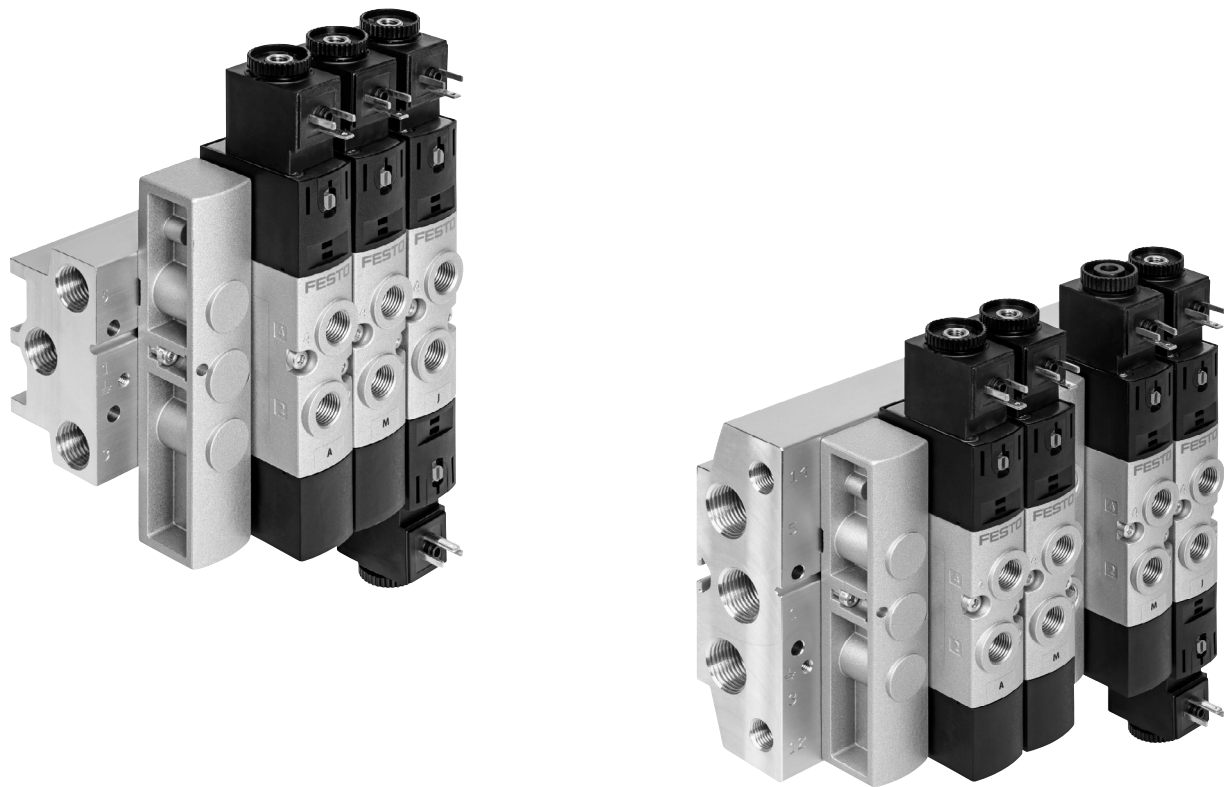


Solenoid valves VUVS/valve manifold assembly VTUS

FESTO



Key features



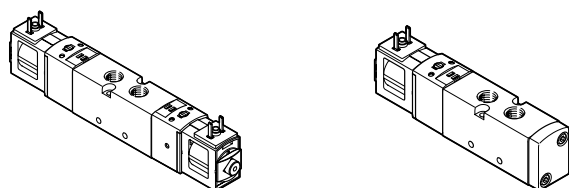
Innovative	Versatile	Reliable	Easy to install
• A reliable, sturdy valve with a long service life • Design principle: – Piston spool with sealing ring (VUVS-LK) – Poppet seat, soft-sealing (VUVS-LT) – Piston spool with sealing cartridge (VUVS-L) • Flow rate up to 1800 l/min with VUVS-LK and VUVS-LT • Flow rate up to 2300 l/min with VUVS-L • Wide range of valve functions	• Operating voltage can be easily altered by changing the solenoid coil (VUVS-L and VUVS-LT) • In-line valves can be used as individual valves or manifold valves • Flexible pressure zones • Wide range of mounting options	• Ergonomic and safe operation • Reliable servicing thanks to valves that can be replaced quickly and easily	• Pre-assembled units on rails • Individual valves assembled ready for installation • Common supply manifolds for mounting on one or both sides • Solid wall mounting or DIN rail mounting

Ordering data – Product options				
	Configurable product	The configurator can be found under	Part no.	Type
	This product and all its product options can be ordered using the configurator.	Products on the DVD or at	576516	VUVS-20
		→ www.festo.com/catalogue/...	8022014	VUVS-25
			8022017	VUVS-30
			577304	VTUS-20
			8022016	VTUS-25
			8022019	VTUS-30

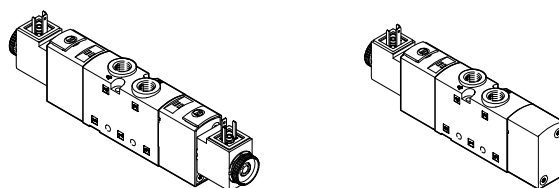
Key features

Solenoid valves VUVS

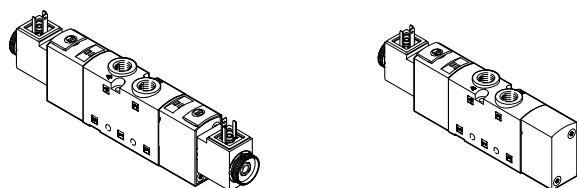
In-line valve VUVS-LK as individual valve (piston spool valve)



In-line valve VUVS-LT as individual valve (poppet valve)



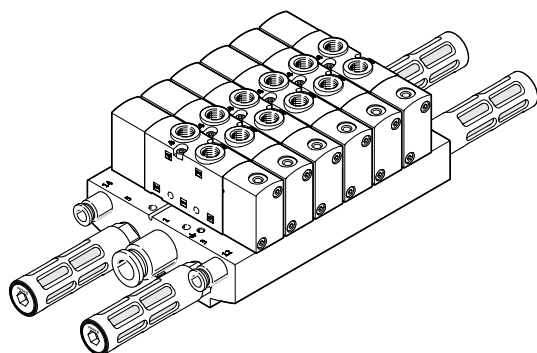
In-line valve VUVS-L as individual valve (piston spool valve)



In-line valves are designed to be used without being linked pneumatically. All pneumatic connections are on the valve and can be equipped with fittings/tubing.

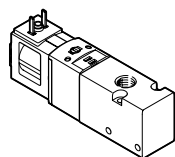
By using a special seal set, the in-line valves can also be mounted on a manifold rail (pneumatic links) as semi in-line valves.

Valve manifold assembly VTUS



Equipment options

VUVS-LK



- 3/2- and 5/2-way valves, with solenoid coil
- Size 20 (21 mm), size 25 (26.5 mm) and size 30 (31 mm)

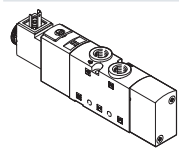
Valve functions

- 3/2-way valve, normally closed:
- Internal pilot air supply
 - Pneumatic spring return
 - Flow direction not reversible

- 5/2-way valve, single solenoid
- Internal pilot air supply
 - Pneumatic spring return
 - Flow direction not reversible

- 5/2-way valve, double solenoid
- Internal pilot air supply
 - Flow direction not reversible

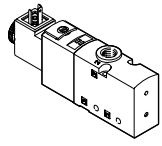
Key features

Equipment options		Valve functions	
	• 3/2-, 2x 3/2- and 5/2-way valves, with or without solenoid coil • Size 20 (21 mm), Size 25 (26.5 mm) and size 30 (31 mm)	3/2-way valve, normally open, single solenoid:	2x 3/2-way valve, normally closed, single solenoid:
		• Internal/external pilot air supply • Mechanical spring return • Flow direction not reversible	• Internal/external pilot air supply • Mechanical spring return • Flow direction not reversible
		3/2-way valve, normally closed, single solenoid:	2x 3/2-way valve, 1x normally open, 1x normally closed, single solenoid:
		• Internal/external pilot air supply • Mechanical spring return • Flow direction not reversible	• Internal/external pilot air supply • Mechanical spring return • Flow direction not reversible
		2x 3/2-way valve, normally open, single solenoid:	5/2-way valve, single solenoid
		• Internal/external pilot air supply • Mechanical spring return • Flow direction not reversible	• Internal/external pilot air supply • Mechanical spring return • Flow direction not reversible
			5/2-way valve, double solenoid
			• Internal/external pilot air supply • Flow direction not reversible

Key features

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)

Valve functions

3/2-way valve, normally open, single solenoid:

- Internal/external pilot air supply
- Pneumatic/mechanical spring return
- Flow direction can be reversed when using external pilot air supply

3/2-way valve, normally closed, single solenoid:

- Internal/external pilot air supply
- Pneumatic/mechanical spring return
- Flow direction can be reversed when using external pilot air supply

5/2-way valve, single solenoid

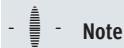
- Internal/external pilot air supply
- Pneumatic/mechanical spring return
- Flow direction can be reversed when using external pilot air supply

5/2-way valve, double solenoid

- Internal/external pilot air supply
- Flow direction can be reversed when using external pilot air supply

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

- Internal/external pilot air supply
- Mechanical spring return
- Flow direction can be reversed when using external pilot air supply



Note

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

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 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
- Common supply manifold with a maximum of 10 valve positions
- Creating pressure zones (maximum 9 pressure zones for a valve manifold assembly with 16 valve positions)

Design

Replacing valves

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

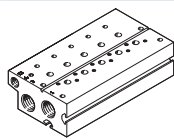
Valve positions covered with cover plates can be replaced with valves at a later date. The dimensions, mounting points and existing pneumatic installation remain unchanged.

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.

Key features

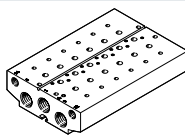
Standard manifold block

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

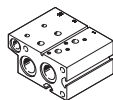
For 5/2-way and 5/3-way valves



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

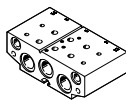
Manifold block extension module, for standard manifold block

For 3/2-way valves



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

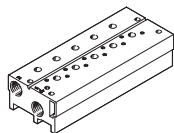
For 5/2-way and 5/3-way valves



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

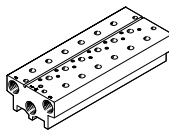
Compact manifold block

For 3/2-way valves



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

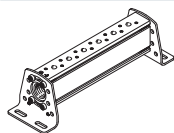
For 5/2-way and 5/3-way valves



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

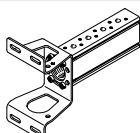
Common supply manifold

Mounting on both sides



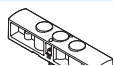
- Connection
Size 20: G3/8
Size 25: G1/2
Size 30: G3/4
- Maximum 10 valve positions

Mounting on one side



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

Cover plate for vacant position



For covering vacant 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 valves operated in vacuum mode. This prevents any foreign matter in the intake air getting into the valve (e.g. when operating a suction cup).

Key features – Pneumatic components

Creating pressure zones and separating exhaust air

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

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

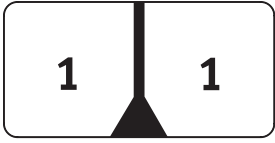
A pressure zone is created by isolating the internal ducts between the valve positions with an appropriate separator.

The separator can be used in the following ducts:

- Duct 1
- Duct 3
- Duct 5

**Note**

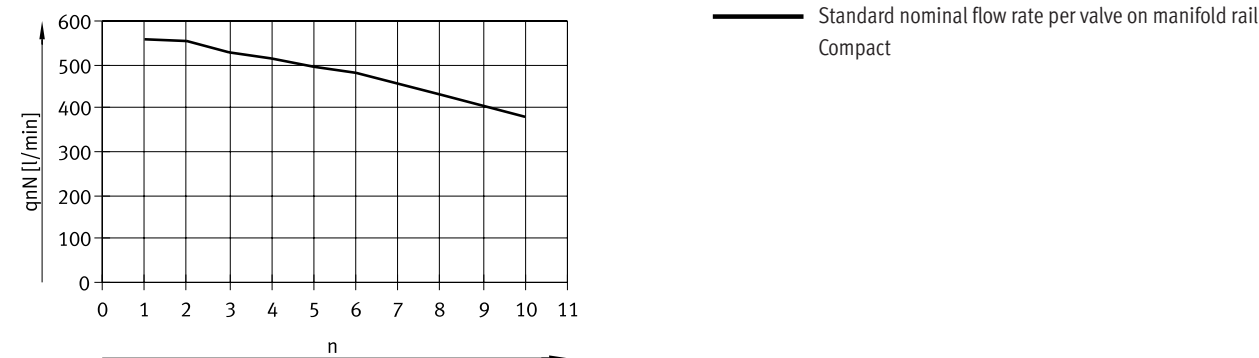
- Use a separator if the exhaust air pressures are high
- Use at least one supply plate/air supply for each pressure zone
- Pressure zone separation is not possible in ducts 12 and 14 (pilot air supply)

Duct separation	Description
	The pressure zones can be freely configured with the VTUS. The following duct separations are possible: • Duct 1 closed  • Duct 1/3/5 closed  • Duct 3/5 closed 
	The number of pressure zones with the VTUS is limited by the number of valve positions on the manifold block/common 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.

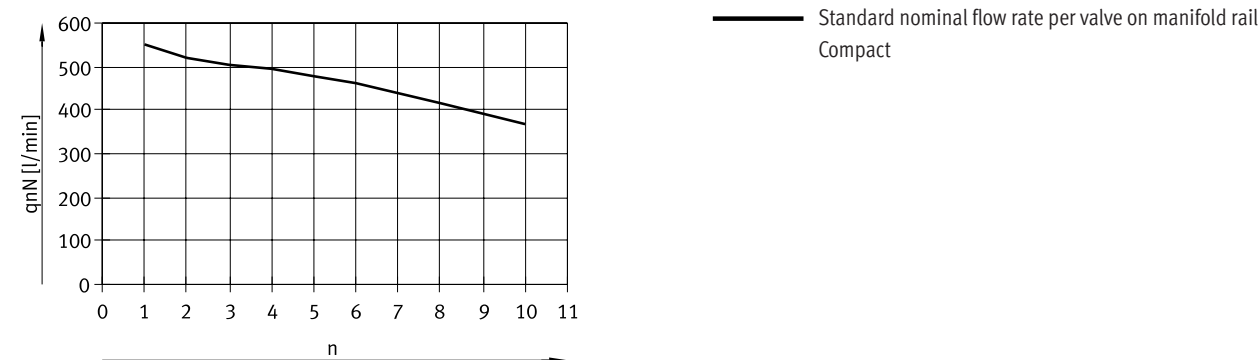
Key features – Pneumatic components, VUVS-LK

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

For 3/2-way valves

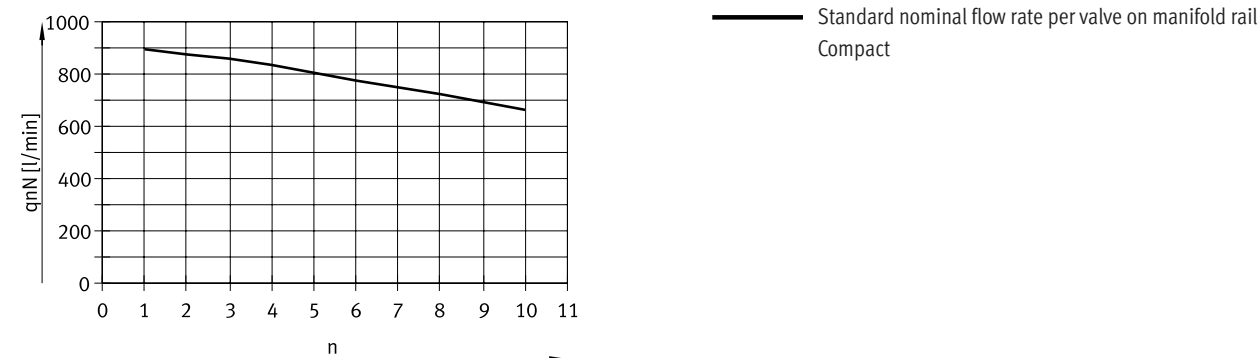


For 5/2-way valves

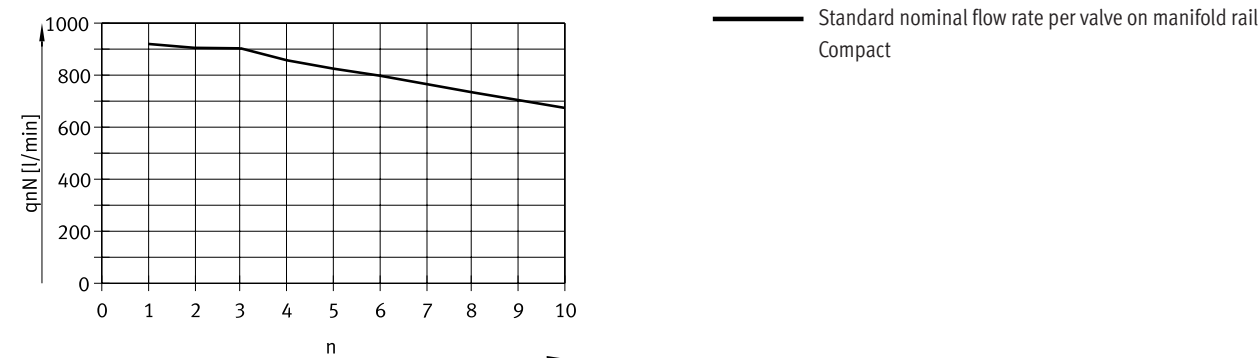


Size 25 – Standard nominal flow rate q_{nN} , with several valves n switched in parallel

For 3/2-way valves



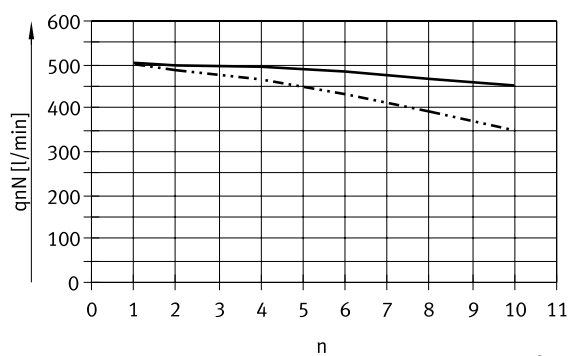
For 5/2-way valves



Key features – Pneumatic components, VUVS-LT

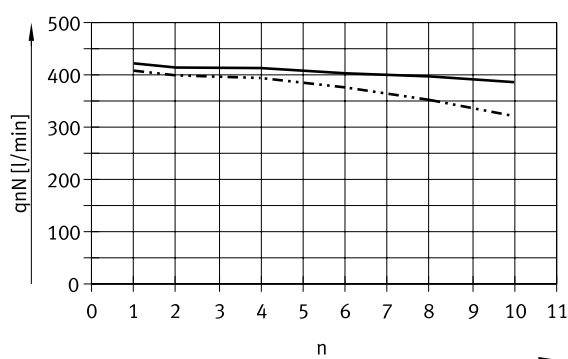
Size 20 – Standard nominal flow rate q_{pN} , with several valves n switched in parallel

For 3/2-way valves



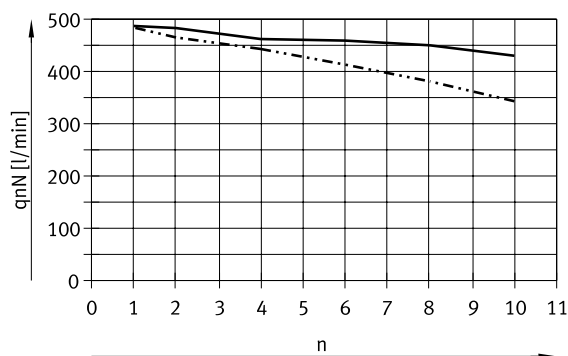
- Standard nominal flow rate per valve on manifold rail
Standard
- - - Standard nominal flow rate per valve on manifold rail
Compact

For 5/2-way valves, flow direction 1 → 2



- Standard nominal flow rate per valve on manifold rail
Standard
- - - Standard nominal flow rate per valve on manifold rail
Compact

For 5/2-way valves, flow direction 1 → 4



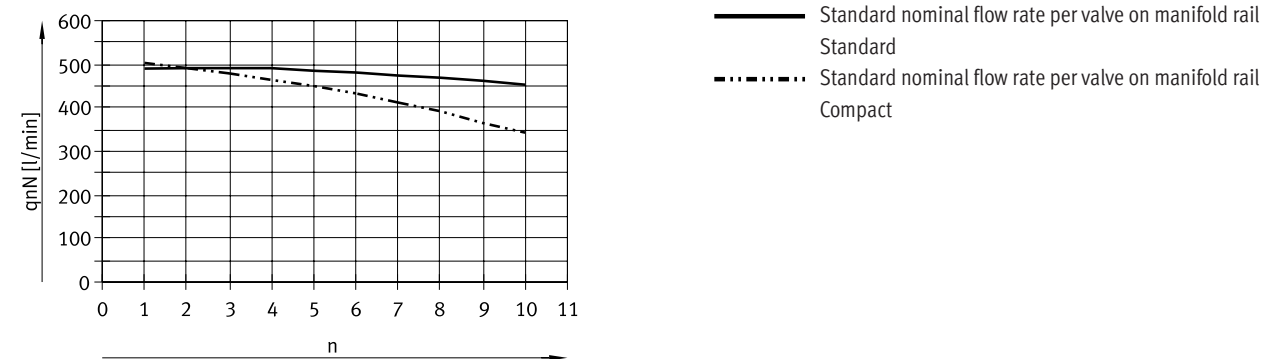
- Standard nominal flow rate per valve on manifold rail
Standard
- - - Standard nominal flow rate per valve on manifold rail
Compact

Key features – Pneumatic components, VUVS-LT

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

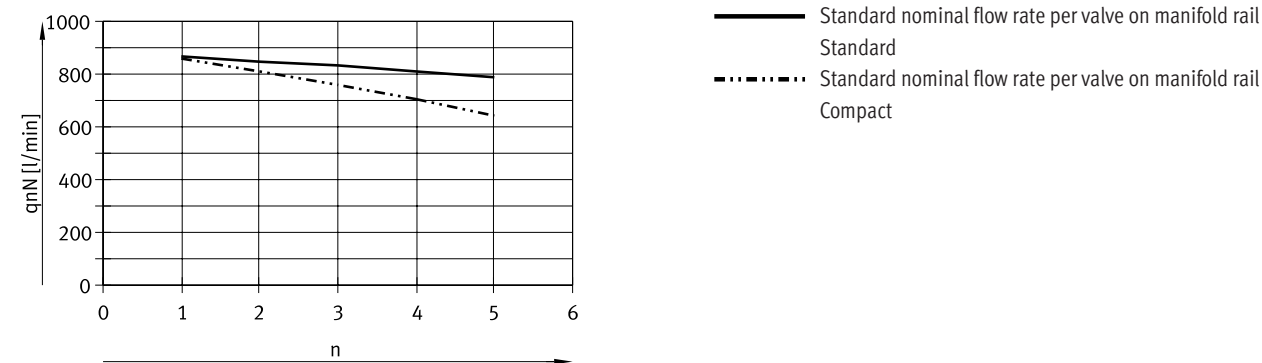
For 2x 3/2-way valves

One valve function per valve position in open switching position



For 2x 3/2-way valves

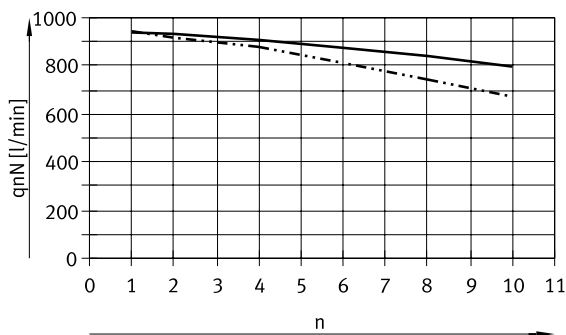
Both valve functions per valve position simultaneously in open switching position



Key features – Pneumatic components, VUVS-LT

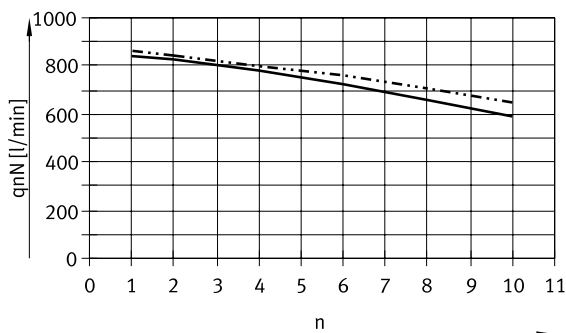
Size 25 – Standard nominal flow rate q_{nN} , with several valves n switched in parallel

For 3/2-way valves



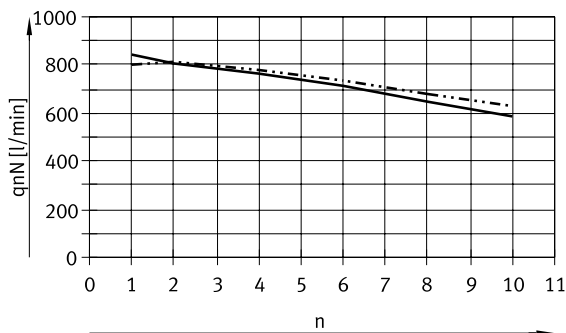
— Standard nominal flow rate per valve on manifold rail
Standard
- - - Standard nominal flow rate per valve on manifold rail
Compact

For 5/2-way valves, flow direction 1 → 2



— Standard nominal flow rate per valve on manifold rail
Standard
- - - Standard nominal flow rate per valve on manifold rail
Compact

For 5/2-way valves, flow direction 1 → 4



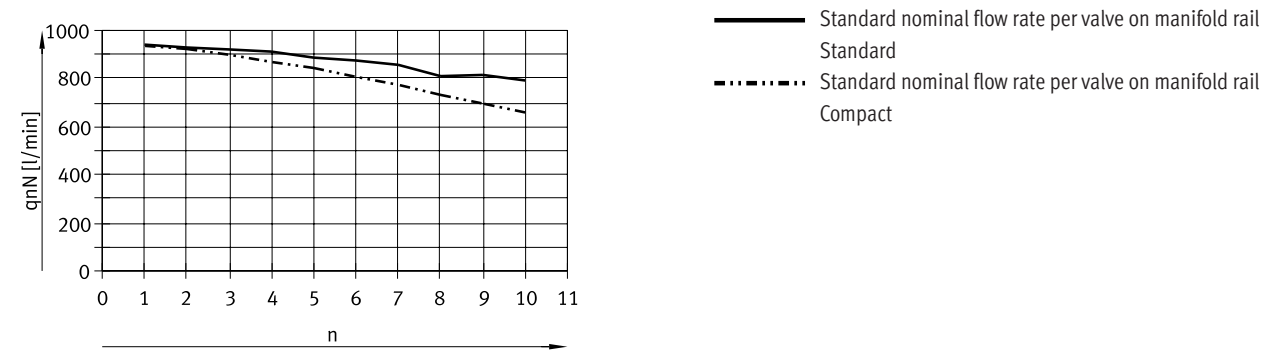
— Standard nominal flow rate per valve on manifold rail
Standard
- - - Standard nominal flow rate per valve on manifold rail
Compact

Key features – Pneumatic components, VUVS-LT

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

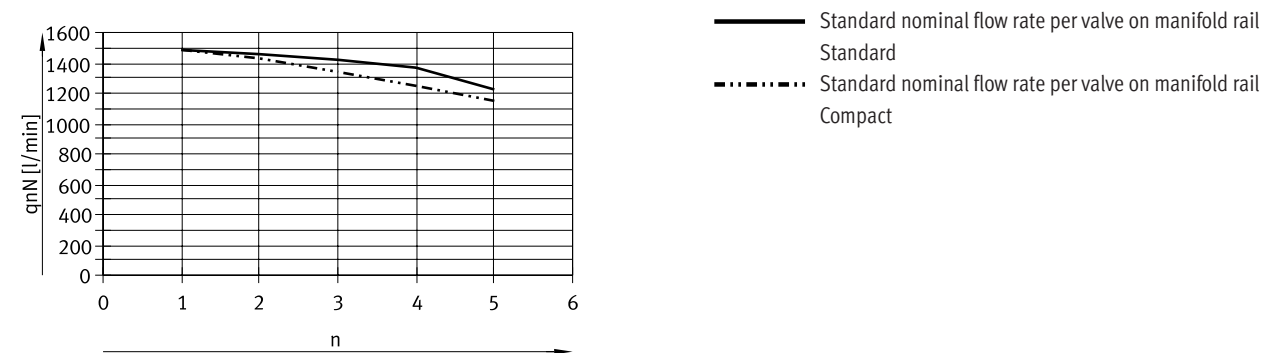
For 2x 3/2-way valves

One valve function per valve position in open switching position



For 2x 3/2-way valves

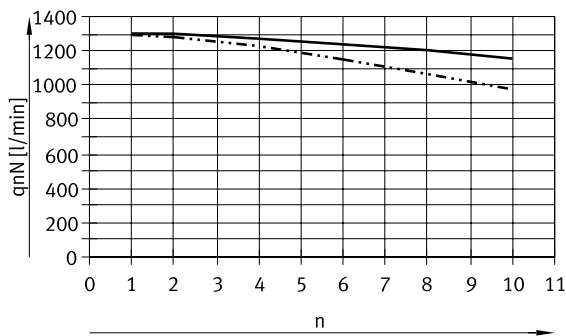
Both valve functions per valve position simultaneously in open switching position



Key features – Pneumatic components, VUVS-LT

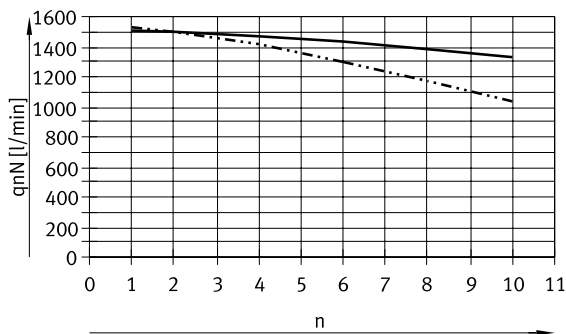
Size 30 – Standard nominal flow rate q_{pN} , with several valves n switched in parallel

For 3/2-way valves



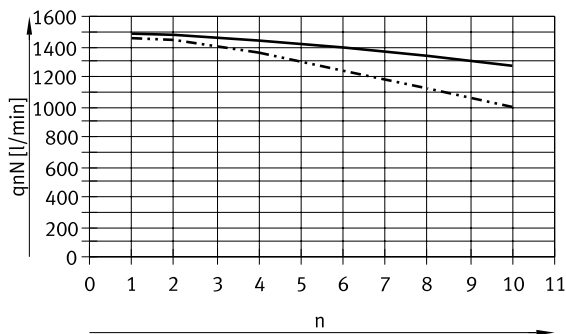
- Standard nominal flow rate per valve on manifold rail
Standard
- - - Standard nominal flow rate per valve on manifold rail
Compact

For 5/2-way valves, flow direction 1 → 2



- Standard nominal flow rate per valve on manifold rail
Standard
- - - Standard nominal flow rate per valve on manifold rail
Compact

For 5/2-way valves, flow direction 1 → 4



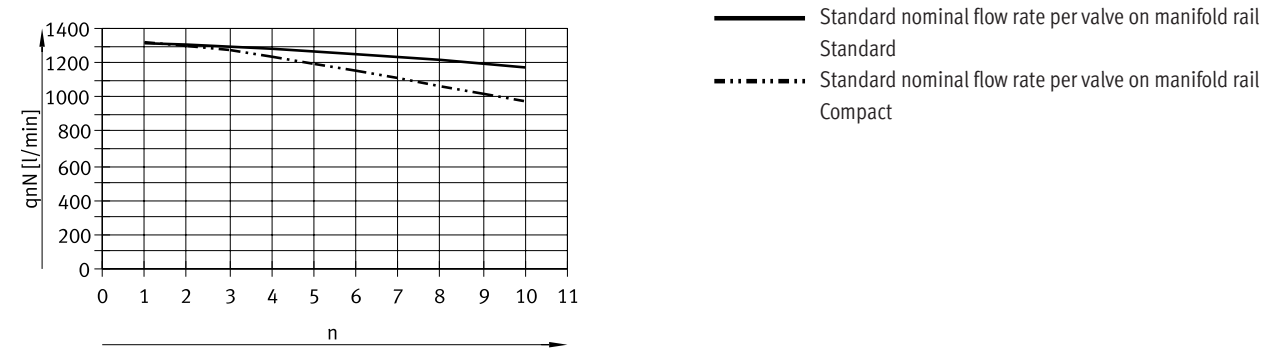
- Standard nominal flow rate per valve on manifold rail
Standard
- - - Standard nominal flow rate per valve on manifold rail
Compact

Key features – Pneumatic components, VUVS-LT

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

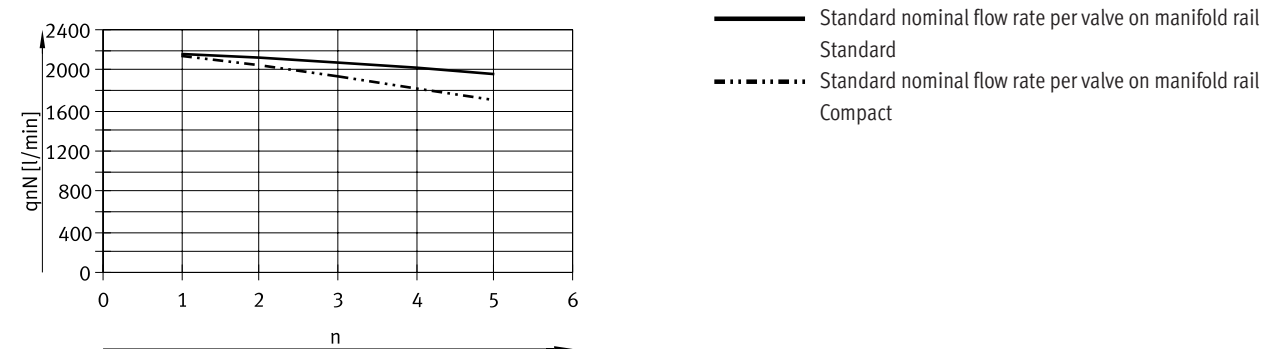
For 2x 3/2-way valves

One valve function per valve position in open switching position



For 2x 3/2-way valves

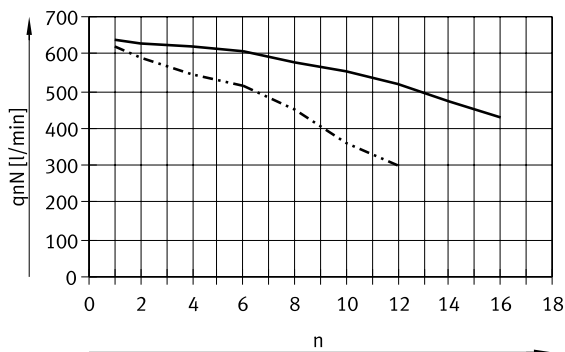
Both valve functions per valve position simultaneously in open switching position



Key features – Pneumatic components, VUVS-L

Size 20 – Standard nominal flow rate q_{pN} , with several valves n switched in parallel

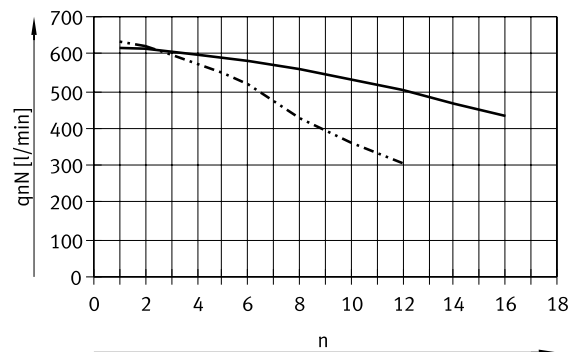
For 3/2-way valves



— Standard nominal flow rate per valve on manifold rail
Standard

- - - Standard nominal flow rate per valve on manifold rail
Compact

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

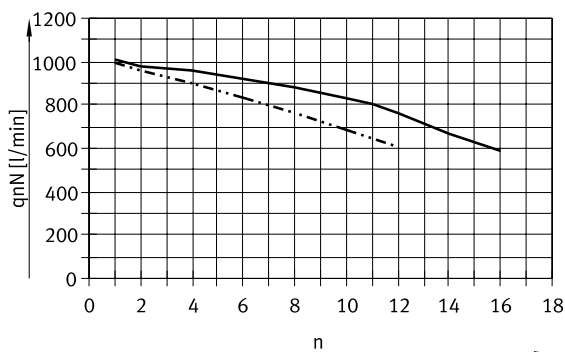


— Standard nominal flow rate per valve on manifold rail
Standard

- - - Standard nominal flow rate per valve on manifold rail
Compact

Size 25 – Standard nominal flow rate q_{pN} , with several valves n switched in parallel

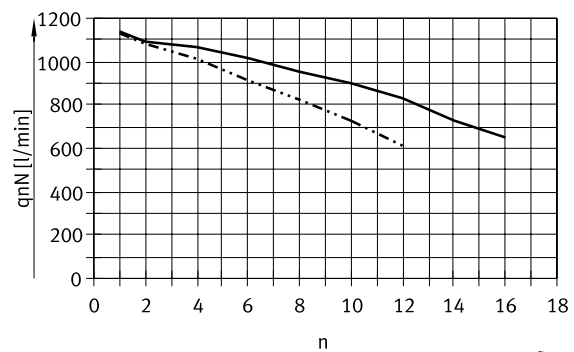
For 3/2-way valves



— Standard nominal flow rate per valve on manifold rail
Standard

- - - Standard nominal flow rate per valve on manifold rail
Compact

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



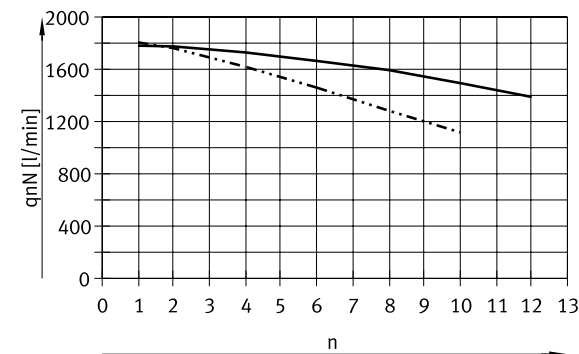
— Standard nominal flow rate per valve on manifold rail
Standard

- - - Standard nominal flow rate per valve on manifold rail
Compact

Key features – Pneumatic components, VUVS-L

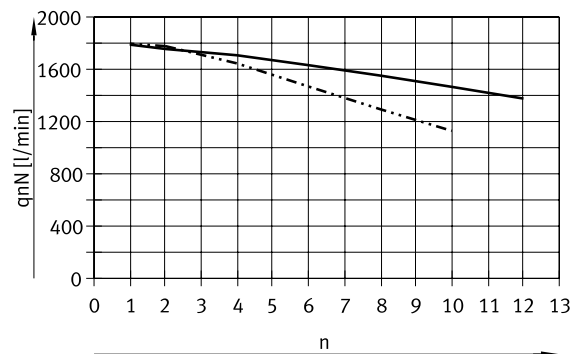
Size 30 – Standard nominal flow rate q_{nN} , with several valves n switched in parallel

For 3/2-way valves



- Standard nominal flow rate per valve on manifold rail Standard
- - - Standard nominal flow rate per valve on manifold rail Compact

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

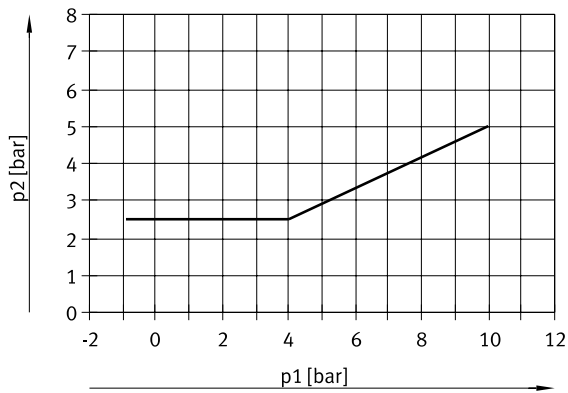


- Standard nominal flow rate per valve on manifold rail Standard
- - - Standard nominal flow rate per valve on manifold rail Compact

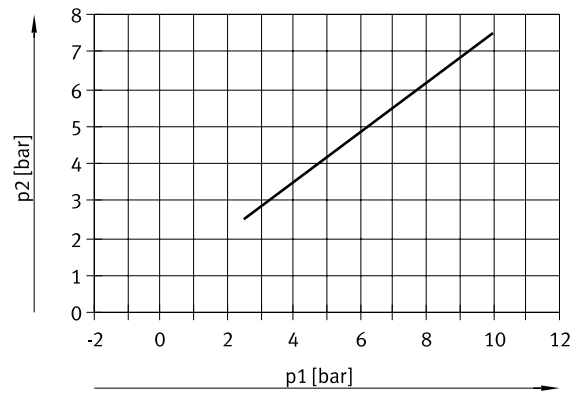
Key features – Pneumatic components, VUVS-LT

Size 20 – Pilot pressure p_2 as a function of working pressure p_1 with external pilot air supply

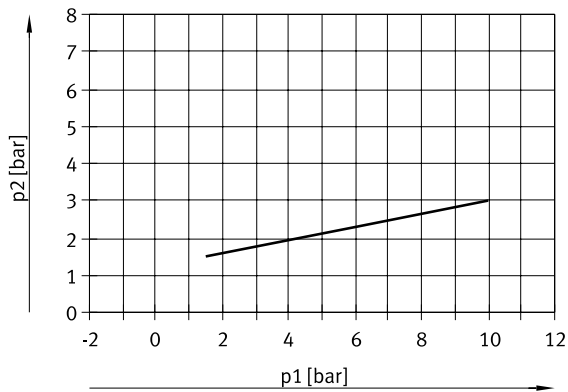
For 3/2-way valves



For 5/2-way valves, single solenoid



For 5/2-way valves, double solenoid



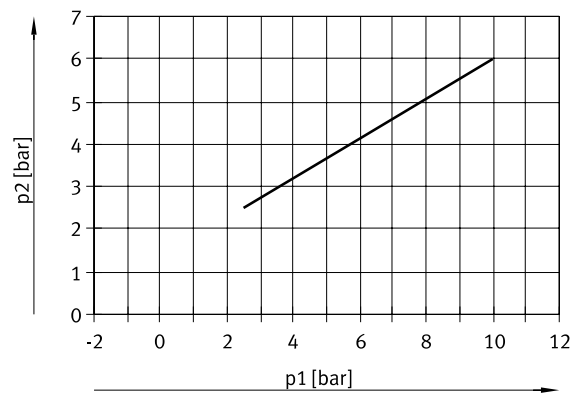
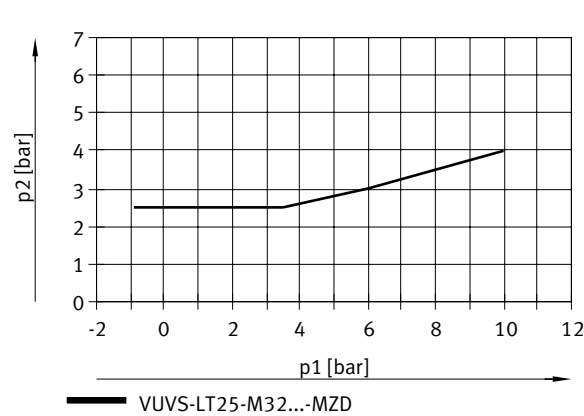
Key features – Pneumatic components, VUVS-LT

Size 25 – Pilot pressure p2 as a function of working pressure p1 with external pilot air supply

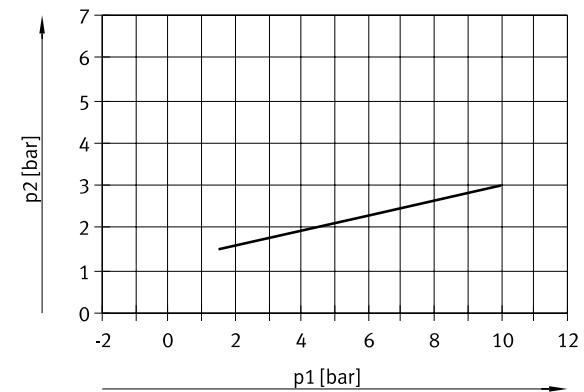
For 3/2-way valves

For 5/2-way valves, single solenoid

VUVS-LT25-M32...-MZD



For 5/2-way valves, double solenoid

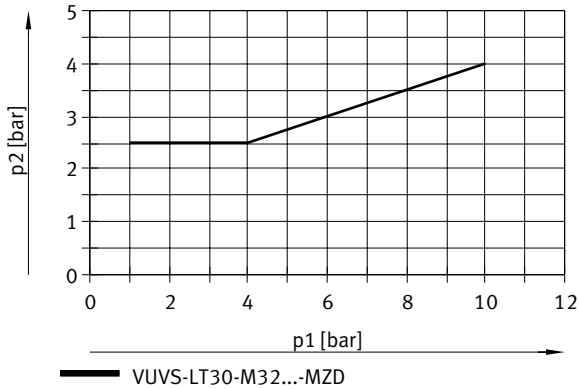


Key features – Pneumatic components, VUVS-LT

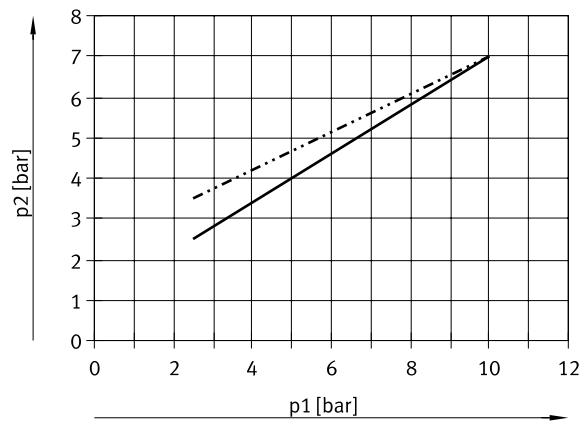
Size 30 – Pilot pressure p_2 as a function of working pressure p_1 with external pilot air supply

For 3/2-way valves

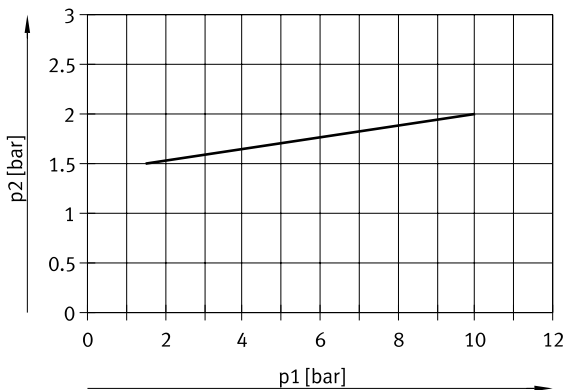
VUVS-LT30-M32...-MZD



For 5/2-way valves, single solenoid



For 5/2-way valves, double solenoid



— VUVS-LT30-M52-MZD (0-60 °C)
 - · - · - VUVS-LT30-M52-MZD (-10-0 °C)

Key features – Pneumatic components

Mounting – Valve manifold assembly VTUS

Sturdy manifold assembly thanks to:

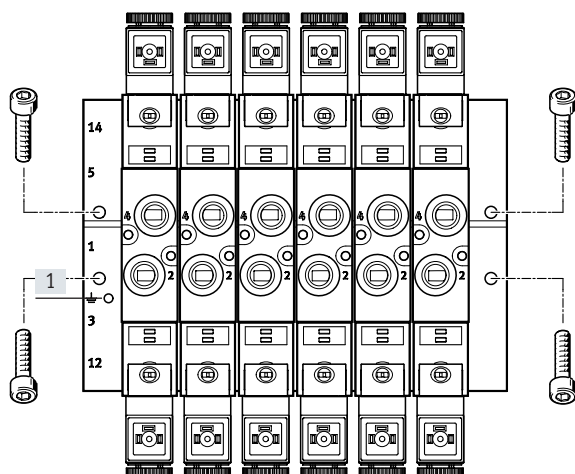
- Four through-holes for wall mounting
- DIN rail mounting



Note

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

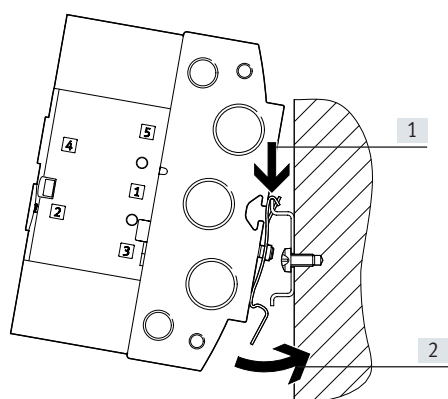
Wall mounting



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

[1] Earth connection

DIN rail mounting



[1] Arrow A

[2] Arrow B

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

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



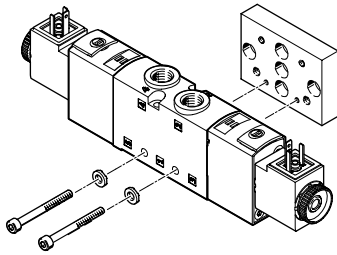
Note

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

Key features – Mounting

Mounting – Single valve VUVS

Wall mounting

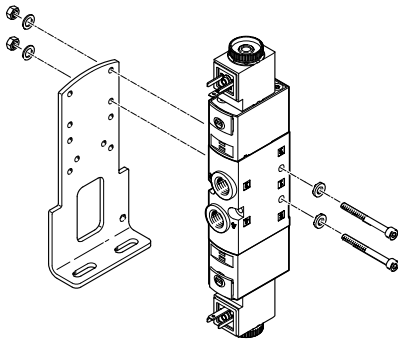


For mounting individual valves on a flat surface, e.g. aluminium profile systems.

