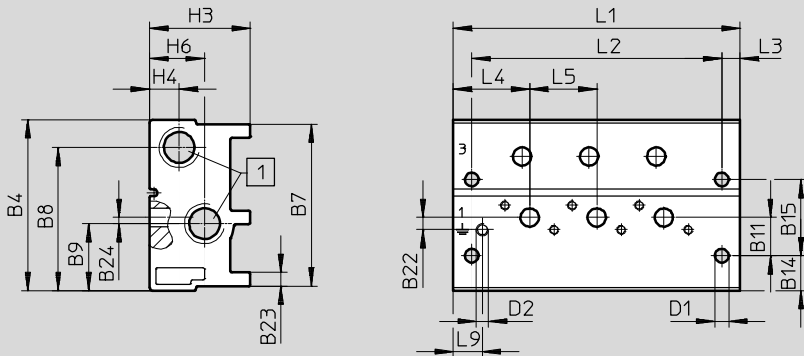
Technical data – Manifold block, size 20

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Dimensions

Download CAD data → www.festo.com

Manifold block for 3/2-way valves, compact



1 Ports 1 and 3: G1/4

Type	B4	B7	B8	B9	B11	B14	B15	B22	B23	B24
VABM-B10-20S-G14-...-P3	56.1	53.1	47	22	12.5	11.5	25	4	4.5	2

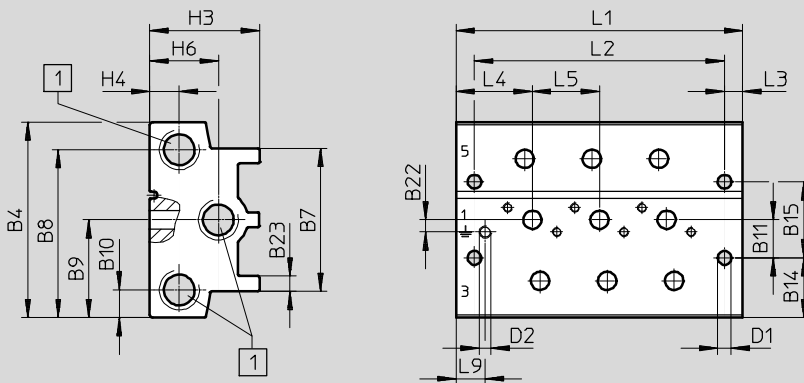
Type	D1 Ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-20S-G14-...-P3	4.5	M4x6.5	33	9.7	18	6	25	22	9.5

Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	72	94	116	138	160	182	204	226	248
L2 [mm]	60	82	104	126	148	170	192	214	236

Dimensions

Download CAD data → www.festo.com

Manifold block for 5/2- and 5/3-way valves, compact



1 Ports 1, 3 and 5: G1/4

Type	B4	B7	B8	B9	B10	B11	B14	B15	B22	B23
VABM-B10-20S-G14-...	64.2	47	55.1	32.1	9.1	12.5	19.6	25	4	5

Type	D1 Ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-20S-G14-...	4.5	M4x6.5	36	9.7	22.5	6	25	22	9.5

Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	72	94	116	138	160	182	204	226	248
L2 [mm]	60	82	104	126	148	170	192	214	236

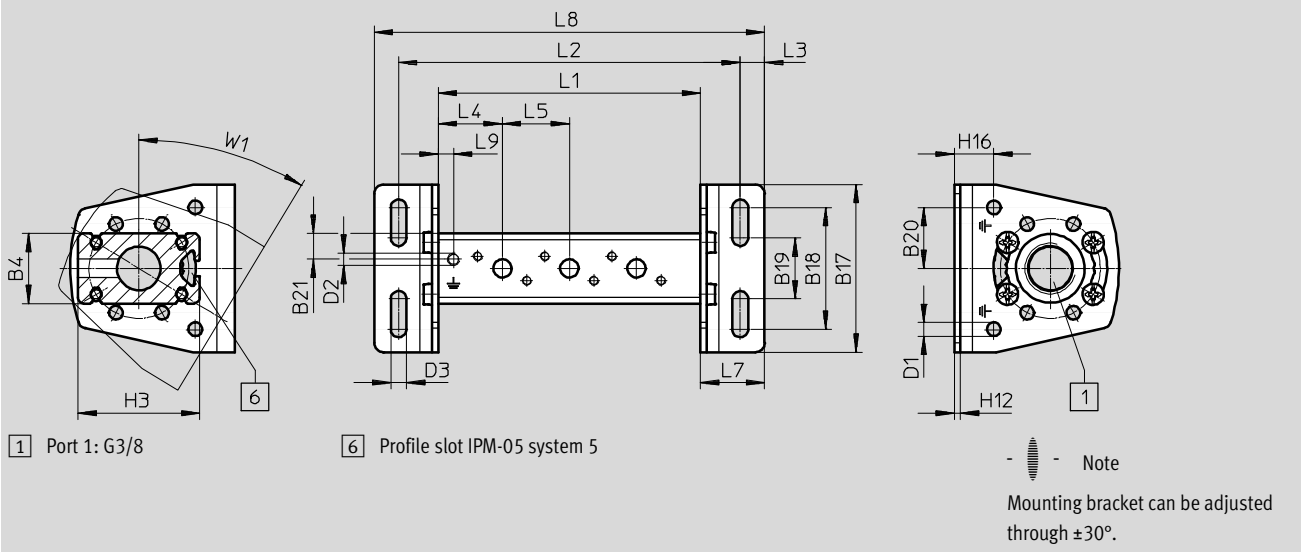
Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 20

Dimensions

Download CAD data → www.festo.com

Supply manifold, mounting on both sides



Type	B4	B17	B18	B19	B20	B21	D1 \varnothing	D2	D3 \varnothing
VABM-B10-20-G38-...-P53	23	55	40	20	20	8.5	4.5	M4x6.5	5.2

Type	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-20-G38-...-P53	40	2	13	8	21	22	21	5	30°

Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	64	86	108	130	152	174	196	218	240
L2 [mm]	90	112	134	156	178	200	222	244	266
L8 [mm]	106	128	150	172	194	216	238	260	282

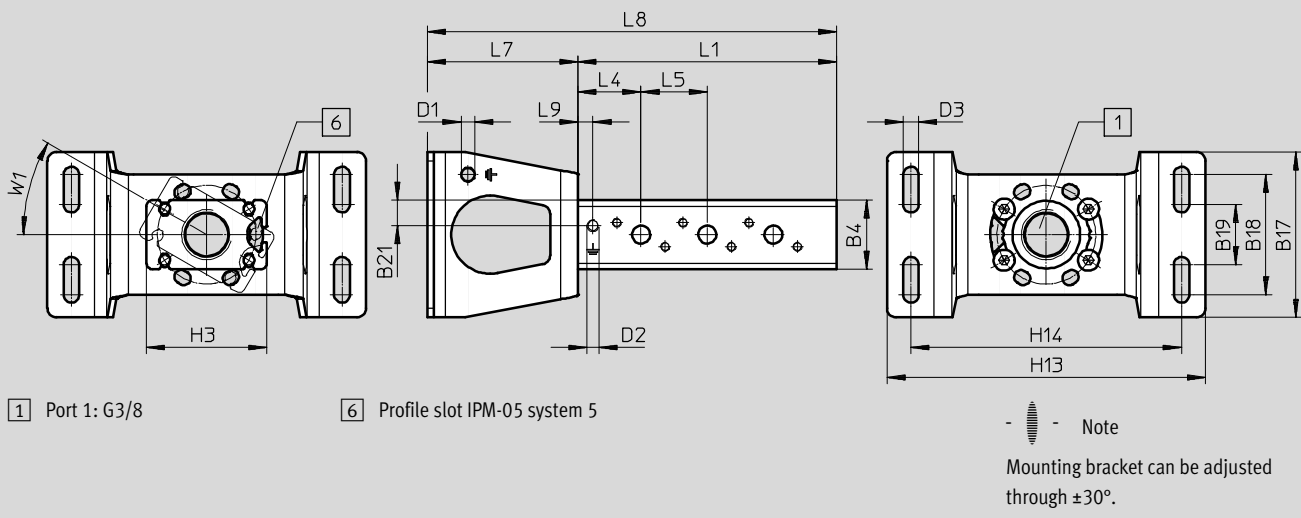
Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 20

Dimensions

Download CAD data → www.festo.com

Supply manifold, mounting on one side



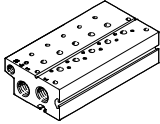

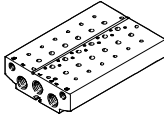


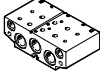
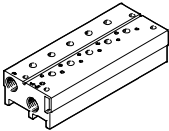

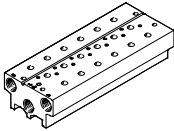

Type	B4	B17	B18	B19	B21	D1 \varnothing	D2	D3 \varnothing
VABM-B10-20-G38-2-P53-E	23	55	40	20	8.5	4.5	M4x6.5	5.2

Type	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-20-G38-2-P53-E	40	106	90	21	22	50	5	30°

Valve positions	2		3		4	
L1 [mm]	64		86		108	
L8 [mm]	114		136		158	

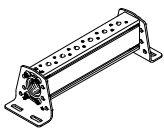
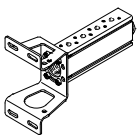
Solenoid valves VUVS/valve manifold VTUS