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

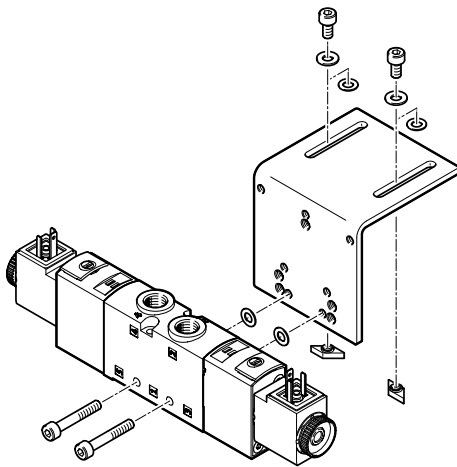


For mounting individual valves on a flat surface, e.g. aluminium profile systems.

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.

Cylinder mounting

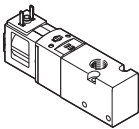
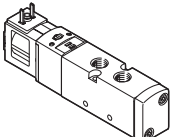
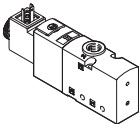
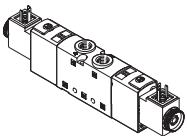
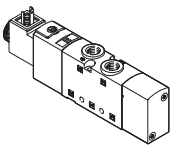


For mounting individual valves directly on a drive.

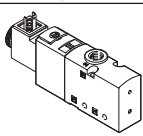
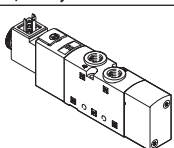
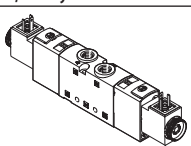
The solenoid valves are provided with two through-holes for attaching to the cylinder mounting DAVM-MW-V1...-V. Mounting is only possible on the side on which the pneumatic connections are located.

The relevant screw set is included when the cylinder mounting DAVM-MW-V1...-V is ordered.

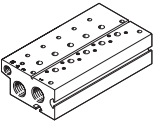
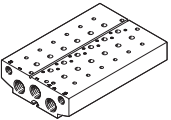
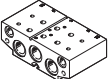
Product range overview

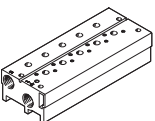
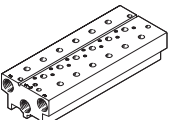
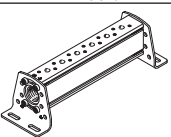
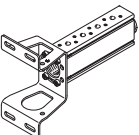
Valve	Size	Working port	Order code for valves and flow rate [l/min]										→ Page/In- ternet
			M32C	M32U	T32C	T32U	T32H	M52	B52	P53C	P53U	P53E	
3/2-way valve VUVS-LK													
	20	G1/8	■ 550	–	–	–	–	–	–	–	–	–	58
	25	G1/4	■ 1000	–	–	–	–	–	–	–	–	–	68
	30	G3/8	■ 1600	–	–	–	–	–	–	–	–	–	78
5/2-way valve VUVS-LK													
	20	G1/8	–	–	–	–	–	■ 550	■ 550	–	–	–	58
	25	G1/4	–	–	–	–	–	■ 1000	■ 1000	–	–	–	68
	30	G3/8	–	–	–	–	–	■ 1600	■ 1600	–	–	–	78
3/2-way valve VUVS-LT													
	20	G1/8	■ 600	■ 600	–	–	–	–	–	–	–	–	88
	25	G1/4	■ 1000	■ 1000	–	–	–	–	–	–	–	–	100
	30	G3/8	■ 1600	■ 1600	–	–	–	–	–	–	–	–	125
2x 3/2-way valve VUVS-LT													
	20	G1/8	–	–	■ 600	■ 600	■ 600	–	–	–	–	–	88
	25	G1/4	–	–	■ 1000	■ 1000	■ 1000	–	–	–	–	–	100
	30	G3/8	–	–	■ 1600	■ 1600	■ 1600	–	–	–	–	–	126
5/2-way valve VUVS-LT													
	20	G1/8	–	–	–	–	–	■ 500	■ 500	–	–	–	88
	25	G1/4	–	–	–	–	–	■ 1000	■ 1000	–	–	–	100
	30	G3/8	–	–	–	–	–	■ 1800	■ 1800	–	–	–	127

Product range overview

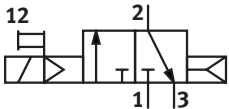
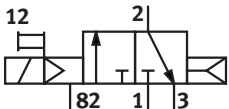
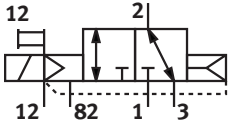
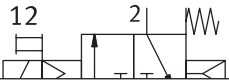
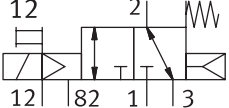
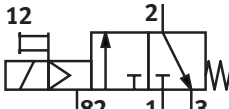
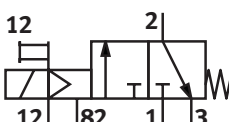
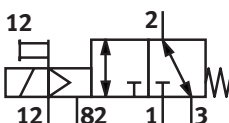
Valve	Size	Working port	Order code for valves and flow rate [l/min]										→ Page/In- ternet
			M32C	M32U	T32C	T32U	T32H	M52	B52	P53C	P53U	P53E	
3/2-way valve VUVS-L													
	20	G1/8	■ 700	■ 700	—	—	—	—	—	—	—	—	132
	25	G1/4	■ 1000	■ 1000	—	—	—	—	—	—	—	—	147
	30	G3/8	■ 2300	■ 2300	—	—	—	—	—	—	—	—	165
5/2-way valve VUVS-L													
	20	G1/8	—	—	—	—	—	■ 700	■ 700	—	—	—	132
	25	G1/4	—	—	—	—	—	■ 1300	■ 1300	—	—	—	147
	30	G3/8	—	—	—	—	—	■ 2300	■ 2300	—	—	—	165
5/3-way valve VUVS-L													
	20	G1/8	—	—	—	—	—	—	—	■ 700	■ 600	■ 600	132
	25	G1/4	—	—	—	—	—	—	—	■ 1200	■ 1000	■ 1000	147
	30	G3/8	—	—	—	—	—	—	—	■ 2000	■ 1600	■ 1600	165

Product range overview

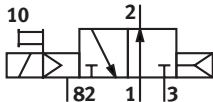
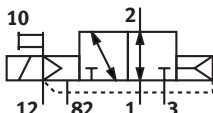
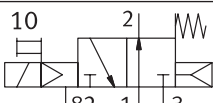
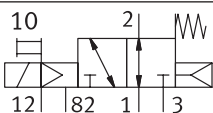
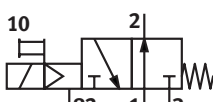
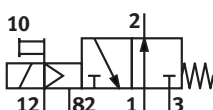
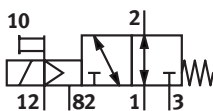
Design	Size	Description	→ Page/Internet
Manifold block for 3/2-way valves, standard			
	20	VABM-B10-20E-G38- ... P3	Connection size G3/8 183
	25	VABM-B10-25E-G12- ... P3	Connection size G1/2 196
	30	VABM-B10-30E-G34- ... P3	Connection size G3/4 209
Manifold block extension module for 3/2-way valves, standard			
	20	VABM-B10-20EEE-G38- ... P3	Connection size G3/8 183
	25	VABM-B10-25EEE-G12- ... P3	Connection size G1/2 196
	30	VABM-B10-30EEE-G34- ... P3	Connection size G3/4 209
Manifold block for 5/2- and 5/3-way valves, standard			
	20	VABM-B10-20E-G38- ...	Connection size G3/8 183
	25	VABM-B10-25E-G12- ...	Connection size G1/2 196
	30	VABM-B10-30E-G34- ...	Connection size G3/4 209
Manifold block extension module for 5/2- and 5/3-way valves, standard			
	20	VABM-B10-20EEE-G38- ...	Connection size G3/8 183
	25	VABM-B10-25EEE-G12- ...	Connection size G1/2 196
	30	VABM-B10-30EEE-G34- ...	Connection size G3/4 209

Design	Size	Description	→ Page/Internet
Manifold block for 3/2-way valves, compact			
	20	VABM-B10-20S-G14- ... P3	Connection size G1/4 183
	25	VABM-B10-25S-G38- ... P3	Connection size G3/8 196
	30	VABM-B10-30S-G12- ... P3	Connection size G1/2 209
Manifold block for 5/2- and 5/3-way valves, compact			
	20	VABM-B10-20S-G14- ...	Connection size G1/4 183
	25	VABM-B10-25S-G38- ...	Connection size G3/8 196
	30	VABM-B10-30S-G12- ...	Connection size G1/2 209
Common supply manifold, for mounting on both sides			
	20	VABM-B10-20-G38- ... P53	Connection size G3/8 183
	25	VABM-B10-25-G12- ... P53	Connection size G1/2 196
	30	VABM-B10-30-G34- ... P53	Connection size G3/4 209
Common supply manifold, for mounting on one side			
	20	VABM-B10-20-G38- ... P53-E	Connection size G3/8 183
	25	VABM-B10-25-G12- ... P53-E	Connection size G1/2 196
	30	VABM-B10-30-G34- ... P53-E	Connection size G3/4 209

Overview of valve functions

Valve	Order code for valves	Description	VUVS-LK			VUVS-LT			VUVS-L		
			Size			Size			Size		
			20	25	30	20	25	30	20	25	30
3/2-way valve, normally closed, pneumatic spring											
	M32C-A	Internal pilot air supply, not reversible	■	■	■	–	–	–	–	–	–
		Internal pilot air supply, not reversible	–	–	–	–	–	–	■	■	■
		External pilot air supply, reversible	–	–	–	–	–	–	■	■	■
3/2-way valve, normally closed, pneumatic/mechanical spring											
	M32C-M	• Internal pilot air supply, not reversible • Reset: mechanical spring, supported internally by pneumatic spring	–	–	–	–	–	–	■	–	–
		• External pilot air supply, reversible • Reset: mechanical spring, supported internally by pneumatic spring	–	–	–	–	–	–	■	–	–
3/2-way valve, normally closed, mechanical spring											
	M32C-M	Internal pilot air supply, not reversible	–	–	–	■	■	■	–	■	■
		External pilot air supply, not reversible	–	–	–	■	■	■	–	–	–
		External pilot air supply, reversible	–	–	–	–	–	–	–	■	■

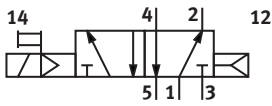
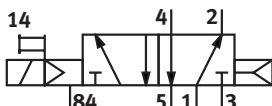
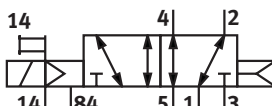
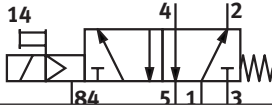
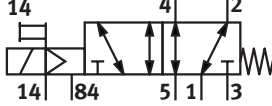
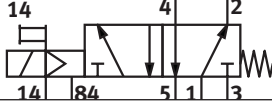
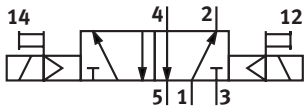
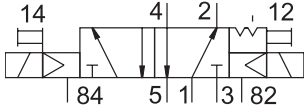
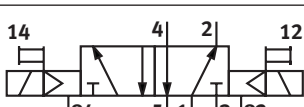
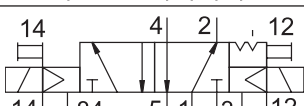
Overview of valve functions

Valve	Order code for valves	Description	VUVS-LK			VUVS-LT			VUVS-L		
			Size			Size			Size		
			20	25	30	20	25	30	20	25	30
3/2-way valve, normally open, pneumatic spring											
	M32U-A	Internal pilot air supply, not reversible	-	-	-	-	-	-	■	■	■
		External pilot air supply, reversible	-	-	-	-	-	-	■	■	■
3/2-way valve, normally open, pneumatic/mechanical spring											
	M32U-M	- External pilot air supply, reversible - Reset: mechanical spring, supported internally by pneumatic spring	-	-	-	-	-	-	■	-	-
		- External pilot air supply, reversible - Reset: mechanical spring, supported internally by pneumatic spring	-	-	-	-	-	-	■	-	-
3/2-way valve, normally open, mechanical spring											
	M32U-M	Internal pilot air supply, not reversible	-	-	-	■	■	■	-	■	■
		External pilot air supply, not reversible	-	-	-	■	■	■	-	-	-
		External pilot air supply, reversible	-	-	-	-	-	-	-	■	■

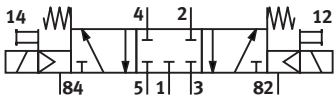
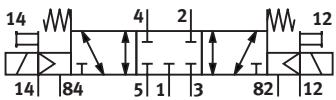
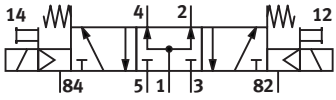
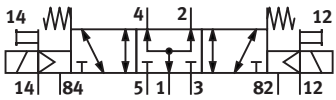
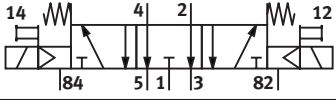
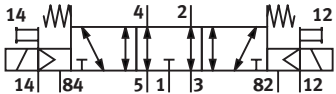
Overview of valve functions

Valve	Order code for valves	Description	VUVS-LK			VUVS-LT			VUVS-L		
			Size			Size			Size		
			20	25	30	20	25	30	20	25	30
2x 3/2-way valve, normally closed, mechanical spring											
	T32C	Internal pilot air supply, not reversible	–	–	–	■	■	■	–	–	–
	T32C	External pilot air supply, not reversible	–	–	–	■	■	■	–	–	–
2x 3/2-way valve, normally open, mechanical spring											
	T32U	Internal pilot air supply, not reversible	–	–	–	■	■	■	–	–	–
	T32U	External pilot air supply, not reversible	–	–	–	■	■	■	–	–	–
2x 3/2-way valve, 1x normally open, 1x normally closed, mechanical spring											
	T32H	Internal pilot air supply, not reversible	–	–	–	■	■	■	–	–	–
	T32H	External pilot air supply, not reversible	–	–	–	■	■	■	–	–	–

Overview of valve functions

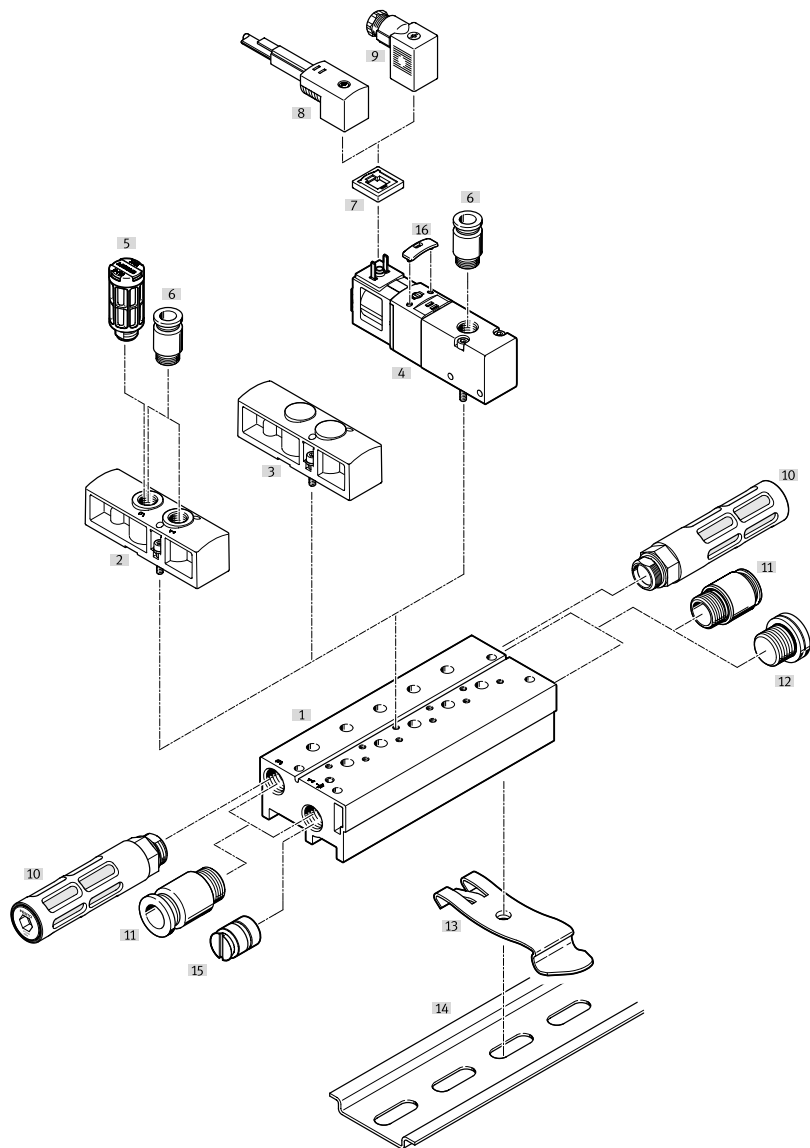
Valve	Order code for valves	Description	VUVS-LK			VUVS-LT			VUVS-L		
			Size			Size			Size		
			20	25	30	20	25	30	20	25	30
5/2-way valve, single solenoid, pneumatic spring											
	M52	Internal pilot air supply, not reversible	■	■	■	–	–	–	–	–	–
		Internal pilot air supply, not reversible	–	–	–	–	–	–	■	■	■
		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	–	–	–	–	–	–	■	■	■
		External pilot air supply, not reversible	–	–	–	■	■	■	–	–	–
5/2-way valve, double solenoid											
	B52	Internal pilot air supply, not reversible	■	■	■	–	–	–	–	–	–
		- Internal pilot air supply, not reversible - Holding the switching position using a latch	–	–	–	–	■	–	–	–	–
		Internal pilot air supply, not reversible	–	–	–	■	–	■	■	■	■
		- External pilot air supply, not reversible - Holding the switching position using a latch	–	–	–	■	■	■	–	–	–
		External pilot air supply, reversible	–	–	–	–	–	–	■	■	■

Overview of valve functions

Valve	Order code for valves	Description	VUVS-L		
			Size		
			20	25	30
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	■	■	■

Peripherals overview VUVS-LK

Manifold block for 3/2-way valves

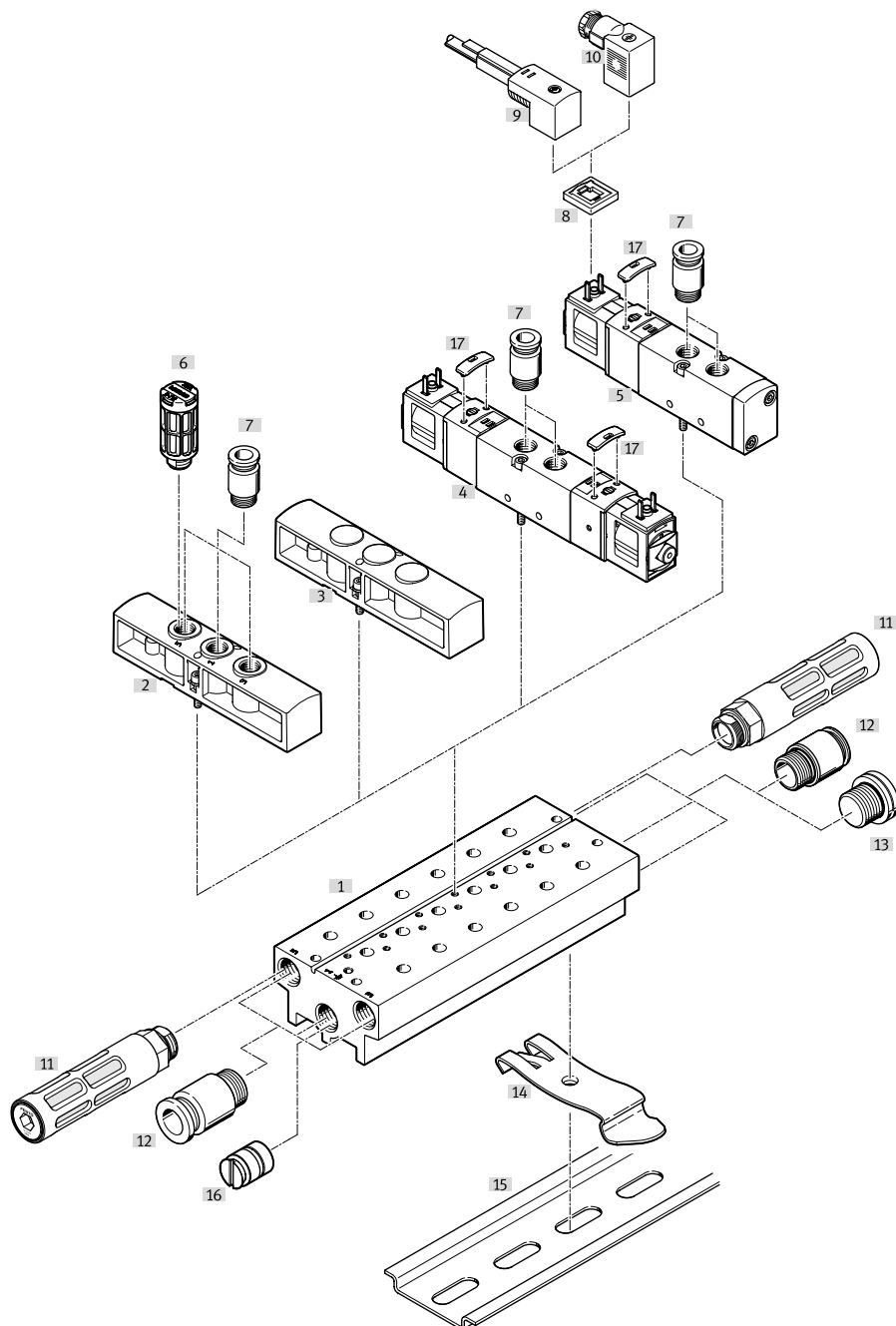


Peripherals overview VUVS-LK

Designation	Description	→ Page/Internet
[1] Compact manifold block	For 3/2-way valves, no port for external pilot air supply	191
[2] Supply plate	For additional air supply and exhaust via a valve position	193
[3] Cover plate	For covering vacant valve positions	193
[4] Solenoid valve	3/2-way valve, with solenoid coil	57
[5] Silencer	For port 3, exhaust	195
[6] Push-in fitting	For ports 1 and 3, supply and exhaust ports with supply plate, for port 2, working port, on the valve	194
[7] Illuminating seal	For indicating the switching status	66
[8] Plug socket with cable	For solenoid valves VUVS	66
[9] Plug socket	For solenoid valves VUVS	66
[10] Silencer	For port 3, exhaust	195
[11] Push-in fitting	For ports 1 and 3, supply and exhaust ports	194
[12] Blanking plug	For ports 1 and 3, supply and exhaust ports	195
[13] DIN rail mounting	For DIN rail mounting	195
[14] DIN rail	–	–
[15] Separator	For creating pressure zones in ports 1 and 3	195
[16] Cover cap	For manual override, non-detenting or covered	76

Peripherals overview VUVS-LK

Manifold block for 5/2-way valves



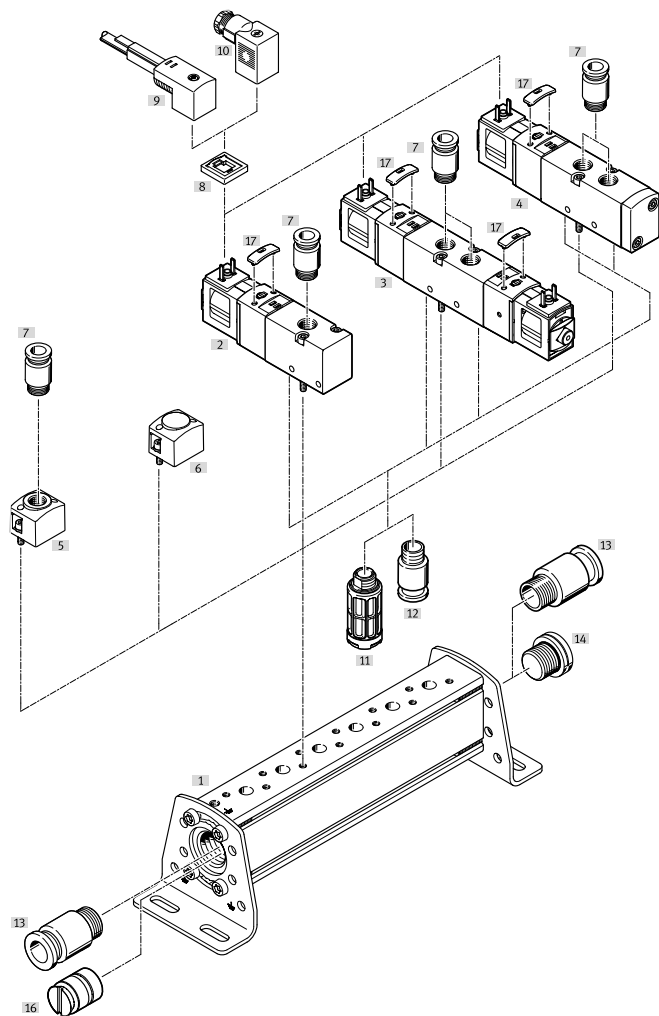
Designation	Description	→ Page/Internet
[1] Compact manifold block	For 5/2-way valves, no port for external pilot air supply	191
[2] Supply plate	For additional air supply and exhaust via a valve position	193
[3] Cover plate	For covering vacant valve positions	193
[4] Solenoid valve	5/2-way double solenoid valve, with solenoid coil	57
[5] Solenoid valve	5/2-way single solenoid valve, with solenoid coil	57
[6] Silencer	For ports 3 and 5, exhaust	195
[7] 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	194
[8] Illuminating seal	For indicating the switching status	66

Peripherals overview VUVS-LK

Designation	Description	→ Page/Internet
[9] Plug socket with cable	For solenoid valves VUVS	66
[10] Plug socket	For solenoid valves VUVS	66
[11] Silencer	For ports 3 and 5, exhaust	195
[12] Push-in fitting	For ports 1, 3 and 5, supply and exhaust ports	194
[13] Blanking plug	For ports 1, 3 and 5, supply and exhaust ports	195
[14] DIN rail mounting	For DIN rail mounting	195
[15] DIN rail	–	–
[16] Separator	For creating pressure zones in ports 1, 3 and 5	195
[17] Cover cap	For manual override, non-detenting or covered	76

Peripherals overview VUVS-LK

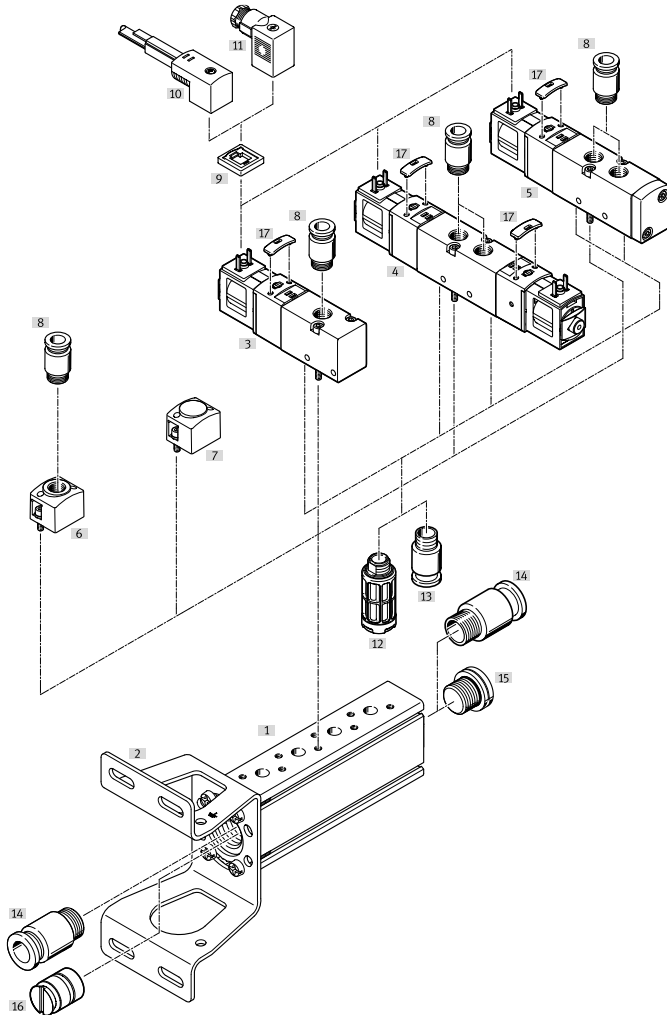
Common supply manifold for mounting on both sides



Designation	Description	→ Page/Internet
[1] Common supply manifold	–	192
[2] Solenoid valve	3/2-way valve, with solenoid coil	57
[3] Solenoid valve	5/3-way valve and 5/2-way double solenoid valve, with solenoid coil 2x 3/2-way valve, with solenoid coil	57
[4] Solenoid valve	5/2-way single solenoid valve, with solenoid coil	57
[5] Supply plate	For additional air supply via a valve position	193
[6] Cover plate	For covering vacant valve positions	193
[7] Push-in fitting	For port 1, working port	194
[8] Illuminating seal	For indicating the switching status	66
[9] Plug socket with cable	For solenoid valves VUVS	66
[10] Plug socket	For solenoid valves VUVS	66
[11] Silencer	For ports 3 and 5, exhaust, on the valve	195
[12] Push-in fitting	For ports 3 and 5, exhaust, on the valve	194
[13] Push-in fitting	For port 1, supply port	194
[14] Blanking plug	For port 1, supply port	195
[16] Separator	For creating pressure zones	195
[17] Cover cap	For manual override, non-detenting or covered	76

Peripherals overview VUVS-LK

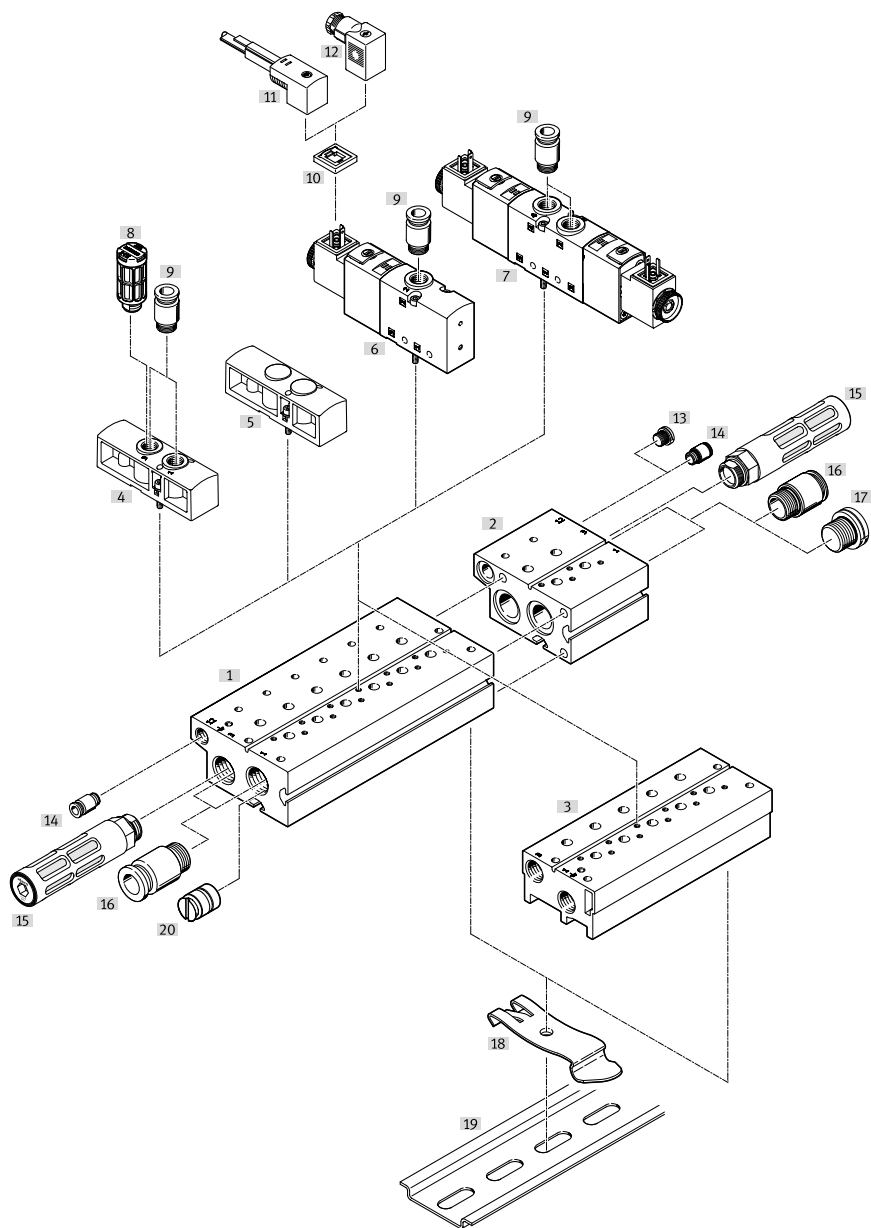
Common supply manifold for mounting on one side



Designation	Description	→ Page/Internet
[1] Common supply manifold	–	192
[2] Mounting bracket	–	–
[3] Solenoid valve	3/2-way valve, with solenoid coil	65
[4] Solenoid valve	5/2-way double solenoid valve, with solenoid coil	57
[5] Solenoid valve	5/2-way single solenoid valve, with solenoid coil	57
[6] Supply plate	For additional air supply via a valve position	193
[7] Cover plate	For covering vacant valve positions	193
[8] Push-in fitting	For port 1, supply port For ports 2 and 4, working port	194
[9] Illuminating seal	For indicating the switching status	66
[10] Plug socket with cable	For solenoid valves VUVS	66
[11] Plug socket	For solenoid valves VUVS	66
[12] Silencer	For ports 3 and 5, exhaust, on the valve	195
[13] Push-in fitting	For ports 3 and 5, on the valve	194
[14] Push-in fitting	For port 1, supply port	194
[15] Blanking plug	For port 1, supply port	195
[16] Separator	For creating pressure zones	195
[17] Cover cap	For manual override, non-detenting or covered	76

Peripherals overview VUVS-LT, VUVS-L

Manifold block for 3/2-way valves



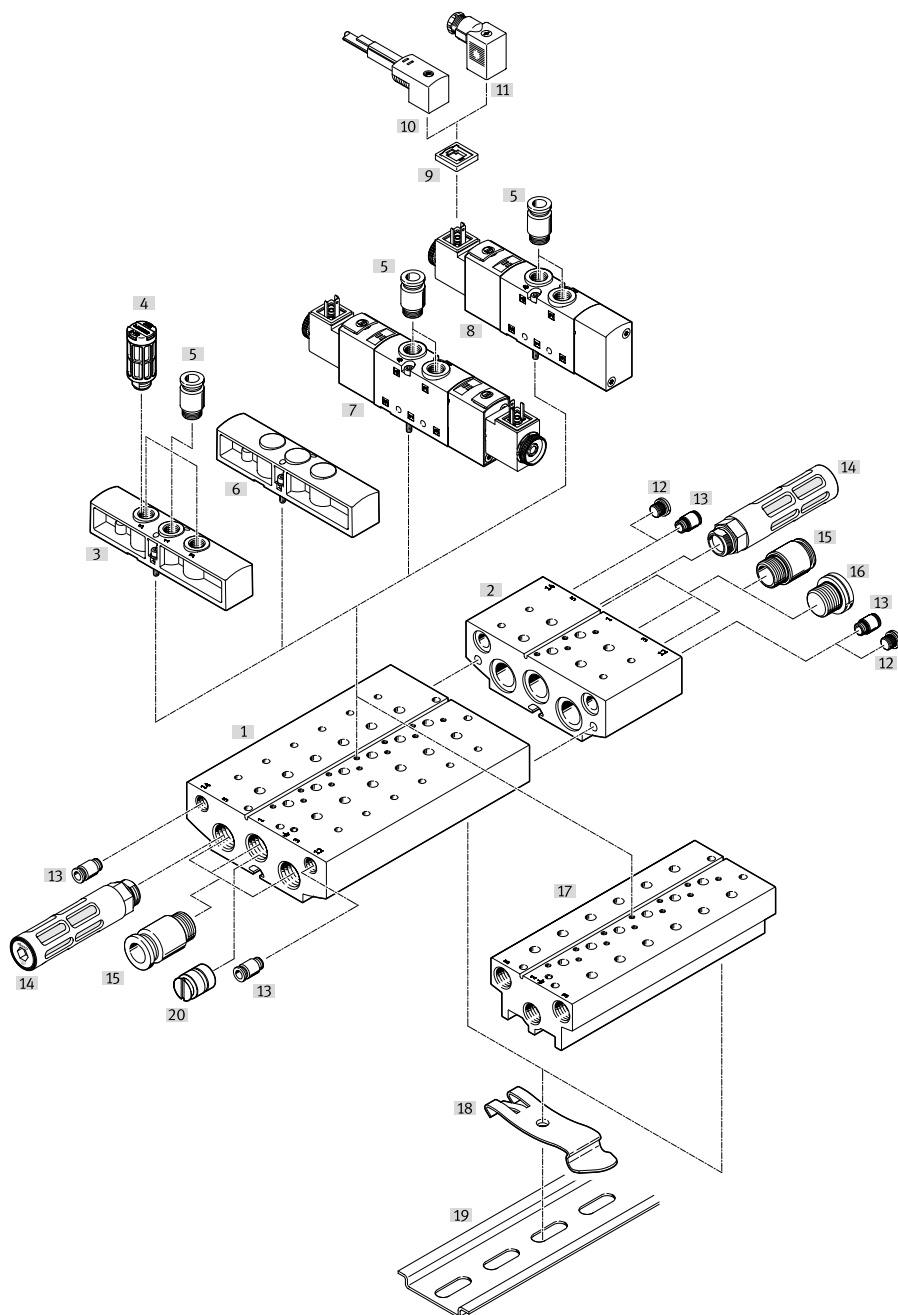
Designation	Description	→ Page/Internet
[1] Standard manifold block	For 3/2-way valves, with port 10/12 for external pilot air supply	191
[2] Extension module	For standard manifold block, with port 10/12 for external pilot air supply	191
[3] Compact manifold block	For 3/2-way valves, no port for external pilot air supply	191
[4] Supply plate	For additional air supply and exhaust via a valve position	193
[5] Cover plate	For covering vacant valve positions	193
[6] Solenoid valve	3/2-way valve, with solenoid coil	57
[7] Solenoid valve	2x 3/2-way valve, with solenoid coil	57
[8] Silencer	For port 3, exhaust	195
[9] Push-in fitting	For ports 1 and 3, supply and exhaust ports with supply plate, for port 2, working port, on the valve	194
[10] Illuminating seal	For indicating the switching status	144
[11] Plug socket with cable	For solenoid valves VUVS	144
[12] Plug socket	For solenoid valves VUVS	66
[13] Blanking plug	For port 10/12, external pilot air supply, for standard manifold block only	195
[14] Push-in fitting	For port 10/12, external pilot air supply, for standard manifold block only	194

Peripherals overview VUVS-LT, VUVS-L

Designation	Description	→ Page/Internet
[15] Silencer	For port 3, exhaust	195
[16] Push-in fitting	For ports 1 and 3, supply and exhaust ports	194
[17] Blanking plug	For ports 1 and 3, supply and exhaust ports	195
[18] DIN rail mounting	For DIN rail mounting	195
[19] DIN rail	—	—
[20] Separator	For creating pressure zones in ports 1 and 3	195

Peripherals overview VUVS-LT, VUVS-L

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



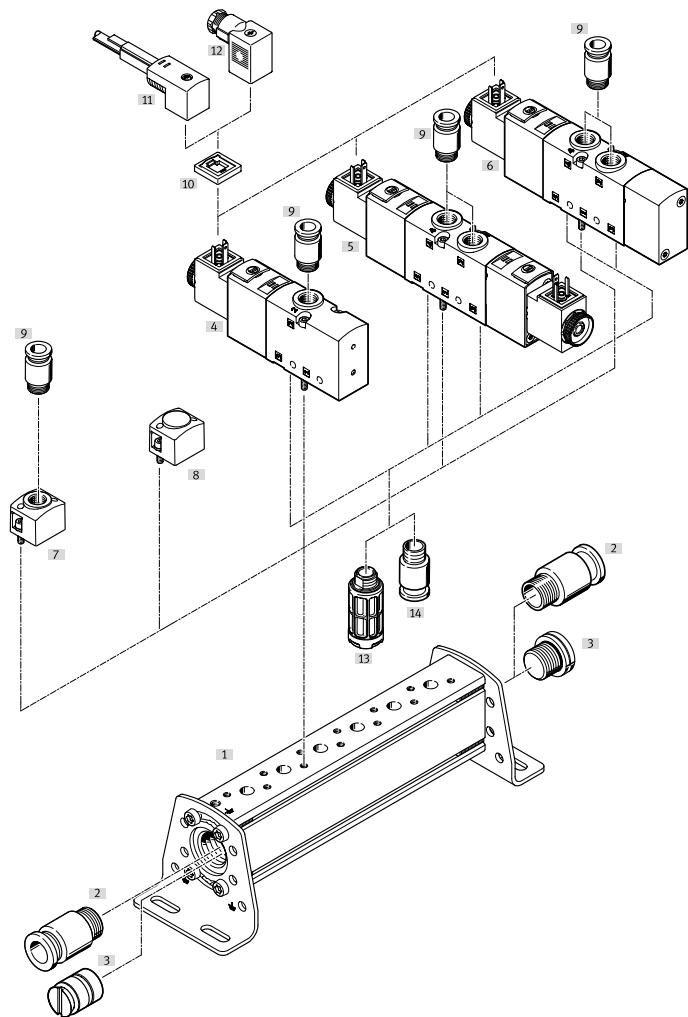
Designation	Description	→ Page/Internet
[1] Standard manifold block	For 5/2- and 5/3-way valves, with ports 12 and 14 for external pilot air supply	191
[2] Extension module	For standard manifold block, with ports 12 and 14 for external pilot air supply	191
[3] Supply plate	For additional air supply and exhaust via a valve position	193
[4] Silencer	For ports 3 and 5, exhaust	195
[5] 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	194
[6] Cover plate	For covering vacant valve positions	193
[7] Solenoid valve	5/3-way valve and 5/2-way double solenoid valve, with solenoid coil	57
[8] Solenoid valve	5/2-way single solenoid valve, with solenoid coil	57
[9] Illuminating seal	For indicating the switching status	144
[10] Plug socket with cable	For solenoid valves VUVS	144
[11] Plug socket	For solenoid valves VUVS	66
[12] Blanking plug	For ports 12 and 14, external pilot air supply, for standard manifold block only	195

Peripherals overview VUVS-LT, VUVS-L

Designation	Description	→ Page/Internet
[13] Push-in fitting	For ports 12 and 14, external pilot air supply, for standard manifold block only	194
[14] Silencer	For ports 3 and 5, exhaust	195
[15] Push-in fitting	For ports 1, 3 and 5, supply and exhaust ports	194
[16] Blanking plug	For ports 1, 3 and 5, supply and exhaust ports	195
[17] Compact manifold block	For 5/2- and 5/3-way valves, no port for external pilot air supply	191
[18] DIN rail mounting	For DIN rail mounting	195
[19] DIN rail	–	–
[20] Separator	For creating pressure zones in ports 1, 3 and 5	195

Peripherals overview VUVS-LT, VUVS-L

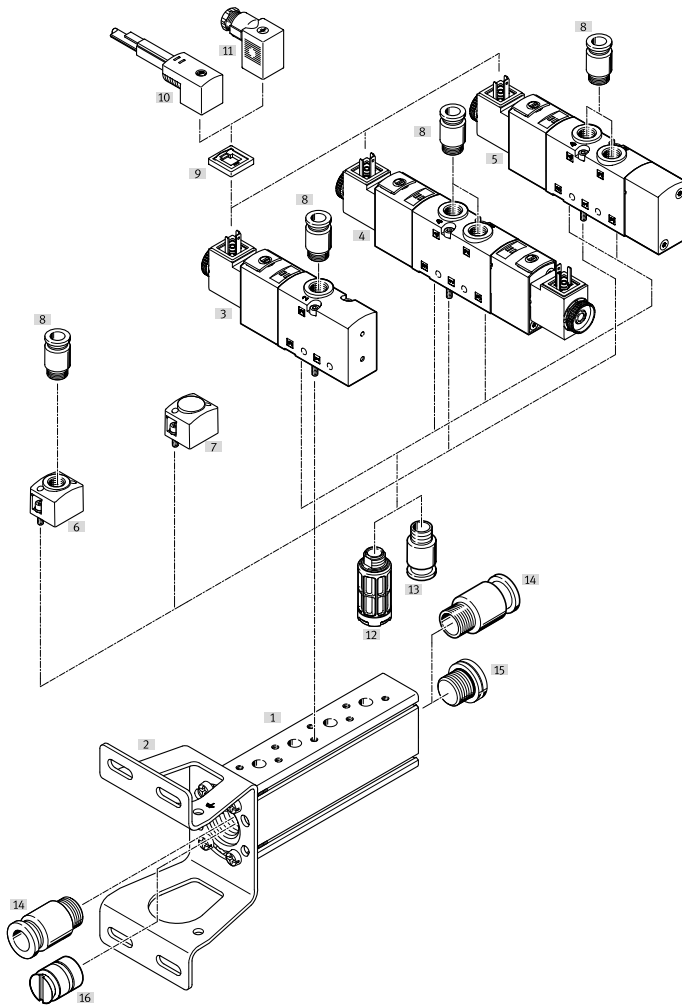
Common supply manifold for mounting on both sides



Designation	Description	→ Page/Internet
[1] Common supply manifold	–	192
[2] Push-in fitting	For port 1, supply port	194
[3] Separator	For creating pressure zones	195
[4] Solenoid valve	3/2-way valve, with solenoid coil	57
[5] Solenoid valve	5/3-way valve and 5/2-way double solenoid valve, with solenoid coil 2x 3/2-way valve, with solenoid coil	57
[6] Solenoid valve	5/2-way single solenoid valve, with solenoid coil	57
[7] Supply plate	For additional air supply via a valve position	193
[8] Cover plate	For covering vacant valve positions	193
[9] Push-in fitting	For port 1 For ports 2, 4, working port	194
[10] Illuminating seal	For indicating the switching status	144
[11] Plug socket with cable	For solenoid valves VUVS	144
[12] Plug socket	For solenoid valves VUVS	66
[13] Silencer	For ports 3 and 5, exhaust, on the valve	195
[14] Push-in fitting	For ports 3 and 5, exhaust, on the valve	194

Peripherals overview VUVS-LT, VUVS-L

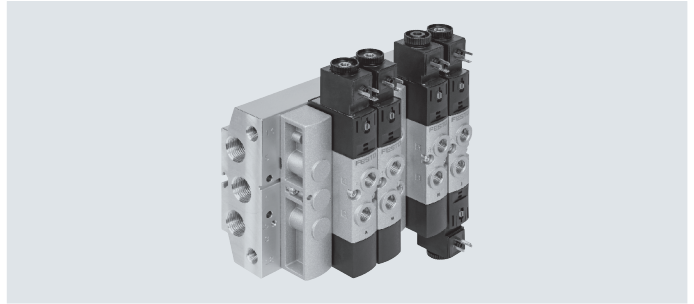
Common supply manifold for mounting on one side



Designation	Description	→ Page/Internet
[1] Common supply manifold	–	192
[2] Mounting bracket	–	–
[3] Solenoid valve	3/2-way valve, with solenoid coil	57
[4] Solenoid valve	5/3-way valve and 5/2-way double solenoid valve, with solenoid coil 2x 3/2-way valve, with solenoid coil	57
[5] Solenoid valve	5/2-way single solenoid valve, with solenoid coil	57
[6] Supply plate	For additional air supply via a valve position	193
[7] Cover plate	For covering vacant valve positions	193
[8] Push-in fitting	For port 1, supply port For ports 2 and 4, working port	194
[9] Illuminating seal	For indicating the switching status	144
[10] Plug socket with cable	For solenoid valves VUVS	144
[11] Plug socket	For solenoid valves VUVS	66
[12] Silencer	For ports 3 and 5, exhaust, on the valve	195
[13] Push-in fitting	For ports 3 and 5, on the valve	194
[14] Push-in fitting	For port 1, supply port	194
[15] Blanking plug	For port 1, supply port	195
[16] Separator	For creating pressure zones	195

Datasheet – Valve manifold assembly

-  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 design		Fixed grid		
Valve width [mm]		21	26.5	31
Valve design	VUVS-L	Piston spool with sealing cartridge		
	VUVS-LT	Poppet seat		
	VUVS-LK	Piston spool with sealing ring		
Electrical control		Individual connection		
Reset method for valves	VUVS-L	Pneumatic or mechanical spring		
	VUVS-LT	Mechanical spring		
	VUVS-LK	Pneumatic spring		
Pilot air supply		Internal or external		
Flow direction	VUVS-L	Reversible with restrictions		
	VUVS-LT	Not reversible		
	VUVS-LK	Not reversible		
Suitable for vacuum	VUVS-L	Yes, with external pilot air supply		
	VUVS-LT	Yes, with external pilot air supply (not for valves M52/B52)		No
	VUVS-LK	No		
Overlap	VUVS-L	Positive overlap		
	VUVS-LT	Negative overlap		
	VUVS-LK	Positive overlap		
Sealing principle		Soft		
Max. number 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		Can be throttled		
Actuation type		Electrical		
Nominal operating voltage [V DC]		12, 24		
[V AC]		24, 110, 120, 230, 240		
Standard nominal flow rate qnN [l/min]		500 ... 700	1000 ... 1300	1600 ... 2300
Pilot air connection	Standard manifold block	1 2/14	G1/8	G1/8
	Compact manifold block	1 2/14	On the valve	On the valve
	Common supply manifold	1 2/14	On the valve	On the valve
Pilot exhaust air port		8 2/84	M5	
Mounting position		Any		
Degree of protection		IP65, IP67		
		With plug socket, to IEC 60529		
Permissible voltage fluctuations [%]		± 10		

Datasheet – Valve manifold assembly

Materials			
Seals	VUVS-L	HNBR, NBR	
	VUVS-LT	HNBR, NBR, TPE-U(PU)	
	VUVS-LK	HNBR, NBR	
Note on materials		RoHS-compliant	

ATEX			
Size	20	25	30
ATEX category for gas	II 3G		
Type of ignition protection for gas	Ex ec IIIC T4 Gc X		
ATEX category for dust	II 3D		
Type of ignition protection for dust	Ex tc IIIC T115°C Dc X	Ex mb IIIC T80°C Db	Ex tc IIIC T115°C Dc X
Explosion-proof ambient temperature [°C]	-10 ≤ Ta ≤ +50		
CE marking (see declaration of conformity) ¹⁾	To EU Explosion Protection Directive (ATEX)		
UKCA marking (see declaration of conformity) ¹⁾	To UK explosion regulations		
Explosion protection certification outside the EU	EPL Dc (GB)		
	EPL Gc (GB)		
Certificate-issuing authority	–	DNV 15.0189X/02	–

1) For information about the area of use, see the declaration of conformity at: www.festo.com/catalogue/... → Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

Operating and environmental conditions			
Valve design		Piston spool	Poppet seat
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]	
Pilot medium		Compressed air to ISO 8573-1:2010 [7:4:4]	
Note on the operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)	
Cleanroom class		ISO class 6	
Operating pressure With external pilot air	[MPa]	−00.9 ... +1	−0.09 ... +1 (M32, T32) +0.15 ... +1 (B52) +0.25 ... +1 (M52)
	[bar]	−0.9 ... +10	−0.9 ... +10 (M32, T32) +1.5 ... +10 (B52) +2.5 ... +10 (M52)
With internal pilot air	[MPa]	+0.15 ... +1 +0.25 ... +1 (M32...-A, M32...-M, M52-A)	+0.15 ... +1 (B52) +0.25 ... +1 (M52, M32, T32)
	[bar]	+1.5 ... +10 +2.5 ... +10 (M32...-A, M32...-M, M52-A)	+1.5 ... +10 (B52) +2.5 ... +10 (M52, M32, T32)
Pilot pressure	[MPa]	+0.15 ...+1 (B52) +0.25 ...+1	+0.15 ...+1 (B52) +0.25 ...+1 (M52, M32, T32)
	[bar]	+1.5 ...+10 (B52) +2.5 ...+10	+1.5 ...+10 (B52) +2.5 ...+10 (M52, M32, T32)
Ambient temperature	[°C]	−10 ... +60	−5 ... +60 (M32, T32) −10 ... +60 (B52, M52)
Temperature of medium	[°C]	−10 ... +60	−5 ... +60 (M32, T32) −10 ... +60 (B52, M52)
Certification		c UL us - Recognized (OL)	
Corrosion resistance class CRC ¹⁾		2	

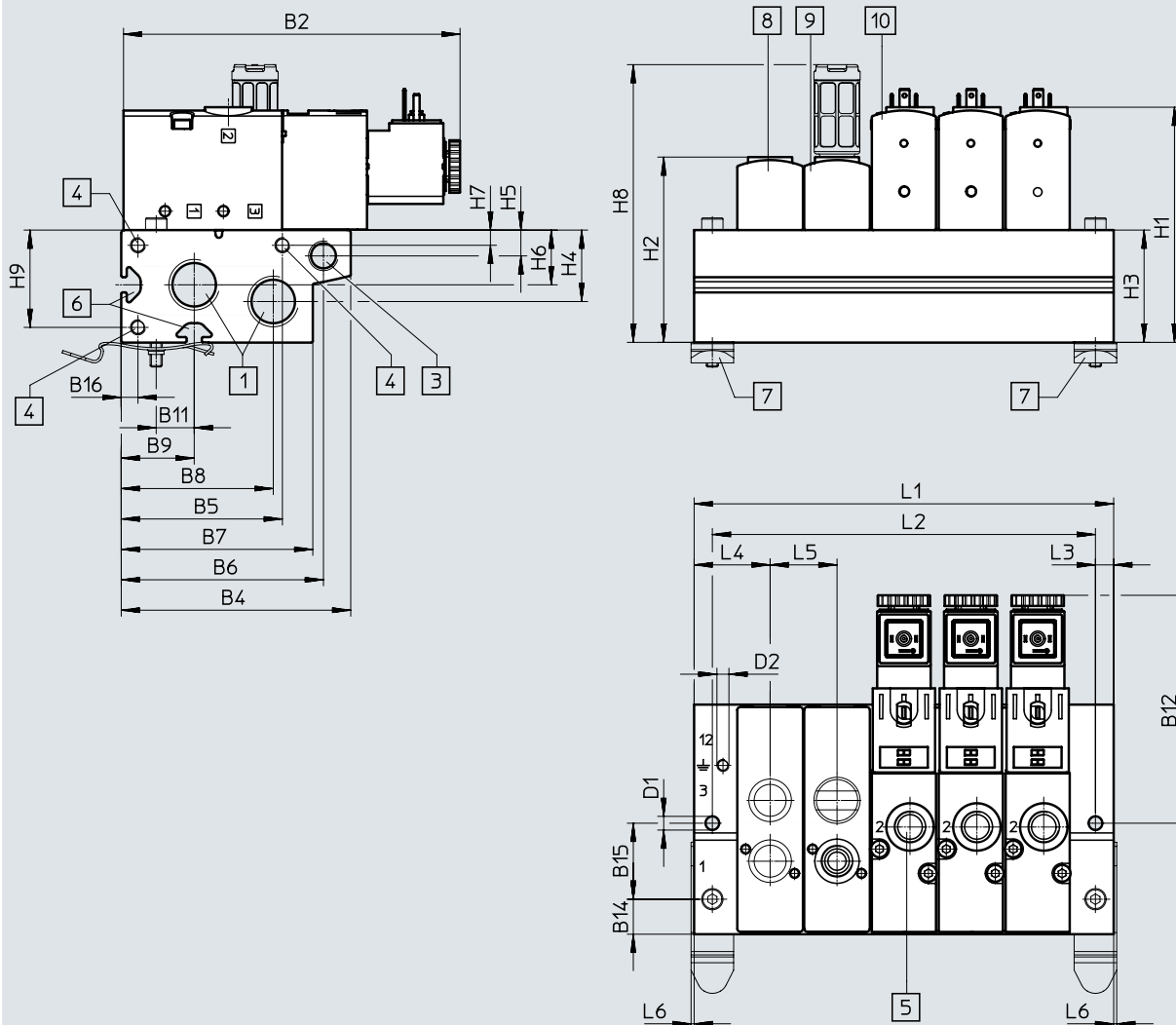
1) More information www.festo.com/x/topic/crc

Datasheet – Valve manifold assembly

Dimensions – Valve manifold assembly

Download CAD data → www.festo.com

With 3/2-way valves, standard manifold block



- | | | | |
|--|--|--|---|
| [1] Port 1 and 3
(on both sides):
G3/8 for VTUS-20
G1/2 for VTUS-25
G3/4 for VTUS-30 | [4] Thread for extension module:
M5x15.5 for VTUS-20
M5x18 for VTUS-25 and VTUS-30 | [6] Profile slot IPM-05 system 5 for VTUS-20 and VTUS-25, profile slot IPM-08 system 8 for VTUS-30 | [9] Supply plate, port 1 and 3:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30 |
| [3] Port 12 (on both sides): G1/8 for VTUS-20, VTUS-25 and VTUS-30 | [5] Port 2:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30 | [7] DIN rail mounting VAME-T-M4 for VTUS-20
VAME-T-M5 for VTUS-25
VAME-T-M6 for VTUS-30 | [10] 3/2-way valve |
| | | [8] Cover plate | |

Datasheet – Valve manifold assembly

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	–

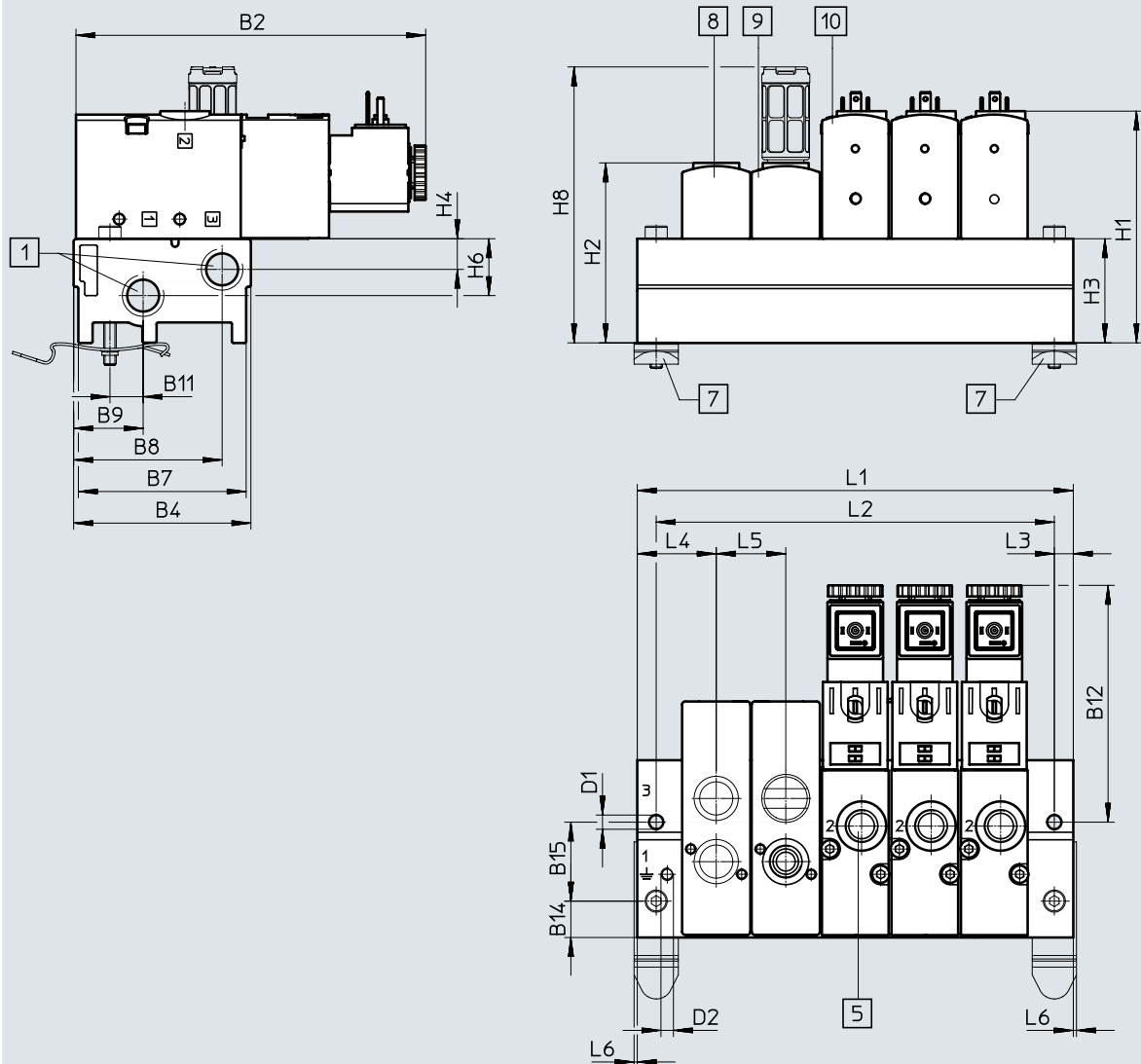
Type	Valve positions	2	3	4	5	6	7	8	9	10
VTUS-20	L1	72	94	116	138	160	182	204	226	248
	L2	60	82	104	126	148	170	192	214	236
VTUS-25	L1	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2	75	102.5	130	157.5	185	212.5	240	267.5	295
VTUS-30	L1	100	132	164	196	228	260	292	324	356
	L2	85	117	149	181	213	245	277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

Datasheet – Valve manifold assembly

Dimensions – Valve manifold assembly

Download CAD data → www.festo.com

With 3/2-way valves, compact manifold block



[1] Port 1 and 3
(on both sides):
G1/4 for VTUS-20
G3/8 for VTUS-25
G1/2 for VTUS-30

[5] Port 2:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30

[7] DIN rail mounting VAME-T-M4 for
VTUS-20
VAME-T-M5 for VTUS-25
VAME-T-M6 for VTUS-30
[8] Cover plate

[9] Supply plate,
port 1 and 3:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30
[10] 3/2-way valve

Datasheet – Valve manifold assembly

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	34	32	–

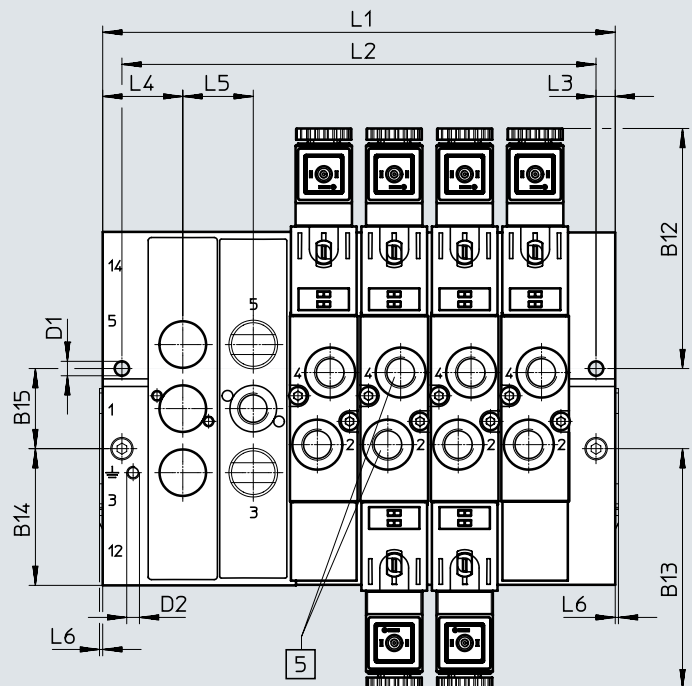
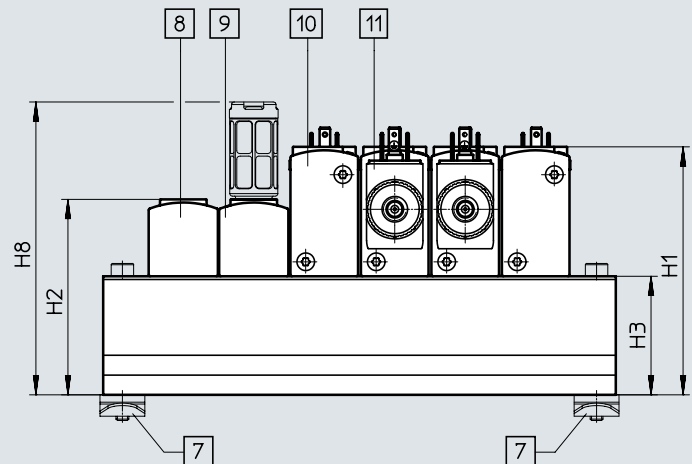
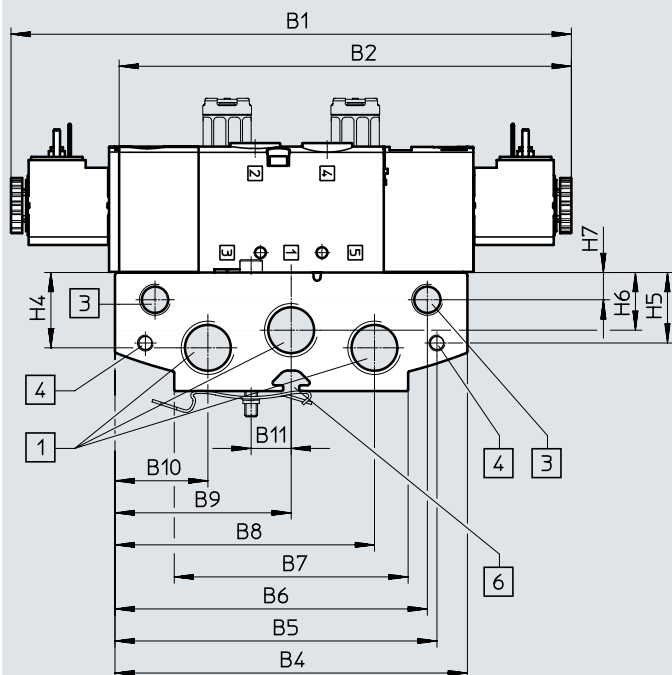
Type	Valve positions	2	3	4	5	6	7	8	9	10
VTUS-20	L1	72	94	116	138	160	182	204	226	248
	L2	60	82	104	126	148	170	192	214	236
VTUS-25	L1	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2	75	102.5	130	157.5	185	212.5	240	267.5	295
VTUS-30	L1	100	132	164	196	228	260	292	324	356
	L2	85	117	149	181	213	245	277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

Datasheet – Valve manifold assembly

Dimensions – Valve manifold assembly

Download CAD data → www.festo.com

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



- | | | | |
|---|--|---|--|
| [1] Port 1, 3 and 5
(on both sides):
G3/8 for VTUS-20
G1/2 for VTUS-25
G3/4 for VTUS-30 | [4] Thread for extension module:
M5x15.5 for VTUS-20
M5x18 for VTUS-25 and VTUS-30 | [7] DIN rail mounting VAME-T-M4 for VTUS-20
VAME-T-M5 for VTUS-25
VAME-T-M6 for VTUS-30 | [10] 5/2-way valve, single solenoid |
| [3] Port 12 and 14
(on both sides):
G1/8 for VTUS-20, VTUS-25 and VTUS-30 | [5] Port 2 and 4:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30 | [8] Cover plate | [11] 5/2-way double solenoid valve
or 5/3-way valve or 2x 3/2-way valve |
| | [6] Profile slot IPM-05 system 5 | [9] Supply plate.
Port 1, 3 and 5:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30 | |

Datasheet – Valve manifold assembly

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	–

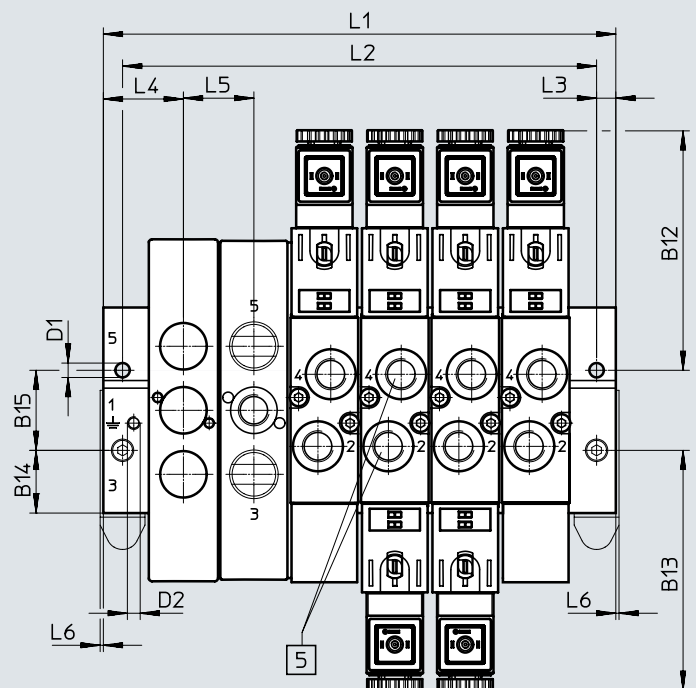
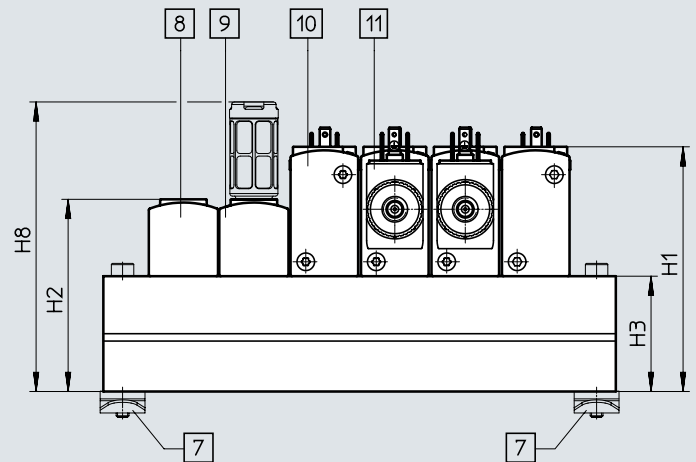
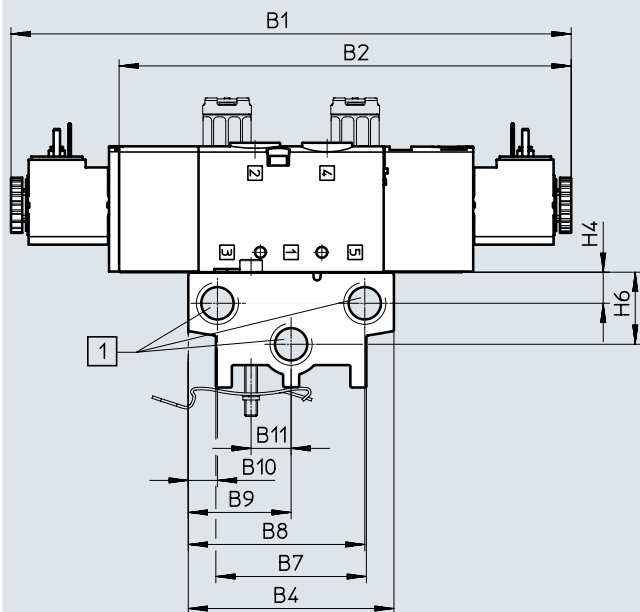
Type	Valve positions	2	3	4	5	6	7	8	9	10
VTUS-20	L1	72	94	116	138	160	182	204	226	248
	L2	60	82	104	126	148	170	192	214	236
VTUS-25	L1	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2	75	102.5	130	157.5	185	212.5	240	267.5	295
VTUS-30	L1	100	132	164	196	228	260	292	324	356
	L2	85	117	149	181	213	245	277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

Datasheet – Valve manifold assembly

Dimensions – Valve manifold assembly

Download CAD data → www.festo.com

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



- | | | | |
|--|---|---|---|
| [1] Port 1, 3 and 5:
G1/4 for VTUS-20
G3/8 for VTUS-25
G1/2 for VTUS-30 | [7] DIN rail mounting VAME-T-M4 for VTUS-20
VAME-T-M5 for VTUS-25
VAME-T-M6 for VTUS-30 | [9] Supply plate,
Port 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 double solenoid valve
or 5/3-way valve or 2x 3/2-way valve |
| [5] Port 2 and 4:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30 | [8] Cover plate | | |

Datasheet – Valve manifold assembly

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	–

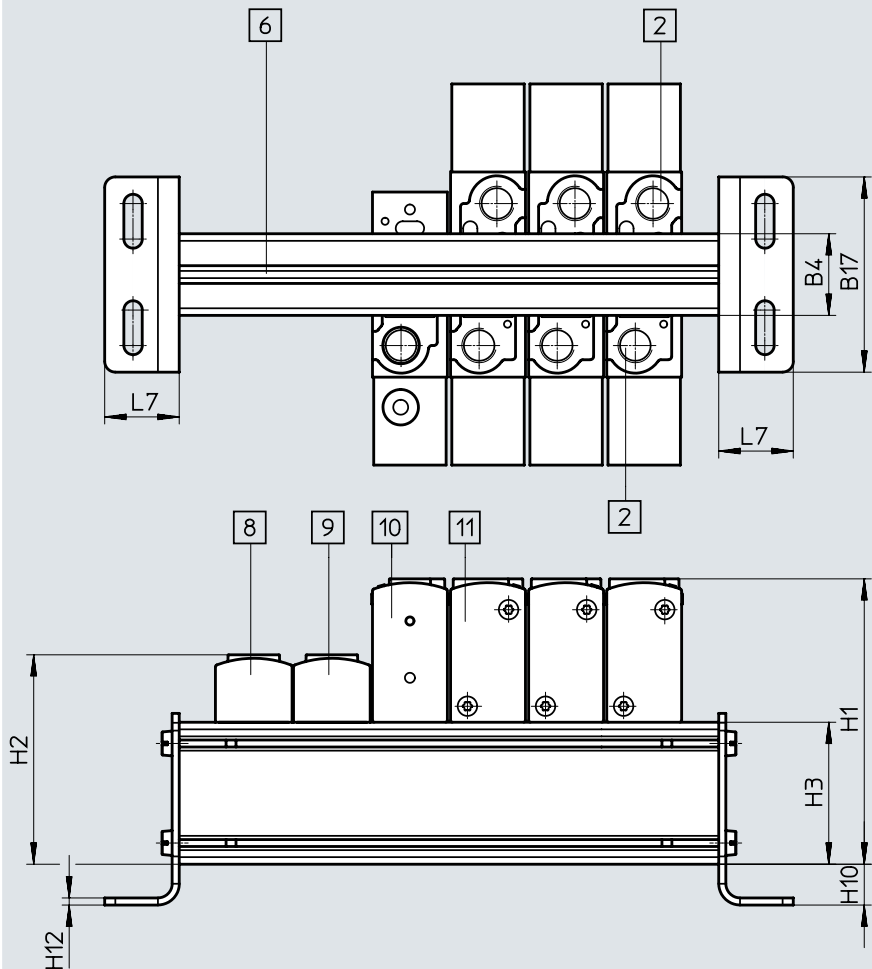
Type	Valve positions	2	3	4	5	6	7	8	9	10
VTUS-20	L1	72	94	116	138	160	182	204	226	248
	L2	60	82	104	126	148	170	192	214	236
VTUS-25	L1	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2	75	102.5	130	157.5	185	212.5	240	267.5	295
VTUS-30	L1	100	132	164	196	228	260	292	324	356
	L2	85	117	149	181	213	245	277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

Datasheet – Valve manifold assembly

Dimensions – Common supply manifold

Download CAD data → www.festo.com

Mounting on both sides



[2] Port 3 and 5:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/4 for VTUS-30

[3] Port 12/14:
M5 for VTUS-20
M5 for VTUS-25
G1/8 for VTUS-30
[6] Profile slot IPM-05 system 5

[8] Cover plate
[9] Air supply plate,
port 1:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30

[10] 3/2-way valve
[11] 5/2-way valve, single solenoid
[12] 5/2-way double solenoid valve
or 5/3-way valve or 2x 3/2-way
valve

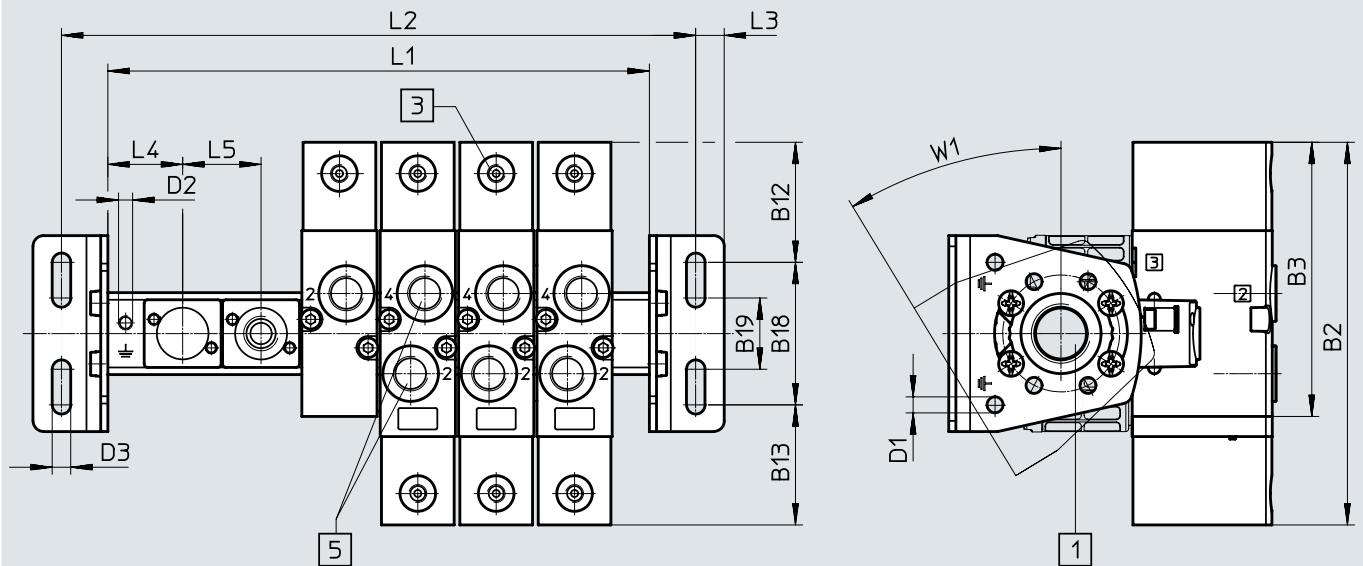
Type	B4	B17	H1	H2	H3	H10	H11	H12	L7
VTUS-20	23	55	80.4	59	40	11.5	6.3	2	21
VTUS-25	28.7	75	102.5	78	52	18	6.7	2	24
VTUS-30	34	85	122	95	65	17.5	6.7	2.5	26

Datasheet – Valve manifold assembly

Dimensions – Common supply manifold

Download CAD data → www.festo.com

Mounting on both sides



[1] Port 1 (on both sides):
 G3/8 for VTUS-20
 G1/2 for VTUS-25
 G3/4 for VTUS-30

[5] Port 2 and 4:
 G1/8 for VTUS-20
 G1/4 for VTUS-25
 G3/8 for VTUS-30

 **Note**
 Mounting bracket can be adjusted
 by $\pm 30^\circ$.

Datasheet – Valve manifold assembly

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°

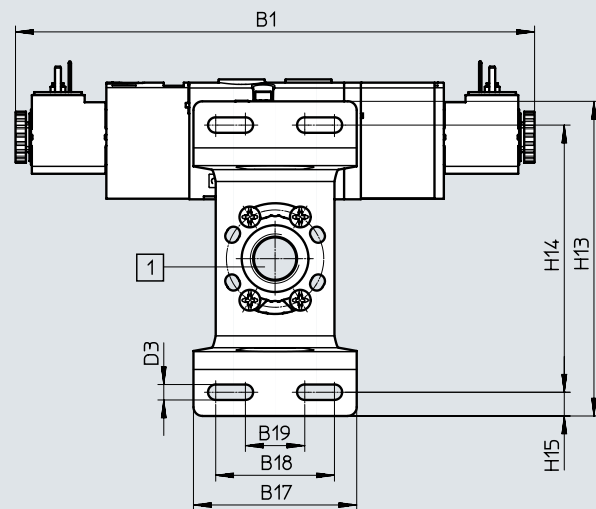
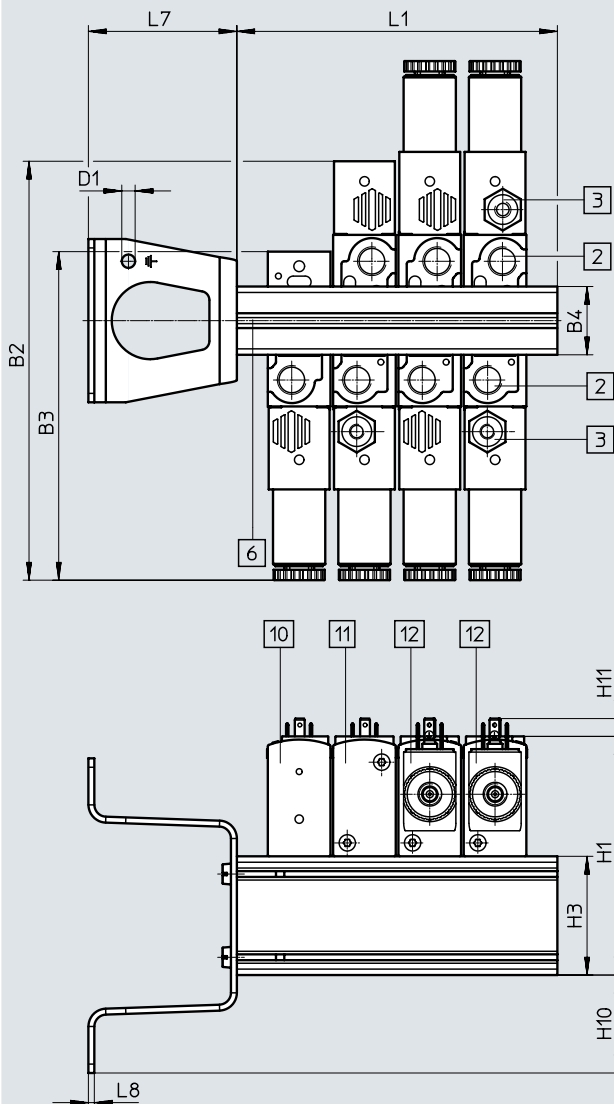
Type	Valve positions	2	3	4	5	6	7	8	9	10
VTUS-20	L1	64	86	108	130	152	174	196	218	240
	L2	90	112	134	156	178	200	222	244	266
VTUS-25	L1	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2	119	146.5	174	201.5	229	256.5	284	311.5	339
VTUS-30	L1	100	132	164	196	228	260	292	324	356
	L2	134	166	198	230	262	294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

Datasheet – Valve manifold assembly

Dimensions – Common supply manifold

Download CAD data → www.festo.com

Mounting on one side



[1] Port 1 (on both sides): 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] Port 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 double solenoid valve
or 5/3-way valve or 2x 3/2-way valve

**Note**

Mounting bracket can be adjusted by $\pm 30^\circ$.

Datasheet – Valve manifold assembly

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	64	86	108
VTUS-25	L1	87	114.5	142
VTUS-30	L1	100	132	164

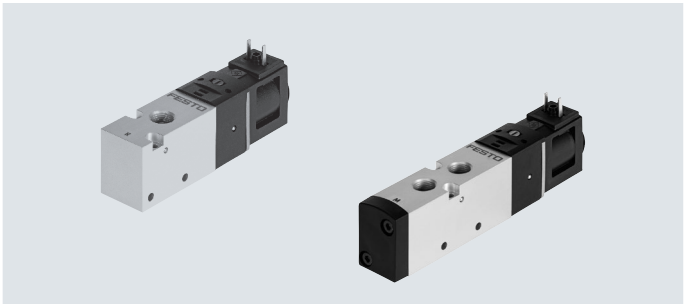
Type codes – Solenoid valves

001	Series	
VUVS	Solenoid valve, universal	
002	Directional control valve type	
L	In-line valve	
003	Design principle	
	Piston spool	
K	Piston spool with sealing ring	
T	Poppet valve	
004	Size	
20	Size 20	
25	Size 25	
30	Size 30	
005	Valve function	
M32U	3/2-way valve, normally open	
T32U	2x3/2-way valve, normally open	
T32C	2x3/2-way valve, normally closed	
T32H	2x3/2-way valve, 1x normally closed, 1x normally open	
B52	5/2-way valve, double solenoid/bistable	
M52	5/2-way valve, single solenoid/monostable	
M32C	3/2-way valve, normally closed	
P53U	5/3-way valve, mid-position pressurised	
P53E	5/3-way valve, mid-position exhausted	
P53C	5/3-way valve, mid-position closed	
006	Reset method for monostable/single solenoid valves	
	None	
A	Pneumatic spring	
M	Mechanical spring	
007	Pilot air	
	Internal	
Z	External	
008	Manual override	
D	Non-detenting, detenting	
H	Non-detenting	
S	Covered	
009	Pneumatic connection	
G18	G1/8	
G14	G1/4	
G38	G3/8	
N18	1/8 NPT	
N14	1/4 NPT	
N38	3/8 NPT	
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	
T38	Push-in connector 3/8"	
T14	Push-in connector 1/4"	
T12	Push-in connector 1/2"	
T532	Push-in connector 5/32"	
T516	Push-in connector 5/16"	

010	Exhaust	
	No fitting	
QN	With fitting	
U1	Silencer with metallic housing	
U3	Silencer with polymer housing	
U5	Sintered silencer, long	
011	Valve pilot control interface	
	Standard	
F8	With armature tube 8 mm, long	
F7	With armature tube 8 mm, short	
FN	With armature tube 9 mm	
012	Nominal operating voltage	
	None	
1	24 V DC	
1A	24 V AC/50-60 Hz	
3A	230 V AC/50-60 Hz	
3W	230 V AC/240 V AC/50-60 Hz	
5	12 V DC	
16B	120 V AC/60 Hz and 110V AC/50-60 Hz	
013	Electrical connection	
	None	
A1	Plug pattern type A, to EN 175301-803	
B2	Connection pattern type B, industry standard	
C1	Plug pattern type C, to EN 175301-803	
K1	Cable	
014	Degree of protection, electrical system	
	Standard	
S1	IP65	
S8	IP67	
015	EU certification	
	None	
EX2	II 3GD	
EX4	II 2GD	
016	Electrical valve accessories	
	None	
G	Connector socket, without LED	
GL	Connector socket, with LED	
GS	Connector socket, with protective circuit	
017	Version	
	Expanded properties	
S	Focused properties	

Datasheet

-  - Flow rate
up to 550 l/min
-  - Valve width
21 mm
-  - Voltage
24 V DC



General technical data				
Valve function		3/2-way valve		5/2-way valve
Order code for valves		M32C	M52	B52
Valve width	[mm]	21		
Nominal width	[mm]	5.2		
Design		Piston spool		
Flow direction		Not reversible		
Pilot air supply		Internal		
Type of control		Piloted		
Manual override		Non-detenting, detenting		
Overlap		Positive overlap		
Sealing principle		Soft		
Type of mounting		Optionally via through-hole or on manifold rail		
Standard nominal flow rate qnN	[l/min]	550	550	550
Actuation type		Electrical		
Mounting position		Any		
Exhaust air function		Can be throttled		
Connection for venting hole		Not ducted		
b value		0.38		
c value	[l/sbar]	2.66		
Pneumatic port	1, 2, 3	G1/8	G1/8	G1/8
	4, 5	–	G1/8	G1/8

Technical data – 3/2-way valves			
Order code for valves		M32C	
Normal position		Closed	
Stable position		Monostable	
Reset method		Pneumatic spring	
Switching times in [ms]	On	16	
	Off	20	
	Change-over	–	
Product weight with solenoid coil	[g]	120	
Product weight with solenoid coil and plug socket	[g]	133	

Datasheet

Technical data – 5/2-way valves			
Order code for valves		M52	B52
Normal position		–	–
Stable position		Monostable	Bistable
Reset method		Pneumatic spring	–
Switching times in [ms]	On	17	–
	Off	22	–
	Change-over	–	10
Product weight with solenoid coil	[g]	145	200
Product weight with solenoid coil and plug socket	[g]	158	226

Safety characteristics		
Max. positive test pulse with logic 0	[μs]	2700
Max. negative test pulse with logic 1	[μs]	1100
Shock resistance	Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27	
Vibration resistant	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6	

Operating and environmental conditions				
Order code for valves		M32C	M52	B52
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]		
Pilot medium		Compressed air to ISO 8573-1:2010 [7:4:4]		
Note on the operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)		
Cleanroom class		ISO class 6		
Operating pressure	[MPa]	0.15 ... 0.8	0.15 ... 0.8	0.15 ... 0.8
	[bar]	1.5 ... 8	1.5 ... 8	1.5 ... 8
Ambient temperature	[°C]	–5 ... +50		
Temperature of medium	[°C]	–5 ... +50		
Corrosion resistance class CRC ¹⁾		1		

1) More information www.festo.com/x/topic/crc

Electrical data	
Electrical connection	Plug type C to EN 175301-803
Operating voltage	[V DC] 24
Permissible voltage fluctuations	[%] ±10
Power	[W] 2.6
Duty cycle	[%] 100
Degree of protection to EN 60529	IP65 with plug socket

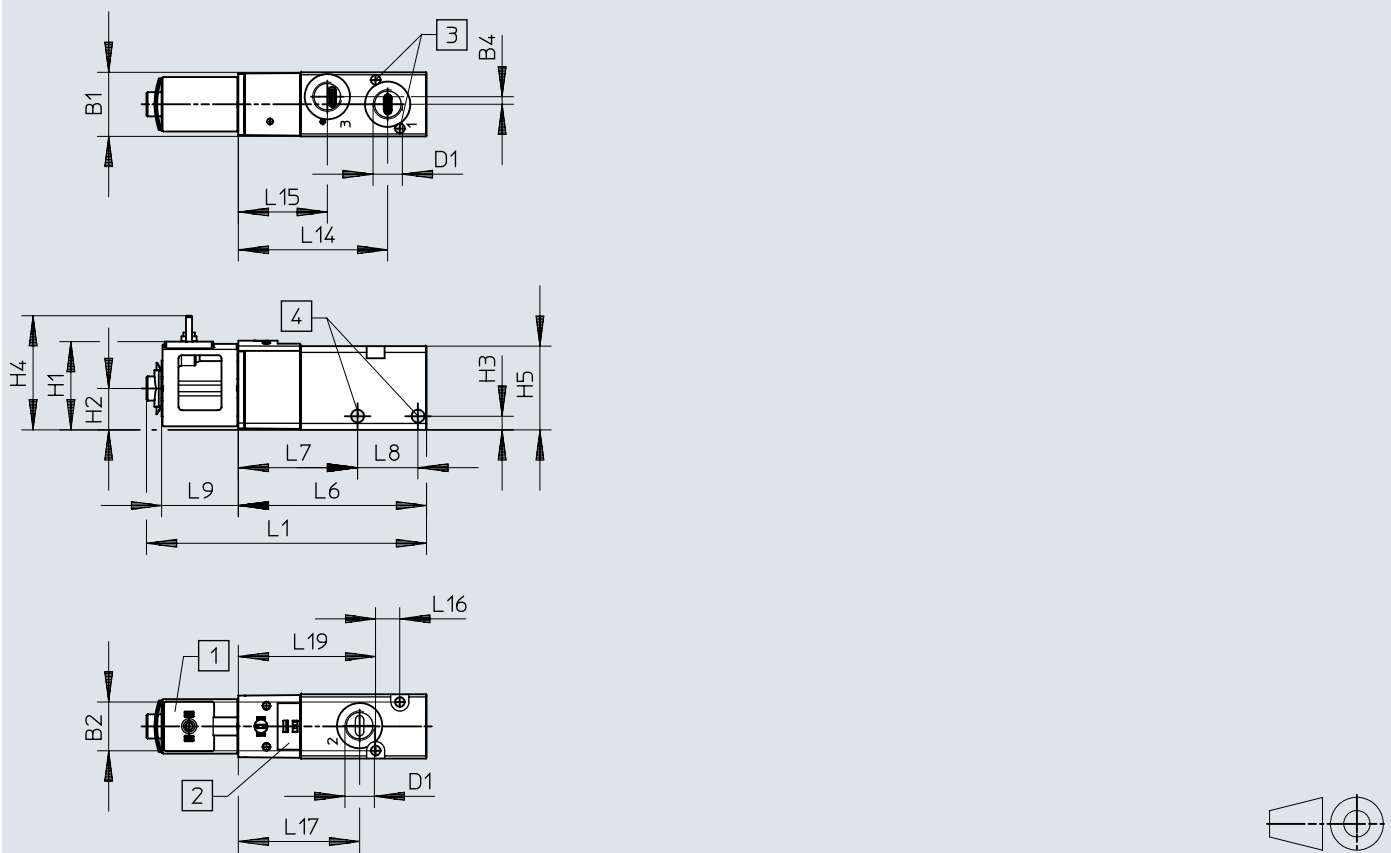
Materials	
Housing	Wrought aluminium alloy
Seals	HNBR, NBR
Piston spool	Wrought aluminium alloy
Note on materials	RoHS-compliant
	Contains paint-wetting impairment substances

Datasheet

Dimensions

Download CAD data → www.festo.com

3/2-way valves, with solenoid coil



- [1] Solenoid coil interface type C [2] Space for inscription label [3] For screw M3 [4] For screw M4

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	4.5	37.8	27.7

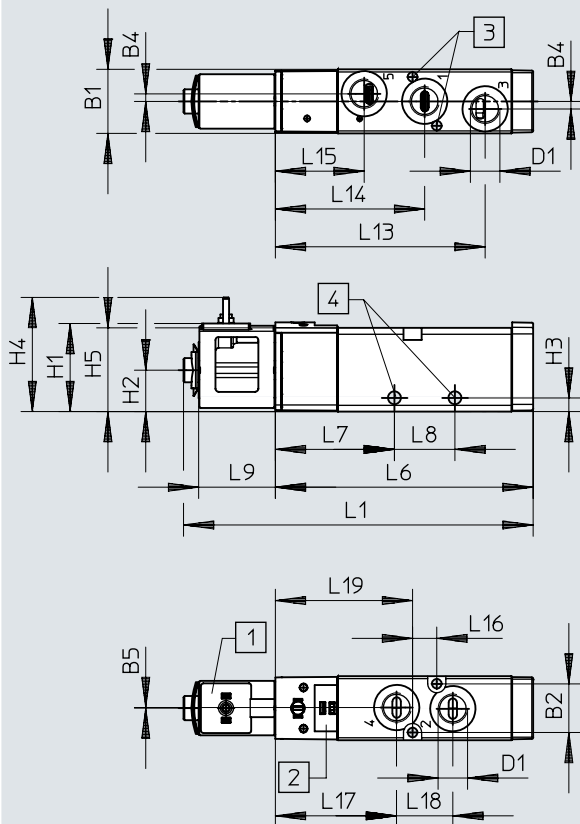
Type	L1	L6	L7	L8	L9	L14	L15	L16	L17	L19
VUVS-LK20-M32C-AD-G18-1C1-S	92.7	62.3	39.4	20	25.4	49.4	29.4	8	40.1	45.4

Datasheet

Dimensions

Download CAD data → www.festo.com

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



[1] Solenoid coil interface type C

[2] Space for inscription label

[3] For screw M3

[4] For screw M4

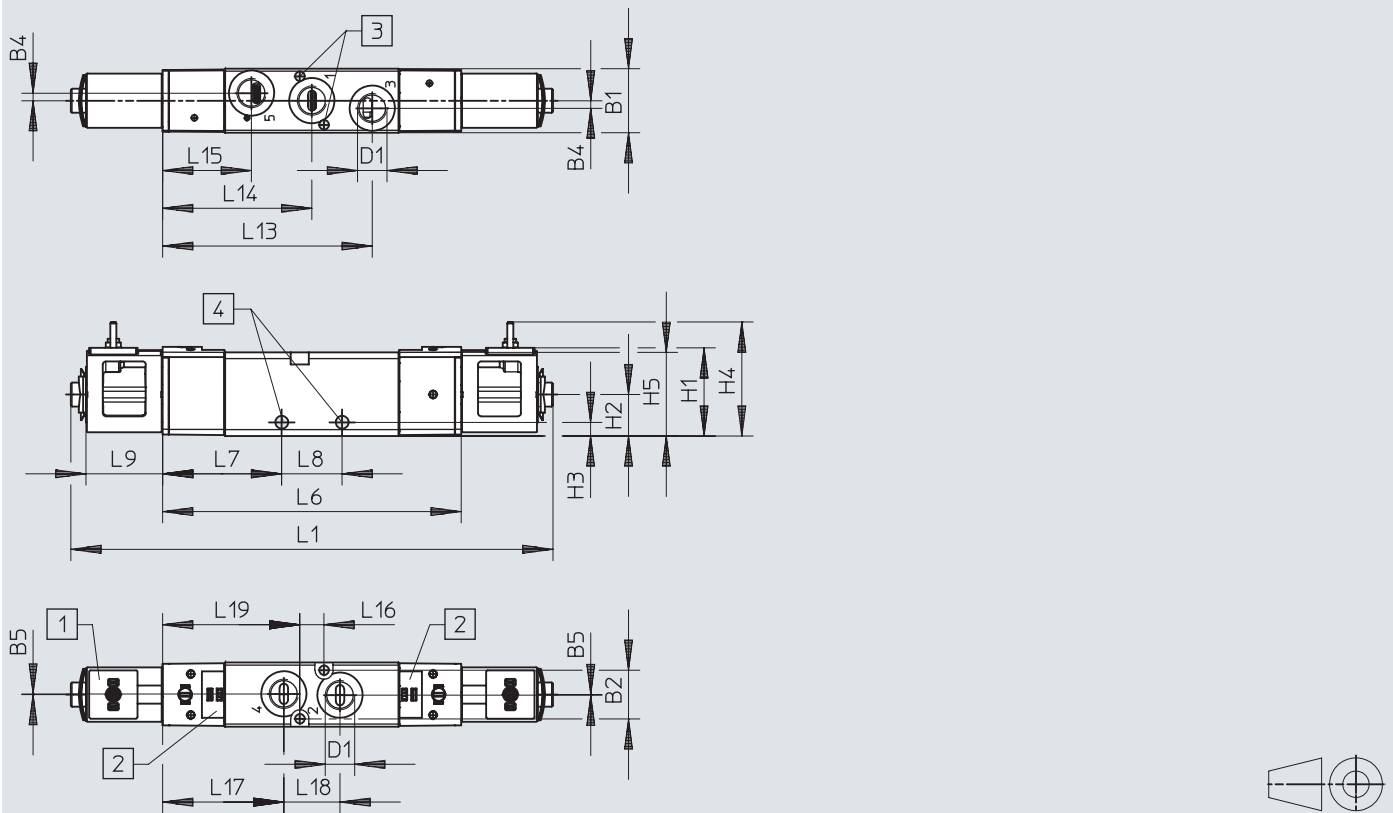
Type	B1	B2	B4	B5	D1	H1	H2	H3	H4	H5
VUVS-LK20-M52-AD-G18-1C1-S	21.2	16.2	2.5	0.2	G1/8	29.2	13.7	4.5	37.8	27.7