Ordering data – Manifold block, size 20

Ordering data – Manifold block				
	Description	Valve positions	Part No.	Type
Standard manifold block				
	For 3/2-way valves, incl. seals and screws for valve assembly -  - Note Blanking plugs for sealing the supply ports (1, 3 and 14) at one end are included in the scope of delivery.	2	576441	VABM-B10-20E-G38-2-P3
		3	576442	VABM-B10-20E-G38-3-P3
		4	576443	VABM-B10-20E-G38-4-P3
		5	576444	VABM-B10-20E-G38-5-P3
		6	576445	VABM-B10-20E-G38-6-P3
		7	576446	VABM-B10-20E-G38-7-P3
		8	576447	VABM-B10-20E-G38-8-P3
		9	576448	VABM-B10-20E-G38-9-P3
		10	576449	VABM-B10-20E-G38-10-P3
			For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly -  - Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) at one end are included in the scope of delivery.	2
3	576340			VABM-B10-20E-G38-3
4	576341			VABM-B10-20E-G38-4
5	576342			VABM-B10-20E-G38-5
6	576343			VABM-B10-20E-G38-6
7	576344			VABM-B10-20E-G38-7
8	576345			VABM-B10-20E-G38-8
9	576346			VABM-B10-20E-G38-9
10	576347			VABM-B10-20E-G38-10
Manifold block, extension module for standard manifold block				
	For 3/2-way valves, incl. seals and screws for valve assembly	2	576490	VABM-B10-20EEE-G38-2-P3
	For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly	2	576489	VABM-B10-20EEE-G38-2
Compact manifold block				
	For 3/2-way valves, incl. seals and screws for valve assembly -  - Note Blanking plugs for sealing the supply ports (1, 3 and 14) at one end are included in the scope of delivery.	2	576465	VABM-B10-20S-G14-2-P3
		3	576466	VABM-B10-20S-G14-3-P3
		4	576467	VABM-B10-20S-G14-4-P3
		5	576468	VABM-B10-20S-G14-5-P3
		6	576469	VABM-B10-20S-G14-6-P3
		7	576470	VABM-B10-20S-G14-7-P3
		8	576471	VABM-B10-20S-G14-8-P3
		9	576472	VABM-B10-20S-G14-9-P3
		10	576473	VABM-B10-20S-G14-10-P3
			For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly -  - Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) at one end are included in the scope of delivery.	2
3	576418			VABM-B10-20S-G14-3
4	576419			VABM-B10-20S-G14-4
5	576420			VABM-B10-20S-G14-5
6	576421			VABM-B10-20S-G14-6
7	576422			VABM-B10-20S-G14-7
8	576423			VABM-B10-20S-G14-8
9	576424			VABM-B10-20S-G14-9
10	576425			VABM-B10-20S-G14-10

Solenoid valves VUVS/valve manifold VTUS

Ordering data – Manifold block, size 20

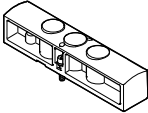
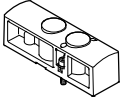

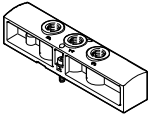
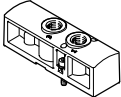

Ordering data				
	Description	Valve positions	Part No.	Type
Supply manifold				
	For mounting on both sides, incl. seals and screws for valve assembly	2	576363	VABM-B10-20-G38-2-P53
		3	576364	VABM-B10-20-G38-3-P53
		4	576365	VABM-B10-20-G38-4-P53
		5	576366	VABM-B10-20-G38-5-P53
		6	576367	VABM-B10-20-G38-6-P53
		7	576368	VABM-B10-20-G38-7-P53
		8	576369	VABM-B10-20-G38-8-P53
		9	576370	VABM-B10-20-G38-9-P53
		10	576371	VABM-B10-20-G38-10-P53
			For mounting on one side, incl. seals and screws for valve assembly	2
3	576415			VABM-B10-20-G38-3-P53-E
4	576416			VABM-B10-20-G38-4-P53-E

-  - Note

Blanking plug for sealing the supply port (1) at one end included in the scope of delivery.

Solenoid valves VUVS/valve manifold VTUS





Ordering data – Manifold block, size 20

Ordering data				
	Description	Weight [g]	Part No.	Type
Blanking plate				
	For valve position on manifold block for 5/2-, 5/3-way valves	78	576410	VABB-B10-20-E
	For valve position on manifold block for 3/2-way valves	56	576411	VABB-B10-20-E-P3
	For valve position on supply manifold	13	576409	VABB-B10-20-A
Supply plate				
	For valve position on manifold block for 5/2-, 5/3-way valves	78	576492	VABF-B10-20-P1A4-G18
	For valve position on manifold block for 3/2-way valves	56	576493	VABF-B10-20-P1A4-G18-P3
Supply plate				
	For valve position on supply manifold	13	576491	VABF-B10-20-P1-G18

Solenoid valves VUVS/valve manifold VTUS

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


Ordering data – Manifold block, size 20

Ordering data					
	Description		Part No.	Type	PU ¹⁾
Push-in fitting with external hex					
	Connecting thread M5 for tubing O.D.	12 mm	186350	QS-G1/4-12	10
	Connecting thread G ³ / ₈ for tubing O.D.	16 mm	186347	QS-G3/8-16	1
Push-in fitting with internal hex socket					
	Connecting thread M5 for tubing O.D.	4 mm	153315	QSM-M5-4-I	10
	Connecting thread G ¹ / ₈ for tubing O.D.	4 mm	186106	QS-G1/8-4-I	10
			133008	QS-G1/8-4-I-100	100
		6 mm	186107	QS-G1/8-6-I	10
			133009	QS-G1/8-6-I-100	100
		8 mm	186109	QS-G1/8-8-I	10
			133010	QS-G1/8-8-I-100	100
	Connecting thread G ¹ / ₄ for tubing O.D.	8 mm	186110	QS-G1/4-8-I	10
		10 mm	186112	QS-G1/4-10-I	10
	Connecting thread G ³ / ₈ for tubing O.D.	8 mm	186111	QS-G3/8-8-I	10
		10 mm	186113	QS-G3/8-10-I	10
		12 mm	186114	QS-G3/8-12-I	10
Angled push-in fitting with external hex					
	Connecting thread G ¹ / ₈ for tubing O.D.	4 mm	186116	QSL-G1/8-4	10
			132048	QSL-G1/8-4-100	100
		6 mm	186117	QSL-G1/8-6	10
			132049	QSL-G1/8-6-100	100
		8 mm	186119	QSL-G1/8-8	10
			132050	QSL-G1/8-8-50	50
	Connecting thread G ¹ / ₄ for tubing O.D.	8 mm	186120	QSL-G1/4-8	10
			132052	QSL-G1/4-8-50	50
		10 mm	186122	QSL-G1/4-10	10
			132053	QSL-G1/4-10-50	50
		12 mm	186351	QSL-G1/4-12	10
			132054	QSL-G1/4-12-20	20
	Connecting thread G ³ / ₈ for tubing O.D.	8 mm	186121	QSL-G3/8-8	10
			132055	QSL-G3/8-8-50	50
		10 mm	186123	QSL-G3/8-10	10
			132056	QSL-G3/8-10-20	20
12 mm		186124	QSL-G3/8-12	10	
		132057	QSL-G3/8-12-20	20	
16 mm		186348	QSL-G3/8-16	1	
Angled push-in fitting, long, with external hex					
	Connecting thread G ¹ / ₈ for tubing O.D.	4 mm	186127	QSL-G1/8-4	10
			133015	QSL-G1/8-4-100	100
		6 mm	186128	QSL-G1/8-6	10
			133016	QSL-G1/8-6-100	100
		8 mm	186130	QSL-G1/8-8	10
			133017	QSL-G1/8-8-100	100

1) Packaging unit

Solenoid valves VUVS/valve manifold VTUS

Ordering data – Manifold block, size 20

Ordering data					
	Description	Part No.	Type	PU ¹⁾	
Silencer					
	With connecting thread	G1/8	2307	U-1/8	1
			534222	U-1/8-50	50
		G1/4	2316	U-1/4	1
			534223	U-1/4-20	20
		G3/8	6843	U-3/8-B	1
Blanking plug					
	With connecting thread	G1/8	3568	B-1/8	10
			534213	B-1/8-100	100
		G1/4	3569	B-1/4	10
			534214	B-1/4-50	50
		G3/8	3570	B-3/8	10
534215	B-3/8-20	20			
Separator					
	For creating pressure zones	G1/4	569996	VABD-10-B	1
		G3/8	574483	VABD-14-B	1
H-rail mounting					
	For mounting the valve manifold on standard H-rail TH 35-7.5 or TH 35-15, to EN 60715	569998	VAME-T-M4	2	

1) Packaging unit

Solenoid valves VUVS/valve manifold VTUS

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Technical data – Manifold block, size 25

Flow rate
Up to 1300 l/min



General technical data								
Valve function	Manifold block standard		Extension module for standard manifold block		Manifold block compact		Supply manifold	
	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2	5/2, 5/3	on both sides	on one side
Grid dimension [mm]	22							
Type of mounting	With through-hole						With mounting bracket	
Max. number of valve positions	10	10	2	2	10		10	4
Port 1	G1/2	G1/2	G1/2	G1/2	G3/8	G3/8	G1/2	G1/2
Port 3	G1/2	G1/2	G1/2	G1/2	G3/8	G3/8	–	–
Port 5	–	G1/2	–	G1/2	–	G3/8	–	–
Port 12	G1/8	G1/8	G1/8	G1/8	–	–	–	–
Port 14	–	G1/8	–	G1/8	–	–	–	–
CRC ¹⁾	2 ¹⁾							

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.

Weight [g]									
Valve positions	2	3	4	5	6	7	8	9	10
Manifold block for 3/2-way valves, standard									
VABM-B10-25E-G12-...-P3	726	960	1194	1428	1662	1896	2130	2364	2598
Manifold block, extension module for 3/2-way valves, standard									
VABM-B10-25EEE-G12-2-P3	340	–	–	–	–	–	–	–	–
Manifold block for 5/2- and 5/3-way valves, standard									
VABM-B10-25E-G12-...	927	1224	1521	1818	2115	2412	2709	3006	3303
Manifold block, extension module for 5/2- and 5/3-way valves, standard									
VABM-B10-25EEE-G12-2	258	–	–	–	–	–	–	–	–
Manifold block for 3/2-way valves, compact									
VABM-B10-25S-G38-...-P3	369	488	607	726	845	964	1083	1202	1321
Manifold block for 5/2- and 5/3-way valves, compact									
VABM-B10-25S-G38-...	438	579	720	861	1002	1143	1284	1425	1566
Supply manifold for mounting on both sides									
VABM-B10-25-G38-...-P53	258	340	422	504	586	668	750	832	914
Supply manifold for mounting on one side									
VABM-B10-25-G38-2-P53-E	258	340	422	–	–	–	–	–	–