Type	L1	L6	L7	L8	L9	L13	L14	L15	L16	L17	L18	L19
VUVS-LK20-M52-AD-G18-1C1-S	115.7	85.3	39.4	20	25.4	69.4	49.4	29.4	8	40.1	18.6	45.4

Datasheet

Dimensions Download CAD data → www.festo.com

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



[1] Solenoid coil interface type C [2] Space for inscription label [3] For screw M3 [4] For screw M4

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	4.5	37.8	27.7

Type	L1	L6	L7	L8	L9	L13
VUVS-LK20-B52-D-G18-1C1-S	159.7	98.8	39.4	20	25.4	69.4

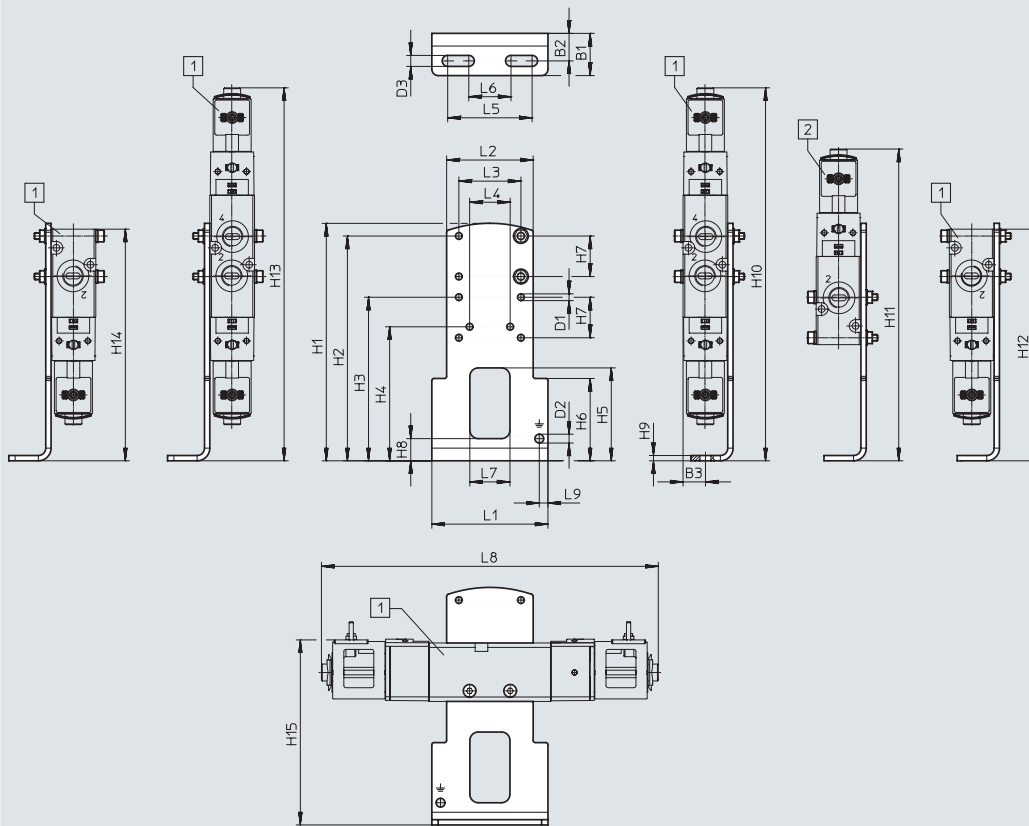
Type	L14	L15	L16	L17	L18	L19
VUVS-LK20-B52-D-G18-1C1-S	49.4	29.4	8	40.1	18.6	45.4

Accessories

Dimensions

Download CAD data → www.festo.com

Foot mounting



[1] VUVS-LK20-B52,
VUVS-LK20-M52,
VUVS-LK20-M32

[2] VUVS-LK20-M52,
VUVS-LK20-M32

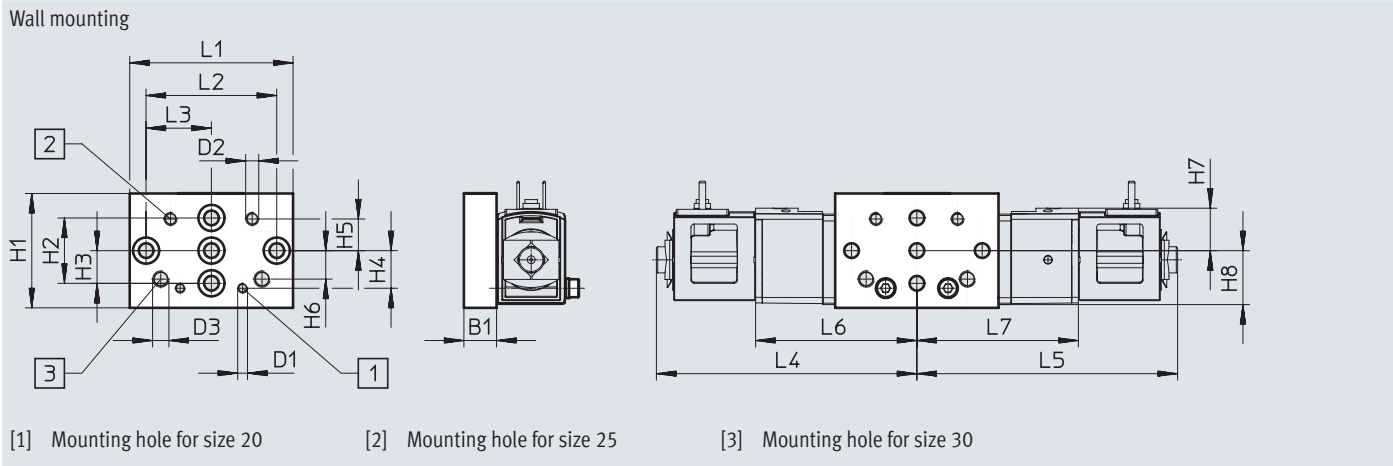
Type		B1	B2	B3	D1 Ø	D2 Ø	D3	H1	H2	H3	H4
VAME-B10-20-A	VUVS-LK20-B52	20	13.1	10.6	3.2	4.2	5.2	112.5	106.5	77.5	63.5
	VUVS-LK20-M52										
	VUVS-LK20-M32										

Type		H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-20-A	VUVS-LK20-B52	44	39	19.2	10.5	2.5	176.7	–	176.7	176.7	176.7
	VUVS-LK20-M52							147.7	132.8		132.8
	VUVS-LK20-M32								109.8		109.8

Type		H15	L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-20-A	VUVS-LK20-B52	87.7	55	41	29.4	19.2	40	20	19	174.9	4.1
	VUVS-LK20-M52									141.2	
	VUVS-LK20-M32									110.7	

Accessories

Dimensions Download CAD data → www.festo.com

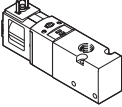
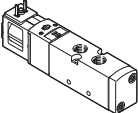
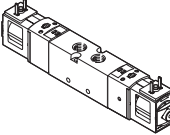
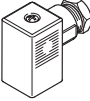


Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-LK20-B52	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-LK20-M52										
	VUVS-LK20-M32										

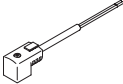
Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-LK20-B52	13	16.5	50	40	20	79.8	79.8	49.4	49.4
	VUVS-LK20-M52							35.9		–
	VUVS-LK20-M32							12.9		–

Accessories

★ Core Range

Ordering data						
	Code		Valve function		Part no.	Type
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, flow direction not reversible			8043213	VUVS-LK20-M32C-AD-G18-1C1-S
5/2-way valve with solenoid coil (24 V DC)						
	Single solenoid, type C					
	M52-A	Pneumatic spring return, internal pilot air supply, flow direction not reversible			8043214	VUVS-LK20-M52-AD-G18-1C1-S
	Double solenoid, type C					
	B52	Internal pilot air supply, flow direction 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						
	Plug pattern type C, to 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

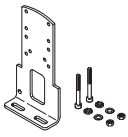
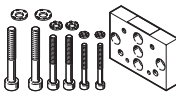
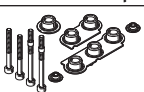
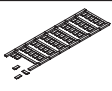
Accessories

Ordering data		Description			Part no.	Type	
Plug socket with cable							
	Plug pattern type C, to EN 175301-803		24 V DC	LED	2.5 m	151688	KMEB-1-24-2.5-LED
	Angled socket, 3-pin Cable, open end, 3-core	5 m			151689	KMEB-1-24-5-LED	
		10 m			193457	KMEB-1-24-10-LED	
		Illuminating seal					
	Plug pattern type C, to DIN EN 175301-803		24 V DC		151717	MEB-LD-12-24DC	

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
		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 G1/8 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 G1/8 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
Silencer					
	With connecting thread G, polymer version	G1/8	2307	U-1/8	1
			534222	U-1/8-50	50
	With connecting thread G, metal version	G1/8	6841	U-1/8-B	1

1) Packaging unit

Accessories

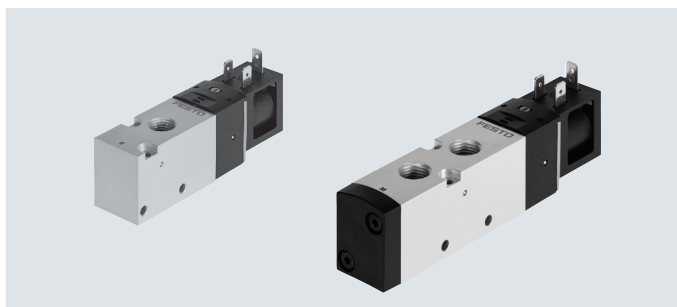
Ordering data	Description	Weight [g]	Part no.	Type
Foot mounting				
	With screw set for attaching the valve to the foot mounting	97	576412	VAME-B10-20-A
Wall mounting				
	With screw set for attaching the valve to the wall mounting	53	576413	VAME-B10-20-W
Assortment of spare parts				
	Set comprising seals and screws	10	8026203	VAME-B10-20-MK
Screw set				
	For mounting valves VUVS-LK on common supply manifolds, comprising 2 screws M3x30	4.5	8069876	VAME-B10-20-S
Inscription label				
	Frame with 40 labels	–	565306	ASLR-C-E4

Datasheet

-  - Flow rate
up to 1000 l/min

-  - Valve width
26.5 mm

-  - Voltage
24 V DC



General technical data				
Valve function		3/2-way valve	5/2-way valve	
Order code for valves		M32C	M52	B52
Valve width	[mm]	26.5		
Nominal width	[mm]	6.7		
Design		Piston spool		
Flow direction		Not reversible		
Pilot air supply		Internal		
Type of control		Piloted		
Manual override		Non-detenting, detenting		
Overlap		Positive overlap		
Sealing principle		Soft		
Type of mounting		Optionally via through-hole or on manifold rail		
Standard nominal flow rate q _N	[l/min]	1000	1000	1000
Actuation type		Electrical		
Mounting position		Any		
Exhaust air function		Can be throttled		
Connection for venting hole		Not ducted		
b value		0.45		
c value	[l/sbar]	3.86		
Pneumatic connection	1, 2, 3	G1/4	G1/4	G1/4
	4, 5	–	G1/4	G1/4

Technical data – 3/2-way valves				
Order code for valves		M32C		
Normal position		Closed		
Stable position		Monostable		
Reset method		Pneumatic spring		
Switching times in [ms]	On	16		
	Off	20		
	Change-over	–		
Product weight with solenoid coil	[g]	200		
Product weight with solenoid coil and plug socket	[g]	224		

Datasheet

Technical data – 5/2-way valves			
Order code for valves		M52	B52
Normal position		–	–
Stable position		Monostable	Bistable
Reset method		Pneumatic spring	–
Switching times in [ms]	On	20	–
	Off	22	–
	Change-over	–	12
Product weight with solenoid coil	[g]	250	320
Product weight with solenoid coil and plug socket	[g]	274	368

Safety characteristics		
Max. positive test pulse with logic 0	[µs]	2500
Max. negative test pulse with logic 1	[µs]	1100
Shock resistance	Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27	
Vibration resistant	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6	

Operating and environmental conditions				
Order code for valves		M32C	M52	B52
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]		
Pilot medium		Compressed air to ISO 8573-1:2010 [7:4:4]		
Note on the operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)		
Cleanroom class		ISO class 6		
Operating pressure	[MPa]	0.15 ... 0.8	0.15 ... 0.8	0.15 ... 0.8
	[bar]	1.5 ... 8	1.5 ... 8	1.5 ... 8
Ambient temperature	[°C]	–5 ... +50		
Temperature of medium	[°C]	–5 ... +50		
Corrosion resistance class CRC ¹⁾		1		

1) More information www.festo.com/x/topic/crc

Electrical data	
Electrical connection	Plug type B to industry standard (11 mm)
Operating voltage	[V DC] 24
Permitted voltage fluctuations	[%] 10
Power	[W] 3.3
Duty cycle	[%] 100
Degree of protection to EN 60529	IP65 with plug socket

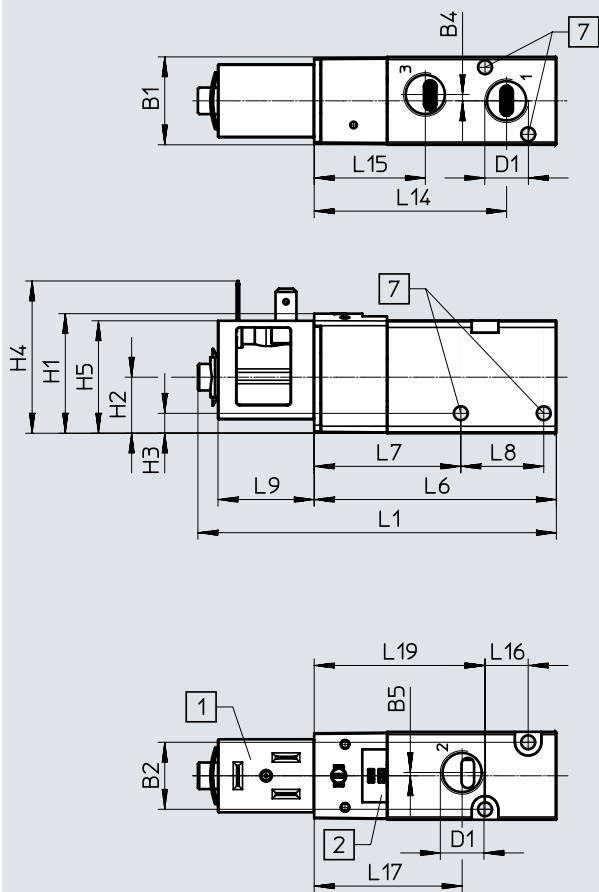
Materials	
Housing	Wrought aluminium alloy
Seals	HNBR, NBR
Piston spool	Wrought aluminium alloy
Note on materials	RoHS-compliant
	Contains paint-wetting impairment substances

Datasheet

Dimensions

Download CAD data → www.festo.com

3/2-way valves, with solenoid coil



[1] Solenoid coil interface type B

[2] Space for inscription label

[7] For screw M4

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

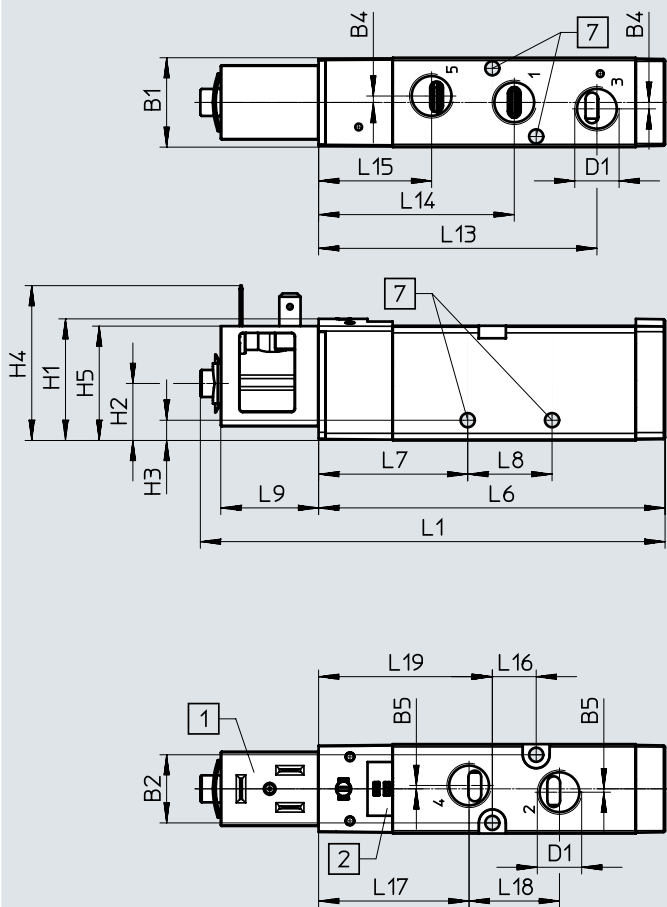
Type	L1	L6	L7	L8	L9	L14	L15	L16	L17	L19
VUVS-LK25-M32C-AD-G14-1B2-S	109.2	74.1	44.2	25	29	58	33.5	13	44.6	51.5

Datasheet

Dimensions

Download CAD data → www.festo.com

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



[1] Solenoid coil interface type B

[2] Space 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

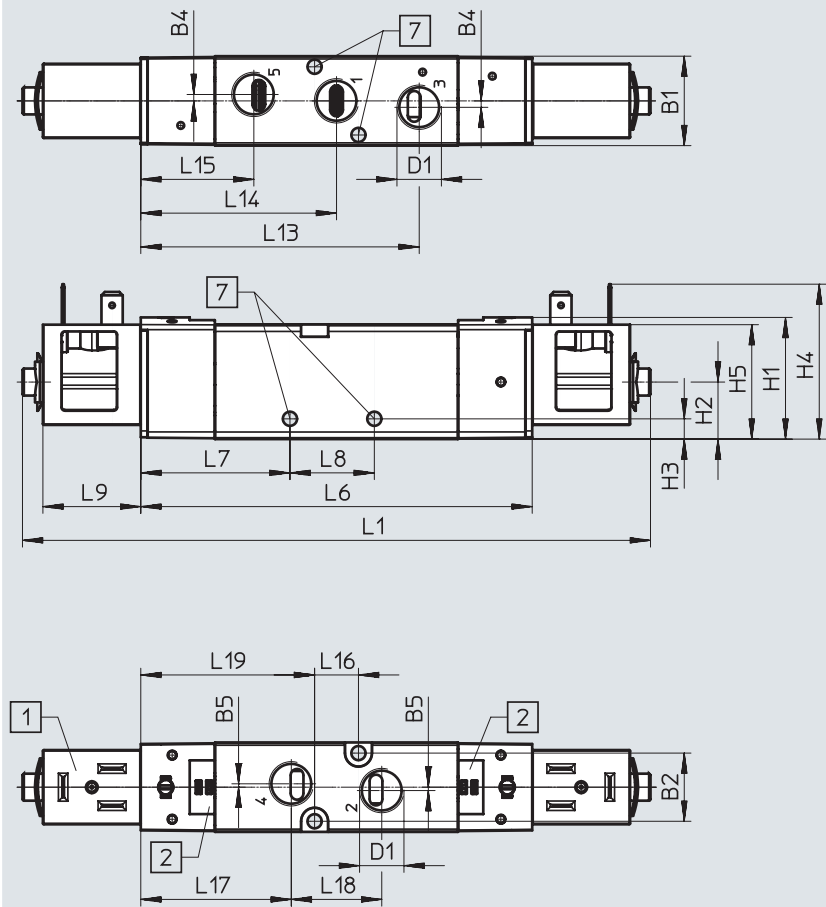
Type	L1	L6	L7	L8	L9	L13	L14	L15	L16	L17	L18	L19
VUVS-LK25-M52-AD-G14-1B2-S	137.8	102.7	44.2	25	29	82.5	58	33.5	13	44.6	26.8	51.5

Datasheet

Dimensions

Download CAD data → www.festo.com

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



[1] Solenoid coil interface type B

[2] Space for inscription label

[7] For screw M4

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

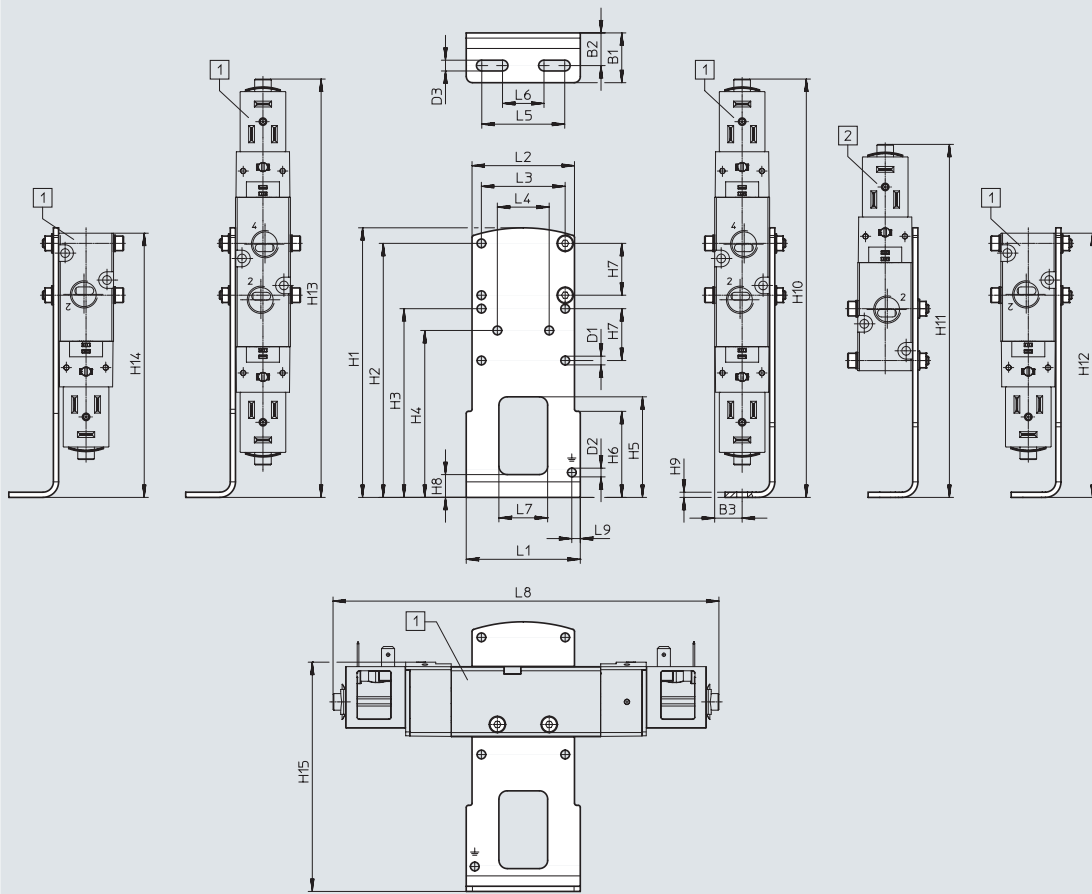
Type	L1	L6	L7	L8	L9	L13	L14	L15	L16	L17	L18	L19
VUVS-LK25-B52-D-G14-1B2-S	186.1	116	44.2	25	29	82.5	58	33.5	13	44.6	26.8	51.5

Accessories

Dimensions

Download CAD data → www.festo.com

Foot mounting



[1] VUVS-LK25-B52,
VUVS-LK25-M52,
VUVS-LK25-M32

[2] VUVS-LK25-M52,
VUVS-LK25-M32

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

Type		H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-25-A	VUVS-LK25-B52	48.5	41.5	25	11	2.5	201.8	—	204.4	201.8	204.4
	VUVS-LK25-M52							170.3	156		156
	VUVS-LK25-M32								127.4		127.4

Type		H15	L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-25-A	VUVS-LK25-B52	110.6	55	49.4	40.4	25	40	20	23.5	186.1	4.1
	VUVS-LK25-M52									137.8	
	VUVS-LK25-M32									109.2	

Accessories

Dimensions

Download CAD data → www.festo.com

Wall mounting

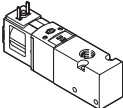
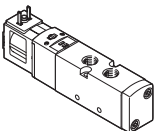
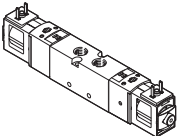
[1] Mounting hole for size 20 [2] Mounting hole for size 25 [3] Mounting hole for size 30

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										

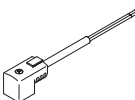
Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-LK25-B52	20.4	17.5	50	40	20	93.1	93.1	56.7	59.3
	VUVS-LK25-M52									
	VUVS-LK25-M32									

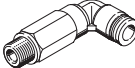
Accessories

★ Core Range

Ordering data				
	Code	Valve function	Part no.	Type
3/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, normally closed, type B			
	M32C-A	Pneumatic spring return, internal pilot air supply, flow direction not reversible	8043217	VUVS-LK25-M32C-AD-G14-1B2-S
5/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, type B			
	M52-A	Pneumatic spring return, internal pilot air supply, flow direction not reversible	8043218	VUVS-LK25-M52-AD-G14-1B2-S
	Double solenoid, type B			
	B52	Internal pilot air supply, flow direction not reversible	8043219	VUVS-LK25-B52-D-G14-1B2-S

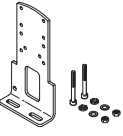
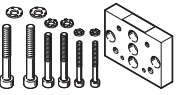
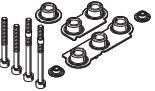
Accessories

Ordering data		Description		Part no.	Type	
Cover cap						
	For manual override, non-detenting or covered			8049539	VAMC-B10-25-CH2-S	
Plug socket						
	Plug pattern type B, industry standard					
	3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/DC	IP65	539710	MSSD-F-M16
		Cable fitting Pg9			34431	MSSD-F
Plug socket with cable						
	Plug pattern type B, industry standard					
	Angled socket, 3-pin Cable, open end, 3-core	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						
	Plug pattern type B, industry standard		24 V DC		19143	MF-LD-12-24DC

Ordering data		Description		Part no.	Type	PU ¹⁾	
Push-in fitting with internal hex							
	Connecting thread G1/4 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 G1/4 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 G1/4 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
Silencer							
	With connecting thread G, polymer version			G1/4	2316	U-1/4	1
					534223	U-1/4-20	20
	With connecting thread G, metal version			G1/4	6842	U-1/4-B	1

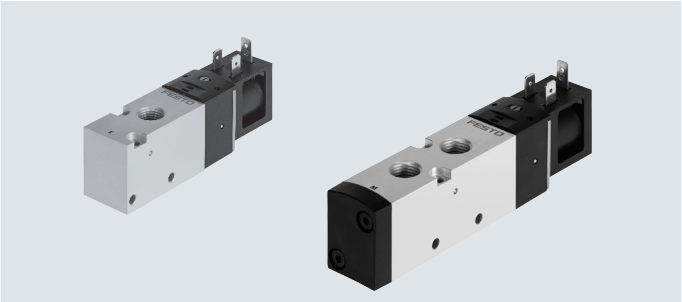
1) Packaging unit

Accessories

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
Assortment of spare parts				
	Set comprising seals and screws	12	8035636	VAME-B10-25-MK
Screw set				
	For mounting valves VUVS-LK on common supply manifolds, comprising 2 screws M4x40	9.6	8068789	VAME-B10-25-S
Inscription label				
	Frame with 40 labels	—	565306	ASLR-C-E4

Datasheet

-  - Flow rate
up to 1600 l/min
-  - Valve width
31 mm
-  - Voltage
24 V DC



General technical data				
Valve function		3/2-way valve		5/2-way valve
Order code for valves		M32C	M52	B52
Valve width	[mm]	31		
Nominal width	[mm]	8.1		
Design		Piston spool		
Flow direction		Not reversible		
Pilot air supply		Internal		
Type of control		Piloted		
Manual override		Non-detenting, detenting		
Overlap		Positive overlap		
Sealing principle		Soft		
Type of mounting		Optionally via through-hole or on manifold rail		
Standard nominal flow rate qnN	[l/min]	1600	1600	1600
Actuation type		Electrical		
Mounting position		Any		
Exhaust air function		Can be throttled		
Connection for venting hole		Not ducted		
b value		0.37		
c value		7.03		
Pneumatic port	1, 2, 3	G3/8	G3/8	G3/8
	4, 5	–	G3/8	G3/8

Technical data – 3/2-way valves			
Order code for valves		M32C	
Normal position		Closed	
Stable position		Monostable	
Reset method		Pneumatic spring	
Switching times in [ms]	On	16	
	Off	20	
	Change-over	–	
Product weight with solenoid coil	[g]	250	
Product weight with solenoid coil and plug socket	[g]	274	

Datasheet

Technical data – 5/2-way valves			
Order code for valves		M52	B52
Normal position		–	–
Stable position		Monostable	Bistable
Reset method		Pneumatic spring	–
Switching times in [ms]	On	16	–
	Off	21	–
	Change-over	–	10
Product weight with solenoid coil	[g]	315	392
Product weight with solenoid coil and plug socket	[g]	339	416

Safety characteristics		
Max. positive test pulse with logic 0	[µs]	2500
Max. negative test pulse with logic 1	[µs]	1100
Shock resistance	Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27	
Vibration resistant	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6	

Operating and environmental conditions				
Order code for valves		M32C	M52	B52
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]		
Pilot medium		Compressed air to ISO 8573-1:2010 [7:4:4]		
Note on the operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)		
Cleanroom class		ISO class 6		
Operating pressure	[MPa]	0.15 ... 0.8	0.15 ... 0.8	0.15 ... 0.8
	[bar]	1.5 ... 8	1.5 ... 8	1.5 ... 8
Ambient temperature	[°C]	–5 ... +50		
Temperature of medium	[°C]	–5 ... +50		
Corrosion resistance class CRC ¹⁾		1		

1) More information www.festo.com/x/topic/crc

Electrical data	
Electrical connection	Plug type B to industry standard (11 mm)
Operating voltage	[V DC] 24
Permitted voltage fluctuations	[%] 10
Power	[W] 3.3
Duty cycle	[%] 100
Degree of protection to EN 60529	IP65 with plug socket

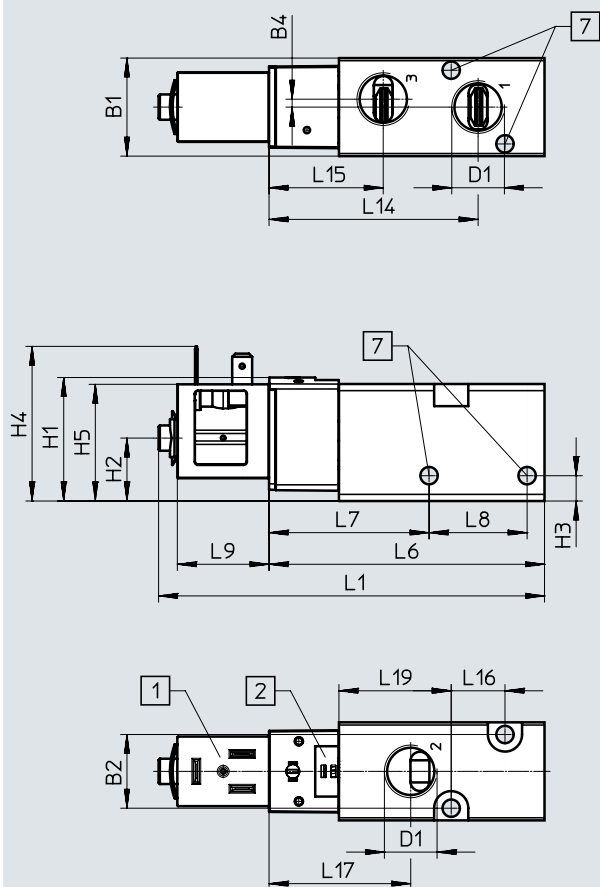
Materials	
Housing	Wrought aluminium alloy
Seals	HNBR, NBR
Piston spool	Wrought aluminium alloy
Note on materials	RoHS-compliant
	Contains paint-wetting impairment substances

Datasheet

Dimensions

Download CAD data → www.festo.com

3/2-way valves, with solenoid coil



[1] Solenoid coil interface type B [2] Space for inscription label [7] For screw M5

Type	B1	B2	B4	D1	H1	H2	H3	H4	H5
VUVS-LK30-M32C-AD-G38-1B2-S	31	23.3	2.5	G3/8	39.1	19.9	8	48.9	36.9

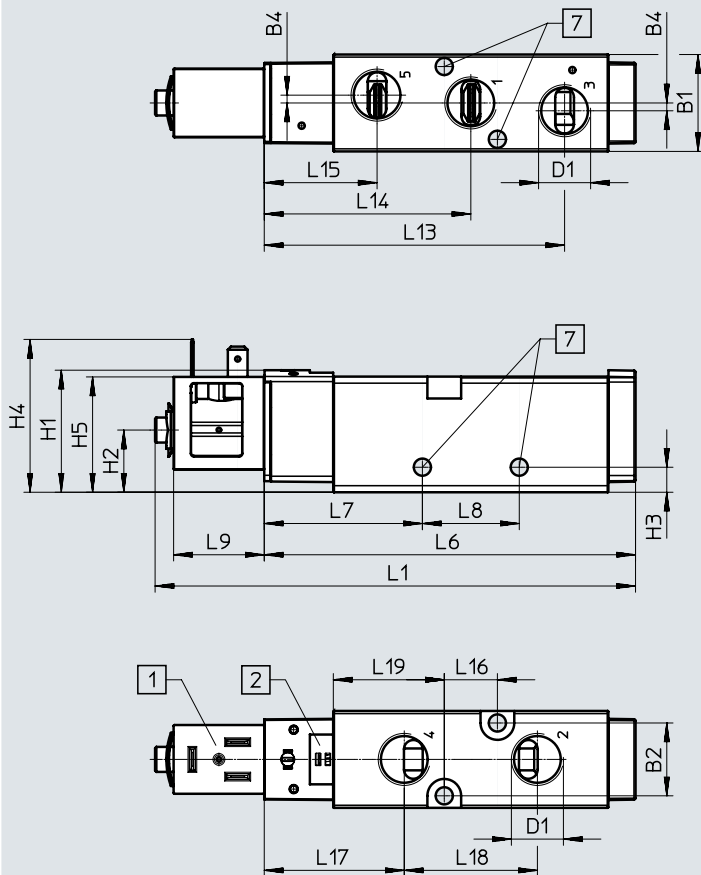
Type	L1	L6	L7	L8	L9	L14	L15	L16	L17	L19
VUVS-LK30-M32C-AD-G38-1B2-S	122.1	87.1	50.6	31	29	66.1	36.1	17	44.8	57.6

Datasheet

Dimensions

Download CAD data → www.festo.com

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



[1] Solenoid coil interface type B

[2] Space for inscription label

[7] For screw M5

Type	B1	B2	B4	D1	H1	H2	H3	H4	H5
VUVS-LK30-M52-AD-G38-1B2-S	31	23.3	2.5	G3/8	39.1	19.9	8	48.9	36.9

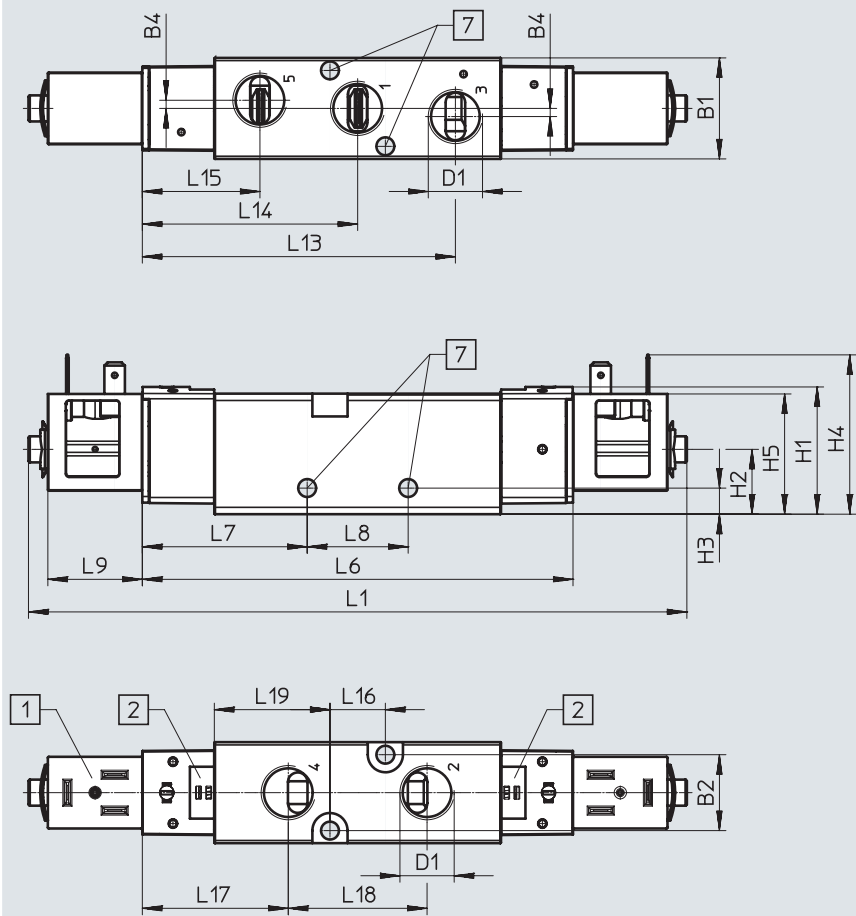
Type	L1	L6	L7	L8	L9	L13	L14	L15	L16	L17	L18	L19
VUVS-LK30-M52-AD-G38-1B2-S	153.8	118.8	50.6	31	29	96.1	66.1	36.1	17	44.8	42.6	57.6

Datasheet

Dimensions

Download CAD data → www.festo.com

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



[1] Solenoid coil interface type B [2] Space for inscription label [7] For screw M5

Type	B1	B2	B4	D1	H1	H2	H3	H4	H5
VUVS-LK30-B52-D-G38-1B2-S	31	23.3	2.5	G3/8	39.1	19.9	8	48.9	36.9

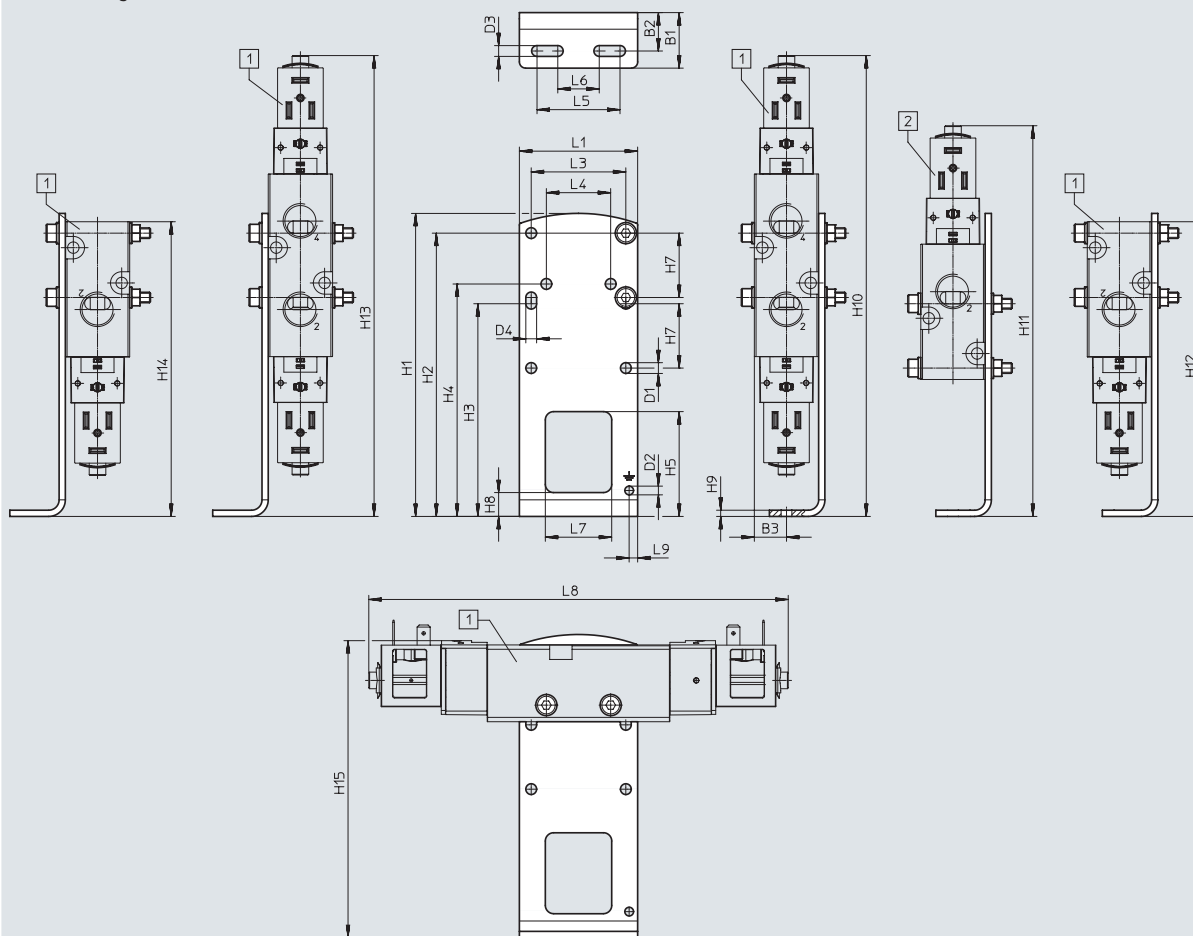
Type	L1	L6	L7	L8	L9	L13	L14	L15	L16	L17	L18	L19
VUVS-LK30-B52-D-G38-1B2-S	202.1	132.2	50.6	31	29	96.1	66.1	36.1	17	44.8	42.6	57.6

Accessories

Dimensions

Download CAD data → www.festo.com

Foot mounting



[1] VUVS-LK30-B52,
VUVS-LK30-M52,
VUVS-LK30-M32

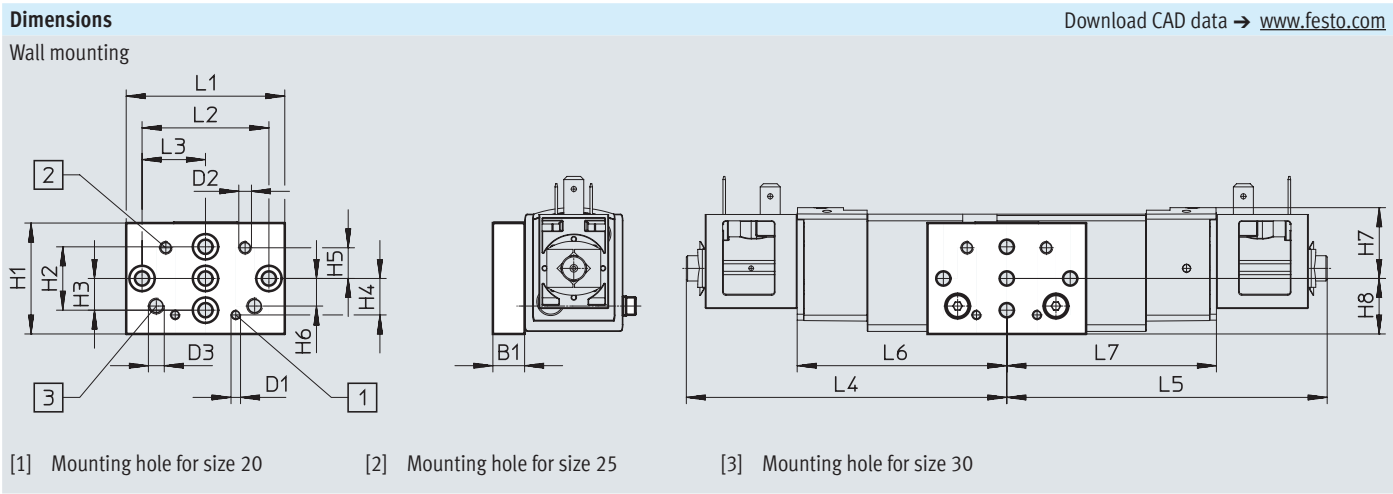
[2] VUVS-LK30-M52,
VUVS-LK30-M32

Type		B1	B2	B3	D1 Ø	D2 Ø	D3	D4	H1	H2	H3
VAME-B10-30-A	VUVS-LK30-B52	26.8	18.5	15.5	5.2	4.2	5.2	5.2	146	136.5	102.5
	VUVS-LK30-M52										
	VUVS-LK30-M32										

Type		H4	H5	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-30-A	VUVS-LK30-B52	112	50.5	31	11.5	3	222	—	222.1	222	222.1
	VUVS-LK30-M52							188	173.8		173.8
	VUVS-LK30-M32							142.1	142.1		142.1

Type		H15	L1	L3	L4	L5	L6	L7	L8	L9
VAME-B10-30-A	VUVS-LK30-B52	143.1	57	45.6	31	40	20	32	202.1	4.1
	VUVS-LK30-M52								153.8	
	VUVS-LK30-M32								122.1	

Accessories

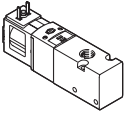
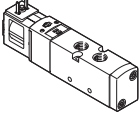
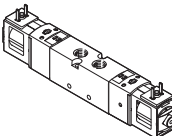


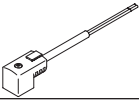
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-LK30-B52	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-LK30-M52										
	VUVS-LK30-M32										

Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-LK30-B52	22.4	17.5	50	40	20	101.1	101.1	66.1	66.1
	VUVS-LK30-M52							52.7		–
	VUVS-LK30-M32							21		–

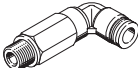
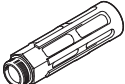
Accessories

★ Core Range

Ordering data		Code	Valve function	Part no.	Type
3/2-way valve with solenoid coil (24 V DC)					
	Single solenoid, normally closed, type B				
	M32C-A	Pneumatic spring return, internal pilot air supply, flow direction not reversible		8049880	VUVS-LK30-M32C-AD-G38-1B2-S
5/2-way valve with solenoid coil (24 V DC)					
	Single solenoid, type B				
	M52-A	Pneumatic spring return, internal pilot air supply, flow direction not reversible		8049881	VUVS-LK30-M52-AD-G38-1B2-S
	Double solenoid, type B				
	B52	Internal pilot air supply, flow direction not reversible		8049882	VUVS-LK30-B52-D-G38-1B2-S

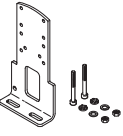
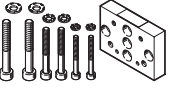
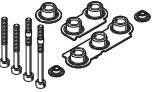
Ordering data		Description	Part no.	Type		
Cover cap						
	For manual override, non-detenting or covered		8049539	VAMC-B10-25-CH2-S		
Plug socket						
	Plug pattern type B, industry standard					
	3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/DC	IP65	539710	MSSD-F-M16
		Cable fitting Pg9			34431	MSSD-F
Plug socket with cable						
	Plug pattern type B, industry standard					
	Angled socket, 3-pin Cable, open end, 3-core	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						
	Plug pattern type B, industry standard		24 V DC		19143	MF-LD-12-24DC

Accessories

Ordering data					
	Description		Part no.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread G3/8 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 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
Angled push-in fitting, long, with external hex					
	Connecting thread G3/8 for tubing O.D.	8 mm	186132	QSL-G3/8-8	10
		10 mm	186134	QSL-G3/8-10	10
Silencer					
	With connecting thread G, metal version	G3/8	6843	U-3/8-B	1

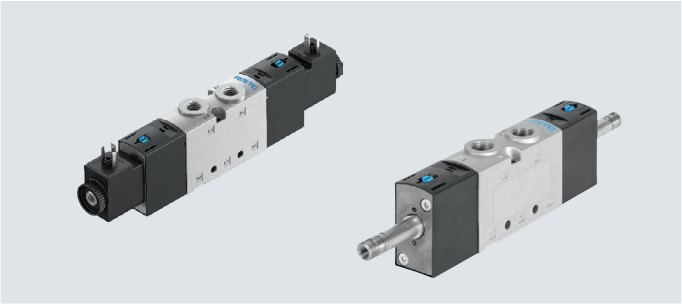
1) Packaging unit

Accessories

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
Assortment of spare parts				
	Set comprising seals and screws	22	8035637	VAME-B10-30-MK
Screw set				
	For mounting valves VUVS-LK on common supply manifolds, comprising 2 screws M5x40	15.5	8068790	VAME-B10-30-S
Inscription label				
	Frame with 40 labels	–	565306	ASLR-C-E4

Datasheet

-  - Flow rate
up to 600 l/min
-  - Valve width
21 mm
-  - Voltage
24 V DC



General technical data							
Valve function	3/2-way valve					5/2-way valve	
Order code for valves	M32C	M32U	T32C	T32U	T32H	M52	B52
Valve width [mm]	21						
Nominal width [mm]	5.2	5.2	5.2	5.2	5.2	5	5
Design	Poppet seat						
Flow direction	Not reversible						
Pilot air supply	Internal or external						
Type of control	Piloted						
Manual override	Non-detenting, detenting						
Overlap	Negative overlap						
Sealing principle	Soft						
Type of mounting	Optionally via through-hole or on manifold rail						
Standard nominal flow rate q _N [l/min]	600					500	
Actuation type	Electrical						
Mounting position	Any						
Exhaust air function	Can be throttled						
Connection for venting hole	Not ducted						
b value	0.39	0.29	0.39	0.29	0.34	0.31	0.27
c value	2.3	2.3	2.3	2.3	2.3	2.1	2.1
Pneumatic connection	1, 2, 3	G1/8	G1/8	G1/8	G1/8	G1/8	G1/8
	4, 5	–	–	G1/8	G1/8	G1/8	G1/8
Pilot air port 12, 14	M5	M5	M5	M5	M5	M5	M5
Pilot exhaust air port 82, 84	M5	M5	M5	M5	M5	M5	M5
Corrosion resistance1)	2						

1) More information www.festo.com/x/topic/crc

ATEX	
Type	VUVS-LT-...-EX2
ATEX category for gas	II 3G
Type of ignition protection for gas	Ex ec IIC T4 Gc X
ATEX category for dust	II 3D
Type of ignition protection for dust	Ex tc IIIC T115°C Dc X
Explosion-proof ambient temperature [°C]	–10°C ≤ Ta ≤ +60 °C
CE marking (see declaration of conformity) ¹⁾	To EU Explosion Protection Directive (ATEX)
UKCA marking (see declaration of conformity) ¹⁾	To UK explosion regulations
Explosion protection certification outside the EU	EPL Dc (GB)
	EPL Gc (GB)

1) For information about the area of use, see the declaration of conformity at: www.festo.com/catalogue/... → Support/Downloads.
If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

Datasheet

Technical data								
Order code for valves		M32C	M32U	T32C	T32U	T32H	M52	B52
Normal position		Closed	Open	2x normally closed	2x normally open	1x open/ 1x closed	–	–
Stable position		Monostable	Monostable	Monostable	Monostable	Monostable	Monostable	Bistable
Reset method		Mechanical spring		Mechanical spring			Mechanical spring	–
Switching times in [ms]	On	9	10	9	9	9	15	–
	Off	23	24	25	23	23	19	–
	Change-over	–	–	–	–	–	–	8
Product weight without solenoid coil	[g]	112	112	180	180	180	167	181
Product weight with solenoid coil	[g]	146	146	245	245	245	200	248

Safety characteristics		
Max. positive test pulse with logic 0	[µs]	1900
Max. negative test pulse with logic 1	[µs]	2700
Shock resistance		Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Vibration resistant		Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

Operating and environmental conditions								
Order code for valves		M32C	M32U	T32C	T32U	T32H	M52	B52
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]						
Pilot medium		Compressed air to ISO 8573-1:2010 [7:4:4]						
Note on the operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)						
Cleanroom class		ISO class 6						
Operating pressure with internal pilot air supply	[MPa]	0.25 ... 1					0.3 ... 1	0.15 ... 1
	[bar]	2.5 ... 10					3 ... 10	1.5 ... 10
Operating pressure with external pilot air supply	[MPa]	−0.09 ... 1					0.25 ... 1	0.15 ... 1
	[bar]	−0.9 ... 10					2.5 ... 10	1.5 ... 10
Pilot pressure	[MPa]	0.25 ... 1					0.25 ... 1	0.15 ... 1
	[bar]	2.5 ... 10					2.5 ... 10	1.5 ... 10
Ambient temperature	[°C]	−5 ... +60					−10 ... +60	
Temperature of medium	[°C]	−10 ... +60					−10 ... +60	
Certification		c UL us - Recognized (OL)						

Electrical data		
	With solenoid coil	Without solenoid coil
Electrical connection	Plug type C to EN 175301-803	Via solenoid coil → Internet: vacf
Operating voltage [V DC]	24	
Permitted voltage fluctuations [%]	10	
Power [W]	2.6	
Duty cycle [%]	100	
Degree of protection to IEC 60529	IP65 with plug socket to IEC 60529	

Materials	
Housing	Die-cast aluminium (painted)
Seals	HNBR, NBR, TPE-U(PU)
Screws	Galvanised steel
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Datasheet

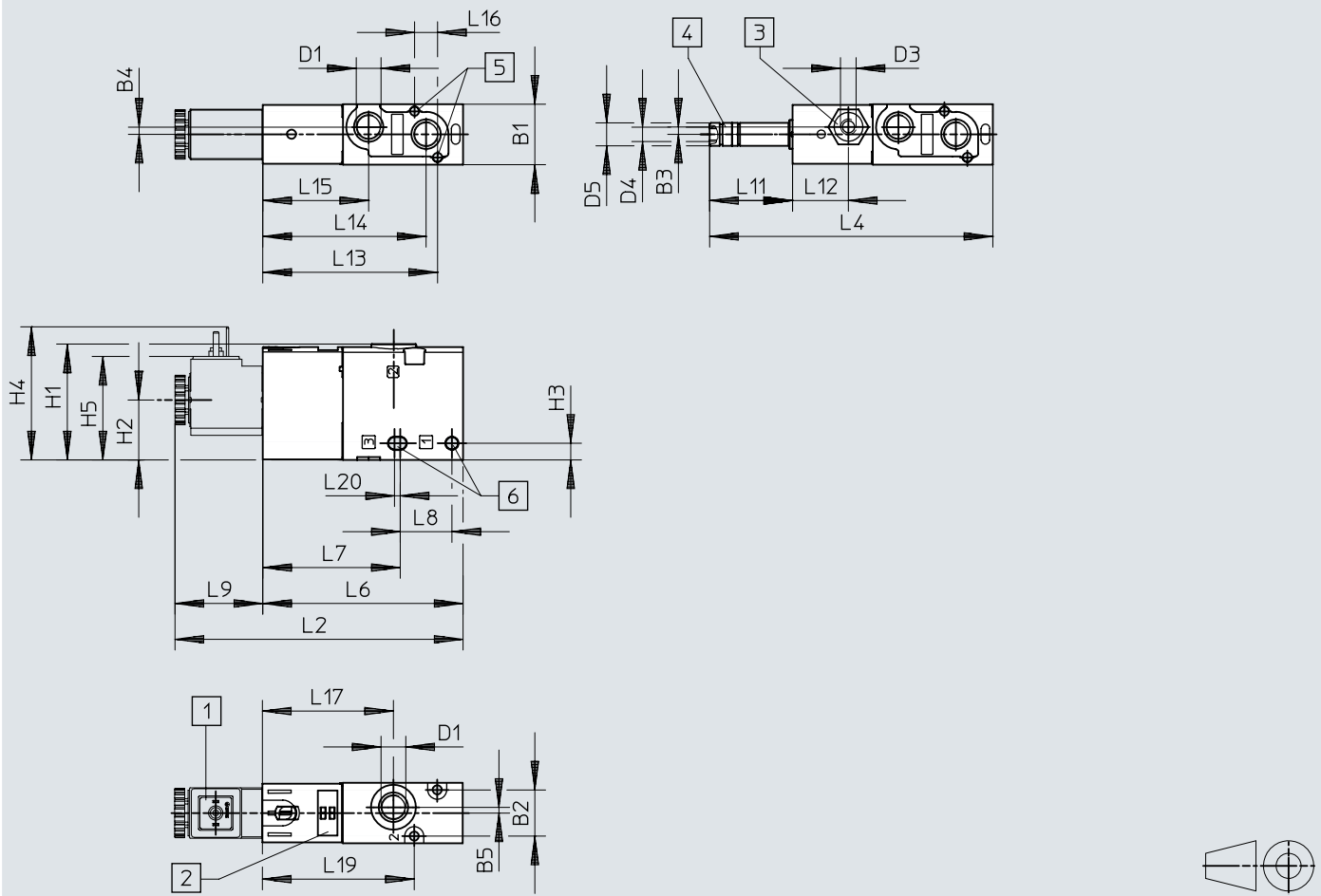
Dimensions

Download CAD data → www.festo.com

3/2-way valves, with solenoid coil

3/2-way valves, without solenoid coil

VUVS-LT20-M32 . . . -MZD- . . .



- [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] Space for inscription label

Type	B1	B2	B3	B4	B5	D1	D3	D4	D5	H1	H2	H3	H4	H5
VUVS-LT20-M32...MD-G18-...	21.1	16.1	–	2.5	2	G1/8	–	M5	8	40.4	20.9	6.2	46.7	36.4
VUVS-LT20-M32...MZD-G18-...			2.6				M5							

Type	L2	L4	L6	L7	L8	L9	L11	L12	L13	L14	L15	L16	L17	L19
VUVS-LT20-M32...MD-G18-...	100.4	98.8	69.8	47.3	19.2	30.6	29	–	60.9	56.9	36.9	8	45.6	52.9
VUVS-LT20-M32...MZD-G18-...								19.5						

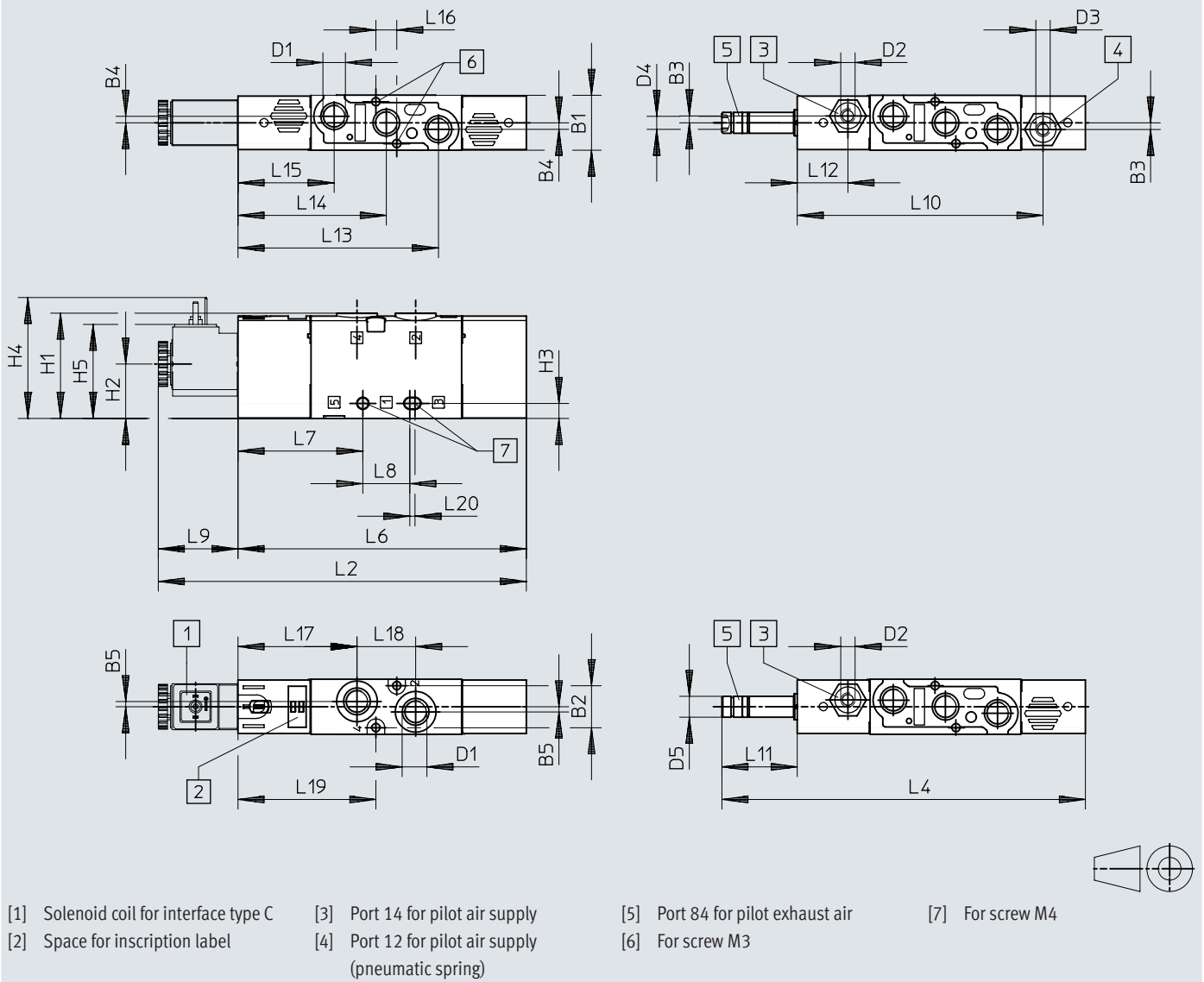
Datasheet

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 ø	H1	H2	H3	H4	H5
VUVS-LT20-M52-...MD-G18-...	21.1	16.1	—	2.5	2	G1/8	—	—	M5	8	40.4	20.9	5.8	46.7	36.4
VUVS-LT20-M52-...MZD-G18-...			2.6				M5	M5							

Type	L2	L4	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	L20
VUVS-LT20-M52-...MD-G18-...	141.2	139.6	110.6	47.9	18	30.6	—	29	—	76.9	56.9	36.9	8	45.6	22.5	52.9	2
VUVS-LT20-M52-...MZD-G18-...							94.3		19.5								

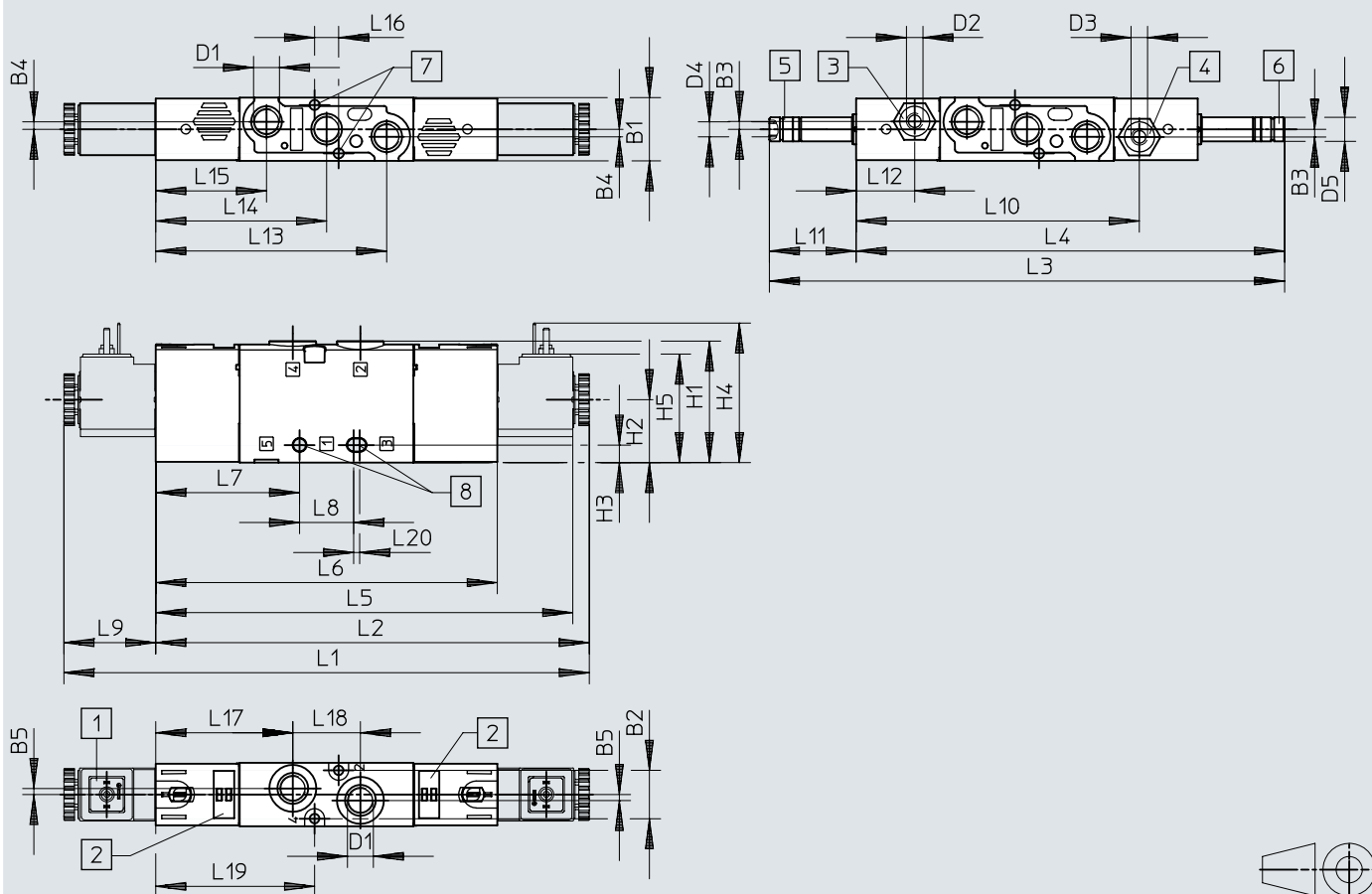
Datasheet

Dimensions

Download CAD data → www.festo.com

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

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



[1] Solenoid coil interface type C
[2] Space 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
[8] For screw M4

Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5	H1
VUVS-LT20-B52-D-G18-...	21.1	16.1	—	2.5	2	G1/8	—	—	M5	8	40.4
VUVS-LT20-B52-ZD-G18-...			2.6				M5	M5			
VUVS-LT20-T32-...-MD-G18-...			—				—	—			
VUVS-LT20-T32-...-MZD-G18-...			2.6				M5	M5			

Type	H2	H3	H4	H5	L1	L2	L3	L4	L5	L6	L7	L8
VUVS-LT20-B52-D-G18-...	20.9	5.8	46.7	36.4	174.9	144.3	171.7	142.7	139.1	113.7	47.9	18
VUVS-LT20-B52-ZD-G18-...												
VUVS-LT20-T32-...-MD-G18-...												
VUVS-LT20-T32-...-MZD-G18-...												

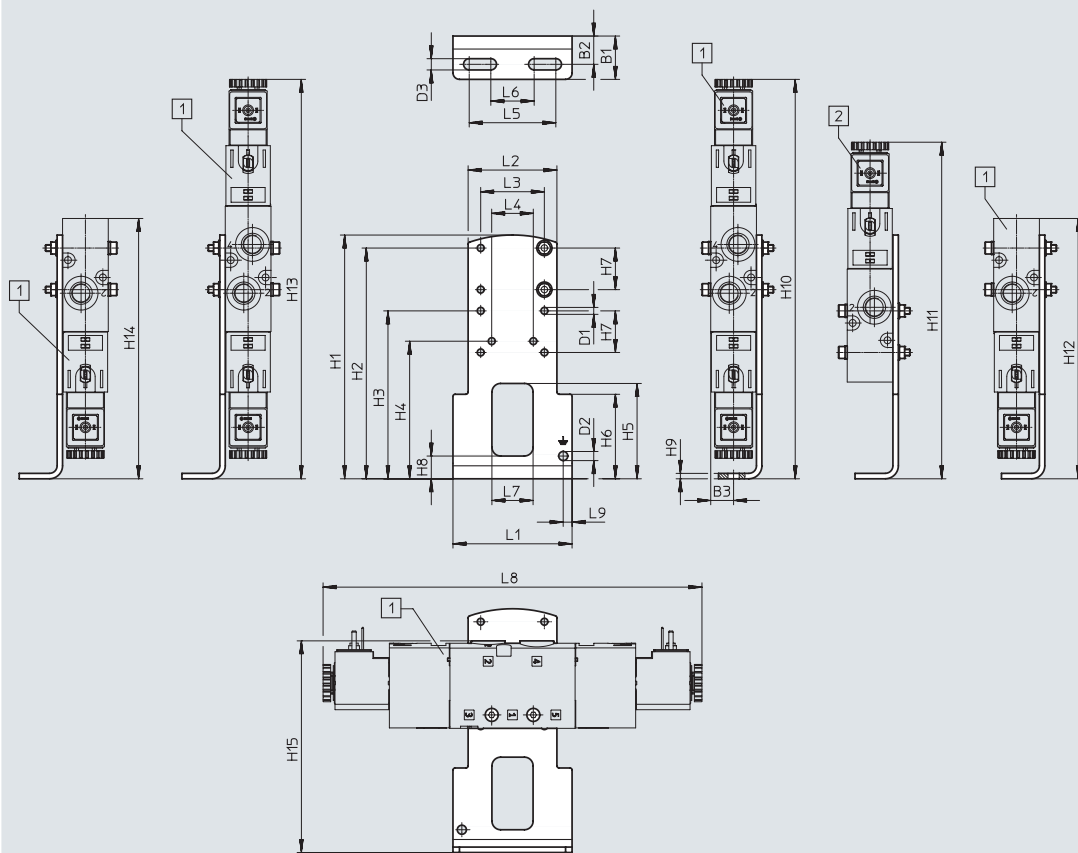
Type	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	L20
VUVS-LT20-B52-D-G18-...	30.6	—	29	—	76.9	56.9	36.9	8	45.6	22.5	52.9	2
VUVS-LT20-B52-ZD-G18-...		94.3		19.5								
VUVS-LT20-T32-...-MD-G18-...		—		—								
VUVS-LT20-T32-...-MZD-G18-...		94.3		19.5								

Accessories

Dimensions

Download CAD data → www.festo.com

Foot mounting



[1] VUVS-LT20-B52/T32
VUVS-LT20-M52
VUVS-LT20-M32

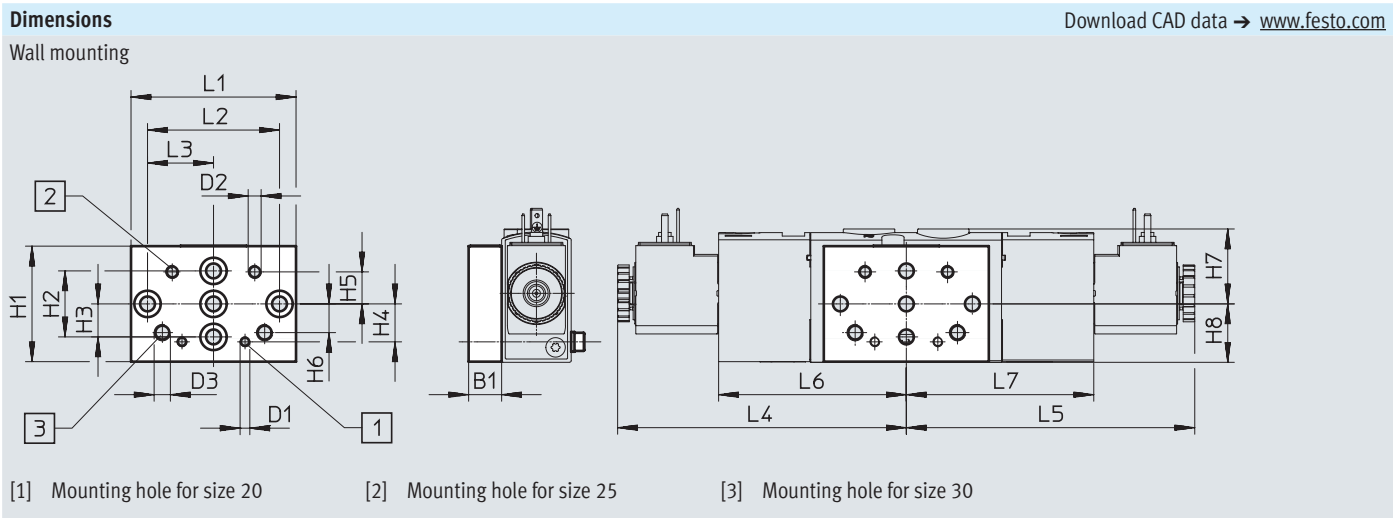
[2] VUVS-LT20-M52
VUVS-LT20-M32

Type		B1	B2	B3	D1 Ø	D2 Ø	D3	H1	H2	H3	H4
VAME-B10-20-A	VUVS-LT20-B52/T32	20	13.1	10.6	3.2	4.2	5.2	112.5	106.5	77.5	63.5
	VUVS-LT20-M52										
	VUVS-LT20-M32										

Type		H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-20-A	VUVS-LT20-B52/T32	44	39	19.2	10.5	2.5	184.4	—	184.4	184.4	184.4
	VUVS-LT20-M52							155.4	150.6		150.6
	VUVS-LT20-M32							109.8	109.8		109.8

Type		H15	L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-20-A	VUVS-LT20-B52/T32	97.7	55	41	29.4	19.2	40	20	19	174.9	4.1
	VUVS-LT20-M52									141.2	
	VUVS-LT20-M32									100.4	

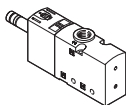
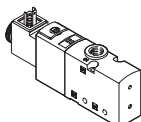
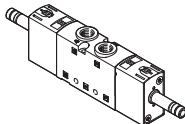
Accessories



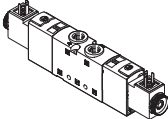
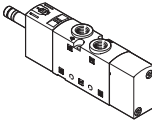
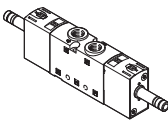
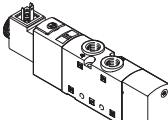
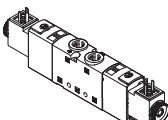
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-LT20-B52/T32	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-LT20-M52										
	VUVS-LT20-M32										

Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-LT20-B52/T32	22.7	17.7	50	40	20	87.5	87.5	56.9	56.9
	VUVS-LT20-M52							53.7		—
	VUVS-LT20-M32							12.9		—

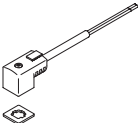
Accessories

Ordering data				
	Code	Valve function	Part no.	Type
3/2-way valve without solenoid coil (24 V DC)				
	Single solenoid, normally closed			
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	577490	VUVS-LT20-M32C-MD-G18-F7
		Mechanical spring return, external pilot air supply, flow direction not reversible	577491	VUVS-LT20-M32C-MZD-G18-F7
	Single solenoid, normally open			
	M32U-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	577492	VUVS-LT20-M32U-MD-G18-F7
		Mechanical spring return, external pilot air supply, flow direction not reversible	577493	VUVS-LT20-M32U-MZD-G18-F7
3/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, normally closed, type C			
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	577511	VVUVS-LT20-M32C-MD-G18-F7-1C1
		Mechanical spring return, external pilot air supply, flow direction not reversible	577512	VUVS-LT20-M32C-MZD-G18-F7-1C1
	Single solenoid, normally open, type C			
	M32U-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	577513	VUVS-LT20-M32U-MD-G18-F7-1C1
		Mechanical spring return, external pilot air supply, flow direction not reversible	577514	VUVS-LT20-M32U-MZD-G18-F7-1C1
2x 3/2-way valve without solenoid coil (24 V DC)				
	Single solenoid, normally closed			
	T32C	Mechanical spring return, internal pilot air supply, flow direction not reversible	577498	VUVS-LT20-T32C-MD-G18-F7
		Mechanical spring return, external pilot air supply, flow direction not reversible	577499	VUVS-LT20-T32C-MZD-G18-F7
	Single solenoid, normally open			
	T32U	Mechanical spring return, internal pilot air supply, flow direction not reversible	577500	VUVS-LT20-T32U-MD-G18-F7
		Mechanical spring return, external pilot air supply, flow direction not reversible	577501	VUVS-LT20-T32U-MZD-G18-F7
	Single solenoid, 1x normally open, 1x normally closed			
	T32H	Mechanical spring return, internal pilot air supply, flow direction not reversible	577502	VUVS-LT20-T32H-MD-G18-F7
		Mechanical spring return, external pilot air supply, flow direction not reversible	577503	VUVS-LT20-T32H-MZD-G18-F7

Accessories

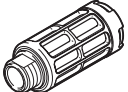
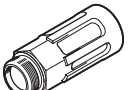
Ordering data				
	Code	Valve function	Part no.	Type
2x 3/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, normally closed, type C			
	T32C	Mechanical spring return, internal pilot air supply, flow direction not reversible	577519	VUVS-LT20-T32C-MD-G18-F7-1C1
		Mechanical spring return, external pilot air supply, flow direction not reversible	577520	VUVS-LT20-T32C-MZD-G18-F7-1C1
	Single solenoid, normally open, type C			
	T32U	Mechanical spring return, internal pilot air supply, flow direction not reversible	577521	VUVS-LT20-T32U-MD-G18-F7-1C1
		Mechanical spring return, external pilot air supply, flow direction not reversible	577522	VUVS-LT20-T32U-MZD-G18-F7-1C1
	Single solenoid, 1x normally open, 1x normally closed, type C			
	T32H	Mechanical spring return, internal pilot air supply, flow direction not reversible	577523	VUVS-LT20-T32H-MD-G18-F7-1C1
Mechanical spring return, external pilot air supply, flow direction not reversible		577524	VUVS-LT20-T32H-MZD-G18-F7-1C1	
5/2-way valve without solenoid coil (24 V DC)				
	Single solenoid			
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	577494	VUVS-LT20-M52-MD-G18-F7
		Mechanical spring return, external pilot air supply, flow direction not reversible	577495	VUVS-LT20-M52-MZD-G18-F7
	Double solenoid			
	B52	Internal pilot air supply, flow direction not reversible	577496	VUVS-LT20-B52-D-G18-F7
		External pilot air supply, flow direction not reversible	577497	VUVS-LT20-B52-ZD-G18-F7
5/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, type C			
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	577515	VUVS-LT20-M52-MD-G18-F7-1C1
		Mechanical spring return, external pilot air supply, flow direction not reversible	577516	VUVS-LT20-M52-MZD-G18-F7-1C1
	Double solenoid			
	B52	Internal pilot air supply, flow direction not reversible	577517	VUVS-LT20-B52-D-G18-F7-1C1
		External pilot air supply, flow direction not reversible	577518	VUVS-LT20-B52-ZD-G18-F7-1C1

Accessories

Ordering data		Description			Part no.	Type	
Solenoid coils for valves							
	Plug 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/50-60 Hz		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		
	Plug pattern type C, industry standard	24 V DC	–	8153948	VACS-C-E1-1		
	Single plug M8x1 A-coded to EN 61076-2-104, 4-pin	24 V DC	–	8135906	VACS-C-R1-1L		
	Single plug M12, A-coded, to EN 61076-2-101	24 V DC		8135907	VACS-C-R3-1L		
	Single plug M12, A-coded, pin assignment to DESINA	24 V DC		8135908	VACS-C-R4-1L		
	Single plug M8x1 A-coded to EN 61076-2-104, 3-pin	24 V DC		8135905	VACS-C-R8-1L		
	Single plug M8x1 A-coded to EN 61076-2-104, 3-pin	24 V DC	Holding current reduction, analogue, with integrated protective circuit	8135909	VACS-C-R8-1RAL		
	Single plug M8x1 A-coded to EN 61076-2-104, 4-pin	24 V DC		8135910	VACS-C-R1-1RAL		
	Single plug M12, A-coded, to EN 61076-2-101	24 V DC		8194567	VACS-C-R3-1RAL		
	Single plug M12, A-coded, pin assignment to DESINA	24 V DC		8135911	VACS-C-R4-1RAL		
Seal set							
	For solenoid coil to guarantee degree of protection 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							
	Plug pattern type C, to 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	
	3-pin, angled socket	Cable connector M12	0 ... 24 V DC	IP65	570367	MSSD-EB-M12-24VDC-SD-EX	
Adapter							
	Socket type C, to EN 175301-803	Plug M12x1, 2-pin, A-coded	12 ... 24 V AC/DC	IP65	188024	MSSD-EB-M12-MONO	
Plug socket with cable							
	Plug pattern type C, to EN 175301-803 Angled socket, 3-pin Cable, open end, 3-core		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 ¹⁾	–	2.5 m	151690	KMEB-1-230AC-2.5
					5 m	151691	KMEB-1-230AC-5
Illuminating seal							
	Plug pattern type C, to DIN EN 175301-803		24 V DC		151717	MEB-LD-12-24DC	
			230 V AC		151718	MEB-LD-230AC	

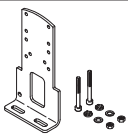
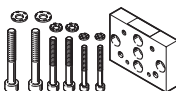
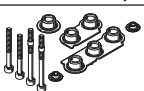
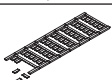
1) Plug socket 230 V AC can be used for 24 V DC without LED configuration.

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 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	
		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 G1/8 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 G1/8 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			
Silencer						
	With connecting thread G, polymer version	G1/8	2307	U-1/8	1	
			534222	U-1/8-50	50	
	With connecting thread G, metal design	G1/8	6841	U-1/8-B	1	
	With connecting thread G, sintered version, long	G1/8	1205860	AMTE-M-LH-G18	20	

1) Packaging unit

Accessories

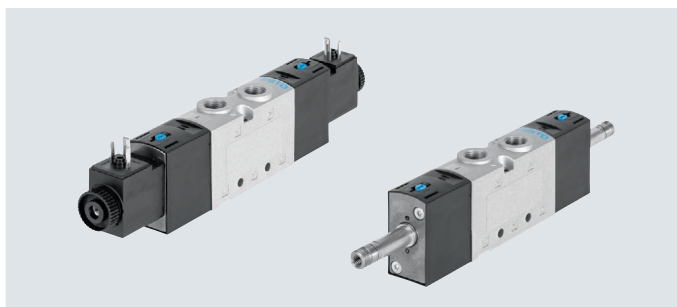
Ordering data	Description	Weight [g]	Part no.	Type
Foot mounting				
	With screw set for attaching the valve to the foot mounting	97	576412	VAME-B10-20-A
Wall mounting				
	With screw set for attaching the valve to the wall mounting	53	576413	VAME-B10-20-W
Assortment of spare parts				
	Set comprising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

Datasheet

-  - Flow rate
up to 1000 l/min

-  - Valve width
26.5 mm

-  - Voltage
24 V DC



General technical data							
Valve function	3/2-way valve					5/2-way valve	
Order code for valves	M32C	M32U	T32C	T32U	T32H	M52	B52
Valve width [mm]	26.5						
Nominal width [mm]	6.9	6.6	6.9	6.6	6.9	6.6	6.6
Design	Poppet seat						
Flow direction	Not reversible						
Pilot air supply	Internal or external						
Type of control	Piloted						
Manual override	Non-detenting, detenting						
Overlap	Negative overlap						
Sealing principle	Soft						
Type of mounting	Optionally via through-hole or on manifold rail						
Standard nominal flow rate qnN [l/min]	1000						
Actuation type	Electrical						
Mounting position	Any						
Exhaust air function	Can be throttled						
Connection for venting hole	Not ducted						
b value	0.4	0.3	0.4	0.3	0.4	0.3	0.2
c value [l/sbar]	4.4	4.2	4.5	4.4	4.4	4.5	4.6
Pneumatic connection	1, 2, 3	G1/4	G1/4	G1/4	G1/4	G1/4	G1/4
	4, 5	–	–	G1/4	G1/4	G1/4	G1/4
Pilot air port 12, 14	M5	M5	M5	M5	M5	M5	M5
Pilot exhaust air port 82, 84	M5	M5	M5	M5	M5	M5	M5

ATEX	
Type	VUVS-LT-...-EX2
ATEX category for gas	II 3G
Type of ignition protection for gas	Ex ec IIC T4 Gc X
ATEX category for dust	II 3D
Type of ignition protection for dust	Ex tc IIIC T115°C Dc X
Explosion-proof ambient temperature [°C]	–10°C ≤ Ta ≤ +60 °C
CE marking (see declaration of conformity) ¹⁾	To EU Explosion Protection Directive (ATEX)
UKCA marking (see declaration of conformity) ¹⁾	To UK explosion regulations
Explosion protection certification outside the EU	EPL Dc (GB)
	EPL Gc (GB)

1) For information about the area of use, see the declaration of conformity at: www.festo.com/catalogue/... → Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

Datasheet

Technical data								
Order code for valves		M32C	M32U	T32C	T32U	T32H	M52	B52
Normal position		Closed	Open	2x normally closed	2x normally open	1x open/ 1x closed	–	–
Stable position		Monostable	Monostable	Monostable	Monostable	Monostable	Monostable	Bistable
Reset method		Mechanical spring		Mechanical spring			Mechanical spring	–
Switching times in [ms]	On	10	10	10	10	10	13	–
	Off	23	27	25	25	25	22	–
	Change-over	–	–	–	–	–	–	10
Product weight without solenoid coil	[g]	208	208	312	312	312	299	310
Product weight with solenoid coil	[g]	260	260	415	415	415	351	415

Safety characteristics								
Max. positive test pulse with logic 0		[µs]	2000 (valves with VACF-B-...-1)					
Max. negative test pulse with logic 1		[µs]	3600 (valves with VACF-B-...-1)					
Shock resistance			Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27					
Vibration resistant			Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6					

Operating and environmental conditions								
Order code for valves		M32C	M32U	T32C	T32U	T32H	M52	B52
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]						
Pilot medium		Compressed air to ISO 8573-1:2010 [7:4:4]						
Note on the operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)						
Cleanroom class		ISO class 6						
Operating pressure with internal pilot air supply	[MPa]	0.25 ... 1					0.25 ... 1	0.15 ... 1
	[bar]	2.5 ... 10					2.5 ... 10	1.5 ... 10
Operating pressure with external pilot air supply	[MPa]	−0.09 ... 1					0.25 ... 1	0.15 ... 1
	[bar]	−0.9 ... 10					2.5 ... 10	1.5 ... 10
Pilot pressure	[MPa]	0.25 ... 1					0.25 ... 1	0.15 ... 1
	[bar]	2.5 ... 10					2.5 ... 10	1.5 ... 10
Ambient temperature	[°C]	−5 ... +60					−10 ... +60	
Temperature of medium	[°C]	−5 ... +60					−10 ... +60	
Certification		c UL us - Recognized (OL)						
Corrosion resistance class CRC ¹⁾		2						

1) More information www.festo.com/x/topic/crc

Datasheet

Electrical data		
	With solenoid coil	Without solenoid coil
Electrical connection	Plug type C to EN 175301-803, plug type B to industry standard (11 mm)	Via solenoid coil → Internet: vacf
Operating voltage [V DC]	24	
Permitted voltage fluctuations [%]	10	
Power [W]	3.3	
Duty cycle [%]	100	
Degree of protection to EN 60529	IP65 with plug socket	

Materials	
Housing	Die-cast aluminium (painted)
Seals	HNBR, NBR, TPE-U(PU)
Screws	Galvanised steel
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

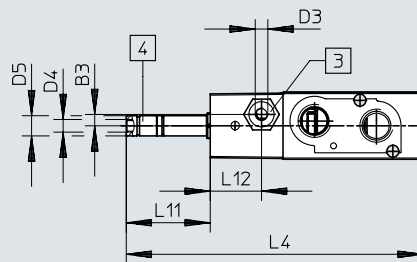
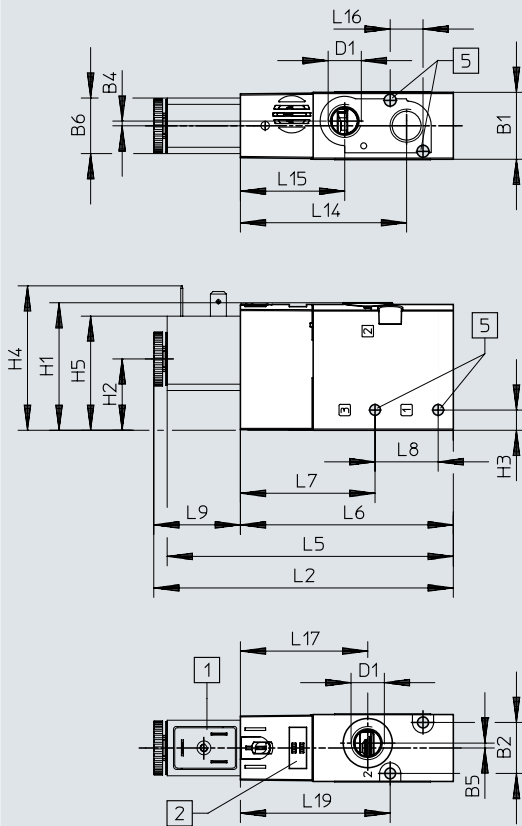
Datasheet

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

[4] Port 10/12 for pilot air supply

[6] Port 82 for pilot exhaust air

[7] For screw M4

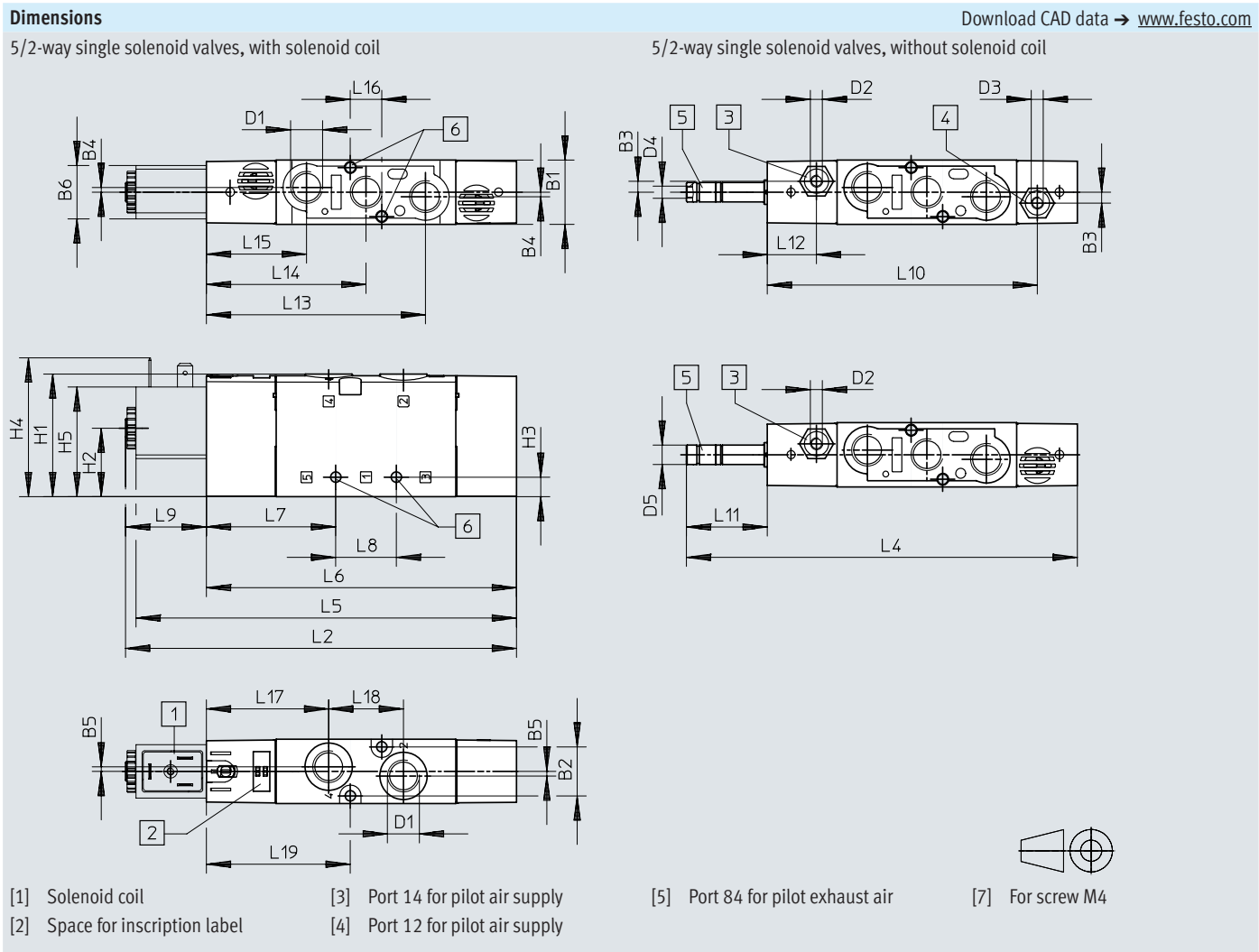
[2] Space for inscription label



Type	B1	B2	B3	B4	B5	B6	D1	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-LT25-M32-...D-G14-...	26.5	20.2	–	1.9	1.9	22	G1/4	–	M5	8	50.5	28.2	8	57.2	45.2
VUVS-LT25-M32-...ZD-G14-...			4.5					M5							

Type	L2	L4	L5	L6	L7	L8	L9	L11	L12	L14	L15	L16	L17	L19
VUVS-LT25-M32-...D-G14-...	118.7	117.6	113.3	84.3	53.3	25	34.4	33.3	–	65.8	41.3	13	50.4	59.3
VUVS-LT25-M32-...ZD-G14-...									20.3					

Datasheet



Type	B1	B2	B3	B4	B5	B6	D1	D2	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-LT25-M52-...D-G14-...	26.5	20.2	—	1.9	1.9	22	G1/4	—	—	M5	8	50.5	28.2	8	57.2	45.2
VUVS-LT25-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-LT25-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-LT25-M52-...ZD-G14-...								111.3		20.3							

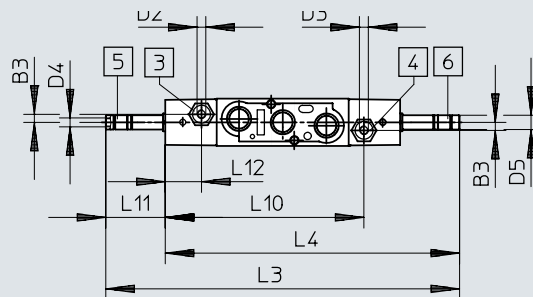
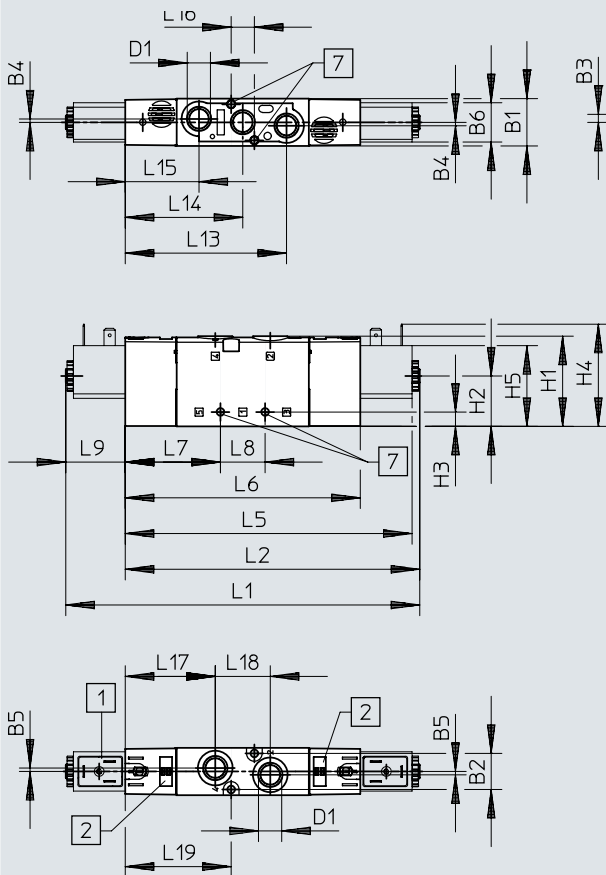
Datasheet

Dimensions

Download CAD data → www.festo.com

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

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



- [1] Solenoid coil
[2] Space 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

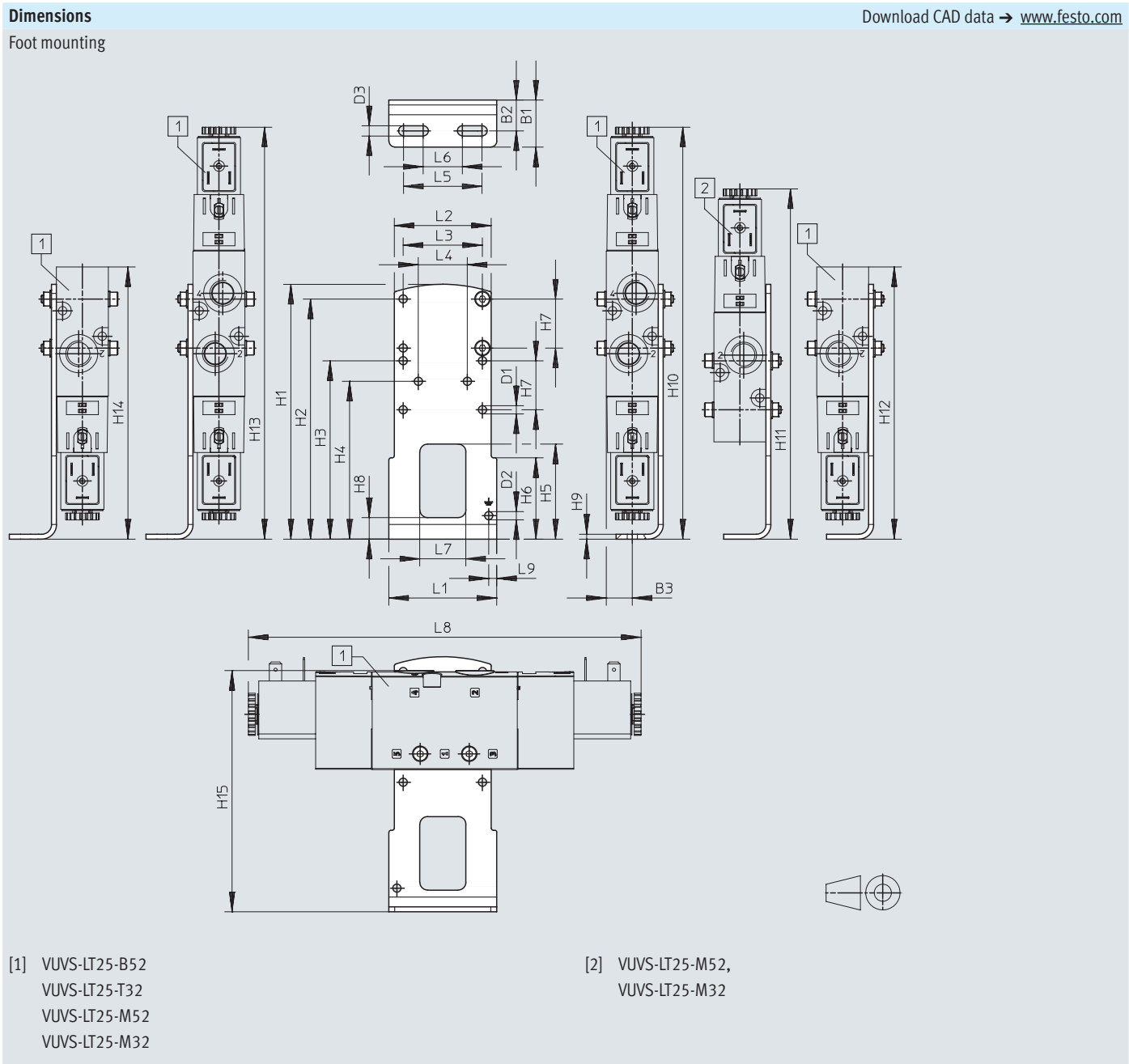


Type	B1	B2	B3	B4	B5	B6	D1	D2	D3	D4	D5 ø	H1
VUVS-LT25-B52-D-G14-...	26.5	20.2	—	1.9	1.9	22	G1/4	—	—	M5	8	50.5
VUVS-LT25-B52-ZD-G14-...			4.5					M5	M5			
VUVS-LT25-T32-MD-G14-...			—					—	—			
VUVS-LT25-T32-MZD-G14-...			4.5					M5	M5			

Type	H2	H3	H4	H5	L1	L2	L3	L4	L5	L6	L7	L8
VUVS-LT25-B52-D-G14-...	28.2	8	57.2	45.2	200.3	166	198.2	164.9	160.6	131.6	53.3	25
VUVS-LT25-B52-ZD-G14-...												
VUVS-LT25-T32-MD-G14-...												
VUVS-LT25-T32-MZD-G14-...												