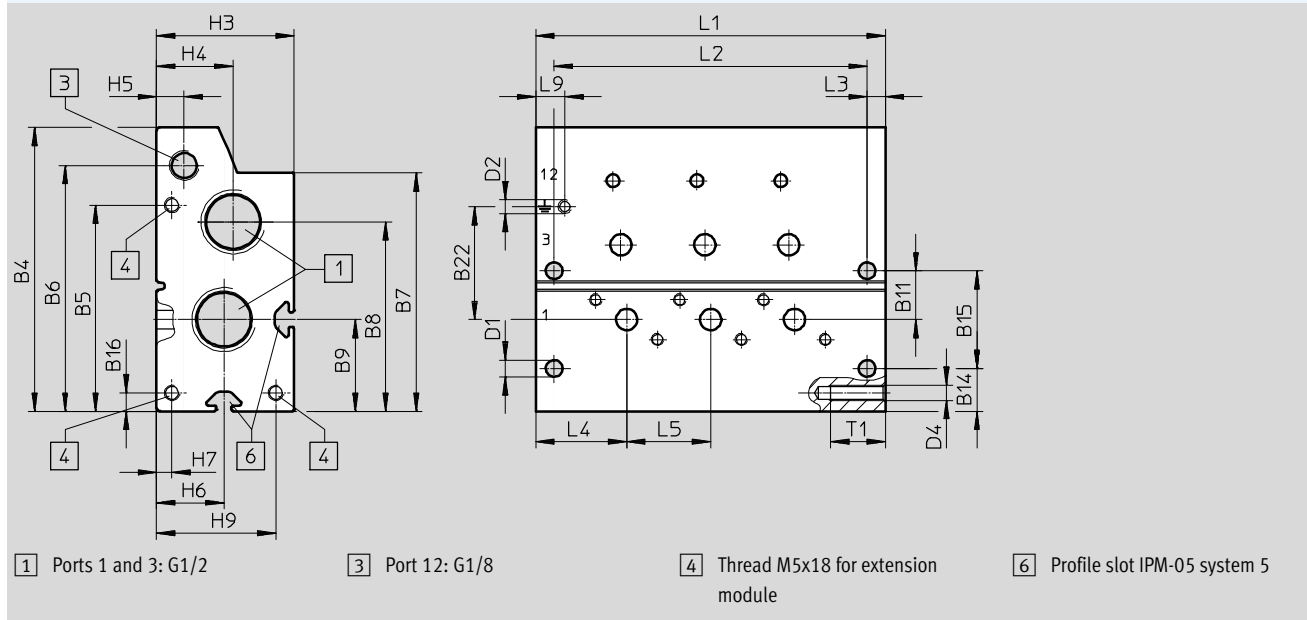
Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 25

Information on materials	
Materials	Wrought aluminium alloy
Note on materials	RoHS compliant

Dimensions Download CAD data → www.festo.com

Manifold block for 3/2-way valves, standard



Type	B4	B5	B6	B7	B8	B9	B11	B14	B15	B16	B22
VABM-B10-25E-G12-...-P3	93	67.5	80.5	78	62	30	16	14	32	6	37

Type	D1 Ø	D2	D4	H3	H4	H5	H6	H7	H9	L3	L4	L5	L9	T1
VABM-B10-25E-G12-...-P3	5.5	M4x9	M5	45	25	9	22	5	39	6	29.8	27.5	9.5	18

Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

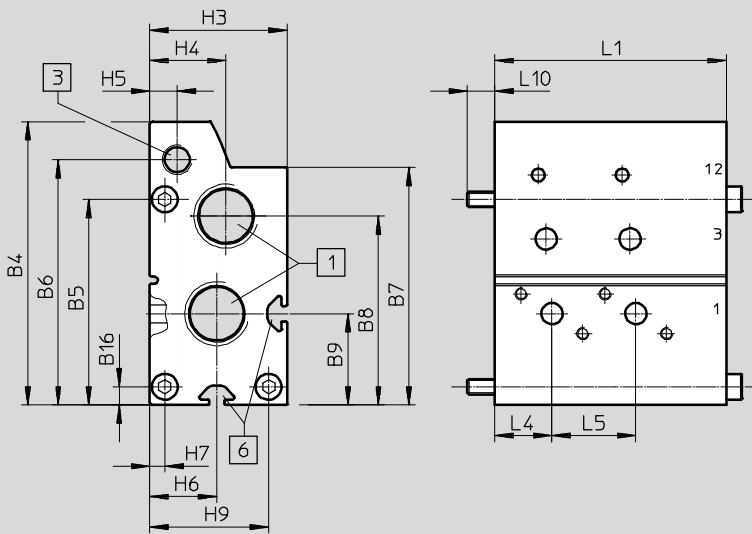
Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 25

Dimensions

Download CAD data → www.festo.com

Manifold block, extension module for 3/2-way valves, standard



1 Ports 1 and 3: G1/2

3 Port 12: G1/8

6 Profile slot IPM-05 system 5

Type	B4	B5	B6	B7	B8	B9	B16	H3
VABM-B10-25EEE-G12-2-P3	93	67.5	80.5	78	62	30	6	45

Type	H4	H5	H6	H7	H9	L4	L5	L10	L1
VABM-B10-25EEE-G12-2-P3	25	9	22	5	39	18.8	27.5	9	76

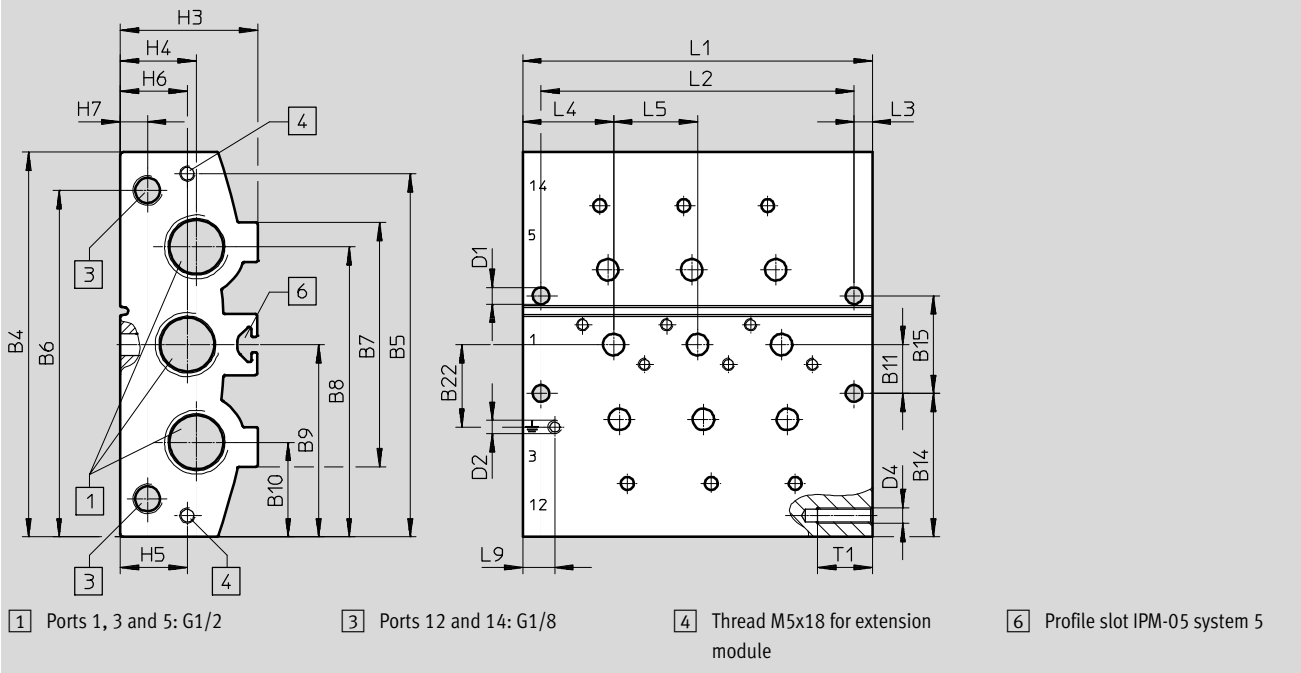
Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 25

Dimensions

Download CAD data → www.festo.com

Manifold block for 5/2- and 5/3-way valves, standard



Type	B4	B5	B6	B7	B8	B9	B10	B11	B14	B15	B22
VABM-B10-25E-G12-...	126	119	113.5	80	95	63	31	16	47	32	27

Type	D1 Ø	D2	D4	H3	H4	H5	H6	H7	L3	L4	L5	L9	T1
VABM-B10-25E-G12-...	5.5	M4x9	M5	45	25	22	22	9	6	29.8	27.5	10.5	18

Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

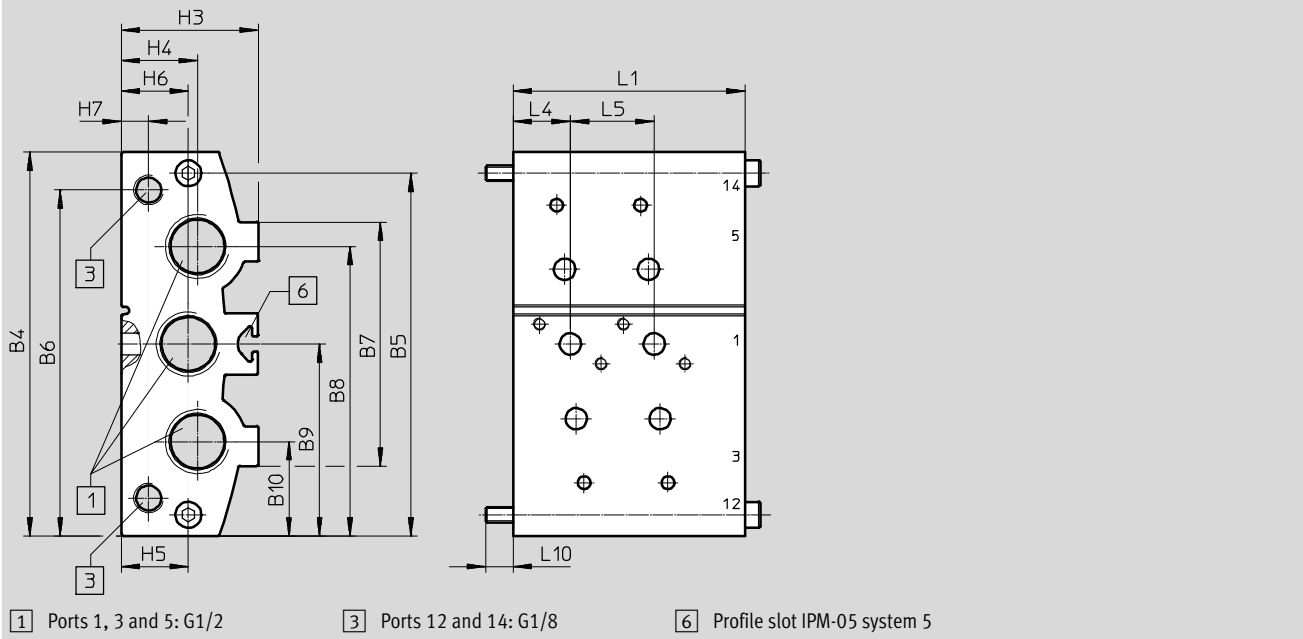
Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 25