Type	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-LT25-B52-D-G14-...	33.3	—	33.3	—	90.3	65.8	41.3	13	50.4	30.8	59.3
VUVS-LT25-B52-ZD-G14-...		111.3		20.3							
VUVS-LT25-T32-MD-G14-...		—		—							
VUVS-LT25-T32-MZD-G14-...		111.3		20.3							

Accessories



Type		B1	B2	B3	D1 Ø	D2 Ø	D3	H1	H2	H3	H4
VAME-B10-25-A	VUVS-LT25-B52/T32	24	15.8	13.3	4.2	4.2	5.2			91	80.5
	VUVS-LT25-M52										
	VUVS-LT25-M32										

Type		H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-25-A	VUVS-LT25-B52/T32	48.5	41.5	25	11	2.5	210.2	–	210.2	210.2	210.2
	VUVS-LT25-M52							178.7	172		172
	VUVS-LT25-M32								138.9		138.9

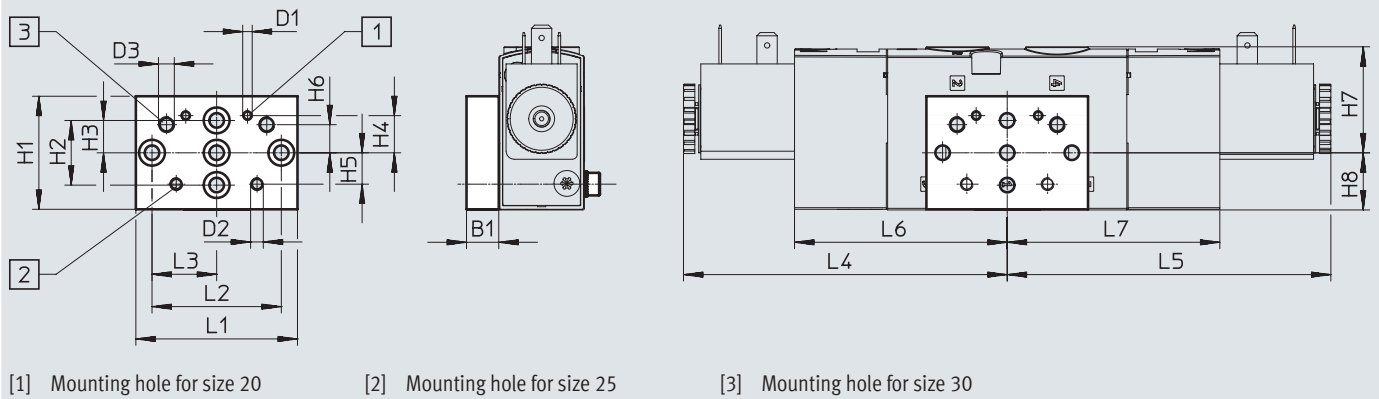
Type		H15	L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-25-A	VUVS-LT25-B52/T32	123	55	49.4	40.4	25	40	20	23.5	200.3	4.1
	VUVS-LT25-M52									162.2	
	VUVS-LT25-M32									118.7	

Accessories

Dimensions

Download CAD data → www.festo.com

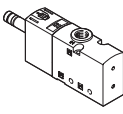
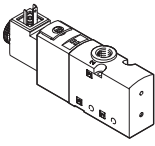
Wall mounting



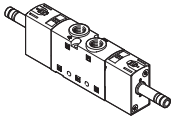
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-LT25-B52/T32	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-LT25-M52										
	VUVS-LT25-M32										

Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-LT25-B52/T32	32.8	17.7	50	40	20	100.2	100.2	65.8	65.8
	VUVS-LT25-M52							62		—
	VUVS-LT25-M32							18.5		—

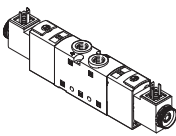
Accessories

Ordering data				
	Code	Valve function	Part no.	Type
3/2-way valve without solenoid coil				
	Single solenoid, normally closed			
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035167	VUVS-LT25-M32C-MD-G14-F8
		Mechanical spring return, external pilot air supply, flow direction not reversible	8035168	VUVS-LT25-M32C-MZD-G14-F8
	Single solenoid, normally open			
	M32U-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035174	VUVS-LT25-M32U-MD-G14-F8
		Mechanical spring return, external pilot air supply, flow direction not reversible	8035175	VUVS-LT25-M32U-MZD-G14-F8
3/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, normally closed, type C			
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035169	VUVS-LT25-M32C-MD-G14-F8-1C1
		Mechanical spring return, external pilot air supply, flow direction not reversible	8035170	VUVS-LT25-M32C-MZD-G14-F8-1C1
	Single solenoid, normally closed, type B			
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035171	VUVS-LT25-M32C-MD-G14-F8-1B2
		Mechanical spring return, external pilot air supply, flow direction not reversible	8035172	VUVS-LT25-M32C-MZD-G14-F8-1B2
	Single solenoid, normally open, type C			
	M32U-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035176	VUVS-LT25-M32U-MD-G14-F8-1C1
		Mechanical spring return, external pilot air supply, flow direction not reversible	8035177	VUVS-LT25-M32U-MZD-G14-F8-1C1
	Single solenoid, normally open, type B			
	M32U-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035178	VUVS-LT25-M32U-MD-G14-F8-1B2
		Mechanical spring return, external pilot air supply, flow direction not reversible	8035179	VUVS-LT25-M32U-MZD-G14-F8-1B2

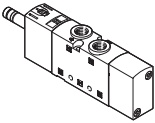
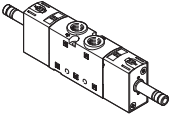
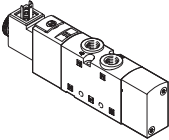
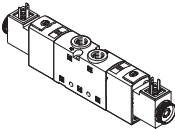
Accessories

Ordering data				
	Code	Valve function	Part no.	Type
2x 3/2-way valve without solenoid coil				
	Single solenoid, normally closed			
	T32C	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035195	VUVS-LT25-T32C-MD-G14-F8
		Mechanical spring return, external pilot air supply, flow direction not reversible	8035196	VUVS-LT25-T32C-MZD-G14-F8
	Single solenoid, normally open			
	T32U	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035202	VUVS-LT25-T32U-MD-G14-F8
		Mechanical spring return, external pilot air supply, flow direction not reversible	8035203	VUVS-LT25-T32U-MZD-G14-F8
	Single solenoid, 1x normally open, 1x normally closed			
	T32H	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035209	VUVS-LT25-T32H-MD-G14-F8
Mechanical spring return, external pilot air supply, flow direction not reversible		8035210	VUVS-LT25-T32H-MZD-G14-F8	

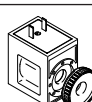
Accessories

Ordering data				
	Code	Valve function	Part no.	Type
2x 3/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, normally closed, type C			
	T32C	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035197	VUVS-LT25-T32C-MD-G14-F8-1C1
		Mechanical spring return, external pilot air supply, flow direction not reversible	8035198	VUVS-LT25-T32C-MZD-G14-F8-1C1
	Single solenoid, normally closed, type B			
	T32C	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035199	VUVS-LT25-T32C-MD-G14-F8-1B2
		Mechanical spring return, external pilot air supply, flow direction not reversible	8035200	VUVS-LT25-T32C-MZD-G14-F8-1B2
	Single solenoid, normally open, type C			
	T32U	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035204	VUVS-LT25-T32U-MD-G14-F8-1C1
		Mechanical spring return, external pilot air supply, flow direction not reversible	8035205	VUVS-LT25-T32U-MZD-G14-F8-1C1
	Single solenoid, normally open, type B			
	T32U	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035206	VUVS-LT25-T32U-MD-G14-F8-1B2
		Mechanical spring return, external pilot air supply, flow direction not reversible	8035207	VUVS-LT25-T32U-MZD-G14-F8-1B2
	Single solenoid, 1x normally open, 1x normally closed, type C			
	T32H	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035211	VUVS-LT25-T32H-MD-G14-F8-1C1
		Mechanical spring return, external pilot air supply, flow direction not reversible	8035212	VUVS-LT25-T32H-MZD-G14-F8-1C1
	Single solenoid, 1x normally open, 1x normally closed, type B			
	T32H	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035213	VUVS-LT25-T32H-MD-G14-F8-1B2
		Mechanical spring return, external pilot air supply, flow direction not reversible	8035214	VUVS-LT25-T32H-MZD-G14-F8-1B2

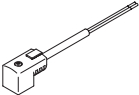
Accessories

Ordering data				
	Code	Valve function	Part no.	Type
5/2-way valve without solenoid coil				
	Single solenoid			
	M52	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035181	VUVS-LT25-M52-MD-G14-F8
		Mechanical spring return, external pilot air supply, flow direction not reversible	8035182	VUVS-LT25-M52-MZD-G14-F8
	Double solenoid			
	B52	Internal pilot air supply, flow direction not reversible	8035188	VUVS-LT25-B52-D-G14-F8
		External pilot air supply, flow direction not reversible	8035189	VUVS-LT25-B52-ZD-G14-F8
5/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, type C			
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035183	VUVS-LT25-M52-MD-G14-F8-1C1
		Mechanical spring return, external pilot air supply, flow direction not reversible	8035184	VUVS-LT25-M52-MZD-G14-F8-1C1
	Single solenoid, type B			
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035185	VUVS-LT25-M52-MD-G14-F8-1B2
		Mechanical spring return, external pilot air supply, flow direction not reversible	8035186	VUVS-LT25-M52-MZD-G14-F8-1B2
	Double solenoid, type C			
	B52	internal pilot air supply, flow direction not reversible	8035190	VUVS-LT25-B52-D-G14-F8-1C1
		External pilot air supply, flow direction not reversible	8035191	VUVS-LT25-B52-ZD-G14-F8-1C1
	Double solenoid, type B			
	B52	Internal pilot air supply, flow direction not reversible	8035192	VUVS-LT25-B52-D-G14-F8-1B2
		External pilot air supply, flow direction not reversible	8035193	VUVS-LT25-B52-ZD-G14-F8-1B2

Accessories

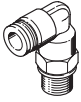
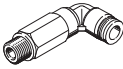
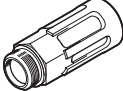
Ordering data		Description		Part no.	Type
Solenoid coils for valves					
	Plug pattern type C, to DIN EN 175301-803	12 V DC	–	8030810	VACF-B-C1-5
		24 V DC		8030811	VACF-B-C1-1
		48 V DC		8030812	VACF-B-C1-7
		24 V AC/50-60 Hz		8030813	VACF-B-C1-1A
		48 V AC/50-60 Hz		8030814	VACF-B-C1-7A
		110/120 V AC/50-60 Hz		8030815	VACF-B-C1-16B
		230/240 V AC/50-60 Hz		8030817	VACF-B-C1-3W
	Plug pattern type C, industry standard	24 V DC	–	8153947	VACF-B-E1-1
	Plug pattern type B, to DIN EN 175301-803	24 V DC	3.3 W	8220305	VACF-B-B-1
			4.5 W	8235213	VACF-B-45-B1-1
	Plug pattern type B, industry standard	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
	Single plug M8x1 A-coded to EN 61076-2-104, 4-pin	24 V DC	Holding current reduction, analogue, with integrated protective circuit	8150875	VACF-B-R1-1L
	Single plug M12, A-coded, to EN 61076-2-101	24 V DC		8150876	VACF-B-R3-1L
	Single plug M12, A-coded, pin assignment to DESINA	24 V DC		8150877	VACF-B-R4-1L
	Single plug M8x1 A-coded to EN 61076-2-104, 3-pin	24 V DC		8150874	VACF-B-R8-1L
	Single plug M8x1 A-coded to EN 61076-2-104, 3-pin	24 V DC		8150878	VACF-B-R8-1RAL
	Single plug M8x1 A-coded to EN 61076-2-104, 4-pin	24 V DC		8150879	VACF-B-R1-1RAL
	Single plug M12, A-coded, to EN 61076-2-101	24 V DC		8150873	VACF-B-R3-1RAL
	Single plug M12, A-coded, pin assignment to DESINA	24 V DC		8150880	VACF-B-R4-1RAL
Seal set for solenoid coil					
	Plug pattern type C to guarantee degree of protection IP67	–	2643771	VAMC-B10-C-B-S8	
	Plug pattern type B to guarantee degree of protection IP67	–	8034609	VAMC-B10-B-B-S8	
Cover cap					
	For manual override, non-detenting or covered	–	8028240	VAMC-B10-20-CH2	

Accessories

Ordering data		Description				Part no.	Type
Plug socket							
	Plug pattern type C, to 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	
	3-pin, angled socket	Cable connector M12	0 ... 24 V DC	IP65	570367	MSSD-EB-M12-24VDC-SD-EX	
	Plug pattern type B, industry standard						
	3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/DC	IP65	539710	MSSD-F-M16	
Cable fitting Pg9		34431			MSSD-F		
Adapter							
	Socket type C, to EN 175301-803	Plug M12x1, 2-pin, A-coded	12 ... 24 V AC/DC	IP65	188024	MSSD-EB-M12-MONO	
Plug socket with cable							
	Plug pattern type C, to EN 175301-803						
	Angled socket, 3-pin Cable, open end, 3-core	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 ¹⁾	—	2.5 m	151690	KMEB-1-230AC-2.5	
				5 m	151691	KMEB-1-230AC-5	
				Plug pattern type B, industry standard			
	Angled socket, 3-pin Cable, open end, 3-core	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 ¹⁾	—	2.5 m	30936	KMF-1-230AC-2.5	
				5 m	30938	KMF-1-230AC-5	
Illuminating seal							
	Plug pattern type C, to DIN EN 175301-803	24 V DC			151717	MEB-LD-12-24DC	
		230 V AC			151718	MEB-LD-230AC	
	Plug pattern type B, industry standard	24 V DC			19143	MF-LD-12-24DC	
		230 V AC			19144	MF-LD-230AC	

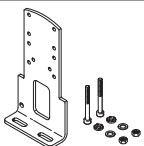
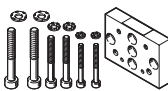
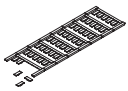
1) Plug socket 230 V AC can be used for 24 V DC without LED configuration.

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 G1/4 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 G1/4 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 G1/4 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
Silencer					
	With connecting thread G, polymer version	G1/4	2316	U-1/4	1
			534223	U-1/4-20	20
	With connecting thread G, metal version	G1/4	6842	U-1/4-B	1
	With connecting thread G, sintered version, long	G1/4	1205861	AMTE-M-LH-G14	20

1) Packaging unit

Accessories

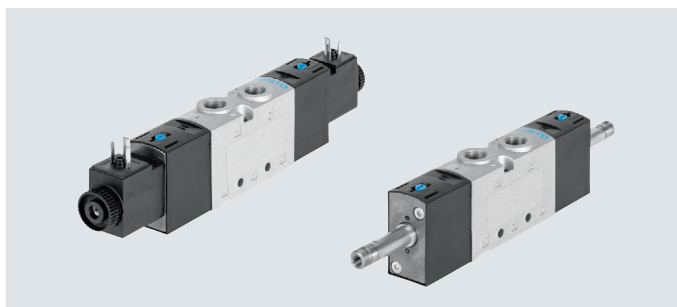
Ordering data	Description	Weight [g]	Part no.	Type
Foot mounting				
	With screw set for attaching the valve to the foot mounting	130	2293485	VAME-B10-25-A
Wall mounting				
	With screw set for attaching the valve to the wall mounting	53	576413	VAME-B10-20-W
Assortment of spare parts				
	Set comprising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

Datasheet

-  - Flow rate
up to 1800 l/min

-  - Valve width
31 mm

-  - Voltage
24 V DC



General technical data								
Valve function		3/2-way valve					5/2-way valve	
Order code for valves		M32C	M32U	T32C	T32U	T32H	M52	B52
Valve width [mm]		31						
Nominal width [mm]		7.9	7.9	7.9	7.8	7.8	8.1	8.7
Design		Poppet seat						
Flow direction		Not reversible						
Pilot air supply		Internal or external						
Type of control		Piloted						
Manual override		Non-detenting, detenting						
Overlap		Negative overlap						
Sealing principle		Soft						
Type of mounting		Optionally via through-hole or on manifold rail						
Standard nominal flow rate qnN [l/min]		1600					1800	
Actuation type		Electrical						
Mounting position		Any						
Exhaust air function		Can be throttled						
Connection for venting hole		Not ducted						
b value		0.4	0.2	0.4	0.3	0.3	0.3	0.3
c value [l/sbar]		6.0	7.0	6.0	6.7	6.7	9.9	9.9
Pneumatic connection	1, 2, 3	G3/8	G3/8	G3/8	G3/8	G3/8	G3/8	G3/8
	4, 5	–	–	G3/8	G3/8	G3/8	G3/8	G3/8
Pilot air port 12, 14		G1/8	G1/8	G1/8	G1/8	G1/8	G1/8	G1/8
Pilot exhaust air port 82, 84		M5	M5	M5	M5	M5	M5	M5

ATEX	
Type	VUVS-LT-...-EX2
ATEX category for gas	II 3G
Type of ignition protection for gas	Ex ec IICT4 Gc X
ATEX category for dust	II 3D
Type of ignition protection for dust	Ex tc IIIC T115°C Dc X
Explosion-proof ambient temperature [°C]	–10°C ≤ Ta ≤ +60 °C
CE marking (see declaration of conformity) ¹⁾	To EU Explosion Protection Directive (ATEX)
UKCA marking (see declaration of conformity) ¹⁾	To UK explosion regulations
Explosion protection certification outside the EU	EPL Dc (GB)
	EPL Gc (GB)

1) For information about the area of use, see the declaration of conformity at: www.festo.com/catalogue/... → Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

Datasheet

Technical data								
Order code for valves		M32C	M32U	T32C	T32U	T32H	M52	B52
Normal position		Closed	Open	2x normally closed	2x normally open	1x open/ 1x closed	–	–
Stable position		Monostable	Monostable	Monostable	Monostable	Monostable	Monostable	Bistable
Reset method		Mechanical spring		Mechanical spring			Mechanical spring	–
Switching times in [ms]	On	13	14	13	14	13	17	–
	Off	32	36	33	35	37	26	–
	Change-over	–	–	–	–	–	–	13
Product weight without solenoid coil	[g]	305	305	442	442	442	432	438
Product weight with solenoid coil	[g]	359	359	543	543	543	486	542

Safety characteristics		
Max. positive test pulse with logic 0	[µs]	2000 (valves with VACF-B-...-1)
Max. negative test pulse with logic 1	[µs]	3600 (valves with VACF-B-...-1)
Shock resistance		Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Vibration resistant		Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

Operating and environmental conditions								
Order code for valves		M32C	M32U	T32C	T32U	T32H	M52	B52
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]						
Pilot medium		Compressed air to ISO 8573-1:2010 [7:4:4]						
Note on the operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)						
Cleanroom class		ISO class 6						
Operating pressure with internal pilot air supply	[MPa]	0.25 ... 1					0.25 ... 1	0.15 ... 1
	[bar]	2.5 ... 10					2.5 ... 10	1.5 ... 10
Operating pressure with external pilot air supply	[MPa]	0.1 ... 1					0.25 ... 1	0.15 ... 1
	[bar]	1.0 ... 10					2.5 ... 10	1.5 ... 10
Pilot pressure	[MPa]	0.25 ... 1					0.25 ... 1	0.15 ... 1
	[bar]	2.5 ... 10					2.5 ... 10	1.5 ... 10
Ambient temperature	[°C]	–10 ... +60						
Temperature of medium	[°C]	–10 ... +60						
Certification		c UL us - Recognized (OL)						
Corrosion resistance class CRC ¹⁾		2						

1) More information www.festo.com/x/topic/crc

Datasheet

Electrical data		With solenoid coil	Without solenoid coil				
Electrical connection		Plug type C to EN 175301-803, plug type B to industry standard (11 mm)	Via solenoid coil → Internet: vacf				
Operating voltage	[V DC]	24					
Permitted voltage fluctuations	[%]	10					
Power	[W]	3.3					
Duty cycle	[%]	100					
Degree of protection to EN 60529		IP65 with plug socket					
Materials							
Order code for valves	M32C	M32U	T32C	T32U	T32H	M52	B52
Housing	Die-cast aluminium (painted)						
Seals	HNBR, NBR, TPE-U(PU)						
Piston spool	Wrought aluminium alloy					POM	POM
Screws	Galvanised steel						
Note on materials	RoHs-compliant						
LABS (PWIS) conformity	VDMA24364-B1/B2-L						

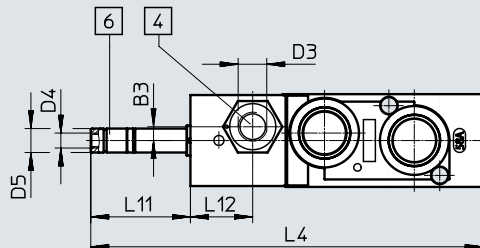
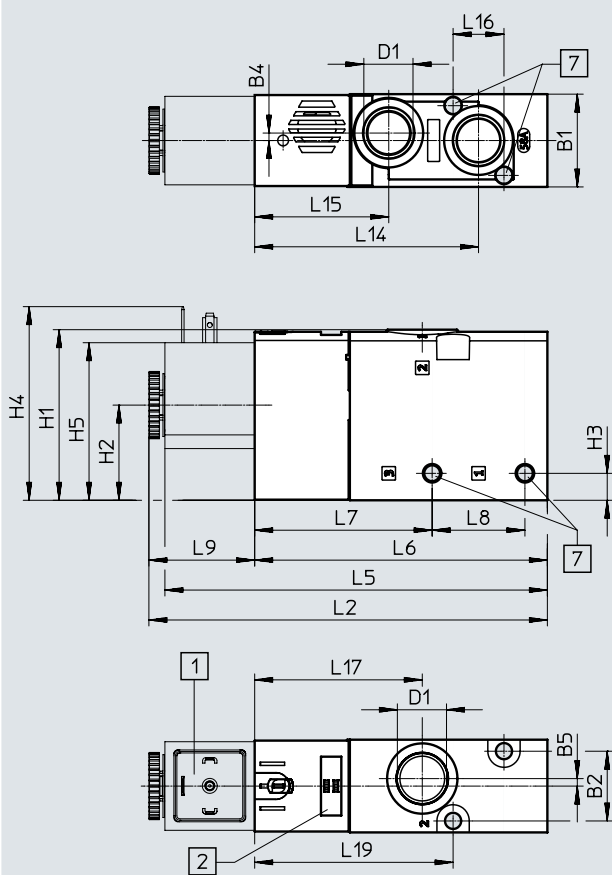
Datasheet

Dimensions

Download CAD data → www.festo.com

3/2-way valves, with solenoid coil

3/2-way valves, without solenoid coil



[1] Solenoid coil

[4] Port 10/12 for pilot air supply

[6] Port 82 for pilot exhaust air

[7] For screw M5

[2] Space for inscription label

Type	B1	B2	B3	B4	B5	D1	D3	D4	D5 ø	H1	H2	H3	H4	H5
VUVS-LT30-M32....D-G38-...	31	23.3	–	2.5	2.5	G3/8	–	M5	8	57	31.8	9	64.7	52.6
VUVS-LT30-M32....ZD-G38-...			4.6				G1/8							

Type	L2	L4	L5	L6	L7	L8	L9	L11	L12	L14	L15	L16	L17	L19
VUVS-LT30-M32....D-G38-...	133.2	131.1	127.8	97.8	59.3	31	35.4	33.3	–	74.8	44.8	17	56	66.3
VUVS-LT30-M32....ZD-G38-...									20.8					

Datasheet

Dimensions

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

Download CAD data → www.festo.com

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

[1] Solenoid coil interface type B/
type C

[2] Space 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 Ø	H1	H2	H3	H4	H5
VUVS-LT30-M52-...D-G38-...	31	23.3	—	2.5	2.5	G3/8	—	—	M5	8	57	31.8	9	64.7	52.6
VUVS-LT30-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-LT30-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-LT30-M52-...ZD-G38-...								128.8		20.8							

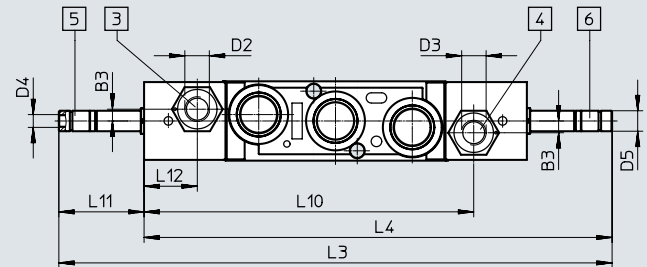
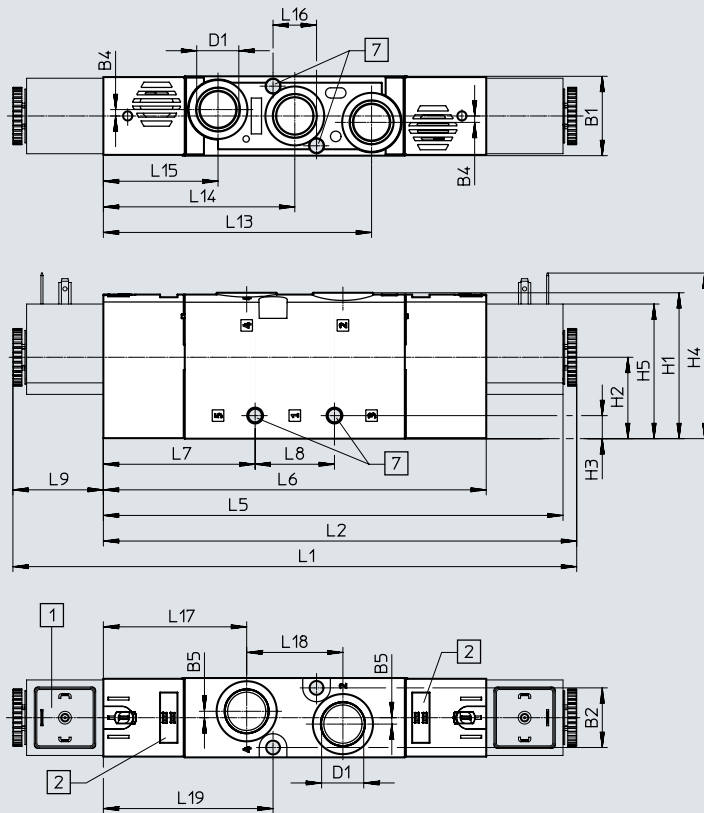
Datasheet

Dimensions

Download CAD data → www.festo.com

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

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



[1] Solenoid coil interface type B/
type C

[2] Space 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-LT30-T32...-MD-G38-...	31	23.3	–	2.5	2.5	G3/8	–	–	M5	8	57	31.8	9	64.7	52.6
VUVS-LT30-T32...-MZD-G38-...			4.6				G1/8	G1/8							
VUVS-LT30-B52-D-G38-...			–				–	–							
VUVS-LT30-B52-ZD-G38-...			4.6				G1/8	G1/8							

Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
VUVS-LT30-T32...-MD-G38-...	220.3	185	216.2	182.9	179.6	149.6	59.3	31	35.4	–
VUVS-LT30-T32...-MZD-G38-...										128.8
VUVS-LT30-B52-D-G38-...										–
VUVS-LT30-B52-ZD-G38-...										128.8

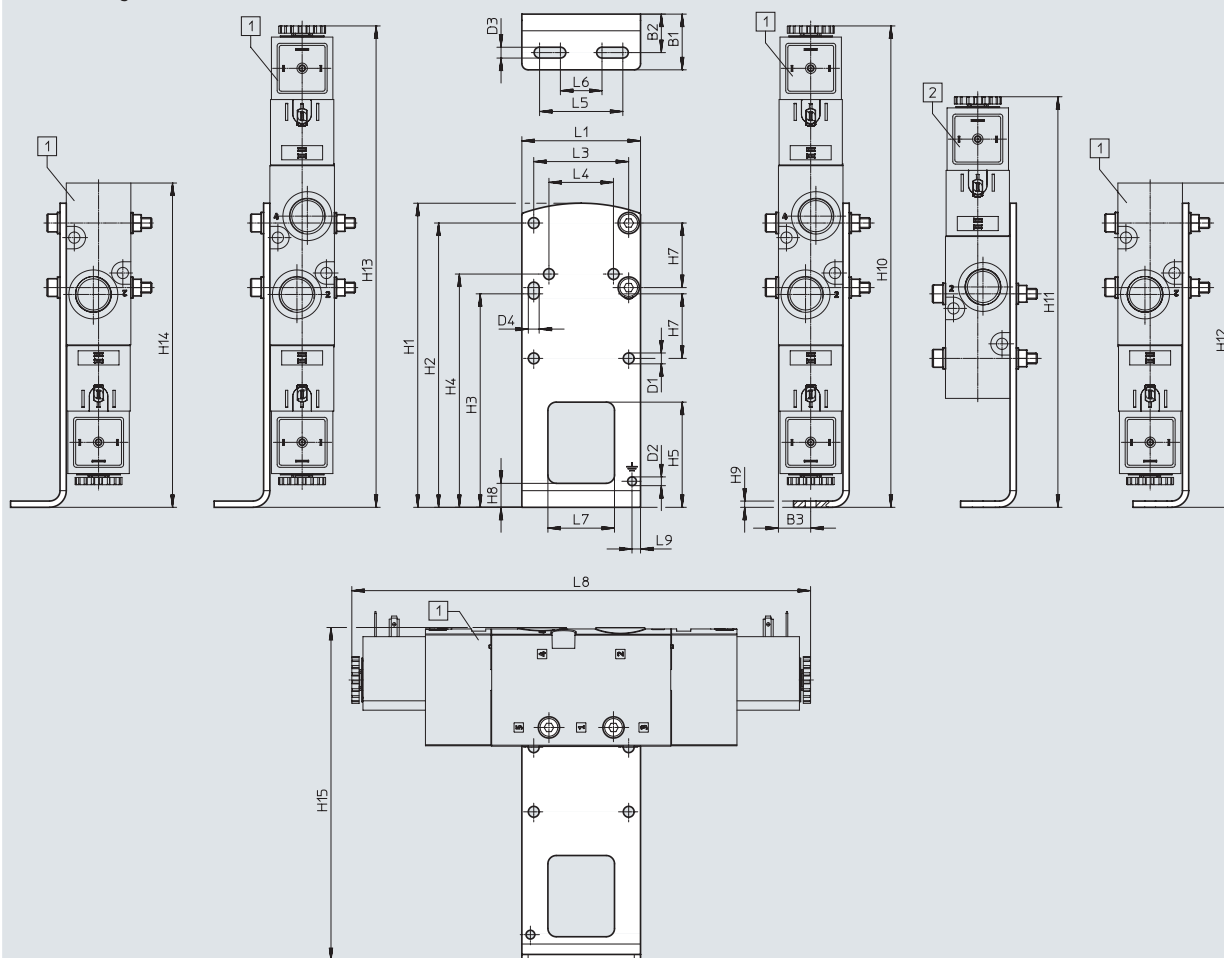
Type	L11	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-LT30-T32...-MD-G38-...	33.3	–	104.8	74.8	44.8	17	56	37.6	66.3
VUVS-LT30-T32...-MZD-G38-...		20.8							
VUVS-LT30-B52-D-G38-...		–							
VUVS-LT30-B52-ZD-G38-...		20.8							

Accessories

Dimensions

Download CAD data → www.festo.com

Foot mounting



[1] VUVS-LT30-B52
VUVS-LT30-T32
VUVS-LT30-M52
VUVS-LT30-M32

[2] VUVS-LT30-M52,
VUVS-LT30-M32

Type		B1	B2	B3	D1 Ø	D2 Ø	D3	D4	H1	H2	H3
VAME-B10-30-A	VUVS-LT30-B52/T32	26.8	18.5	15.5	5.2	4.2	5.2	5.2	146	136.5	102.5
	VUVS-LT30-M52										
	VUVS-LT30-M32										

Type		H4	H5	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-30-A	VUVS-LT30-B52/T32	112	50.5	31	11.5	3	231.2	—	231.2	231.2	231.2
	VUVS-LT30-M52							197.2	191.5		191.5
	VUVS-LT30-M32							144	144		144

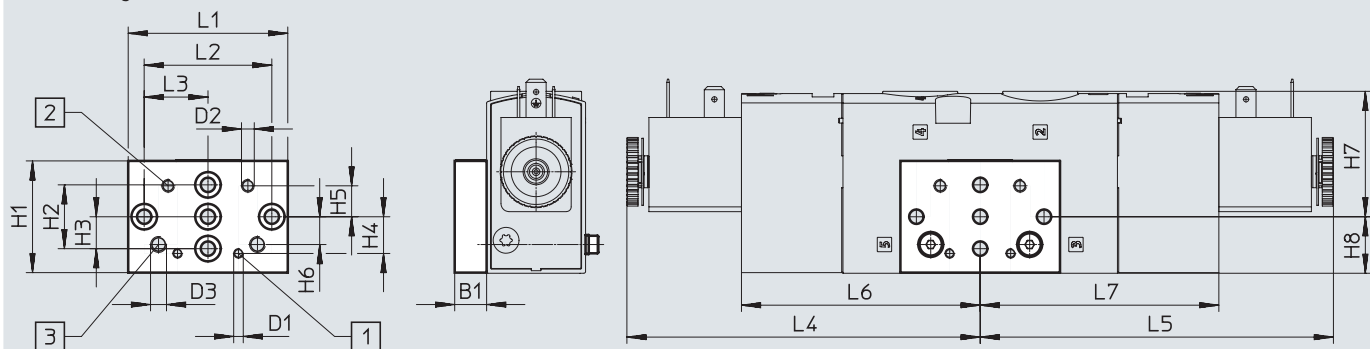
Type		H15	L1	L3	L4	L5	L6	L7	L8	L9
VAME-B10-30-A	VUVS-LT30-B52/T32	160	57	45.6	31	40	20	32	220.3	4.1
	VUVS-LT30-M52								180.7	
	VUVS-LT30-M32								133.2	

Accessories

Dimensions

Download CAD data → www.festo.com

Wall mounting



[1] Mounting hole for size 20

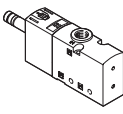
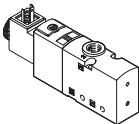
[2] Mounting hole for size 25

[3] Mounting hole for size 30

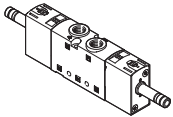
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-LT30-B52/T32	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-LT30-M52										
	VUVS-LT30-M32										

Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-LT30-B52/T32	39.3	17.7	50	40	20	110.2	110.2	74.8	74.8
	VUVS-LT30-M52							70.5		—
	VUVS-LT30-M32							23		—

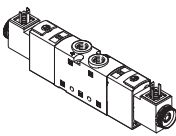
Accessories

Ordering data				
	Code	Valve function	Part no.	Type
3/2-way valve without solenoid coil				
	Single solenoid, normally closed			
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036672	VUVS-LT30-M32C-MD-G38-F8
		Mechanical spring return, external pilot air supply, flow direction not reversible	8036673	VUVS-LT30-M32C-MZD-G38-F8
	Single solenoid, normally open			
	M32U-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036679	VUVS-LT30-M32U-MD-G38-F8
		Mechanical spring return, external pilot air supply, flow direction not reversible	8036680	VUVS-LT30-M32U-MZD-G38-F8
3/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, normally closed, type C			
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036674	VUVS-LT30-M32C-MD-G38-F8-1C1
		Mechanical spring return, external pilot air supply, flow direction not reversible	8036675	VUVS-LT30-M32C-MZD-G38-F8-1C1
	Single solenoid, normally closed, type B			
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036676	VUVS-LT30-M32C-MD-G38-F8-1B2
		Mechanical spring return, external pilot air supply, flow direction not reversible	8036677	VUVS-LT30-M32C-MZD-G38-F8-1B2
	Single solenoid, normally open, type C			
	M32U-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036681	VUVS-LT30-M32U-MD-G38-F8-1C1
		Mechanical spring return, external pilot air supply, flow direction not reversible	8036682	VUVS-LT30-M32U-MZD-G38-F8-1C1
	Single solenoid, normally open, type B			
	M32U-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036683	VUVS-LT30-M32U-MD-G38-F8-1B2
		Mechanical spring return, external pilot air supply, flow direction not reversible	8036684	VUVS-LT30-M32U-MZD-G38-F8-1B2

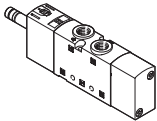
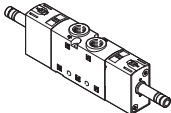
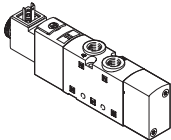
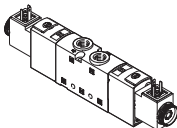
Accessories

Ordering data				
	Code	Valve function	Part no.	Type
2x 3/2-way valve without solenoid coil				
	Single solenoid, normally closed			
	T32C	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036700	VUVS-LT30-T32C-MD-G38-F8
		Mechanical spring return, external pilot air supply, flow direction not reversible	8036701	VUVS-LT30-T32C-MZD-G38-F8
	Single solenoid, normally open			
	T32U	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036707	VUVS-LT30-T32U-MD-G38-F8
		Mechanical spring return, external pilot air supply, flow direction not reversible	8036708	VUVS-LT30-T32U-MZD-G38-F8
	Single solenoid, 1x normally open, 1x normally closed			
	T32H	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036714	VUVS-LT30-T32H-MD-G38-F8
Mechanical spring return, external pilot air supply, flow direction not reversible		8036715	VUVS-LT30-T32H-MZD-G38-F8	

Accessories

Ordering data				
	Code	Valve function	Part no.	Type
2x 3/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, normally closed, type C			
	T32C	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036702	VUVS-LT30-T32C-MD-G38-F8-1C1
		Mechanical spring return, external pilot air supply, flow direction not reversible	8036703	VUVS-LT30-T32C-MZD-G38-F8-1C1
	Single solenoid, normally closed, type B			
	T32C	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036704	VUVS-LT30-T32C-MD-G38-F8-1B2
		Mechanical spring return, external pilot air supply, flow direction not reversible	8036705	VUVS-LT30-T32C-MZD-G38-F8-1B2
	Single solenoid, normally open, type C			
	T32U	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036709	VUVS-LT30-T32U-MD-G38-F8-1C1
		Mechanical spring return, external pilot air supply, flow direction not reversible	8036710	VUVS-LT30-T32U-MZD-G38-F8-1C1
	Single solenoid, normally open, type B			
	T32U	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036711	VUVS-LT30-T32U-MD-G38-F8-1B2
		Mechanical spring return, external pilot air supply, flow direction not reversible	8036712	VUVS-LT30-T32U-MZD-G38-F8-1B2
	Single solenoid, 1x normally open, 1x normally closed, type C			
	T32H	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036716	VUVS-LT30-T32H-MD-G38-F8-1C1
		Mechanical spring return, external pilot air supply, flow direction not reversible	8036717	VUVS-LT30-T32H-MZD-G38-F8-1C1
	Single solenoid, 1x normally open, 1x normally closed, type B			
	T32H	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036718	VUVS-LT30-T32H-MD-G38-F8-1B2
		Mechanical spring return, external pilot air supply, flow direction not reversible	8036719	VUVS-LT30-T32H-MZD-G38-F8-1B2

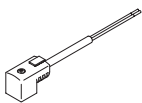
Accessories

Ordering data				
	Code	Valve function	Part no.	Type
5/2-way valve without solenoid coil				
	Single solenoid			
	M52	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036686	VUVS-LT30-M52-MD-G38-F8
		Mechanical spring return, external pilot air supply, flow direction not reversible	8036687	VUVS-LT30-M52-MZD-G38-F8
	Double solenoid			
	B52	Internal pilot air supply, flow direction not reversible	8036693	VUVS-LT30-B52-D-G38-F8
		External pilot air supply, flow direction not reversible	8036694	VUVS-LT30-B52-ZD-G38-F8
5/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, type C			
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036688	VUVS-LT30-M52-MD-G38-F8-1C1
		Mechanical spring return, external pilot air supply, flow direction not reversible	8036689	VUVS-LT30-M52-MZD-G38-F8-1C1
	Single solenoid, type B			
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036690	VUVS-LT30-M52-MD-G38-F8-1B2
	Mechanical spring return, external pilot air supply, flow direction not reversible	8036691	VUVS-LT30-M52-MZD-G38-F8-1B2	
	Double solenoid, type C			
	B52	Internal pilot air supply, flow direction not reversible	8036695	VUVS-LT30-B52-D-G38-F8-1C1
		External pilot air supply, flow direction not reversible	8036696	VUVS-LT30-B52-ZD-G38-F8-1C1
	Double solenoid, type B			
	B52	Internal pilot air supply, flow direction not reversible	8036697	VUVS-LT30-B52-D-G38-F8-1B2
	External pilot air supply, flow direction not reversible	8036698	VUVS-LT30-B52-ZD-G38-F8-1B2	

Accessories

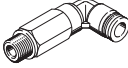
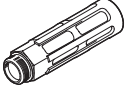
Ordering data				Part no.	Type		
Description							
Solenoid coils for valves							
	Plug pattern type C, to DIN EN 175301-803	12 V DC	–	8030810	VACF-B-C1-5		
		24 V DC		8030811	VACF-B-C1-1		
		48 V DC		8030812	VACF-B-C1-7		
		24 V AC/50-60 Hz		8030813	VACF-B-C1-1A		
		48 V AC/50-60 Hz		8030814	VACF-B-C1-7A		
		110/120 V AC/50-60 Hz		8030815	VACF-B-C1-16B		
		230/240 V AC/50-60 Hz		8030817	VACF-B-C1-3W		
	Plug pattern type C, industry standard	24 V DC	–	8153947	VACF-B-E1-1		
	Plug pattern type B, to DIN EN 175301-803	24 V DC	3.3 W	8220305	VACF-B-B1-1		
			4.5 W	8235213	VACF-B-45-B1-1		
	Plug pattern type B, industry standard	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		
	Plug pattern type A, to EN 175301-803	12 V DC		8030821	VACF-A-A1-5		
		24 V DC		8030822	VACF-A-A1-1		
		48 V DC		8030823	VACF-A-A1-7		
		24 V AC/50-60 Hz		8030824	VACF-A-A1-1A		
		48 V AC/50-60 Hz		8030825	VACF-A-A1-7A		
		110/120 V AC/50-60 Hz		8030826	VACF-A-A1-16B		
		230/240 V AC/50-60 Hz		8030828	VACF-A-A1-3W		
				Single plug M8x1 A-coded to EN 61076-2-104, 4-pin	24 V DC	8150875	VACF-B-R1-1L
				Single plug M12, A-coded, to EN 61076-2-101	24 V DC	8150876	VACF-B-R3-1L
				Single plug M12, A-coded, pin assignment to DESINA	24 V DC	8150877	VACF-B-R4-1L
				Single plug M8x1 A-coded to EN 61076-2-104, 3-pin	24 V DC	8150874	VACF-B-R8-1L
	Single plug M8x1 A-coded to EN 61076-2-104, 3-pin	24 V DC	Holding current reduction, analogue, with integrated protective circuit	8135909	VACS-C-R8-1RAL		
	Single plug M8x1 A-coded to EN 61076-2-104, 4-pin	24 V DC		8135910	VACS-C-R1-1RAL		
	Single plug M12, A-coded, to EN 61076-2-101	24 V DC		8194567	VACS-C-R3-1RAL		
	Single plug M12, A-coded, pin assignment to DESINA	24 V DC		8135911	VACS-C-R4-1RAL		
Seal set for solenoid coil							
	Plug pattern type B to guarantee degree of protection IP67	–		8034609	VAMC-B10-B-B-S8		
	Plug pattern type A to guarantee degree of protection IP67			8034611	VAMC-B10-A-B-S8		
Cover cap							
	For manual override, non-detenting or covered	–		8028240	VAMC-B10-20-CH2		
Plug socket							
	Plug 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	
	3-pin, angled socket	Cable connector M12	0 ... 24 V DC	IP65	570367	MSSD-EB-M12-24VDC-SD-EX	
	Plug pattern type B, industry standard						
	3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/DC	IP65	539710	MSSD-F-M16	
Cable fitting Pg9		34431			MSSD-F		

Accessories

Ordering data			Description			Part no.	Type
Plug socket							
	Plug pattern type A, to EN 175301-803						
	3-pin, angled socket	Cable fitting Pg9	0 ... 250 V AC/DC	IP65	34583	MSSD-C	
	3-pin, angled socket	Cable connector M16	0 ... 250 V AC/DC	IP65	539709	MSSD-C-M16	
Adapter							
	Socket type C, to EN 175301-803	Plug M12x1, 2-pin, A-coded	12 ... 24 V AC/DC	IP65	188024	MSSD-EB-M12-MONO	
Plug socket with cable							
	Plug pattern type C, to EN 175301-803						
	Angled socket, 3-pin Cable, open end, 3-core	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 ¹⁾	–	2.5 m	151690	KMEB-1-230AC-2.5	
				5 m	151691	KMEB-1-230AC-5	
				Plug pattern type B, industry standard			
	Angled socket, 3-pin Cable, open end, 3-core	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 ¹⁾	–	2.5 m	30936	KMF-1-230AC-2.5	
				5 m	30938	KMF-1-230AC-5	
				Plug pattern type A, to EN 175301-803			
	Angled socket, 3-pin Cable, open end, 3-core	24 V DC	LED	2.5 m	30931	KMC-1-24DC-2.5-LED	
				5 m	30933	KMC-1-24DC-5-LED	
				10 m	193459	KMC-1-24-10-LED	
		230 V AC ¹⁾	–	2.5 m	30932	KMC-1-230AC-2.5	
				5 m	30934	KMC-1-230AC-5	
Illuminating seal							
	Plug pattern type C, to DIN EN 175301-803	24 V DC			151717	MEB-LD-12-24DC	
		230 V AC			151718	MEB-LD-230AC	
	Plug pattern type B, industry standard	24 V DC			19143	MF-LD-12-24DC	
		230 V AC			19144	MF-LD-230AC	

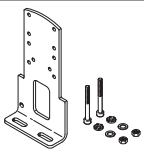
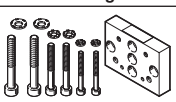
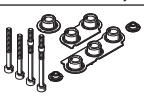
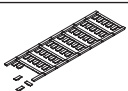
1) Plug socket 230 V AC can be used for 24 V DC without LED configuration.