Dimensions

Download CAD data → www.festo.com

Manifold block, extension module for 5/2- and 5/3-way valves, standard



Type	B4	B5	B6	B7	B8	B9	B10	H3
VABM-B10-25EEE-G12-2	110	100.5	97.5	73	81	55	29	37

Type	H4	H5	H6	H7	L1	L4	L5	L10
VABM-B10-25EEE-G12-2	23.5	22	18	8.5	60	13	22	10

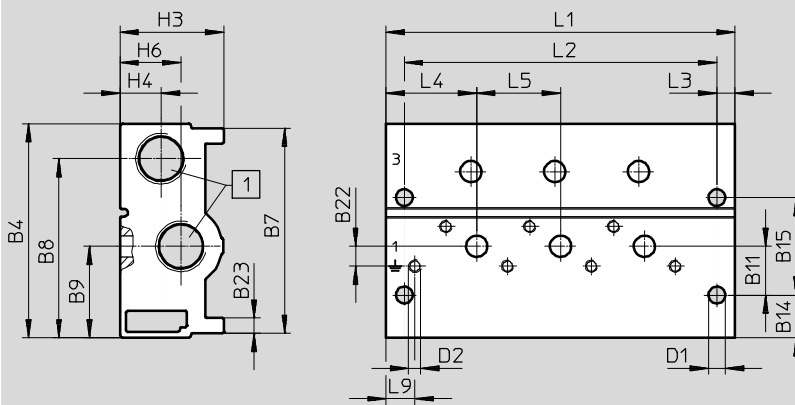
Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 25

Dimensions

Download CAD data → www.festo.com

Manifold block for 3/2-way valves, compact



1 Ports 1 and 3: G3/8

Type	B4	B7	B8	B9	B11	B14	B15	B22	B23
VABM-B10-25S-G38-...-P3	70.3	67.3	58.8	30	16	14	32	6.5	5

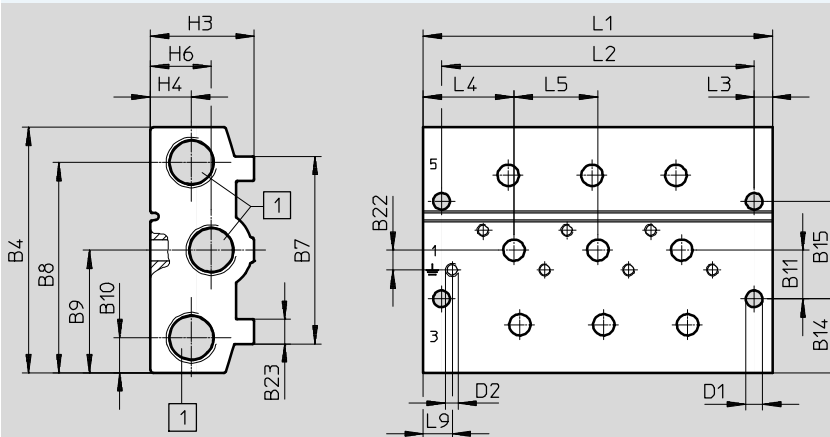
Type	D1 Ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-25S-G38-...-P3	5.5	M4x9	34	13.5	20	6	29.8	27.5	9.5

Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

Dimensions

Download CAD data → www.festo.com

Manifold block for 5/2- and 5/3-way valves, compact



1 Ports 1, 3 and 5: G3/8

Type	B4	B7	B8	B9	B10	B11	B14	B15	B22	B23
VABM-B10-25S-G38-...	80.5	61.5	69	40.3	11.5	16	24.3	32	6.5	8

Type	D1 Ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-25S-G38-...	5.5	M4x9	34	13.5	20	6	29.8	27.5	9.5

Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

Solenoid valves VUVS/valve manifold VTUS

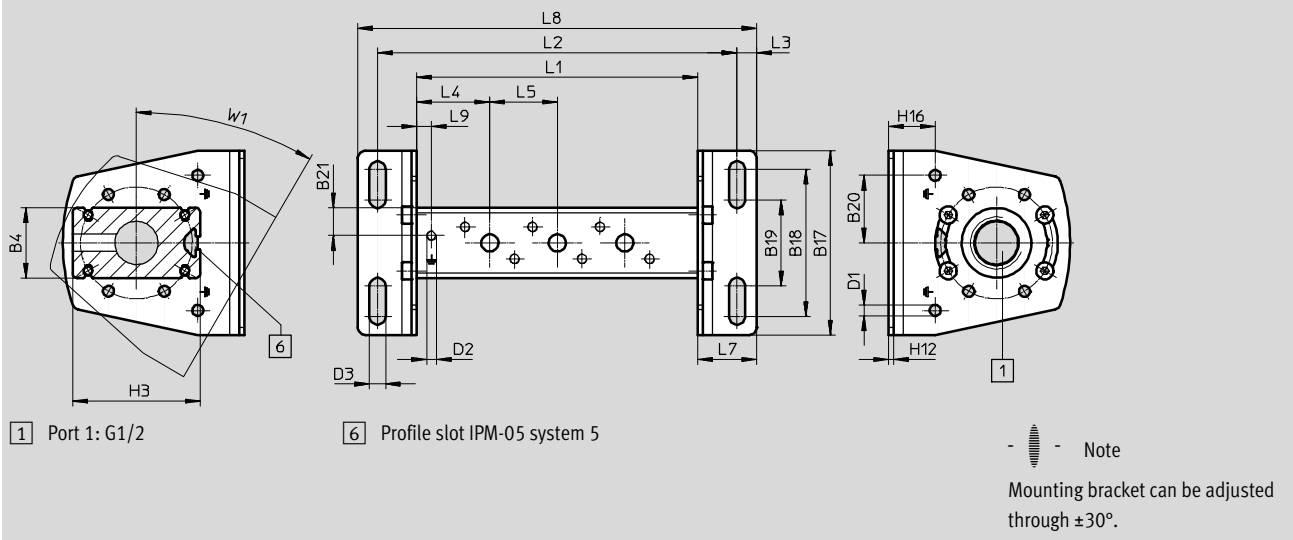
Technical data – Manifold block, size 25

FESTO

Dimensions

Download CAD data → www.festo.com

Supply manifold, mounting on both sides



Type	B4	B17	B18	B19	B20	B21	D1 \varnothing	D2	D3 \varnothing
VABM-B10-25-G12-...-P53	28.7	75	60	35	27.5	11.4	4.5	M4x9	6.6

Type	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-25-G12-...-P53	52	2	19	8	29.8	27.5	24	6	30°

Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	119	146.5	174	201.5	229	256.5	284	311.5	339
L8 [mm]	135	162.5	190	217.5	245	272.5	300	327.5	355

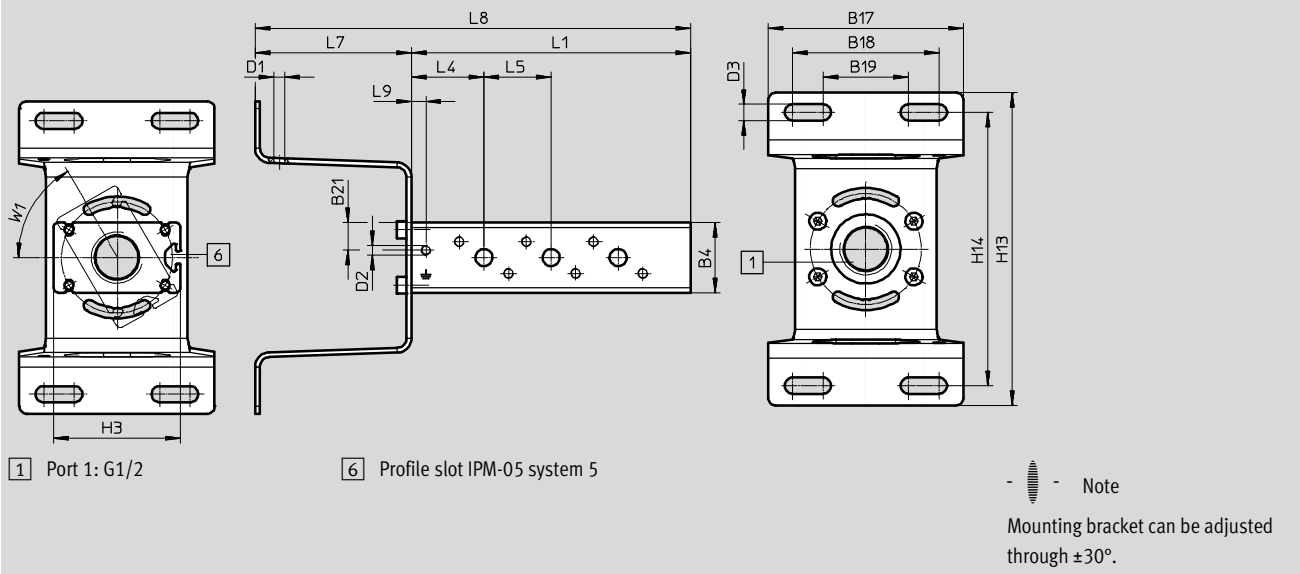
Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 25

Dimensions

Download CAD data → www.festo.com

Supply manifold, mounting on one side



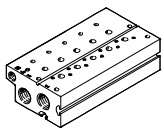

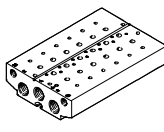



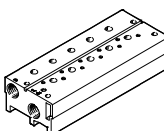

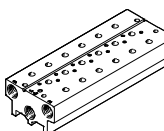

Type	B4	B17	B18	B19	B21	D1 \varnothing	D2	D3 \varnothing
VABM-B10-25-G12-...-P53-E	28.7	80	60	35	11.4	4.5	M4x9	6.6

Type	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-25-G12-...-P53-E	52	128	112	29.8	27.5	64	6	30°

Valve positions	2	3	4
L1 [mm]	87	114.5	142
L8 [mm]	151	178.5	206

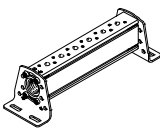
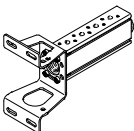
Solenoid valves VUVS/valve manifold VTUS

Ordering data – Manifold block, size 25

Ordering data – Manifold block				
	Description	Valve positions	Part No.	Type
Standard manifold block				
	For 3/2-way valves, incl. seals and screws for valve assembly -  - Note Blanking plugs for sealing the supply ports (1, 3 and 14) at one end are included in the scope of delivery.	2	8026279	VABM-B10-25E-G12-2-P3
		3	8026280	VABM-B10-25E-G12-3-P3
		4	8026281	VABM-B10-25E-G12-4-P3
		5	8026282	VABM-B10-25E-G12-5-P3
		6	8026283	VABM-B10-25E-G12-6-P3
		7	8026284	VABM-B10-25E-G12-7-P3
		8	8026285	VABM-B10-25E-G12-8-P3
		9	8026286	VABM-B10-25E-G12-9-P3
		10	8026287	VABM-B10-25E-G12-10-P3
			For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly -  - Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) at one end are included in the scope of delivery.	2
3	8026244			VABM-B10-25E-G12-3
4	8026245			VABM-B10-25E-G12-4
5	8026246			VABM-B10-25E-G12-5
6	8026247			VABM-B10-25E-G12-6
7	8026248			VABM-B10-25E-G12-7
8	8026249			VABM-B10-25E-G12-8
9	8026250			VABM-B10-25E-G12-9
10	8026251			VABM-B10-25E-G12-10
Manifold block, extension module for standard manifold block				
	For 3/2-way valves, incl. seals and screws for valve assembly	2	8026316	VABM-B10-25EEE-G12-2-P3
	For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly	2	8026315	VABM-B10-25EEE-G12-2
Compact manifold block				
	For 3/2-way valves, incl. seals and screws for valve assembly -  - Note Blanking plugs for sealing the supply ports (1, 3 and 14) at one end are included in the scope of delivery.	2	8026297	VABM-B10-25S-G38-2-P3
		3	8026298	VABM-B10-25S-G38-3-P3
		4	8026299	VABM-B10-25S-G38-4-P3
		5	8026300	VABM-B10-25S-G38-5-P3
		6	8026301	VABM-B10-25S-G38-6-P3
		7	8026302	VABM-B10-25S-G38-7-P3
		8	8026303	VABM-B10-25S-G38-8-P3
		9	8026304	VABM-B10-25S-G38-9-P3
		10	8026305	VABM-B10-25S-G38-10-P3
			For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly -  - Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) at one end are included in the scope of delivery.	2
3	8026262			VABM-B10-25S-G38-3
4	8026263			VABM-B10-25S-G38-4
5	8026264			VABM-B10-25S-G38-5
6	8026265			VABM-B10-25S-G38-6
7	8026266			VABM-B10-25S-G38-7
8	8026267			VABM-B10-25S-G38-8
9	8026268			VABM-B10-25S-G38-9
10	8026269			VABM-B10-25S-G38-10

Solenoid valves VUVS/valve manifold VTUS

Ordering data – Manifold block, size 25

Ordering data				
	Description	Valve positions	Part No.	Type
Supply manifold				
	For mounting on both sides, incl. seals and screws for valve assembly	2	8026219	VABM-B10-25-G12-2-P53
		3	8026220	VABM-B10-25-G12-3-P53
		4	8026221	VABM-B10-25-G12-4-P53
		5	8026222	VABM-B10-25-G12-5-P53
		6	8026223	VABM-B10-25-G12-6-P53
		7	8026224	VABM-B10-25-G12-7-P53
		8	8026225	VABM-B10-25-G12-8-P53
		9	8026226	VABM-B10-25-G12-9-P53
		10	8026227	VABM-B10-25-G12-10-P53
			For mounting on one side, incl. seals and screws for valve assembly	2
3	8026238			VABM-B10-25-G12-3-P53-E
4	8026239			VABM-B10-25-G12-4-P53-E

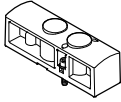
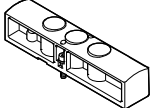

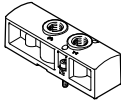
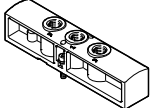



- Note

Blanking plug for sealing the supply port (1) at one end included in the scope of delivery.

Solenoid valves VUVS/valve manifold VTUS




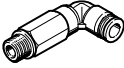
Ordering data – Manifold block, size 25

Ordering data				
	Description	Weight [g]	Part No.	Type
Blanking plate				
	For valve position on manifold block for 3/2-way valves	84	8026210	VABB-B10-25-E-P3
	For valve position on manifold block for 5/2-, 5/3-way valves	117	8026209	VABB-B10-25-E
	For valve position on supply manifold	28	8026208	VABB-B10-25-A
Supply plate				
	For valve position on manifold block for 3/2-way valves	80	8026319	VABF-B10-25-P1A4-G14-P3
	For valve position on manifold block for 5/2-, 5/3-way valves	110	8026318	VABF-B10-25-P1A4-G14
Supply plate				
	For valve position on supply manifold	26	8026317	VABF-B10-25-P1-G14

Solenoid valves VUVS/valve manifold VTUS

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Ordering data – Manifold block, size 25





Ordering data					
	Description		Part No.	Type	PU ¹⁾
Push-in fitting with external hex					
	Connecting thread G $\frac{3}{8}$ for tubing O.D.	16 mm	186347	QS-G3/8-16	1
	Connecting thread G $\frac{1}{2}$ for tubing O.D.	16 mm	186105	QS-G1/2-16	1
			132047	QS-G1/2-16-20	20
Push-in fitting with internal hex socket					
	Connecting thread M5 for tubing O.D.	4 mm	153315	QSM-M5-4-I	10
	Connecting thread G $\frac{1}{8}$ for tubing O.D.	6 mm	186107	QS-G1/8-6-I	10
			133009	QS-G1/8-6-I-100	100
			186108	QS-G1/4-6-I	10
	Connecting thread G $\frac{1}{4}$ for tubing O.D.	6 mm	186110	QS-G1/4-8-I	10
		8 mm	186110	QS-G1/4-8-I	10
		10 mm	186112	QS-G1/4-10-I	10
	Connecting thread G $\frac{3}{8}$ for tubing O.D.	8 mm	186111	QS-G3/8-8-I	10
		10 mm	186113	QS-G3/8-10-I	10
		12 mm	186114	QS-G3/8-12-I	10
Connecting thread G $\frac{1}{2}$ for tubing O.D.	12 mm	186115	QS-G1/2-12-I	1	
Angled push-in fitting with external hex					
	Connecting thread G $\frac{1}{4}$ for tubing O.D.	6 mm	186118	QSL-G1/4-6	10
			132051	QSL-G1/4-6-100	100
		8 mm	186120	QSL-G1/4-8	10
			132052	QSL-G1/4-8-50	50
		10 mm	186122	QSL-G1/4-10	10
			132053	QSL-G1/4-10-50	50
	Connecting thread G $\frac{3}{8}$ for tubing O.D.	8 mm	186121	QSL-G3/8-8	10
			132055	QSL-G3/8-8-50	50
		10 mm	186123	QSL-G3/8-10	10
			132056	QSL-G3/8-10-20	20
		12 mm	186124	QSL-G3/8-12	10
			132057	QSL-G3/8-12-20	20
	16 mm	186348	QSL-G3/8-16	1	
Connecting thread G $\frac{1}{2}$ for tubing O.D.	12 mm	186125	QSL-G1/2-12	1	
		132058	QSL-G1/2-12-20	20	
	16 mm	186126	QSL-G1/2-16	1	
		132059	QSL-G1/2-16-20	20	
Angled push-in fitting, long, with external hex					
	Connecting thread G $\frac{1}{4}$ for tubing O.D.	6 mm	186129	QSL-L-G1/4-6	10
		8 mm	186131	QSL-L-G1/4-8	10
		10 mm	186133	QSL-L-G1/4-10	10

1) Packaging unit

Solenoid valves VUVS/valve manifold VTUS

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Ordering data – Manifold block, size 25

Ordering data					
	Description	Part No.	Type	PU ¹⁾	
Silencer					
	With connecting thread G	G1/4	2316	U-1/4	1
			534223	U-1/4-20	20
		G3/8	6843	U-3/8-B	1
			534224	U-3/8-20	20
		G1/2	6844	U-1/2-B	1
Blanking plug					
	With connecting thread G	G1/8	3568	B-1/8	10
			534213	B-1/8-100	100
		G3/8	3570	B-3/8	10
			534215	B-3/8-20	20
		G1/2	3571	B-1/2	10
			534216	B-1/2-20	20
Separator					
	For creating pressure zones	G1/8	569995	VABD-8-B	1
		G3/8	574483	VABD-14-B	1
		G1/2	8022483	VABD-17.5-B	1
H-rail mounting					
	For mounting the valve manifold on standard H-rail TH 35-7.5 or TH 35-15, to EN 60715	2636436	VAME-T-M5	2	

1) Packaging unit

Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 30

 Flow rate
 Up to 2300 l/min



General technical data									
	Manifold block standard		Extension module for standard manifold block		Manifold block compact		Supply manifold on both sides		on one side
	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2, 5/2, 5/3		
For valve function	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2, 5/2, 5/3		
Grid dimension [mm]	32								
Type of mounting	With through-hole							With mounting bracket	
Max. number of valve positions	10	10	2	2	10		10	4	
Port 1	G3/4	G3/4	G3/4	G3/4	G1/2	G1/2	G3/4	G3/4	
Port 3	G3/4	G3/4	G3/4	G3/4	G1/2	G1/2	–	–	
Port 5	–	G3/4	–	G3/4	–	G1/2	–	–	
Port 12	G1/8	G1/8	G1/8	G1/8	–	–	–	–	
Port 14	–	G1/8	–	G1/8	–	–	–	–	
CRC ¹⁾	2 ¹⁾								

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.