Accessories

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	
	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	
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		
Angled push-in fitting, long, with external hex						
	Connecting thread G3/8 for tubing O.D.	8 mm	186132	QSLL-G3/8-8	10	
		10 mm	186134	QSLL-G3/8-10	10	
		12 mm	186135	QSLL-G3/8-12	10	
Silencer						
	With connecting thread G, metal version	G3/8	6843	U-3/8-B	1	
	With connecting thread G, sintered version, long	G3/8	1205862	AMTE-M-LH-G38	10	

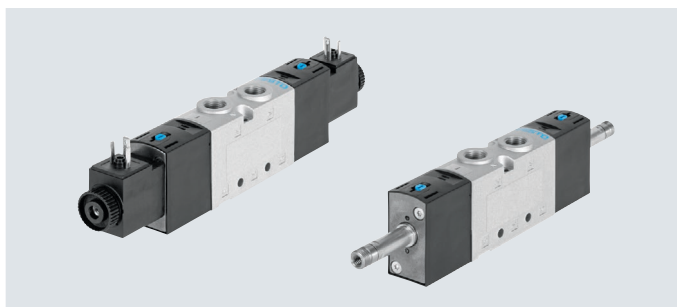
1) Packaging unit

Accessories

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
Assortment of spare parts				
	Set comprising seals and screws	22	8035637	VAME-B10-30-MK
Inscription label				
	Frame with 40 labels	–	565306	ASLR-C-E4

Datasheet

-  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-way valve		5/2-way valve		5/3-way valve		
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						
Flow direction	Reversible with external pilot air supply						
Pilot air supply	Internal or external						
Type of control	Piloted						
Manual override	Non-detenting, detenting						
Overlap	Positive overlap						
Sealing principle	Soft						
Type of mounting	Optionally via through-hole or on manifold rail						
Standard nominal flow rate qnN [l/min]	700		700	700	700	600	
Actuation type	Electrical						
Mounting position	Any						
Exhaust air function	Can be throttled						
Pneumatic connection	1, 2, 3	G1/8	G1/8	G1/8	G1/8	G1/8	G1/8
	4, 5	–	–	G1/8	G1/8	G1/8	G1/8
Pilot air port 12/14	M5						
Pilot exhaust air port 82/84	M5						

ATEX	
Type	VUVS-L...-EX2
ATEX category for gas	II 3G
Type of ignition protection for gas	Ex ec IICT4 Gc X
ATEX category for dust	II 3D
Type of ignition protection for dust	Ex tc IIIC T115°C Dc X
Explosion-proof ambient temperature [°C]	–10°C ≤ Ta ≤ +60 °C
CE marking (see declaration of conformity) ¹⁾	To EU Explosion Protection Directive (ATEX)
UKCA marking (see declaration of conformity) ¹⁾	To UK explosion regulations
Explosion protection certification outside the EU	EPL Dc (GB)
	EPL Gc (GB)

1) For information about the area of use, see the declaration of conformity at: www.festo.com/catalogue/... → Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

Datasheet

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 in [ms]	On	14	14	14	15
	Off	21	32	21	28
	Change-over	–	–	–	–
Product weight without solenoid coil	[g]	138	136	138	136
Product weight with solenoid coil	[g]	172	170	172	170
Product weight with solenoid coil and plug socket	[g]	182	180	182	180

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 in [ms]	On	20	12	–	
	Off	29	44	–	
	Change-over	–	–	10	
Product weight without solenoid coil	[g]	188	183	225	
Product weight with solenoid coil	[g]	222	217	259	
Product weight with solenoid coil and plug socket	[g]	232	227	279	

Technical data – 5/3-way valves					
Order code for valves		P53C		P53U	
Normal position/mid-position		Closed		Pressurised	
Stable position		Monostable		Exhausted	
Reset method		Mechanical spring			
Switching times in [ms]	On	13	13	13	
	Off	42	42	44	
	Change-over	24	21	24	
Product weight without solenoid coil	[g]	229	229	229	
Product weight with solenoid coil	[g]	263	263	263	
Product weight with solenoid coil and plug socket	[g]	283	283	283	

Safety characteristics		
Max. positive test pulse with logic 0	[µs]	1900 (valves with VACS-C-C1-1)
Max. negative test pulse with logic 1	[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 resistant		Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

Datasheet

Operating and environmental conditions				
Order code for valves		M32	M52	P52
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]		
Pilot medium		Compressed air to ISO 8573-1:2010 [7:4:4]		
Note on the operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)		
Cleanroom class		ISO class 6		
Operating pressure with internal pilot air supply	[MPa]	0.25 ... 1	0.15 ... 1	0.25 ... 1
	[bar]	2.5 ... 10	1.5 ... 10	2.5 ... 10
Operating pressure with external pilot air supply	[MPa]	−0.09 ... +1		
	[bar]	−0.9 ... +10		
Pilot pressure	[MPa]	0.25 ... 1	0.15 ... 1	0.25 ... 1
	[bar]	2.5 ... 10	1.5 ... 10	2.5 ... 10
Ambient temperature		−10 ... +60		
Temperature of medium		−10 ... +60		
Certification		c UL us - Recognized (OL)		
Corrosion resistance class CRC ¹⁾		2		

1) More information www.festo.com/x/topic/crc

Electrical data		
		With solenoid coil
Electrical connection		Plug type C to EN 175301-803
		Single plug M8, 4-pin
		Single plug M12, A-coded, to EN 61076-2-101
		Single plug M12, A-coded, pin assignment to DESINA
		Single plug M8, 3-pin
Operating voltage	[V DC]	12, and 24 ±10%
	[V AC]	24, 110, 120, 230, 240 ±10%
Permissible voltage fluctuations	[%]	±10
Power	[W]	2.6
Duty cycle	[%]	100
Degree of protection to EN 60529		IP65 with plug socket
		Without solenoid coil
		Via solenoid coil → Internet: vacs

Materials	
Housing	Die-cast aluminium
Seals	HNBR, NBR
Piston spool	Wrought aluminium alloy (P53 types: High-alloy stainless steel)
Screws	Galvanised steel
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

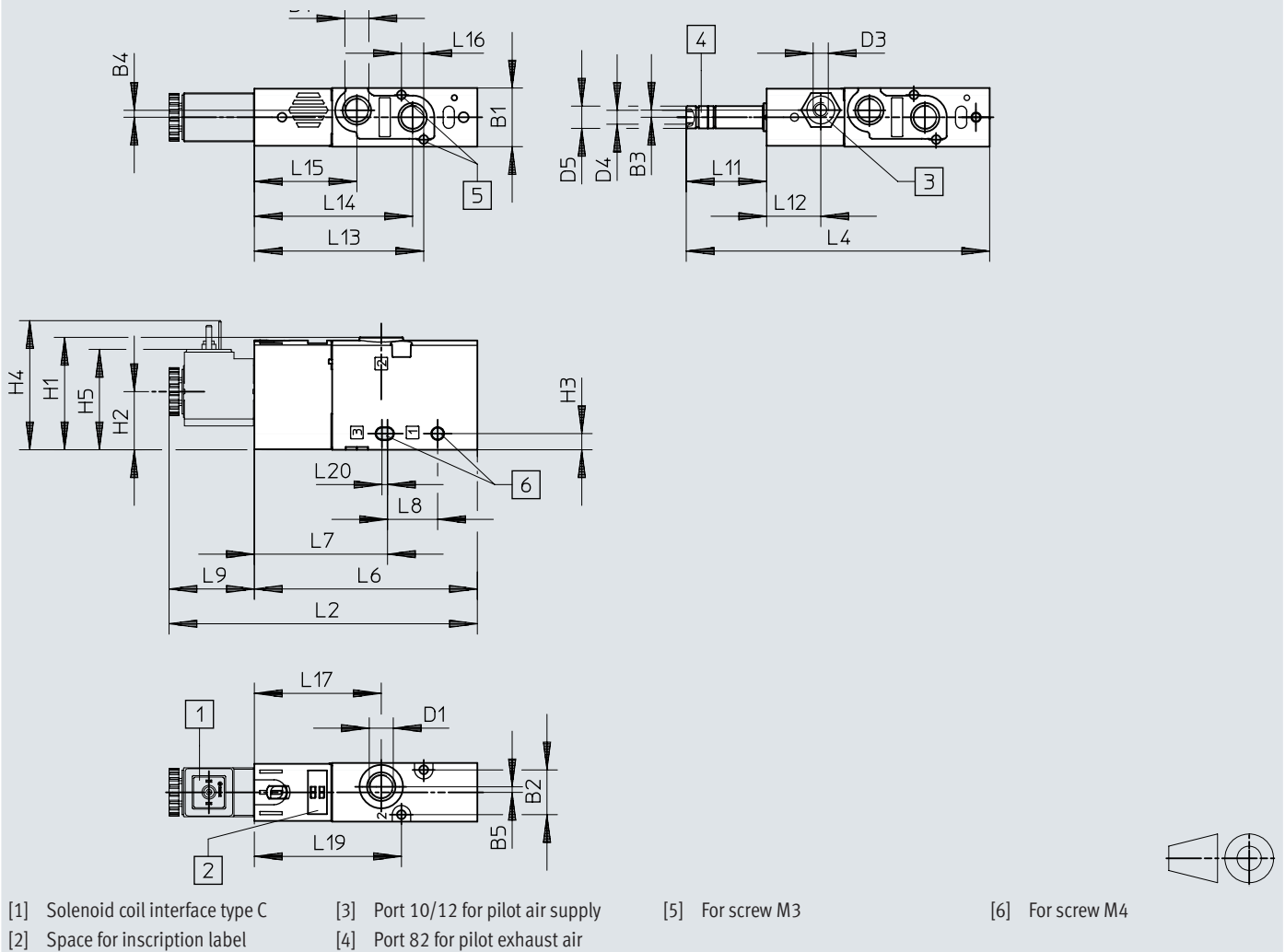
Datasheet

Dimensions

Download CAD data → www.festo.com

3/2-way valves, with solenoid coil

3/2-way valves, without solenoid coil



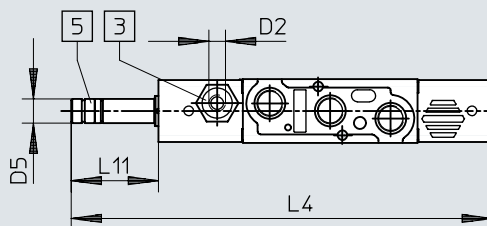
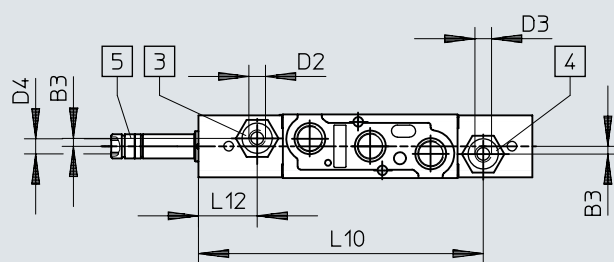
Type	B1	B2	B3	B4	B5	D1	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L20-M32...-D-G18-...	21.1	16.1	–	2.5	2	G1/8	–	M5	8	40.4	20.9	5.8	46.7	36.4
VUVS-L20-M32...-ZD-G18-...			2.6				M5							

Type	L2	L4	L6	L7	L8	L9	L11	L12	L13	L14	L15	L16	L17	L19	L20
VUVS-L20-M32...-D-G18-...	110.7	109.1	80.1	47.9	18	30.6	29	–	60.9	56.9	36.9	8	45.6	52.9	2
VUVS-L20-M32...-ZD-G18-...								19.5							

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

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



- | | | | |
|------------------------------------|----------------------------------|-----------------------------------|------------------|
| [1] Solenoid coil interface type C | [3] Port 14 for pilot air supply | [5] Port 84 for pilot exhaust air | [7] For screw M4 |
| [2] Space for inscription label | [4] Port 12 for pilot air supply | [6] For screw M3 | |

Type	L2	L4	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	L20
VUVS-L20-M52-...D-G18-...	141.2	139.6	110.6	47.9	18	30.6	–	29	–	76.9	56.9	36.9	8	45.6	22.5	52.9	2
VUVS-L20-M52-...ZD-G18-...							94.3		19.5								

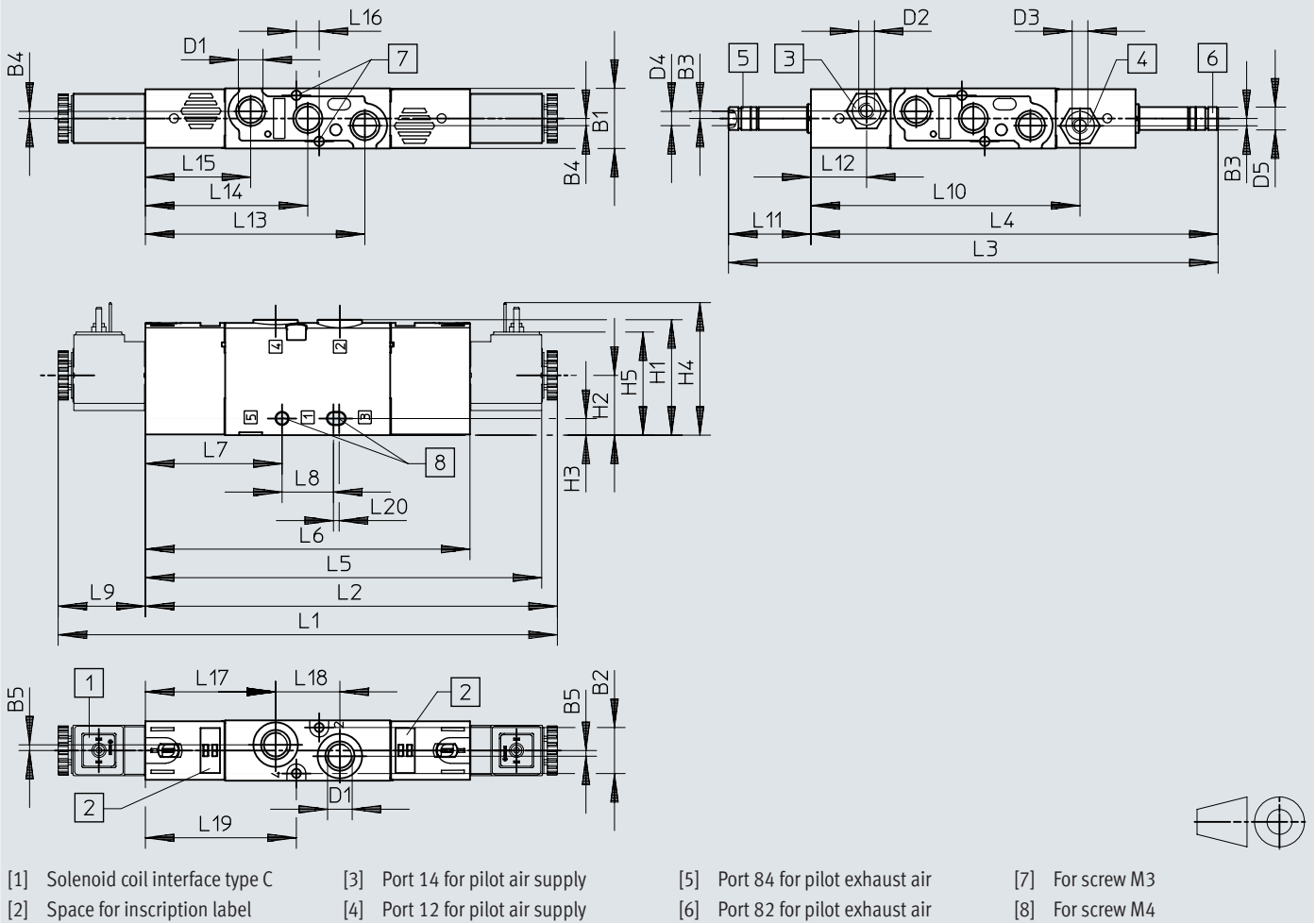
Datasheet

Dimensions

Download CAD data → www.festo.com

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

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



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	5.8	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	47.9	18	30.6	–	29
VUVS-L20-P53...-MZD-G18-...										94.3	
VUVS-L20-B52-D-G18-...										–	
VUVS-L20-B52-ZD-G18-...										94.3	

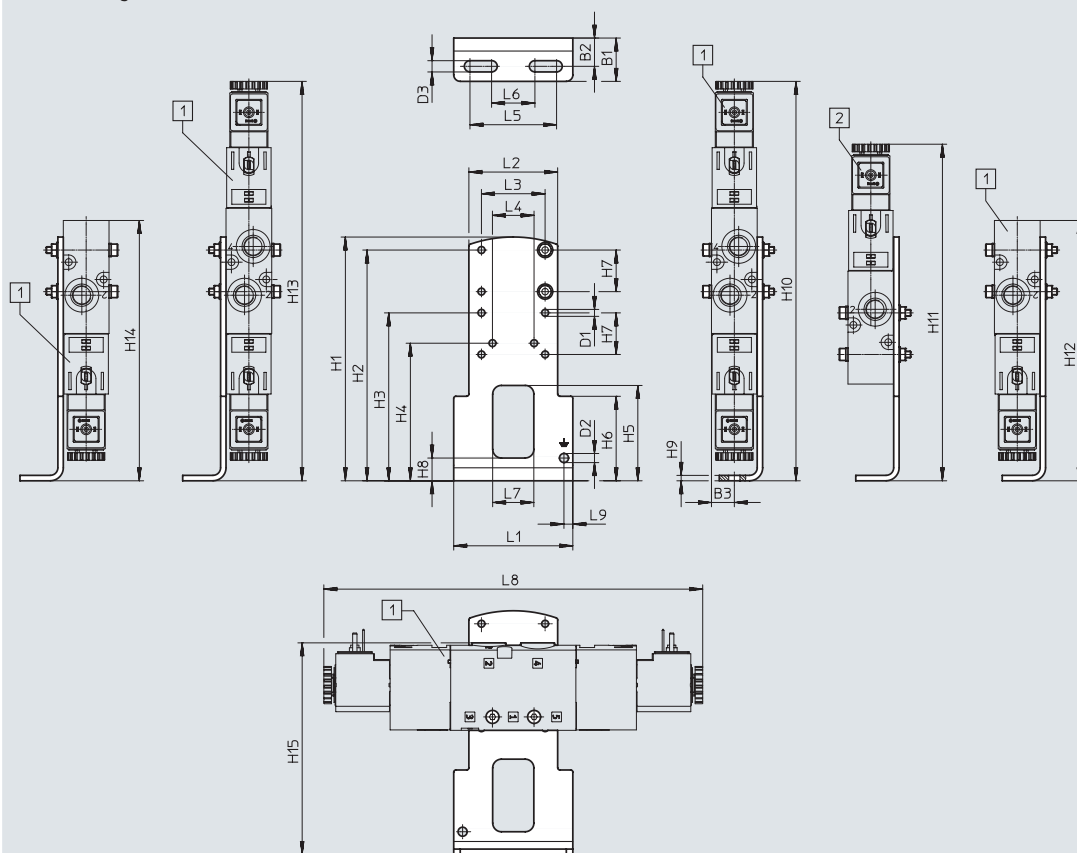
Type	L12	L13	L14	L15	L16	L17	L18	L19	L20
VUVS-L20-P53...-MD-G18-...	–	76.9	56.9	36.9	8	45.6	22.5	52.9	2
VUVS-L20-P53...-MZD-G18-...	19.5								
VUVS-L20-B52-D-G18-...	–								
VUVS-L20-B52-ZD-G18-...	19.5								

Accessories

Dimensions

Download CAD data → www.festo.com

Foot mounting



[1] VUVS-L20-B52,
VUVS-L20-P53,
VUVS-L20-M52,
VUVS-L20-M32

[2] VUVS-L20-M52,
VUVS-L20-M32

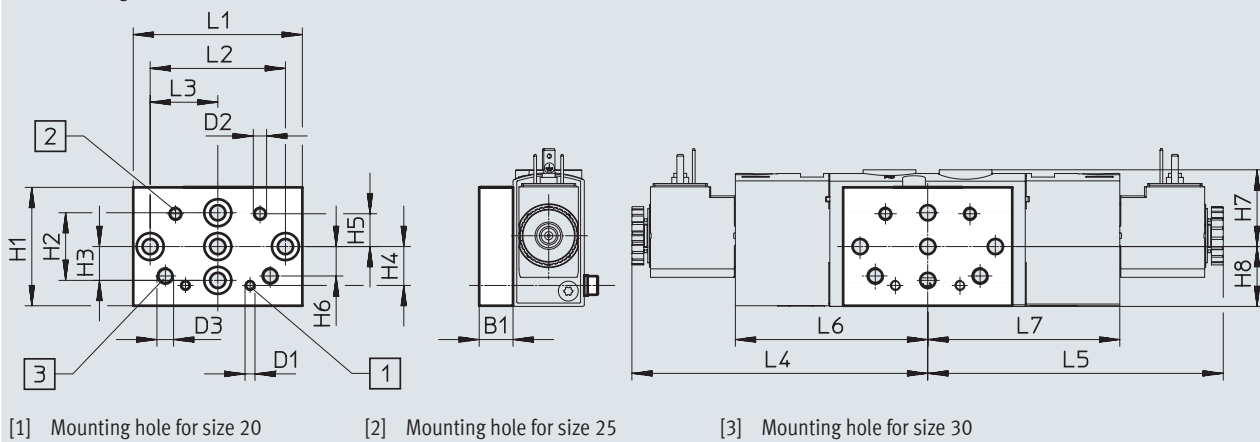
Type		B1	B2	B3	D1 Ø	D2 Ø	D3	H1	H2	H3	H4
VAME-B10-20-A	VUVS-L20-B52/P53	20	13.1	10.6	3.2	4.2	5.2	112.5	106.5	77.5	63.5
	VUVS-L20-M52										
	VUVS-L20-M32										
Type		H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-20-A	VUVS-L20-B52/P53	44	39	19.2	10.5	2.5	184.4	—	184.4	184.4	184.4
	VUVS-L20-M52							155.4	150.6	184.4	150.6
	VUVS-L20-M32								120.2		120.2
Type		H15	L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-20-A	VUVS-L20-B52/P53	97.7	55	41	29.4	19.2	40	20	19	174.9	4.1
	VUVS-L20-M52									141.2	
	VUVS-L20-M32									110.7	

Datasheet

Dimensions

Download CAD data → www.festo.com

Wall mounting

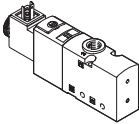
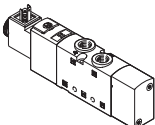
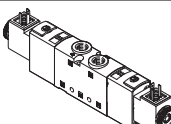


Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-L20-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-L20-M52										
	VUVS-L20-M32										

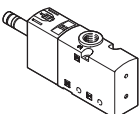
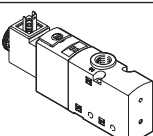
Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-L20-B52/P53	22.7	17.7	50	40	20	87.5	87.5	56.9	56.9
	VUVS-L20-M52							53.7		—
	VUVS-L20-M32							23.3		—

Accessories

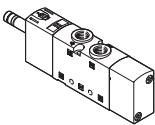
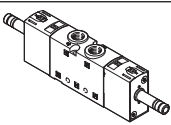
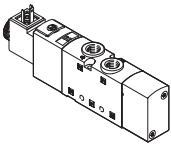
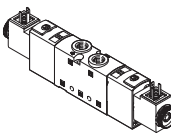
★ Core Range

Ordering data		Code	Valve function	Part no.	Type
3/2-way valve with solenoid coil (24 V DC)					
	Single solenoid, normally closed, type C				
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575274	VUVS-L20-M32C-MD-G18-F7-1C1	
			8059134	VUVS-L20-M32C-MD-G18-F7-1C1+G	
5/2-way valve with solenoid coil (24 V DC)					
	Single solenoid, type C				
	M52-A	Pneumatic spring return, internal pilot air supply, flow direction not reversible	575263	VUVS-L20-M52-AD-G18-F7-1C1	
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575264	VUVS-L20-M52-MD-G18-F7-1C1	
5/3-way valve with solenoid coil (24 V DC)					
	Mid-position closed, type C				
	P53C	Mechanical spring return, internal pilot air supply, flow direction not reversible	575268	VUVS-L20-P53C-MD-G18-F7-1C1	

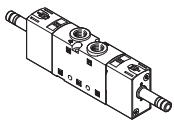
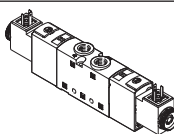
Accessories

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, flow direction not reversible	575255	VUVS-L20-M32C-AD-G18-F7
		Pneumatic spring return, external pilot air supply, reversible flow direction	575257	VUVS-L20-M32C-AZD-G18-F7
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575260	VUVS-L20-M32C-MD-G18-F7
		Mechanical spring return, external pilot air supply, reversible flow direction	575259	VUVS-L20-M32C-MZD-G18-F7
	Single solenoid, normally open			
	M32U-A	Pneumatic spring return, internal pilot air supply, flow direction not reversible	575256	VUVS-L20-M32U-AD-G18-F7
		Pneumatic spring return, external pilot air supply, reversible flow direction	575258	VUVS-L20-M32U-AZD-G18-F7
	M32U-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575262	VUVS-L20-M32U-MD-G18-F7
		Mechanical spring return, external pilot air supply, reversible flow direction	575261	VUVS-L20-M32U-MZD-G18-F7
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, flow direction not reversible	575269	VUVS-L20-M32C-AD-G18-F7-1C1
			8059133	VUVS-L20-M32C-AD-G18-F7-1C1+G
		Pneumatic spring return, external pilot air supply, reversible flow direction	575271	VUVS-L20-M32C-AZD-G18-F7-1C1
	M32C-M	Mechanical spring return, external pilot air supply, reversible flow direction	575273	VUVS-L20-M32C-MZD-G18-F7-1C1
	Single solenoid, normally open, type C			
	M32U-A	Pneumatic spring return, internal pilot air supply, flow direction not reversible	575270	VUVS-L20-M32U-AD-G18-F7-1C1
		Pneumatic spring return, external pilot air supply, reversible flow direction	575272	VUVS-L20-M32U-AZD-G18-F7-1C1
	M32U-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575276	VUVS-L20-M32U-MD-G18-F7-1C1
		Mechanical spring return, external pilot air supply, reversible flow direction	575275	VUVS-L20-M32U-MZD-G18-F7-1C1

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, flow direction not reversible	575249	VUVS-L20-M52-AD-G18-F7	
		Pneumatic spring return, external pilot air supply, reversible flow direction	575675	VUVS-L20-M52-AZD-G18-F7	
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575250	VUVS-L20-M52-MD-G18-F7	
		Mechanical spring return, external pilot air supply, reversible flow direction	575679	VUVS-L20-M52-MZD-G18-F7	
	Double solenoid				
	B52	Internal pilot air supply, flow direction not reversible	575251	VUVS-L20-B52-D-G18-F7	
		External pilot air supply, reversible flow direction	575682	VUVS-L20-B52-ZD-G18-F7	
5/2-way valve with solenoid coil (24 V DC)					
	Single solenoid, type C				
	M52-A	Pneumatic spring return, external pilot air supply, reversible flow direction	575676	VUVS-L20-M52-AZD-G18-F7-1C1	
		Pneumatic spring return, internal pilot air supply, reversible flow direction	8059135	VUVS-L20-M52-AD-G18-F7-1C1+G	
	M52-M	Mechanical spring return, external pilot air supply, reversible flow direction	575680	VUVS-L20-M52-MZD-G18-F7-1C1	
		Mechanical spring return, internal pilot air supply, reversible flow direction	8059136	VUVS-L20-M52-MD-G18-F7-1C1+G	
	Double solenoid, type C				
	B52	Internal pilot air supply, flow direction not reversible	575265	VUVS-L20-B52-D-G18-F7-1C1	
			8059137	VUVS-L20-B52-D-G18-F7-1C1+G	
		External pilot air supply, reversible flow direction	575683	VUVS-L20-B52-ZD-G18-F7-1C1	

Accessories

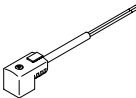
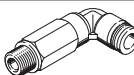
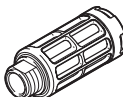
Ordering data				
	Code	Valve function	Part no.	Type
5/3-way valve without solenoid coil				
	Mid-position closed			
	P53C	Mechanical spring return, internal pilot air supply, flow direction not reversible	575254	VUVS-L20-P53C-MD-G18-F7
		Mechanical spring return, external pilot air supply, reversible flow direction	575685	VUVS-L20-P53C-MZD-G18-F7
	Mid-position exhausted			
	P53E	Mechanical spring return, internal pilot air supply, flow direction not reversible	575252	VUVS-L20-P53E-MD-G18-F7
		Mechanical spring return, external pilot air supply, reversible flow direction	575691	VUVS-L20-P53E-MZD-G18-F7
	Mid-position pressurised			
	P53U	Mechanical spring return, internal pilot air supply, flow direction not reversible	575253	VUVS-L20-P53U-MD-G18-F7
		Mechanical spring return, external pilot air supply, reversible flow direction	575688	VUVS-L20-P53U-MZD-G18-F7
5/3-way valve with solenoid coil (24 V DC)				
	Mid-position closed, type C			
	P53C	Mechanical spring return, external pilot air supply, reversible flow direction	575686	VUVS-L20-P53C-MZD-G18-F7-1C1
		Mechanical spring return, internal pilot air supply, reversible flow direction	8059138	VUVS-L20-P53C-MD-G18-F7-1C1+G
	Mid-position exhausted, type C			
	P53E	Mechanical spring return, internal pilot air supply, flow direction not reversible	575266	VUVS-L20-P53E-MD-G18-F7-1C1
		Mechanical spring return, external pilot air supply, reversible flow direction	575692	VUVS-L20-P53E-MZD-G18-F7-1C1
	Mid-position pressurised, type C			
	P53U	Mechanical spring return, internal pilot air supply, flow direction not reversible	575267	VUVS-L20-P53U-MD-G18-F7-1C1
		Mechanical spring return, external pilot air supply, reversible flow direction	575689	VUVS-L20-P53U-MZD-G18-F7-1C1

Accessories

Ordering data			Description		Part no.	Type
Solenoid coils for valves						
	Plug 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/50-60 Hz		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	
	Plug pattern type C, industry standard	24 V DC	–	8153948	VACS-C-E1-1	
	Single plug M8x1 A-coded to EN 61076-2-104, 4-pin	24 V DC	–	8135906	VACS-C-R1-1L	
	Single plug M12, A-coded, to EN 61076-2-101	24 V DC		8135907	VACS-C-R3-1L	
	Single plug M12, A-coded, pin assignment to DESINA	24 V DC		8135908	VACS-C-R4-1L	
	Single plug M8x1 A-coded to EN 61076-2-104, 3-pin	24 V DC		8135905	VACS-C-R8-1L	
	Single plug M8x1 A-coded to EN 61076-2-104, 3-pin	24 V DC	Holding current reduction, analogue, with integrated protective circuit	8135909	VACS-C-R8-1RAL	
	Single plug M8x1 A-coded to EN 61076-2-104, 4-pin	24 V DC		8135910	VACS-C-R1-1RAL	
	Single plug M12, A-coded, to EN 61076-2-101	24 V DC		8194567	VACS-C-R3-1RAL	
	Single plug M12, A-coded, pin assignment to DESINA	24 V DC		8135911	VACS-C-R4-1RAL	
Seal set						
	Plug pattern type C to guarantee degree of protection IP67	–		2643771	VAMC-B10-C-B-S8	
	Plug pattern type B to guarantee degree of protection IP67	–		8034609	VAMC-B10-B-B-S8	
Cover cap						
	For manual override, non-detenting or covered	–		8028240	VAMC-B10-20-CH2	
Plug socket						
	Plug pattern type C, to 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
		–	20.4 ... 27.6 V DC	IP65	8105012	NECV-C1W3L-P-P13
	3-pin, angled socket	Cable connector M12	0 ... 24 V DC	IP65	570367	MSSD-EB-M12-24VDC-SD-EX
	Plug pattern type B, industry standard					
	3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/ DC	IP65	539710	MSSD-F-M16
		Cable fitting Pg9			34431	MSSD-F
		–	20.4 ... 27.6 V DC	IP65	8105013	NECV-B2W3L-P-P12
	Plug pattern type A, to EN 175301-803					
	3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/ DC	IP65	8037151	MSSD-C-EX
Adapter						
	Socket type C, to EN 175301-803	Plug M12x1, 2-pin, A-coded	12 ... 24 V AC/ DC	IP65	188024	MSSD-EB-M12-MONO

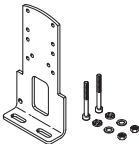
1) Plug socket 230 V AC can be used for 24 V DC without LED configuration.

Accessories

Ordering data		Description		Part no.	Type	
Plug socket with cable						
	Plug pattern type C, to EN 175301-803					
	Angled socket, 3-pin Cable, open end, 3-core	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 ¹⁾	–	2.5 m	151690	KMEB-1-230AC-2.5
				5 m	151691	KMEB-1-230AC-5
	Plug pattern type B, industry standard					
	Angled socket, 3-pin Cable, open end, 3-core	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 ¹⁾	–	2.5 m	30936	KMF-1-230AC-2.5
	5 m			30938	KMF-1-230AC-5	
Illuminating seal						
	Plug pattern type C, to DIN EN 175301-803	24 V DC		151717	MEB-LD-12-24DC	
		230 V AC		151718	MEB-LD-230AC	
	Plug pattern type B, industry standard	24 V DC		19143	MF-LD-12-24DC	
		230 V AC		19144	MF-LD-230AC	
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 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	
		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 G1/8 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 G1/8 for tubing O.D.	4 mm	186127	QSLL-G1/8-4	10	
			133015	QSLL-G1/8-4-100	100	
		6 mm	186128	QSLL-G1/8-6	10	
			133016	QSLL-G1/8-6-100	100	
		8 mm	186130	QSLL-G1/8-8	10	
			133017	QSLL-G1/8-8-100	100	
Silencer						
	With connecting thread G, polymer version	G1/8	2307	U-1/8	1	
			534222	U-1/8-50	50	
	With connecting thread G, metal version	G1/8	6841	U-1/8-B	1	
	With connecting thread G, sintered version, long	G1/8	1205860	AMTE-M-LH-G18	20	

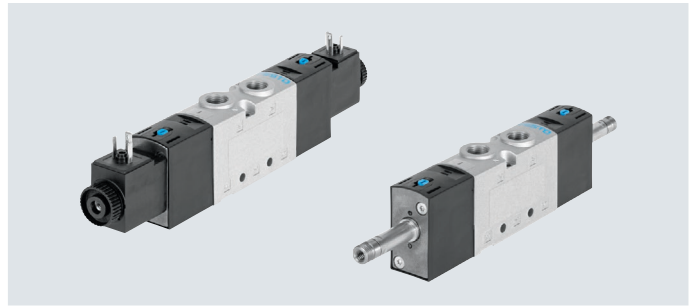
1) Packaging unit

Accessories

Ordering data		Weight [g]	Part no.	Type	
	Description				
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	
Assortment of spare parts					
	Set comprising seals and screws	10	8026203	VAME-B10-20-MK	
Inscription label					
	Frame with 40 labels	–	565306	ASLR-C-E4	
Mounting kit					
	With mounting bracket for lateral valve mounting	For standards-based cylinder DSBC-32...40	76	2568514	DAVM-MW-V1-32-V

Datasheet

-  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-way valve		5/2-way valve		5/3-way valve		
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						
Flow direction	Reversible with external pilot air supply						
Pilot air supply	Internal or external						
Type of control	Piloted						
Manual override	Non-detenting, detenting						
Overlap	Positive overlap						
Sealing principle	Soft						
Type of mounting	Optionally via through-hole or on manifold rail						
Standard nominal flow rate q _N [l/min]	1000		1300	1300	1200	1000	
Actuation type	Electrical						
Mounting position	Any						
Exhaust air function	Can be throttled						
Pneumatic connection	1, 2, 3	G1/4	G1/4	G1/4	G1/4	G1/4	G1/4
	4, 5	–	–	G1/4	G1/4	G1/4	G1/4
Pilot air port 12/14	M5						
Pilot exhaust air port 82/84	M5						

ATEX	
Type	VUVS-L...-EX2
ATEX category for gas	II 3G
Type of ignition protection for gas	Ex ec IIIC T4 Gc X
ATEX category for dust	II 3D
Type of ignition protection for dust	Ex tc IIIC T115°C Dc X
Explosion-proof ambient temperature [°C]	–10°C ≤ Ta ≤ +60 °C
CE marking (see declaration of conformity) ¹⁾	To EU Explosion Protection Directive (ATEX)
UKCA marking (see declaration of conformity) ¹⁾	To UK explosion regulations
Explosion protection certification outside the EU	EPL Dc (GB)
	EPL Gc (GB)

1) For information about the area of use, see the declaration of conformity at: www.festo.com/catalogue/... → Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

Datasheet

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 in [ms]	On	13	11	12	11
	Off	26	40	26	39
	Change-over	–	–	–	–
Product weight without solenoid coil	[g]	244	244	244	244
Product weight with 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 in [ms]	On	19	12	–
	Off	35	47	–
	Change-over	–	–	11
Product weight without solenoid coil	[g]	311	311	322
Product weight with solenoid coil	[g]	363	363	428

Technical data – 5/3-way valves				
Order code for valves		P53C		P53U
Normal position/mid-position		Closed		Pressurised
Stable position		Monostable		Exhausted
Reset method		Mechanical spring		
Switching times in [ms]	On	13	14	14
	Off	42	48	48
	Change-over	26	25	25
Product weight without solenoid coil	[g]	324	324	324
Product weight with solenoid coil	[g]	430	430	430

Safety characteristics		
Max. positive test pulse with logic 0	[µs]	2000 (valves with VACF-B-...-1)
Max. negative test pulse with logic 1	[µs]	3600 (valves with VACF-B-...-1)
Shock resistance		Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Vibration resistant		Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

Datasheet

Operating and environmental conditions					
Order code for valves		M32	M52	B52	P53
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]			
Pilot medium		Compressed air to ISO 8573-1:2010 [7:4:4]			
Note on the operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)			
Cleanroom class		ISO class 6			
Operating pressure with internal pilot air supply	[MPa]	0.25 ... 1	0.15 ... 1	0.25 ... 1	
	[bar]	2.5 ... 10	1.5 ... 10	2.5 ... 10	
Operating pressure with external pilot air supply	[MPa]	−0.09 ... +1			
	[bar]	−0.9 ... +10			
Pilot pressure	[MPa]	0.25 ... 1	0.15 ... 1	0.25 ... 1	
	[bar]	2.5 ... 10	1.5 ... 10	2.5 ... 10	
Ambient temperature	[°C]	−10 ... +60			
Temperature of medium	[°C]	−10 ... +60			
Certification		c UL us - Recognized (OL)			
Maritime classification1)		See certificate (for VUVS-...-F8 and VUVS-...-F8-...-B2 only)			
Corrosion resistance class CRC ²⁾		2			

1) More information www.festo.com/catalogue/... → Support/Downloads.

2) More information www.festo.com/x/topic/crc

Electrical data		
	With solenoid coil	Without solenoid coil
Electrical connection	Plug type C to EN 175301-803, plug type B to industry standard (11 mm)	Via solenoid coil → Internet: vacf
	Single plug M8, 4-pin	
	Single plug M12, A-coded, to EN 61076-2-101	
	Single plug M12, A-coded, pin assignment to DESINA	
	Single plug M8, 3-pin	
Operating voltage	[V DC]	12, and 24 ±10%
	[V AC]	24, 110, 120, 230, 240 ±10%
Permitted voltage fluctuations	[%]	10
Power (24 V DC)	[W]	3.3
Duty cycle	[%]	100
Degree of protection to EN 60529	IP65 with plug socket	

Materials	
Housing	Die-cast aluminium
Seals	HNBR, NBR
Piston spool	Wrought aluminium alloy
Screws	Galvanised steel
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Datasheet

Dimensions

3/2-way valves, with solenoid coil

Download CAD data → www.festo.com

3/2-way valves, without solenoid coil

VUVS-L25-M32 ZD- . . .

[1] Solenoid coil interface type B/
type C

[2] Space for inscription label

[3] Port 10/12 for pilot air supply

[4] Port 82 for pilot exhaust air

[5] For screw M4

Type	B1	B2	B3	B4	B5	B6	D1	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L25-M32...D-G14-...	26.5	20.2	—	1.9	1.9	22	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					

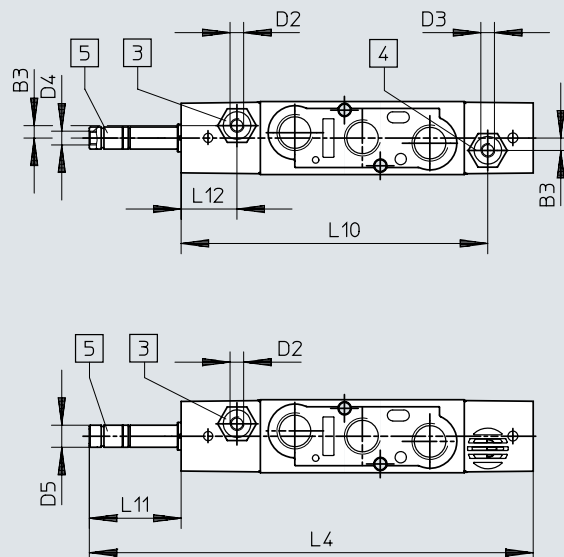
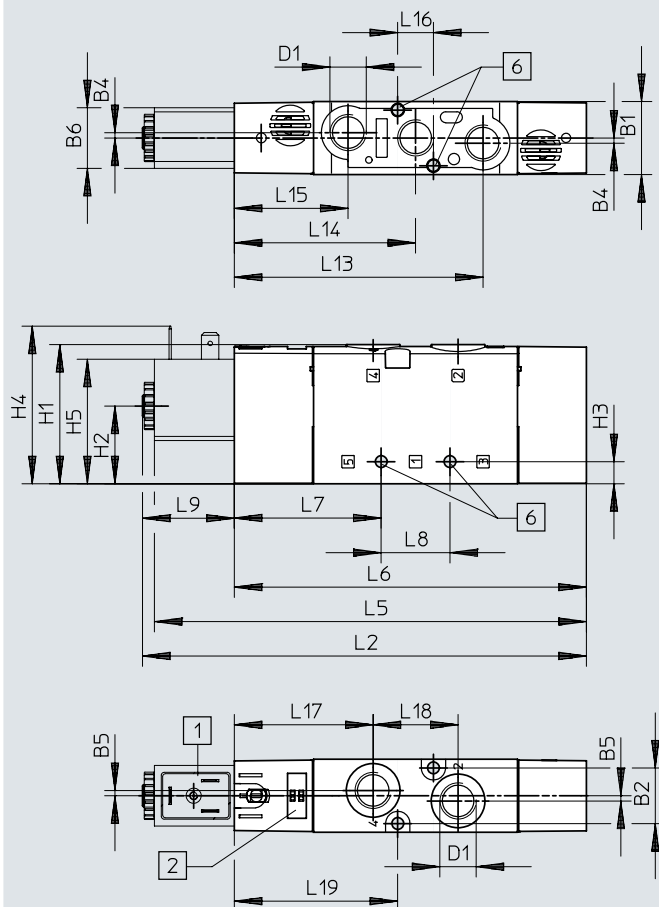
Datasheet

Dimensions

[Download CAD data → www.festo.com](http://www.festo.com)

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

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

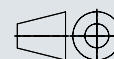


- [1] Solenoid coil interface type B/
type C
[2] Space for inscription label

- [3] Port 14 for pilot air supply
[4] Port 12 for pilot air supply

- [5] Port 84 for pilot exhaust air

- [6] For screw M4



Type	B1	B2	B3	B4	B5	B6	D1	D2	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L25-M52-...D-G14-...	26.5	20.2	–	1.9	1.9	22	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							

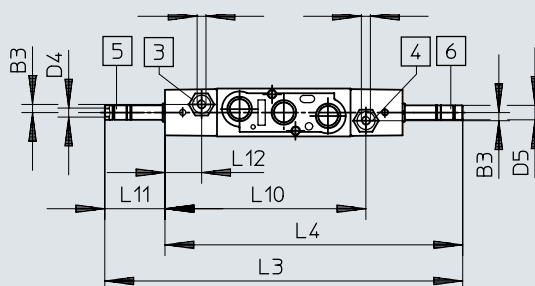
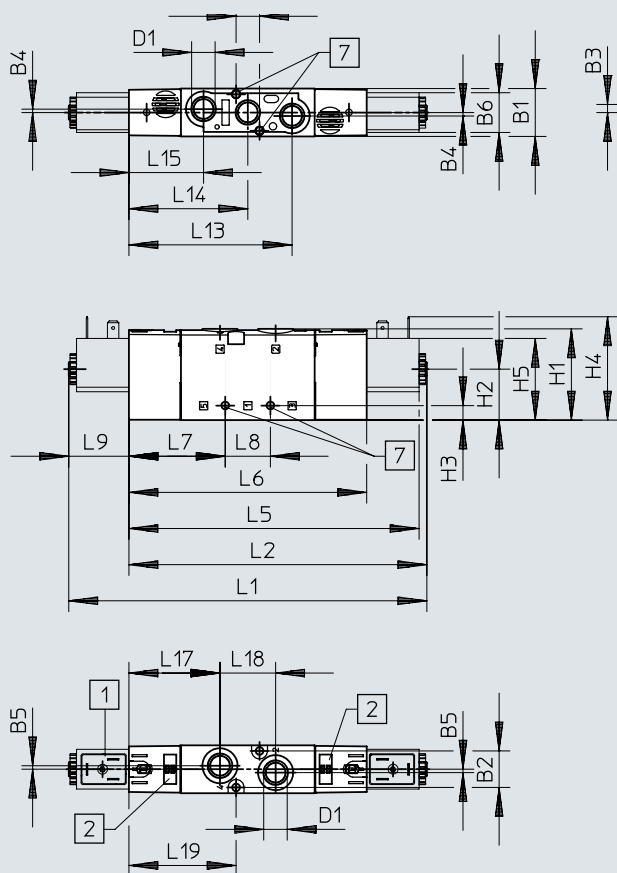
Datasheet

Dimensions

Download CAD data → www.festo.com

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

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

[1] Solenoid coil interface type B/
type C

[2] Space 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	B6	D1	D2	D3	D4	D5 Ø	H1
VUVS-L25-P53...-MD-G14-...	26.5	20.2	–	1.9	1.9	22	G1/4	–	–	M5	8	50.5
VUVS-L25-P53...-MZD-G14-...			4.5					M5	M5			
VUVS-L25-B52-D-G14-...			–					–	–			
VUVS-L25-B52-ZD-G14-...			4.5					M5	M5			

Type	H2	H3	H4	H5	L1	L2	L3	L4	L5	L6	L7	L8
VUVS-L25-P53...-MD-G14-...	28.2	8	57.2	45.2	200.3	166	198.2	164.9	160.6	131.6	53.3	25
VUVS-L25-P53...-MZD-G14-...												
VUVS-L25-B52-D-G14-...												
VUVS-L25-B52-ZD-G14-...												