Weight [g]									
Valve positions	2	3	4	5	6	7	8	9	10
Manifold block for 3/2-way valves, standard									
VABM-B10-30E-G34-...-P3	1411	1828	2245	2662	3079	3496	3913	4330	4747
Manifold block, extension module for 3/2-way valves, standard									
VABM-B10-30EEE-G34-2-P3	1111	–	–	–	–	–	–	–	–
Manifold block for 5/2- and 5/3-way valves, standard									
VABM-B10-30E-G34-...	1722	2213	2703	3194	3684	4175	4665	5156	5646
Manifold block, extension module for 5/2- and 5/3-way valves, standard									
VABM-B10-30EEE-G34-2	1318	–	–	–	–	–	–	–	–
Manifold block for 3/2-way valves, compact									
VABM-B10-30S-G12-...-P3	652	872	1093	1313	1533	1753	1973	2193	2413
Manifold block for 5/2- and 5/3-way valves, compact									
VABM-B10-30S-G12-...	759	1013	1267	1522	1776	2030	2285	2539	2793
Supply manifold for mounting on both sides									
VABM-B10-30-G34-...-P53	818	977	1135	1293	1452	1610	1768	1927	2085
Supply manifold for mounting on one side									
VABM-B10-30-G34-2-P53-E	852	1011	1169	–	–	–	–	–	–

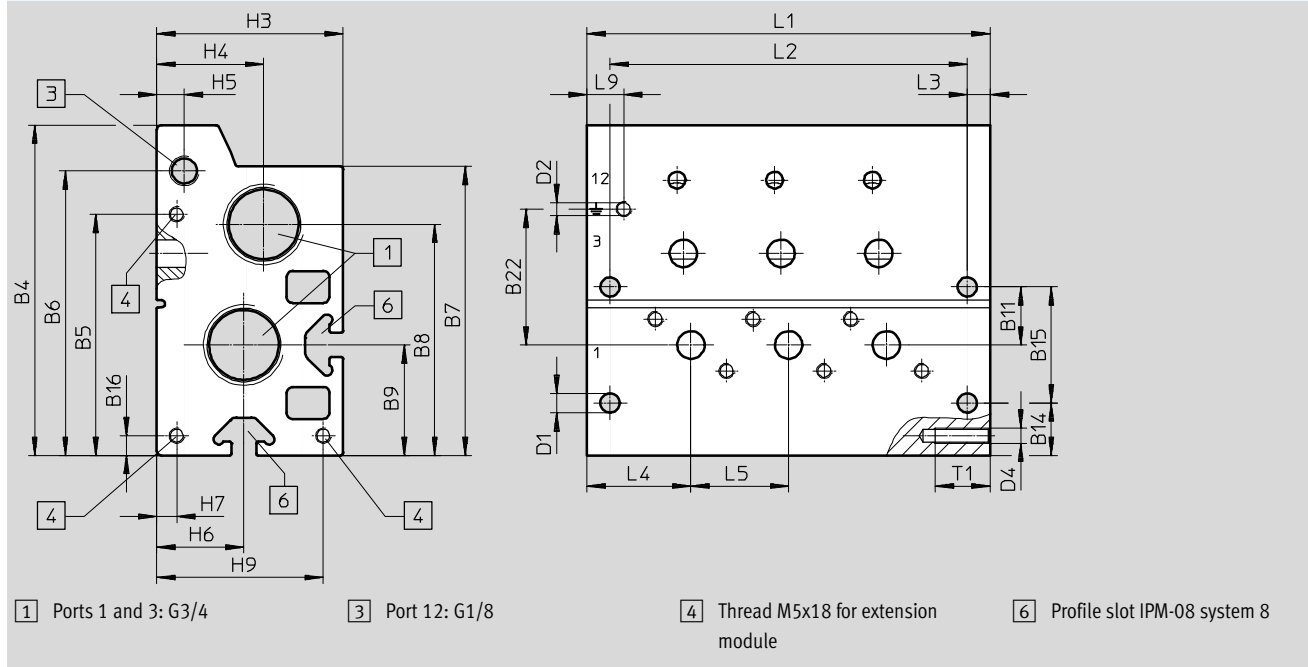
Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 30

Information on materials	
Materials	Wrought aluminium alloy
Note on materials	RoHS compliant

Dimensions Download CAD data → www.festo.com

Manifold block for 3/2-way valves, standard



Type	B4	B5	B6	B7	B8	B9	B11	B14	B15	B16	B22
VABM-B10-30E-G34-...-P3	108.2	79	93.2	94.7	75.7	36.2	19	17.2	38	6.5	44.5

Type	D1 Ø	D2	D4	H3	H4	H5	H6	H7	H9	L3	L4	L5	L9	T1
VABM-B10-30E-G34-...-P3	6.3	M5x11	M5	61	35	9	28.5	6.5	54.5	7.5	34	32	12	18

Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	100	132	164	196	228	260	292	324	356
L2 [mm]	85	117	149	181	213	245	277	309	341

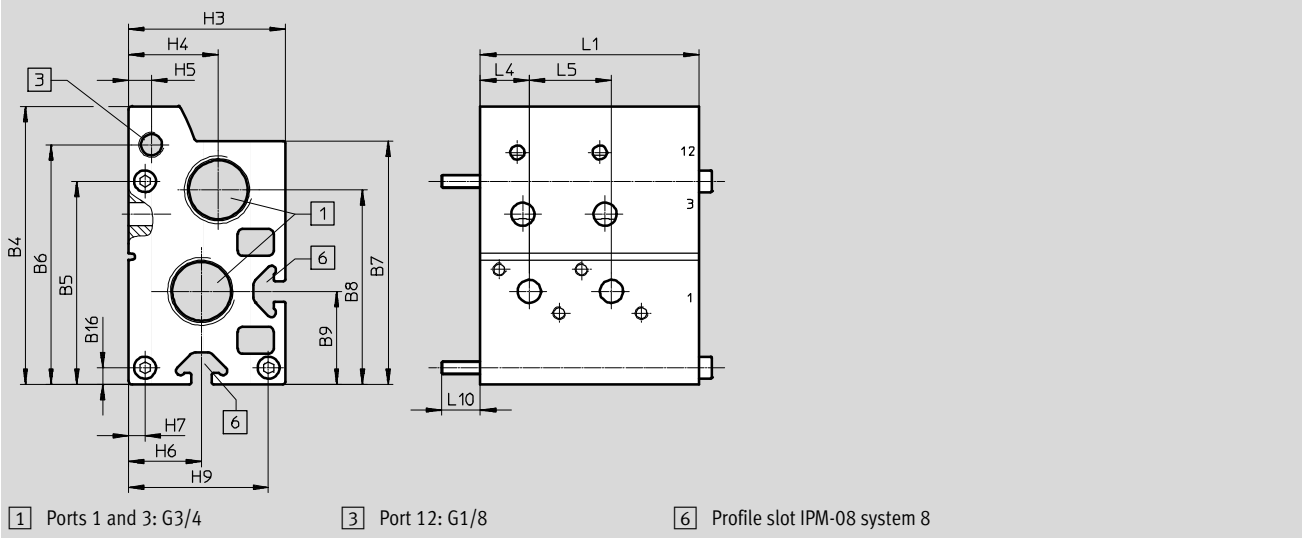
Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 30

Dimensions

Download CAD data → www.festo.com

Manifold block, extension module for 3/2-way valves, standard



Type	B4	B5	B6	B7	B8	B9	B16	H3
VABM-B10-30EEE-G34-2-P3	108.2	79	93.2	94.7	75.7	36.2	6.5	61

Type	H4	H5	H6	H7	H9	L4	L5	L10	L1
VABM-B10-30EEE-G34-2-P3	35	9	28.5	6.5	54.5	19	32	15	85

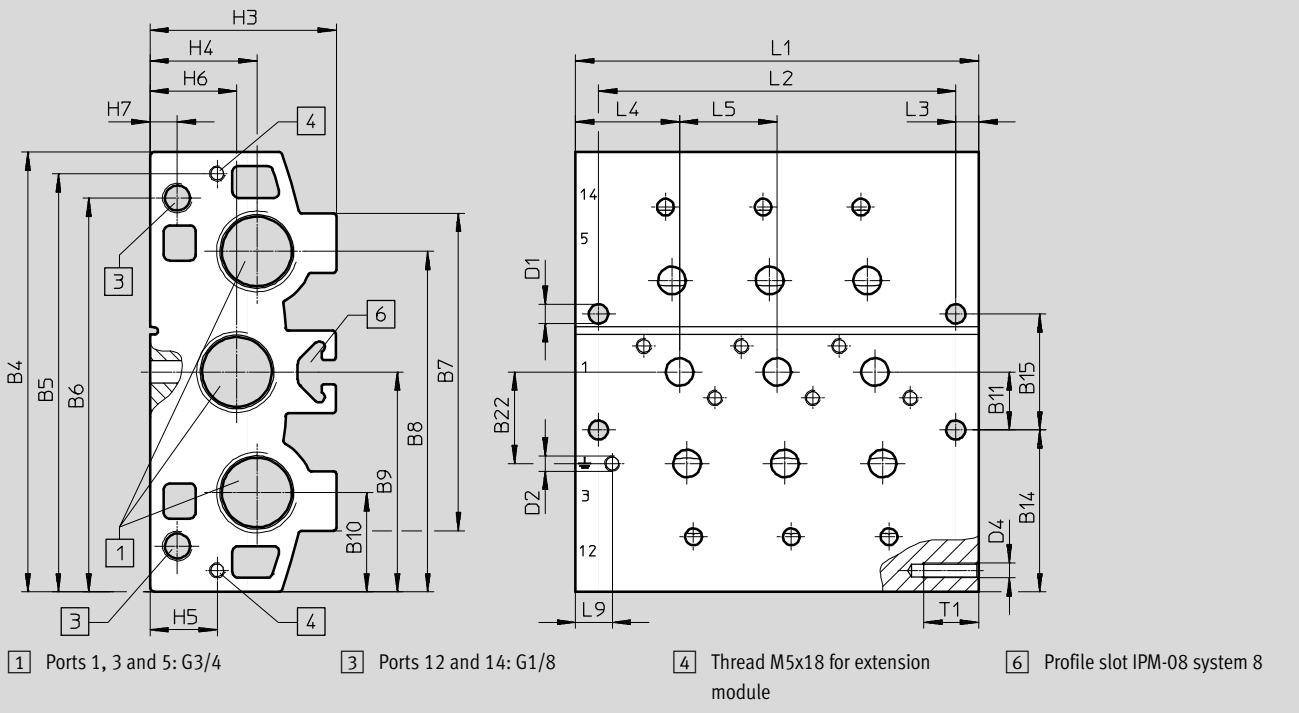
Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 30

Dimensions

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Manifold block for 5/2- and 5/3-way valves, standard



Type	B4	B5	B6	B7	B8	B9	B10	B11	B14	B15	B22
VABM-B10-30E-G34-...	144	137	129	104	111.5	72	32.5	19	53	38	30

Type	D1 Ø	D2	D4	H3	H4	H5	H6	H7	L3	L4	L5	L9	T1
VABM-B10-30E-G34-...	6.3	M5x11	M5	61	35	22	28.5	9	7.5	34	32	12	18

Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	100	132	164	196	228	260	292	324	356
L2 [mm]	85	117	149	181	213	245	277	309	341

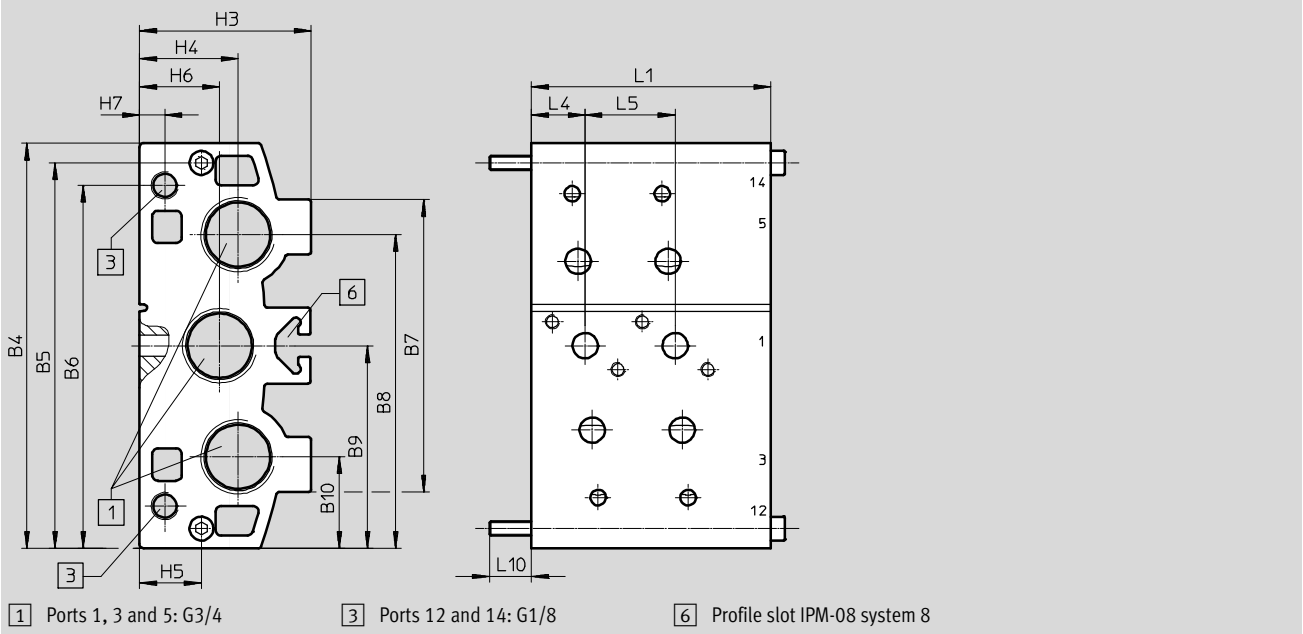
Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 30

Dimensions

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Manifold block, extension module for 5/2- and 5/3-way valves, standard



Type	B4	B5	B6	B7	B8	B9	B10	H3
VABM-B10-30EEE-G34-2	144	137	129	104	111.5	72	32.5	61

Type	H4	H5	H6	H7	L1	L4	L5	L10
VABM-B10-30EEE-G34-2	35	22	28.5	9	85	19	32	15

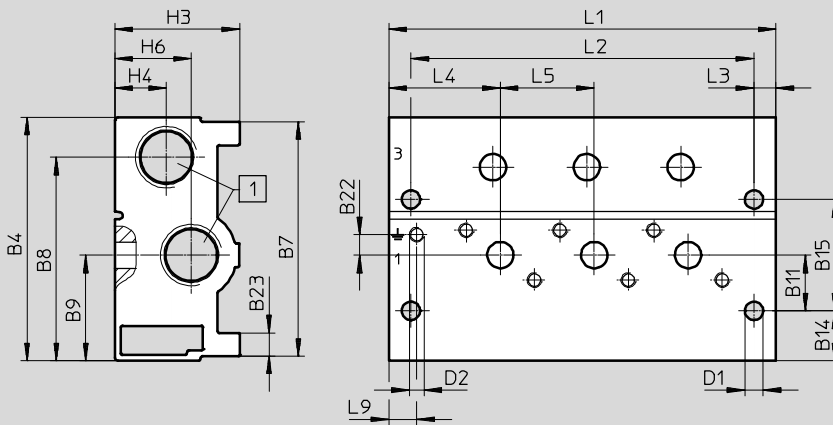
Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 30

Dimensions

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Manifold block for 3/2-way valves, compact



1 Ports 1 and 3: G1/2

Type	B4	B7	B8	B9	B11	B14	B15	B22	B23
VABM-B10-30S-G12-...-P3	83	80	69.4	36	19	17	38	7	8

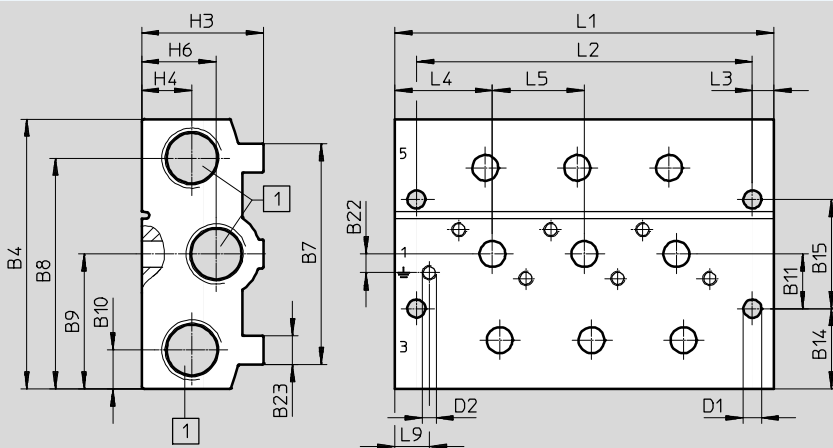
Type	D1 Ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-30S-G12-...-P3	6.3	M5x11	42.5	17.5	26	7.5	38	32	12

Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	100	132	164	196	228	260	292	324	356
L2 [mm]	85	117	149	181	213	245	277	309	341

Dimensions

Download CAD data → www.festo.com

Manifold block for 5/2- and 5/3-way valves, compact



1 Ports 1, 3 and 5: G1/2

Type	B4	B7	B8	B9	B10	B11	B14	B15	B22	B23
VABM-B10-30S-G12-...	94	77	80.4	47	13.6	19	28	38	6.5	10

Type	D1 Ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-30S-G12-...	6.3	M5x11	42.5	17.5	26	7.5	34	32	12

Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	100	132	164	196	228	260	292	324	356
L2 [mm]	85	117	149	181	213	245	277	309	341

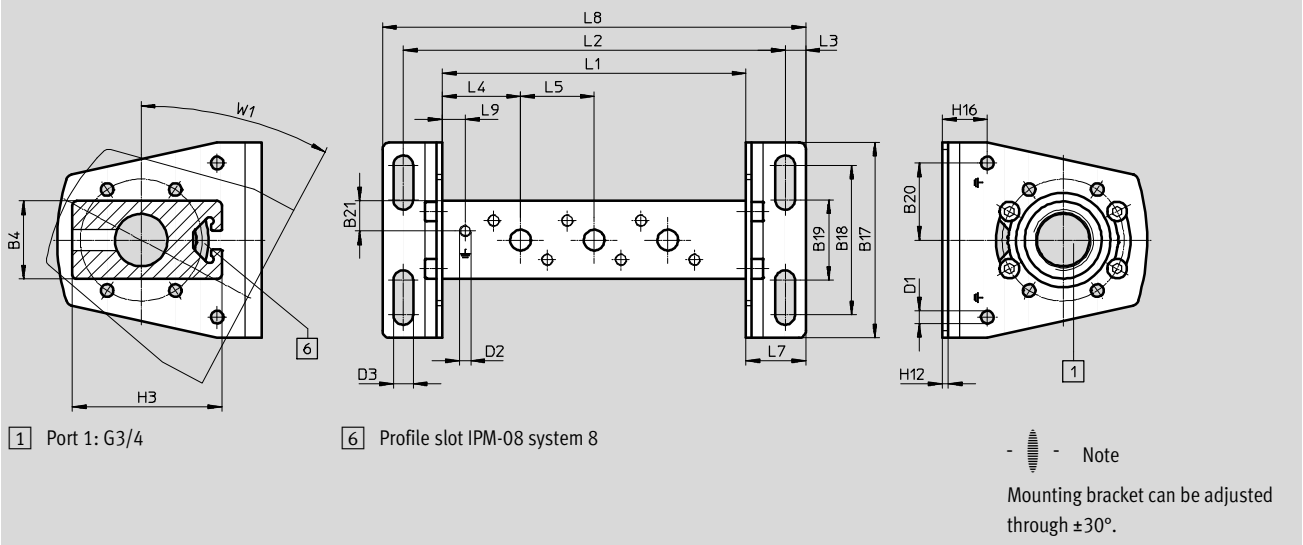
Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 30

Dimensions

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Supply manifold for mounting on both sides



Type	B4	B17	B18	B19	B20	B21	D1 Ø	D2	D3 Ø
VABM-B10-30-G34-...-P53	34	85	65	35	33.5	13	5.5	M5x11	8.6

Type	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-30-G34-...-P53	65	2.5	19.5	9	34	32	26	10	30°

Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	100	132	164	196	228	260	292	324	356
L2 [mm]	134	166	198	230	262	294	326	358	390
L8 [mm]	152	184	216	248	280	312	344	376	408

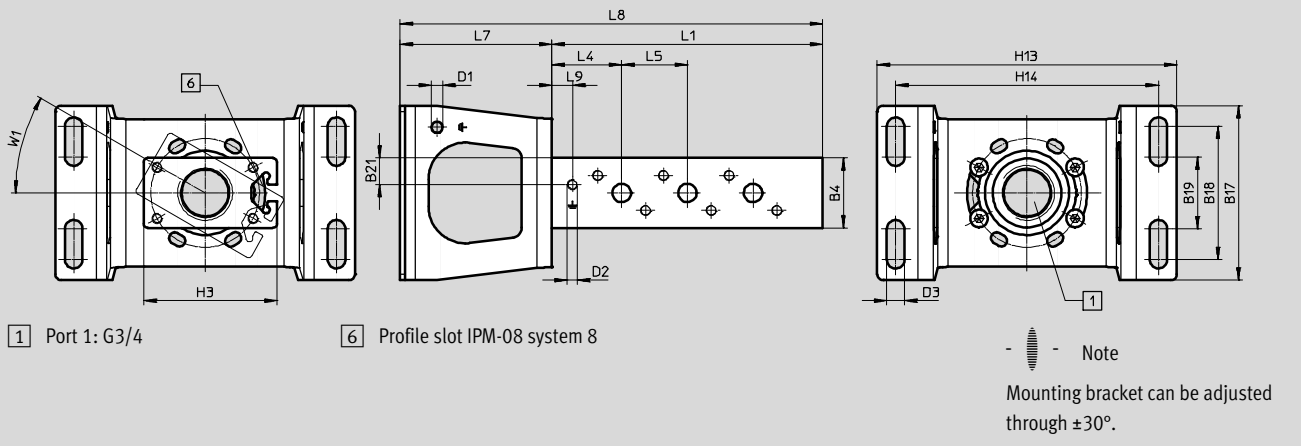
Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, size 30

Dimensions

Download CAD data → www.festo.com

Supply manifold, mounting on one side



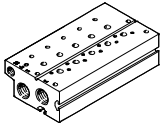

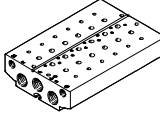



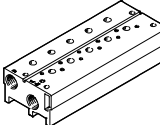

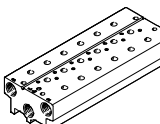

Type	B4	B17	B18	B19	B21	D1 Ø	D2	D3 Ø
VABM-B10-30-G34-...-P53-E	34	85	65	35	13	5.5	M5x11	8.6

Type	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-30-G34-...-P53-E	65	146	128	34	32	74	10	30°

Valve positions	2		3		4	
L1 [mm]	100		132		164	
L8 [mm]	168		200		232	

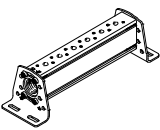
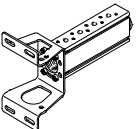
Solenoid valves VUVS/valve manifold VTUS

Ordering data – Manifold block, size 30

Ordering data – Manifold block				
	Description	Valve positions	Part No.	Type
Standard manifold block				
	For 3/2-way valves, incl. seals and screws for valve assembly  - Note Blanking plugs for sealing the supply ports (1, 3 and 14) at one end are included in the scope of delivery.	2	8026395	VABM-B10-30E-G34-2-P3
		3	8026396	VABM-B10-30E-G34-3-P3
		4	8026397	VABM-B10-30E-G34-4-P3
		5	8026398	VABM-B10-30E-G34-5-P3
		6	8026399	VABM-B10-30E-G34-6-P3
		7	8026400	VABM-B10-30E-G34-7-P3
		8	8026401	VABM-B10-30E-G34-8-P3
		9	8026402	VABM-B10-30E-G34-9-P3
		10	8026403	VABM-B10-30E-G34-10-P3
			For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly  - Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) at one end are included in the scope of delivery.	2
3	8026360			VABM-B10-30E-G34-3
4	8026361			VABM-B10-30E-G34-4
5	8026362			VABM-B10-30E-G34-5
6	8026363			VABM-B10-30E-G34-6
7	8026364			VABM-B10-30E-G34-7
8	8026365			VABM-B10-30E-G34-8
9	8026366			VABM-B10-30E-G34-9
10	8026367			VABM-B10-30E-G34-10
Manifold block, extension module for standard manifold block				
	For 3/2-way valves, incl. seals and screws for valve assembly	2	8026432	VABM-B10-30EEE-G34-2-P3
	For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly	2	8026431	VABM-B10-30EEE-G34-2
Compact manifold block				
	For 3/2-way valves, incl. seals and screws for valve assembly  - Note Blanking plugs for sealing the supply ports (1, 3 and 14) at one end are included in the scope of delivery.	2	8026413	VABM-B10-30S-G12-2-P3
		3	8026414	VABM-B10-30S-G12-3-P3
		4	8026415	VABM-B10-30S-G12-4-P3
		5	8026416	VABM-B10-30S-G12-5-P3
		6	8026417	VABM-B10-30S-G12-6-P3
		7	8026418	VABM-B10-30S-G12-7-P3
		8	8026419	VABM-B10-30S-G12-8-P3
		9	8026420	VABM-B10-30S-G12-9-P3
		10	8026421	VABM-B10-30S-G12-10-P3
			For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly  - Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) at one end are included in the scope of delivery.	2
3	8026378			VABM-B10-30S-G12-3
4	8026379			VABM-B10-30S-G12-4
5	8026380			VABM-B10-30S-G12-5
6	8026381			VABM-B10-30S-G12-6
7	8026382			VABM-B10-30S-G12-7
8	8026383			VABM-B10-30S-G12-8
9	8026384			VABM-B10-30S-G12-9
10	8026385			VABM-B10-30S-G12-10

Solenoid valves VUVS/valve manifold VTUS

Ordering data – Manifold block, size 30

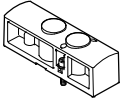
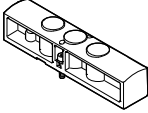

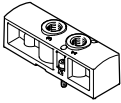

Ordering data				
	Description	Valve positions	Part No.	Type
Supply manifold				
	For mounting on both sides, incl. seals and screws for valve assembly	2	8026338	VABM-B10-30-G34-2-P53
		3	8026339	VABM-B10-30-G34-3-P53
		4	8026340	VABM-B10-30-G34-4-P53
		5	8026341	VABM-B10-30-G34-5-P5
		6	8026342	VABM-B10-30-G34-6-P53
		7	8026343	VABM-B10-30-G34-7-P53
		8	8026344	VABM-B10-30-G34-8-P53
		9	8026345	VABM-B10-30-G34-9-P53
		10	8026346	VABM-B10-30-G34-10-P53
			For mounting on one side, incl. seals and screws for valve assembly	2
3	8026357			VABM-B10-30-G34-3-P53-E
4	8026358			VABM-B10-30-G34-4-P53-E

 - Note

Blanking plug for sealing the supply port (1) at one end included in the scope of delivery.




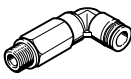

Solenoid valves VUVS/valve manifold VTUS

Ordering data – Manifold block, size 30

Ordering data				
	Description	Weight [g]	Part No.	Type
Blanking plate				
	For valve position on manifold block for 3/2-way valves	128	8026336	VABB-B10-30-E-P3
	For valve position on manifold block for 5/2-, 5/3-way valves	179	8026335	VABB-B10-30-E
	For valve position on supply manifold	43	8026334	VABB-B10-30-A
Supply plate				
	For valve position on manifold block for 3/2-way valves	121	8026435	VABF-B10-30-P1A4-G38-P3
	For valve position on manifold block for 5/2-, 5/3-way valves	167	8026434	VABF-B10-30-P1A4-G38
Supply plate				
	For valve position on supply manifold	40	8026433	VABF-B10-30-P1-G38

Solenoid valves VUVS/valve manifold VTUS





Ordering data – Manifold block, size 30

Ordering data						
	Description		Part No.	Type	PU ¹⁾	
Push-in fitting with internal hex						
	Connecting thread G1/8 for tubing O.D.	4 mm	186106	QS-G1/8-4-I	10	
			133008	QS-G1/8-4-I-100	100	
		6 mm	186107	QS-G1/8-6-I	10	
			133009	QS-G1/8-6-I-100	100	
	Connecting thread G3/8 for tubing O.D.	8 mm	186111	QS-G3/8-8-I	10	
		10 mm	186113	QS-G3/8-10-I	10	
		12 mm	186114	QS-G3/8-12-I	10	
	Connecting thread G1/2 for tubing O.D.	12 mm	186115	QS-G1/2-12-I	1	
Push-in fitting with external hex						
	Connecting thread G1/2 for tubing O.D.	16 mm	186105	QS-G1/2-16	1	
			132047	QS-G1/2-16-20	20	
Angled push-in fitting with external hex						
	Connecting thread G3/8 for tubing O.D.	8 mm	186121	QSL-G3/8-8	10	
			132055	QSL-G3/8-8-50	50	
		10 mm	186123	QSL-G3/8-10	10	
			132056	QSL-G3/8-10-20	20	
		12 mm	186124	QSL-G3/8-12	10	
			132057	QSL-G3/8-12-20	20	
	Connecting thread G1/2 for tubing O.D.	12 mm	186125	QSL-G1/2-12	1	
			132058	QSL-G1/2-12-20	20	
16 mm	186126	QSL-G1/2-16	1			
	132059	QSL-G1/2-16-20	20			
Angled push-in fitting, long, with external hex						
	Connecting thread G1/2 for tubing O.D.	8 mm	186132	QSL-G3/8-8	10	
		10 mm	186134	QSL-G3/8-10	10	
		12 mm	186135	QSL-G3/8-12	10	
Barbed fitting with external hex						
	Connecting thread G3/4 for tubing I.D.	Aluminium design	13 mm	3612	N-3/4-P-13	1
			19 mm	3613	N-3/4-P-19	1
	Connecting thread G3/4 for tubing I.D.	Brass design	13 mm	15637	N-3/4-P-13-MS	1
			19 mm	15638	N-3/4-P-19-MS	1

1) Packaging unit

Solenoid valves VUVS/valve manifold VTUS

Ordering data – Manifold block, size 30

Ordering data					
	Description		Part No.	Type	PU ¹⁾
Silencer					
	With connecting thread G	G3/8	6843	U-3/8-B	1
			534224	U-3/8-20	20
		G1/2	6844	U-1/2-B	1
		G3/4	6845	U-3/4-B	1
Blanking plug					
	With connecting thread G	G1/8	3568	B-1/8	10
			534213	B-1/8-100	100
		G1/2	3571	B-1/2	10
			534216	B-1/2-20	20
		G3/4	3572	B-3/4	10
Separator					
	For creating pressure zones	G1/8	569995	VABD-8-B	1
		G1/2	8022483	VABD-17.5-B	1
		G3/4	8022484	VABD-22.7-B	1
H-rail mounting					
	For size 30, for mounting on standard H-rails TH 35-7.5 or TH 35-15 to EN 60715		3488412	VAME-T-M6	2

1) Packaging unit