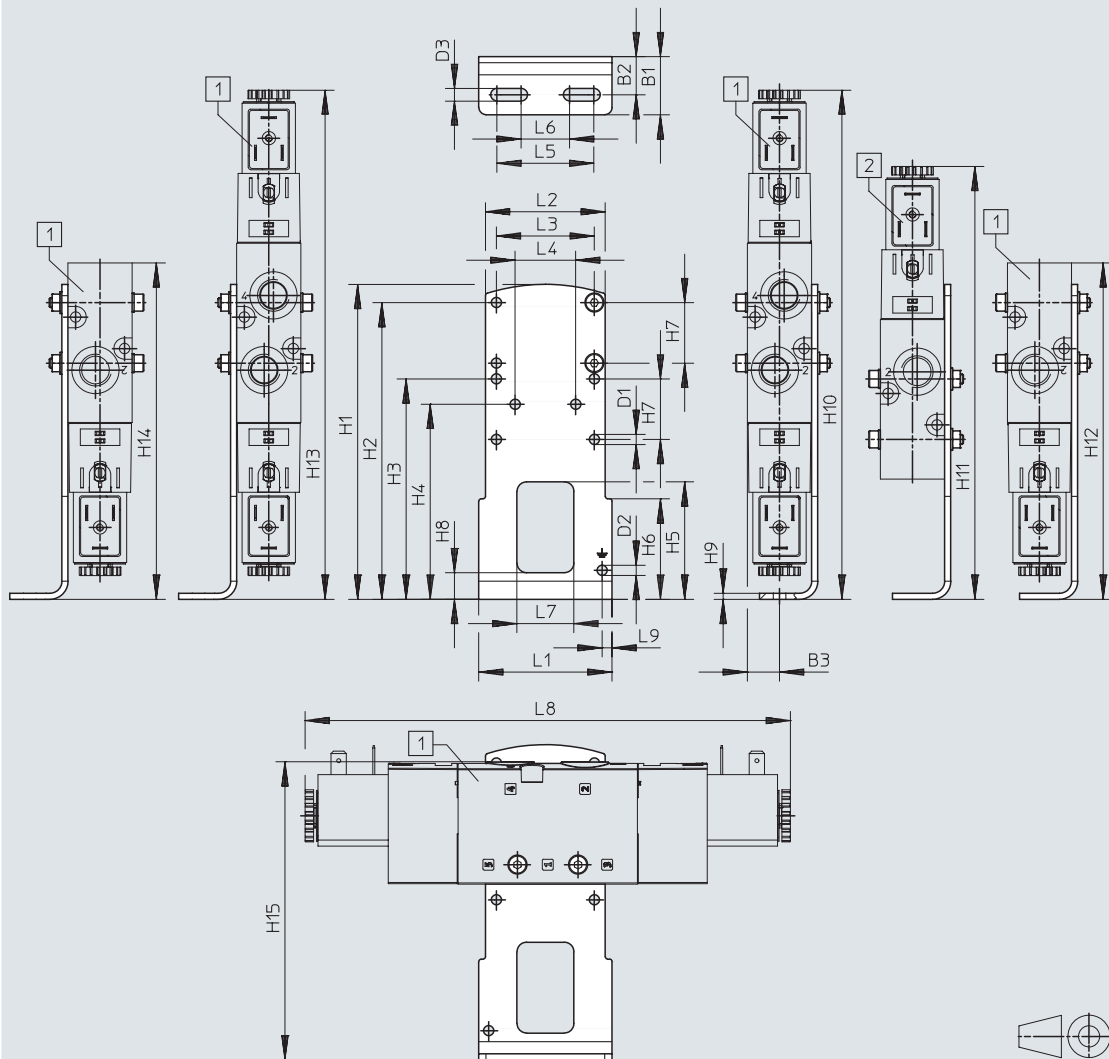
Type	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-L25-P53...-MD-G14-...	34.4	–	33.3	–	90.3	65.8	41.3	13	50.4	30.8	59.3
VUVS-L25-P53...-MZD-G14-...		111.3		20.3							
VUVS-L25-B52-D-G14-...		–		–							
VUVS-L25-B52-ZD-G14-...		111.3		20.3							

Accessories

Dimensions

Download CAD data → www.festo.com

Foot mounting



[1] VUVS-L25-B52,
VUVS-L25-P53,
VUVS-L25-M52,
VUVS-L25-M32

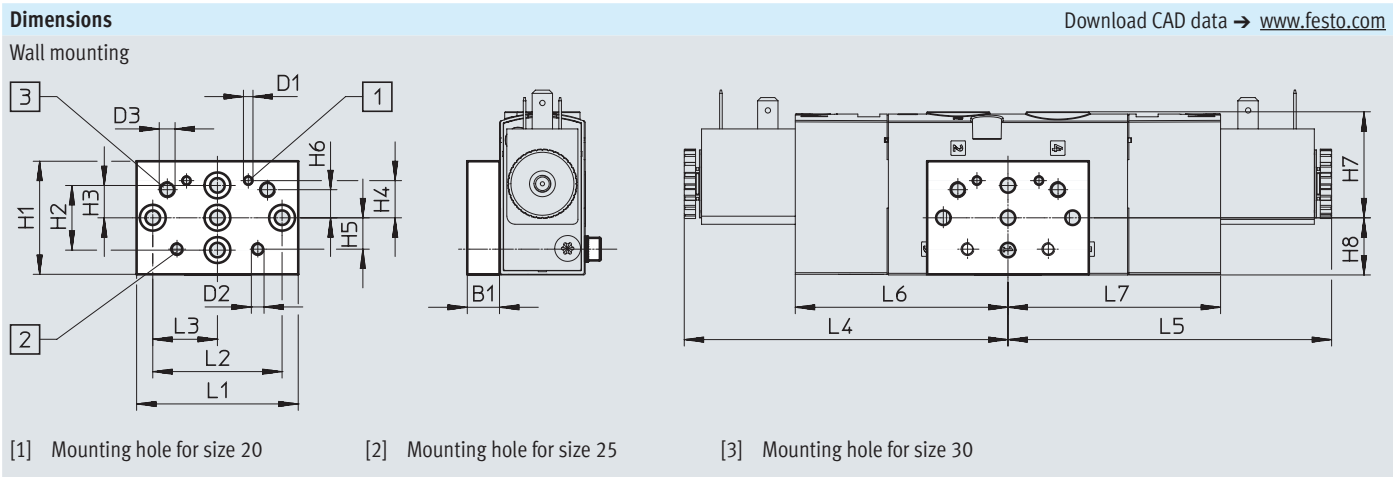
[2] VUVS-L25-M52,
VUVS-L25-M32

Type		B1	B2	B3	D1 ø	D2 ø	D3	H1	H2	H3	H4
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
	VUVS-L25-M52										
	VUVS-L25-M32										

Type		H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-25-A	VUVS-L25-B52/P53	48.5	41.5	25	11	2.5	210.2	—	210.2	210.2	210.2
	VUVS-L25-M52							178.7	172		172
	VUVS-L25-M32								138.9		138.9

Type		H15	L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-25-A	VUVS-L25-B52/P53	123	55	49.4	40.4	25	40	20	23.5	200.3	4.1
	VUVS-L25-M52									162.2	
	VUVS-L205-M32									129	

Accessories

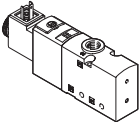
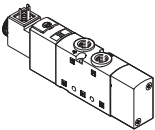
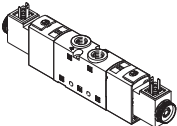
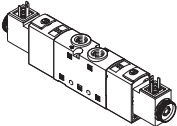


Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-L25-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-L25-M52										
	VUVS-L25-M32										

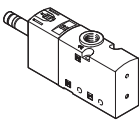
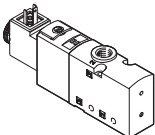
Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-L25-B52/P53	32.8	17.7	50	40	20	100.2	100.2	65.8	65.8
	VUVS-L25-M52							62		—
	VUVS-L25-M32							28.9		—

Accessories

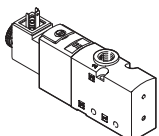
★ Core Range

Ordering data		Code	Valve function	Part no.	Type
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, flow direction not reversible	575475	VUVS-L25-M32C-AD-G14-F8-1C1	
			8059139	VUVS-L25-M32C-AD-G14-F8-1C1+G	
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575477	VUVS-L25-M32C-MD-G14-F8-1C1	
8059140			VUVS-L25-M32C-MD-G14-F8-1C1+G		
5/2-way valve with solenoid coil (24 V DC)					
	Single solenoid, type C				
	M52-A	Pneumatic spring return, internal pilot air supply, flow direction not reversible	575503	VUVS-L25-M52-AD-G14-F8-1C1	
			8059141	VUVS-L25-M52-AD-G14-F8-1C1+G	
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575511	VUVS-L25-M52-MD-G14-F8-1C1	
8059142			VUVS-L25-M52-MD-G14-F8-1C1+G		
	Double solenoid, type C				
	B52	Internal pilot air supply, flow direction not reversible	575518	VUVS-L25-B52-D-G14-F8-1C1	
			8059143	VUVS-L25-B52-D-G14-F8-1C1+G	
5/3-way valve with solenoid coil (24 V DC)					
	Mid-position closed, type C				
	P53C	Mechanical spring return, internal pilot air supply, flow direction not reversible	575525	VUVS-L25-P53C-MD-G14-F8-1C1	
			8059144	VUVS-L25-P53C-MD-G14-F8-1C1+G	

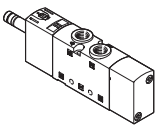
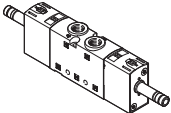
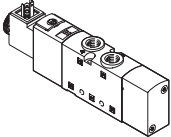
Accessories

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, flow direction not reversible	575471	VUVS-L25-M32C-AD-G14-F8
		Pneumatic spring return, external pilot air supply, reversible flow direction	575472	VUVS-L25-M32C-AZD-G14-F8
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575473	VUVS-L25-M32C-MD-G14-F8
		Mechanical spring return, external pilot air supply, reversible flow direction	575474	VUVS-L25-M32C-MZD-G14-F8
		Mechanical spring return, internal pilot air supply, flow direction not reversible	8192992	VUVS-L25-M32C-MD-G14-FN
	Single solenoid, normally open			
	M32U-A	Pneumatic spring return, internal pilot air supply, flow direction not reversible	575486	VUVS-L25-M32U-AD-G14-F8
		Pneumatic spring return, external pilot air supply, reversible flow direction	575487	VUVS-L25-M32U-AZD-G14-F8
	M32U-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575488	VUVS-L25-M32U-MD-G14-F8
		Mechanical spring return, external pilot air supply, reversible flow direction	575489	VUVS-L25-M32U-MZD-G14-F8
		Mechanical spring return, internal pilot air supply, flow direction not reversible	8192993	VUVS-L25-M32U-MD-G14-FN
3/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, normally closed, type C			
	M32C-A	Pneumatic spring return, external pilot air supply, reversible flow direction	575476	VUVS-L25-M32C-AZD-G14-F8-1C1
	M32C-M	Mechanical spring return, external pilot air supply, reversible flow direction	575478	VUVS-L25-M32C-MZD-G14-F8-1C1
	Single solenoid, normally closed, type B			
	M32C-A	Pneumatic spring return, internal pilot air supply, flow direction not reversible	575479	VUVS-L25-M32C-AD-G14-F8-1B2
		Pneumatic spring return, external pilot air supply, reversible flow direction	575480	VUVS-L25-M32C-AZD-G14-F8-1B2
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575481	VUVS-L25-M32C-MD-G14-F8-1B2
		Mechanical spring return, external pilot air supply, reversible flow direction	575482	VUVS-L25-M32C-MZD-G14-F8-1B2

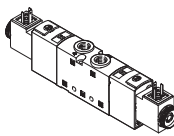
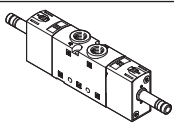
Accessories

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, flow direction not reversible	575490	VUVS-L25-M32U-AD-G14-F8-1C1
	M32U-A	Pneumatic spring return, external pilot air supply, reversible flow direction	575491	VUVS-L25-M32U-AZD-G14-F8-1C1
	M32U-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575492	VUVS-L25-M32U-MD-G14-F8-1C1
	M32U-M	Mechanical spring return, external pilot air supply, reversible flow direction	575493	VUVS-L25-M32U-MZD-G14-F8-1C1
	Single solenoid, normally open, type B			
	M32U-A	Pneumatic spring return, internal pilot air supply, flow direction not reversible	575494	VUVS-L25-M32U-AD-G14-F8-1B2
		Pneumatic spring return, external pilot air supply, reversible flow direction	575495	VUVS-L25-M32U-AZD-G14-F8-1B2
	M32U-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575496	VUVS-L25-M32U-MD-G14-F8-1B2
		Mechanical spring return, external pilot air supply, reversible flow direction	575497	VUVS-L25-M32U-MZD-G14-F8-1B2

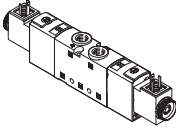
Accessories

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, flow direction not reversible	575501	VUVS-L25-M52-AD-G14-F8	
		Pneumatic spring return, external pilot air supply, reversible flow direction	575502	VUVS-L25-M52-AZD-G14-F8	
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575509	VUVS-L25-M52-MD-G14-F8	
		Mechanical spring return, external pilot air supply, reversible flow direction	575510	VUVS-L25-M52-MZD-G14-F8	
		Mechanical spring return, internal pilot air supply, flow direction not reversible	8192988	VUVS-L25-M52-MD-G14-FN	
	Double solenoid				
	B52	Internal pilot air supply, flow direction not reversible	575516	VUVS-L25-B52-D-G14-F8	
		External pilot air supply, reversible flow direction	575517	VUVS-L25-B52-ZD-G14-F8	
		Internal pilot air supply, flow direction not reversible	8192989	VUVS-L25-B52-D-G14-FN	
5/2-way valve with solenoid coil (24 V DC)					
	Single solenoid, type C				
	M52-A	Pneumatic spring return, external pilot air supply, reversible flow direction	575504	VUVS-L25-M52-AZD-G14-F8-1C1	
	M52-M	Mechanical spring return, external pilot air supply, reversible flow direction	575512	VUVS-L25-M52-MZD-G14-F8-1C1	
	Single solenoid, type B				
	M52-A	Pneumatic spring return, internal pilot air supply, flow direction not reversible	575505	VUVS-L25-M52-AD-G14-F8-1B2	
		Pneumatic spring return, external pilot air supply, reversible flow direction	575506	VUVS-L25-M52-AZD-G14-F8-1B2	
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575513	VUVS-L25-M52-MD-G14-F8-1B2	
		Mechanical spring return, external pilot air supply, reversible flow direction	575514	VUVS-L25-M52-MZD-G14-F8-1B2	

Accessories

Ordering data				
	Code	Valve function	Part no.	Type
5/2-way valve with solenoid coil (24 V DC)				
	Double solenoid, type C			
	B52	External pilot air supply, reversible flow direction	575519	VUVS-L25-B52-ZD-G14-F8-1C1
	Double solenoid, type B			
	B52	Internal pilot air supply, flow direction not reversible	575520	VUVS-L25-B52-D-G14-F8-1B2
		External pilot air supply, reversible flow direction	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, flow direction not reversible	575523	VUVS-L25-P53C-MD-G14-F8
		Mechanical spring return, external pilot air supply, reversible flow direction	575524	VUVS-L25-P53C-MZD-G14-F8
		Mechanical spring return, internal pilot air supply, flow direction not reversible	8192994	VUVS-L25-P53C-MD-G14-FN
	Mid-position exhausted			
	P53E	Mechanical spring return, internal pilot air supply, flow direction not reversible	575537	VUVS-L25-P53E-MD-G14-F8
		Mechanical spring return, external pilot air supply, reversible flow direction	575538	VUVS-L25-P53E-MZD-G14-F8
		Mechanical spring return, internal pilot air supply, flow direction not reversible	8192990	VUVS-L25-P53E-MD-G14-FN
	Mid-position pressurised			
	P53U	Mechanical spring return, internal pilot air supply, flow direction not reversible	575530	VUVS-L25-P53U-MD-G14-F8
		Mechanical spring return, external pilot air supply, reversible flow direction	575531	VUVS-L25-P53U-MZD-G14-F8
		Mechanical spring return, internal pilot air supply, flow direction not reversible	8192991	VUVS-L25-P53U-MD-G14-FN

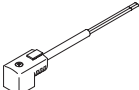
Accessories

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, external pilot air supply, reversible flow direction	575526	VUVS-L25-P53C-MZD-G14-F8-1C1
	Mid-position exhausted, type C			
	P53E	Mechanical spring return, internal pilot air supply, flow direction not reversible	575539	VUVS-L25-P53E-MD-G14-F8-1C1
		Mechanical spring return, external pilot air supply, reversible flow direction	575540	VUVS-L25-P53E-MZD-G14-F8-1C1
	Mid-position pressurised, type C			
	P53U	Mechanical spring return, internal pilot air supply, flow direction not reversible	575532	VUVS-L25-P53U-MD-G14-F8-1C1
		Mechanical spring return, external pilot air supply, reversible flow direction	575533	VUVS-L25-P53U-MZD-G14-F8-1C1
	Mid-position closed, type B			
	P53C	Mechanical spring return, internal pilot air supply, flow direction not reversible	575527	VUVS-L25-P53C-MD-G14-F8-1B2
		Mechanical spring return, external pilot air supply, reversible flow direction	575528	VUVS-L25-P53C-MZD-G14-F8-1B2
	Mid-position exhausted, type B			
	P53E	Mechanical spring return, internal pilot air supply, flow direction not reversible	575541	VUVS-L25-P53E-MD-G14-F8-1B2
		Mechanical spring return, external pilot air supply, reversible flow direction	575542	VUVS-L25-P53E-MZD-G14-F8-1B2
	Mid-position pressurised, type B			
	P53U	Mechanical spring return, internal pilot air supply, flow direction not reversible	575534	VUVS-L25-P53U-MD-G14-F8-1B2
		Mechanical spring return, external pilot air supply, reversible flow direction	575535	VUVS-L25-P53U-MZD-G14-F8-1B2

Accessories

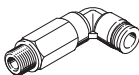
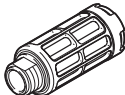
Ordering data		Description	Part no.	Type	
Solenoid coils for valves with armature tube 8 mm					
	Plug pattern type C, to DIN EN 175301-803	12 V DC	–	8030810	VACF-B-C1-5
		24 V DC		8030811	VACF-B-C1-1
		48 V DC		8030812	VACF-B-C1-7
		24 V AC/50-60 Hz		8030813	VACF-B-C1-1A
		48 V AC/50-60 Hz		8030814	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
	Plug pattern type C, industry standard	24 V DC	–	8153947	VACF-B-E1-1
	Plug pattern type B, acc. to DIN EN 175301-803	24 V DC	3.3 W	8220305	VACF-B-B1-1
			4.5 W	8235213	VACF-B-45-B1-1
	Plug pattern type B, industry standard	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
	Single plug M8x1 A-coded to EN 61076-2-104, 4-pin	24 V DC	–	8150875	VACF-B-R1-1L
	Single plug M12, A-coded, to EN 61076-2-101	24 V DC		8150876	VACF-B-R3-1L
	Single plug M12, A-coded, pin assignment to DESINA	24 V DC		8150877	VACF-B-R4-1L
	Single plug M8x1 A-coded to EN 61076-2-104, 3-pin	24 V DC		8150874	VACF-B-R8-1L
	Single plug M8x1 A-coded to EN 61076-2-104, 3-pin	24 V DC	Holding current reduction, analogue, with integrated protective circuit	8150878	VACF-B-R8-1RAL
	Single plug M8x1 A-coded to EN 61076-2-104, 4-pin	24 V DC		8150879	VACF-B-R1-1RAL
	Single plug M12, A-coded, to EN 61076-2-101	24 V DC		8150873	VACF-B-R3-1RAL
	Single plug M12, A-coded, pin assignment to DESINA	24 V DC		8150880	VACF-B-R4-1RAL
Seal set for solenoid coil					
	Plug pattern type B to guarantee degree of protection IP67	–	8034609	VAMC-B10-B-B-S8	
	Plug pattern type C to guarantee degree of protection IP67		2643771	VAMC-B10-C-B-S8	
Cover cap					
	For manual override, non-detenting or covered	–	8028240	VAMC-B10-20-CH2	

Accessories

Ordering data				Description		Part no.	Type
Plug socket							
	Plug pattern type C, to 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	
		–	20.4 ... 27.6 V DC	IP65	8105012	NECV-C1W3L-P-P13	
	3-pin, angled plug	Cable connector M12	0 ... 24 V DC	IP65	570367	MSSD-EB-M12-24VDC-SD-EX	
	Plug pattern type B, industry standard						
	3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/DC	IP65	539710	MSSD-F-M16	
		Cable fitting Pg9			34431	MSSD-F	
		–	20.4 ... 27.6 V DC	IP65	8105013	NECV-B2W3L-P-P12	
	Plug pattern type A, to EN 175301-803						
3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/DC	IP65	539709	MSSD-C-M16		
3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/DC	IP65	8037151	MSSD-C-EX		
Adapter							
	Socket type C, to EN 175301-803	Plug M12x1, 2-pin, A-coded	12 ... 24 V AC/DC	IP65	188024	MSSD-EB-M12-MONO	
Plug socket with cable							
	Plug pattern type C, to EN 175301-803						
	Angled socket, 3-pin Cable, open end, 3-core	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 ¹⁾	–	2.5 m	151690	KMEB-1-230AC-2.5	
				5 m	151691	KMEB-1-230AC-5	
	Plug pattern type B, industry standard						
	Angled socket, 3-pin Cable, open end, 3-core	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 ¹⁾	–	2.5 m	30936	KMF-1-230AC-2.5	
				5 m	30938	KMF-1-230AC-5	
Illuminating seal							
	Plug pattern type C, to DIN EN 175301-803	24 V DC		151717	MEB-LD-12-24DC		
		230 V AC		151718	MEB-LD-230AC		
	Plug pattern type B, industry standard	24 V DC		19143	MF-LD-12-24DC		
		230 V AC		19144	MF-LD-230AC		

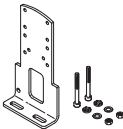
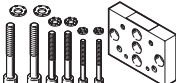
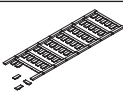
1) Plug socket 230 V AC can be used for 24 V DC without LED configuration.

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 G1/4 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 G1/4 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 G1/4 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
Silencer					
	With connecting thread G, polymer version	G1/4	2316	U-1/4	1
			534223	U-1/4-20	20
	With connecting thread G, metal version	G1/4	6842	U-1/4-B	1
	With connecting thread G, sintered version, long	G1/4	1205861	AMTE-M-LH-G14	20

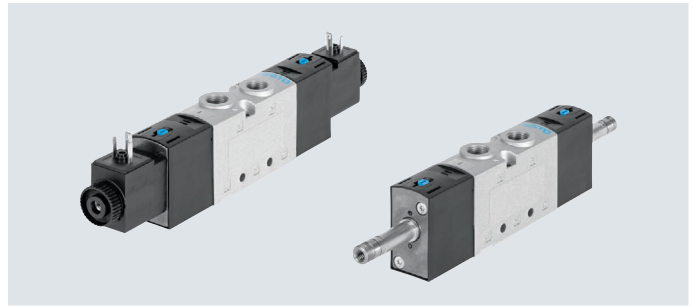
1) Packaging unit

Accessories

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
Assortment of spare parts					
	Set comprising seals and screws		12	8035636	VAME-B10-25-MK
Inscription label					
	Frame with 40 labels		–	565306	ASLR-C-E4
Mounting kit					
	With mounting bracket for lateral valve mounting	For standards-based cylinder DSBC-50...125	160	2612128	DAVM-MW-V1-50-V

Datasheet

-  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-way valve		5/2-way valve		5/3-way valve		
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						
Flow direction	Reversible with external pilot air supply						
Pilot air supply	Internal or external						
Type of control	Piloted						
Manual override	Non-detenting, detenting						
Overlap	Positive overlap						
Sealing principle	Soft						
Type of mounting	Optionally via through-hole or on manifold rail						
Standard nominal flow rate q _N [l/min]	2300	2300	2300		2000	1600	1600
Actuation type	Electrical						
Mounting position	Any						
Exhaust air function	Can be throttled						
Pneumatic connection	1, 2, 3	G3/8	G3/8	G3/8	G3/8	G3/8	G3/8
	4, 5	–	–	G3/8	G3/8	G3/8	G3/8
Pilot air port 12/14	G1/8						
Pilot exhaust air port 82/84	M5						

ATEX

Type	VUVS-L...-EX2
ATEX category for gas	II 3G
Type of ignition protection for gas	Ex ec IIIC T4 Gc X
ATEX category for dust	II 3D
Type of ignition protection for dust	Ex tc IIIC T115°C Dc X
Explosion-proof ambient temperature [°C]	–10°C ≤ Ta ≤ +60 °C
CE marking (see declaration of conformity) ¹⁾	To EU Explosion Protection Directive (ATEX)
UKCA marking (see declaration of conformity) ¹⁾	To UK explosion regulations
Explosion protection certification outside the EU	EPL Dc (GB)
	EPL Gc (GB)

1) For information about the area of use, see the declaration of conformity at: www.festo.com/catalogue/... → Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

Datasheet

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 in [ms]	On	19	16	19	15
	Off	36	58	37	57
	Change-over	–	–	–	–
Product weight without solenoid coil	[g]	354	354	354	354
Product weight with 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 in [ms]	On	24	17	–
	Off	49	62	–
	Change-over	–	–	13
Product weight without solenoid coil	[g]	450	450	464
Product weight with solenoid coil	[g]	500	500	565

Technical data – 5/3-way valves				
Order code for valves		P53C		P53U
Normal position/mid-position		Closed		Pressurised
Stable position		Monostable		Exhausted
Reset method		Mechanical spring		
Switching times in [ms]	On	17	18	20
	Off	76	75	74
	Change-over	39	31	36
Product weight without solenoid coil	[g]	461	461	461
Product weight with solenoid coil	[g]	562	562	562

Safety characteristics		
Max. positive test pulse with logic 0	[µs]	2000 (valves with VACF-B-...-1)
Max. negative test pulse with logic 1	[µs]	3600 (valves with VACF-B-...-1)
Shock resistance		Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Vibration resistant		Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

Datasheet

Operating and environmental conditions					
Order code for valves		M32	M52	B52	P53
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]			
Pilot medium		Compressed air to ISO 8573-1:2010 [7:4:4]			
Note on the operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)			
Cleanroom class		ISO class 6			
Operating pressure with internal pilot air supply	[MPa]	0.25 ... 1		0.15 ... 1	0.25 ... 1
	[bar]	2.5 ... 10		1.5 ... 10	2.5 ... 10
Operating pressure with external pilot air supply	[MPa]	−0.09 ... +1			
	[bar]	−0.9 ... +10			
Pilot pressure	[MPa]	0.25 ... 1		0.15 ... 1	0.25 ... 1
	[bar]	2.5 ... 10		1.5 ... 10	2.5 ... 10
Ambient temperature	[°C]	−10 ... +60			
Temperature of medium	[°C]	−10 ... +60			
Certification		c UL us - Recognized (OL)			
Maritime classification1)		See certificate (for VUVS-...-F8, VUVS-...-F8-...-A1 and VUVS-...-F8-...-B2 only)			
Corrosion resistance class CRC ²⁾		2			

1) More information www.festo.com/catalogue/... → Support/Downloads.

2) More information www.festo.com/x/topic/crc

Electrical data		
	With solenoid coil	Without solenoid coil
Electrical connection	Plug type C to EN 175301-803, plug type B to industry standard (11 mm)	Via solenoid coil → Internet: vacf
Operating voltage	[V DC]	
	[V AC]	
Permitted voltage fluctuations	[%]	
Power (24 V DC)	[W]	
Duty cycle	[%]	
Degree of protection to EN 60529	IP65 with plug socket	

Materials	
Housing	Die-cast aluminium
Seals	HNBR, NBR
Piston spool	Wrought aluminium alloy
Screws	Nickel-plated steel
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Datasheet

Dimensions

3/2-way valves, with solenoid coil

Download CAD data → www.festo.com

3/2-way valves, without solenoid coil

[1] Solenoid coil interface type B/
type C

[2] Space for inscription label

[4] Port 10/12 for pilot air supply

[6] Port 82 for pilot exhaust air

[7] For screw M5

Type	B1	B2	B3	B4	B5	D1	D3	D4	D5 Ø	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					

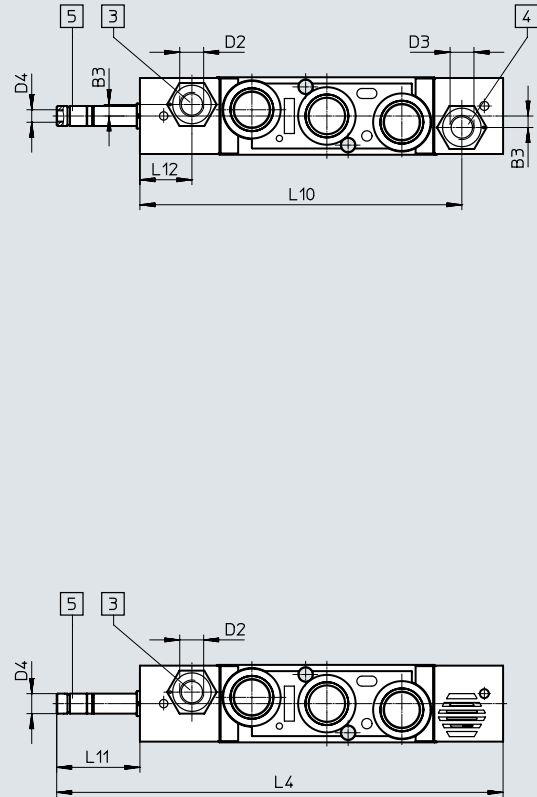
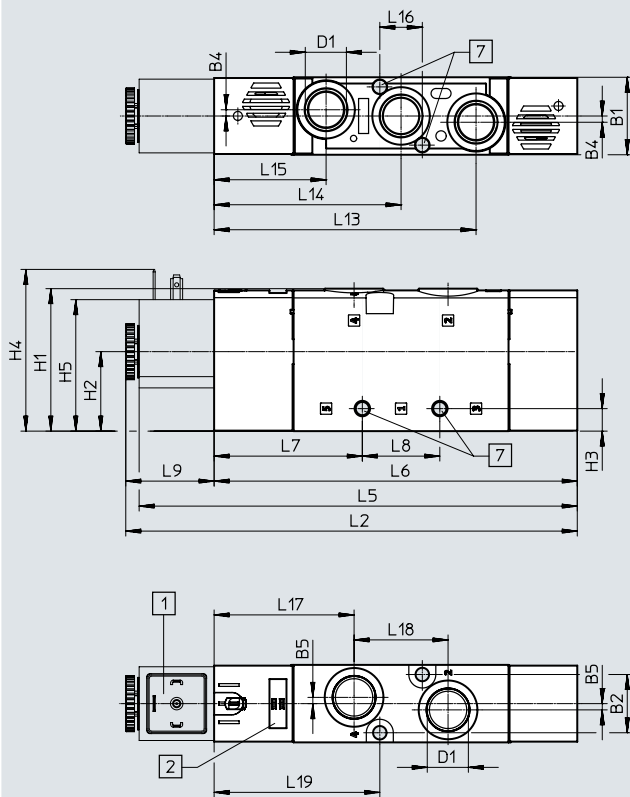
Datasheet

Dimensions

[Download CAD data → www.festo.com](http://www.festo.com)

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] Space 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 Ø	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							

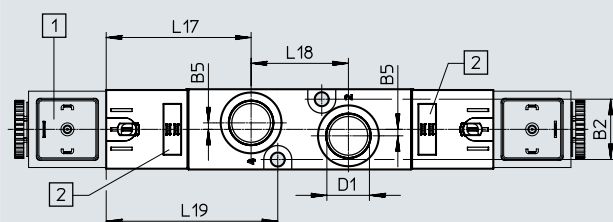
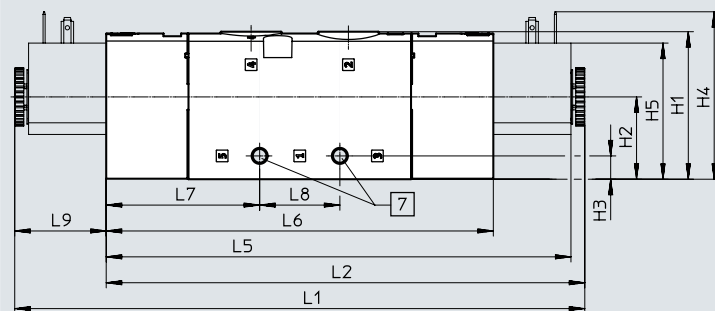
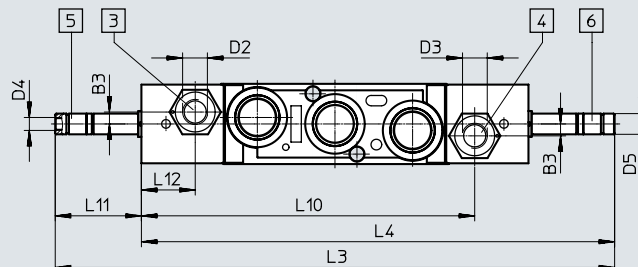
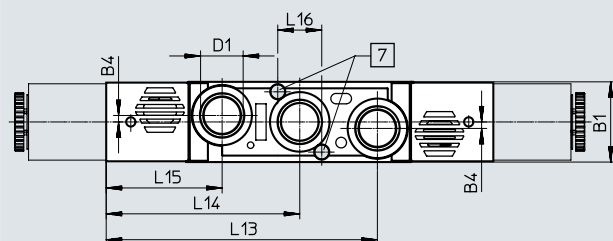
Datasheet

Dimensions

Download CAD data → www.festo.com

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

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

[1] Solenoid coil interface type B/
type C[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

[2] Space for inscription label

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-...			4.6				G1/8	G1/8							
VUVS-L30-B52-D-G38-...			–				–	–							
VUVS-L30-B52-ZD-G38-...			4.6				G1/8	G1/8							

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

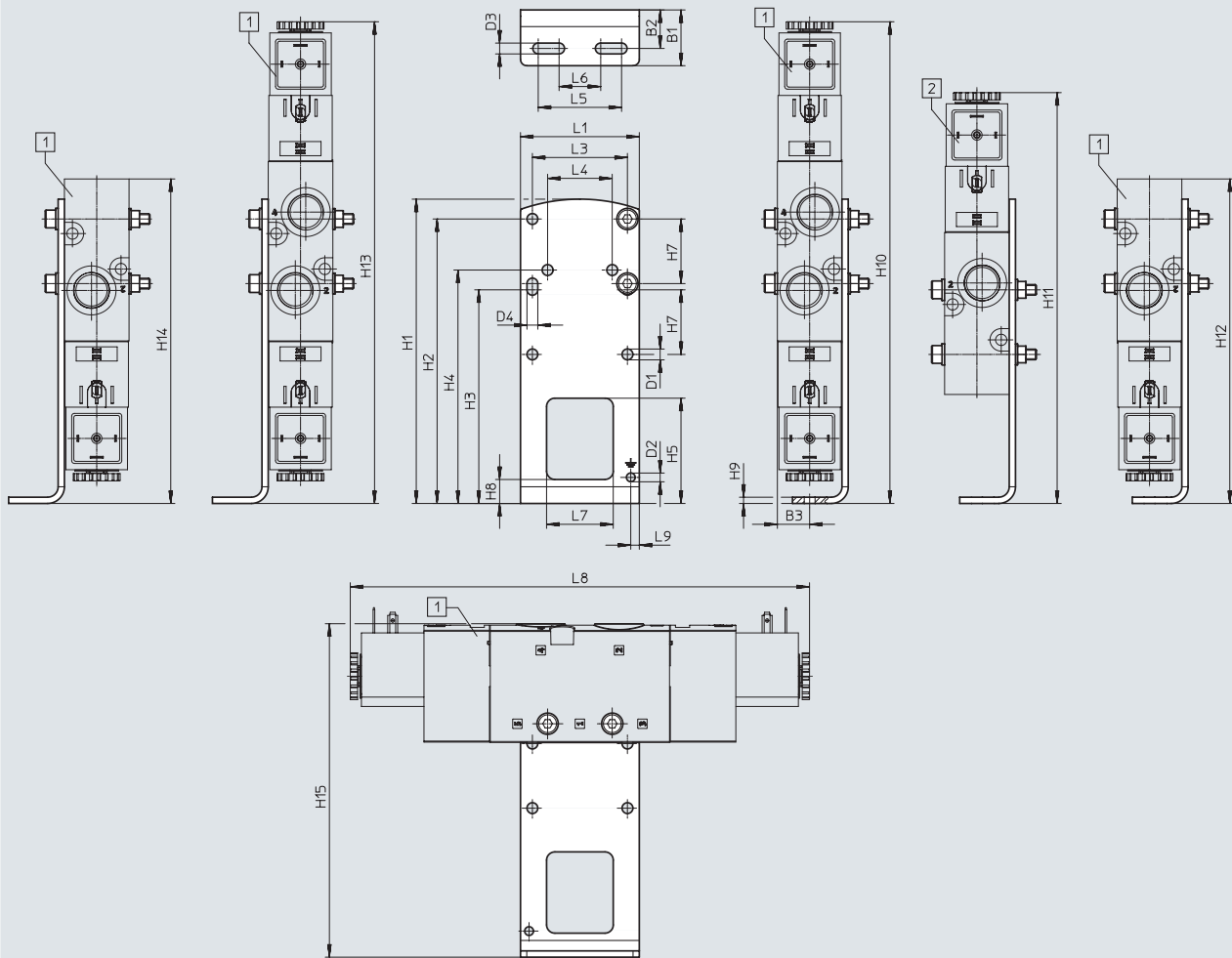
Type	L11	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-L30-P53...-MD-G38-...	33.3	–	104.8	74.8	44.8	17	56	37.6	66.3
VUVS-L30-P53...-MZD-G38-...		20.8							
VUVS-L30-B52-D-G38-...		–							
VUVS-L30-B52-ZD-G38-...		20.8							

Accessories

Dimensions

Download CAD data → www.festo.com

Foot mounting



[1] VUVS-L30-B52,
VUVS-L30-P53,
VUVS-L30-M52,
VUVS-L30-M32

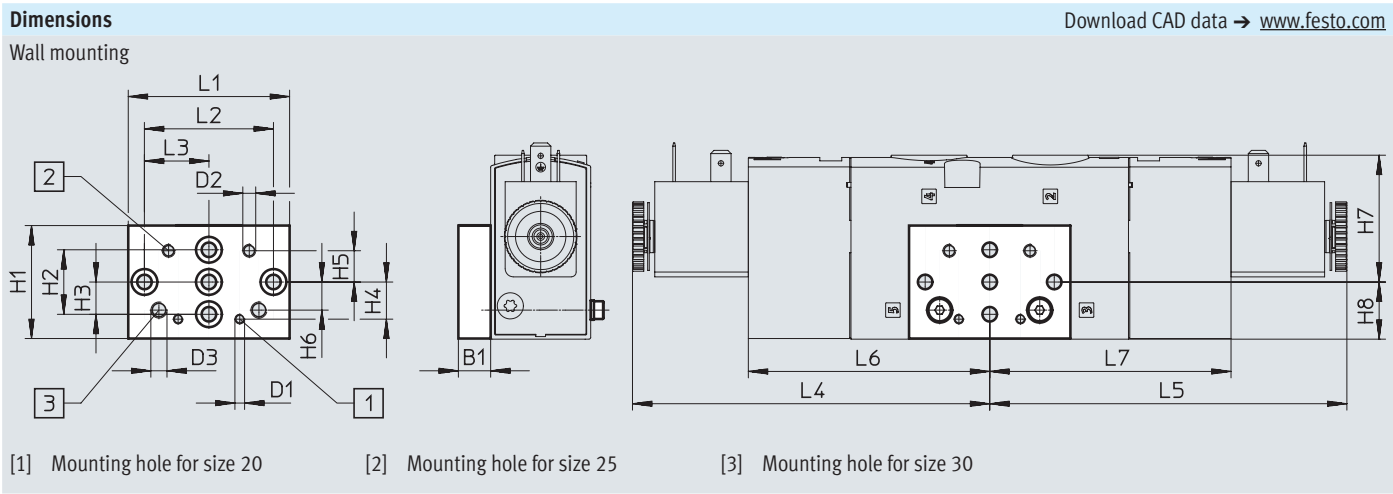
[2] VUVS-L30-M52,
VUVS-L30-M32

Type		B1	B2	B3	D1 Ø	D2 Ø	D3	D4	H1	H2	H3
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
	VUVS-L30-M52										
	VUVS-L30-M32										

Type		H4	H5	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-30-A	VUVS-L30-B52/P53	112	50.5	31	11.5	3	231.2	—	231.2	231.2	231.2
	VUVS-L30-M52							197.2	191.5		191.5
	VUVS-L30-M32								155.7		155.7

Type		H15	L1	L3	L4	L5	L6	L7	L8	L9
VAME-B10-30-A	VUVS-L30-B52/P53	160	57	45.6	31	40	20	32	220.3	4.1
	VUVS-L30-M52								180.7	
	VUVS-L30-M32								144.9	

Accessories

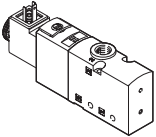
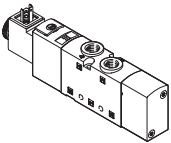
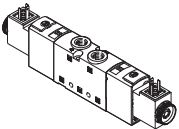
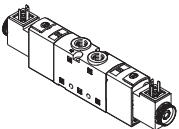


Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-L30-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-L30-M52										
	VUVS-L30-M32										

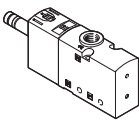
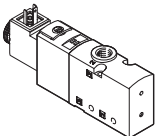
Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-L30-B52/P53	39.3	17.7	50	40	20	110.2	110.2	74.8	74.8
	VUVS-L30-M52							70.5		-
	VUVS-L30-M32							34.7		

Accessories

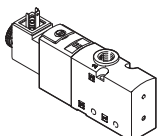
★ Core Range

Ordering data				
	Code	Valve function	Part no.	Type
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, flow direction not reversible	575568	VUVS-L30-M32C-AD-G38-F8-1C1
			8059145	VUVS-L30-M32C-AD-G38-F8-1C1+G
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575570	VUVS-L30-M32C-MD-G38-F8-1C1
8059146			VUVS-L30-M32C-MD-G38-F8-1C1+G	
5/2-way valve with solenoid coil (24 V DC)				
	Single solenoid, type C			
	M52-A	Pneumatic spring return, internal pilot air supply, flow direction not reversible	575596	VUVS-L30-M52-AD-G38-F8-1C1
			8059147	VUVS-L30-M52-AD-G38-F8-1C1+G
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575604	VUVS-L30-M52-MD-G38-F8-1C1
8059148			VUVS-L30-M52-MD-G38-F8-1C1+G	
	Double solenoid, type C			
	B52	Internal pilot air supply, flow direction not reversible	575611	VUVS-L30-B52-D-G38-F8-1C1
			8059149	VUVS-L30-B52-D-G38-F8-1C1+G
5/3-way valve with solenoid coil (24 V DC)				
	Mid-position closed, type C			
	P53C	Mechanical spring return, internal pilot air supply, flow direction not reversible	575618	VUVS-L30-P53C-MD-G38-F8-1C1
			8059150	VUVS-L30-P53C-MD-G38-F8-1C1+G

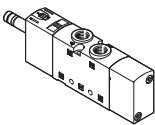
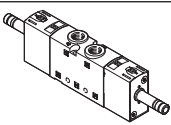
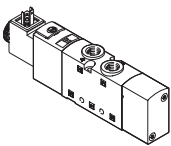
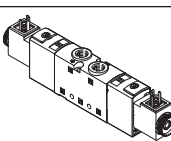
Accessories

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, flow direction not reversible	575564	VUVS-L30-M32C-AD-G38-F8
		Pneumatic spring return, external pilot air supply, reversible flow direction	575565	VUVS-L30-M32C-AZD-G38-F8
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575566	VUVS-L30-M32C-MD-G38-F8
		Mechanical spring return, external pilot air supply, reversible flow direction	575567	VUVS-L30-M32C-MZD-G38-F8
	Single solenoid, normally open			
	M32U-A	Pneumatic spring return, internal pilot air supply, flow direction not reversible	575579	VUVS-L30-M32U-AD-G38-F8
		Pneumatic spring return, external pilot air supply, reversible flow direction	575580	VUVS-L30-M32U-AZD-G38-F8
	M32U-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575581	VUVS-L30-M32U-MD-G38-F8
		Mechanical spring return, external pilot air supply, reversible flow direction	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, external pilot air supply, reversible flow direction	575569	VUVS-L30-M32C-AZD-G38-F8-1C1
	M32C-M	Mechanical spring return, external pilot air supply, reversible flow direction	575571	VUVS-L30-M32C-MZD-G38-F8-1C1
	Single solenoid, normally closed, type B			
	M32C-A	Pneumatic spring return, internal pilot air supply, flow direction not reversible	575572	VUVS-L30-M32C-AD-G38-F8-1B2
		Pneumatic spring return, external pilot air supply, reversible flow direction	575573	VUVS-L30-M32C-AZD-G38-F8-1B2
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575574	VUVS-L30-M32C-MD-G38-F8-1B2
		Mechanical spring return, external pilot air supply, reversible flow direction	575575	VUVS-L30-M32C-MZD-G38-F8-1B2

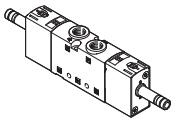
Accessories

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, flow direction not reversible	575583	VUVS-L30-M32U-AD-G38-F8-1C1
	M32U-A	Pneumatic spring return, external pilot air supply, reversible flow direction	575584	VUVS-L30-M32U-AZD-G38-F8-1C1
	M32U-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575585	VUVS-L30-M32U-MD-G38-F8-1C1
	M32U-M	Mechanical spring return, external pilot air supply, reversible flow direction	575586	VUVS-L30-M32U-MZD-G38-F8-1C1
	Single solenoid, normally open, type B			
	M32U-A	Pneumatic spring return, internal pilot air supply, flow direction not reversible	575587	VUVS-L30-M32U-AD-G38-F8-1B2
		Pneumatic spring return, external pilot air supply, reversible flow direction	575588	VUVS-L30-M32U-AZD-G38-F8-1B2
	M32U-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575589	VUVS-L30-M32U-MD-G38-F8-1B2
		Mechanical spring return, external pilot air supply, reversible flow direction	575590	VUVS-L30-M32U-MZD-G38-F8-1B2

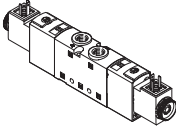
Accessories

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, flow direction not reversible	575594	VUVS-L30-M52-AD-G38-F8
		Pneumatic spring return, external pilot air supply, reversible flow direction	575595	VUVS-L30-M52-AZD-G38-F8
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575602	VUVS-L30-M52-MD-G38-F8
		Mechanical spring return, external pilot air supply, reversible flow direction	575603	VUVS-L30-M52-MZD-G38-F8
	Double solenoid			
	B52	Internal pilot air supply, flow direction not reversible	575609	VUVS-L30-B52-D-G38-F8
		External pilot air supply, reversible flow direction	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, external pilot air supply, reversible flow direction	575597	VUVS-L30-M52-AZD-G38-F8-1C1
	M52-M	Mechanical spring return, external pilot air supply, reversible flow direction	575605	VUVS-L30-M52-MZD-G38-F8-1C1
	Single solenoid, type B			
	M52-A	Pneumatic spring return, internal pilot air supply, flow direction not reversible	575598	VUVS-L30-M52-AD-G38-F8-1B2
		Pneumatic spring return, external pilot air supply, reversible flow direction	575599	VUVS-L30-M52-AZD-G38-F8-1B2
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	575606	VUVS-L30-M52-MD-G38-F8-1B2
		Mechanical spring return, external pilot air supply, reversible flow direction	575607	VUVS-L30-M52-MZD-G38-F8-1B2
		Double solenoid, type C		
B52		External pilot air supply, reversible flow direction	575612	VUVS-L30-B52-ZD-G38-F8-1C1
Double solenoid, type B				
B52		Internal pilot air supply, flow direction not reversible	575613	VUVS-L30-B52-D-G38-F8-1B2
		External pilot air supply, reversible flow direction	575614	VUVS-L30-B52-ZD-G38-F8-1B2

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, flow direction not reversible	575616	VUVS-L30-P53C-MD-G38-F8
		Mechanical spring return, external pilot air supply, reversible flow direction	575617	VUVS-L30-P53C-MZD-G38-F8
	Mid-position exhausted			
	P53E	Mechanical spring return, internal pilot air supply, flow direction not reversible	575630	VUVS-L30-P53E-MD-G38-F8
		Mechanical spring return, external pilot air supply, reversible flow direction	575631	VUVS-L30-P53E-MZD-G38-F8
	Mid-position pressurised			
	P53U	Mechanical spring return, internal pilot air supply, flow direction not reversible	575623	VUVS-L30-P53U-MD-G38-F8
		Mechanical spring return, external pilot air supply, reversible flow direction	575624	VUVS-L30-P53U-MZD-G38-F8

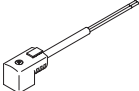
Accessories

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, external pilot air supply, reversible flow direction	575619	VUVS-L30-P53C-MZD-G38-F8-1C1
	Mid-position exhausted, type C			
	P53E	Mechanical spring return, internal pilot air supply, flow direction not reversible	575632	VUVS-L30-P53E-MD-G38-F8-1C1
		Mechanical spring return, external pilot air supply, reversible flow direction	575633	VUVS-L30-P53E-MZD-G38-F8-1C1
	Mid-position pressurised, type C			
	P53U	Mechanical spring return, internal pilot air supply, flow direction not reversible	575625	VUVS-L30-P53U-MD-G38-F8-1C1
		Mechanical spring return, external pilot air supply, reversible flow direction	575626	VUVS-L30-P53U-MZD-G38-F8-1C1
	Mid-position closed, type B			
	P53C	Mechanical spring return, internal pilot air supply, flow direction not reversible	575620	VUVS-L30-P53C-MD-G38-F8-1B2
		Mechanical spring return, external pilot air supply, reversible flow direction	575621	VUVS-L30-P53C-MZD-G38-F8-1B2
	Mid-position exhausted, type B			
	P53E	Mechanical spring return, internal pilot air supply, flow direction not reversible	575634	VUVS-L30-P53E-MD-G38-F8-1B2
		Mechanical spring return, external pilot air supply, reversible flow direction	575635	VUVS-L30-P53E-MZD-G38-F8-1B2
	Mid-position pressurised, type B			
	P53U	Mechanical spring return, internal pilot air supply, flow direction not reversible	575627	VUVS-L30-P53U-MD-G38-F8-1B2
		Mechanical spring return, external pilot air supply, reversible flow direction	575628	VUVS-L30-P53U-MZD-G38-F8-1B2

Accessories

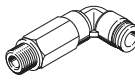
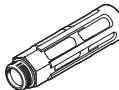
Ordering data		Description		Part no.	Type	
Solenoid coils for valves						
	Plug pattern type C, to DIN EN 175301-803	12 V DC	–	8030810	VACF-B-C1-5	
		24 V DC		8030811	VACF-B-C1-1	
		48 V DC		8030812	VACF-B-C1-7	
		24 V AC/50-60 Hz		8030813	VACF-B-C1-1A	
		48 V AC/50-60 Hz		8030814	VACF-B-C1-7A	
		110/120 V AC/50-60 Hz		8030815	VACF-B-C1-16B	
		230/240 V AC/50-60 Hz		8030817	VACF-B-C1-3W	
				Plug pattern type C, industry standard	24 V DC	–
	Plug pattern type B, to DIN EN 175301-803	24 V DC	3.3 W	8220305	VACF-B-B1-1	
			4.5 W	8235213	VACF-B-45-B1-1	
	Plug pattern type B, industry standard	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	
		Plug pattern type A, to EN 175301-803		12 V DC	8030821	VACF-A-A1-5
	24 V DC			8030822	VACF-A-A1-1	
	48 V DC			8030823	VACF-A-A1-7	
	24 V AC/50-60 Hz			8030824	VACF-A-A1-1A	
	48 V AC/50-60 Hz			8030825	VACF-A-A1-7A	
	110/120 V AC/50-60 Hz			8030826	VACF-A-A1-16B	
	230/240 V AC/50-60 Hz			8030828	VACF-A-A1-3W	
				24 V DC	8150875	VACF-B-R1-1L
				Single plug M12, A-coded, to EN 61076-2-101	8150876	VACF-B-R3-1L
					8150877	VACF-B-R4-1L
		8150874			VACF-B-R8-1L	
	M8x1 A-coded to EN 61076-2-104 3-pin	24 V DC	Holding current reduction, analogue, with integrated protective circuit	8150878	VACF-B-R8-1RAL	
	M8x1 A-coded to EN 61076-2-104	24 V DC		8150879	VACF-B-R1-1RAL	
	Single plug M12, A-coded, to EN 61076-2-101	24 V DC		8150873	VACF-B-R3-1RAL	
	Single plug M12, A-coded, pin assignment to DESINA	24 V DC		8150880	VACF-B-R4-1RAL	
Seal set for solenoid coil						
	Plug pattern type B to guarantee degree of protection IP67	–	8034609	VAMC-B10-B-B-S8		
	Plug pattern type A to guarantee degree of protection IP67		8034611	VAMC-B10-A-B-S8		
Cover cap						
	For manual override, non-detenting or covered	–	8028240	VAMC-B10-20-CH2		

Accessories

Ordering data		Description			Part no.	Type
Plug socket						
	Plug 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
		–	20.4 ... 27.6 V DC	IP65	8105012	NECV-C1W3L-P-P13
	3-pin, angled socket	Cable connector M12	0 ... 24 V DC	IP65	570367	MSSD-EB-M12-24VDC-SD-EX
	Plug pattern type B, industry standard					
	3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/DC	IP65	539710	MSSD-F-M16
Cable fitting Pg9		34431			MSSD-F	
–		20.4 ... 27.6 V DC	IP65	8105013	NECV-B2W3L-P-P12	
	Plug pattern type A, to EN 175301-803					
	3-pin, angled socket	Cable fitting Pg9	0 ... 250 V AC/DC	IP65	34583	MSSD-C
	3-pin, angled socket	Cable connector M16	0 ... 250 V AC/DC	IP65	539709	MSSD-C-M16
Adapter						
	Socket type C, to EN 175301-803	Plug M12x1, 2-pin, A-coded	12 ... 24 V AC/DC	IP65	188024	MSSD-EB-M12-MONO
Plug socket with cable						
	Plug pattern type C, to EN 175301-803					
	Angled socket, 3-pin Cable, open end, 3-core	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 ¹⁾	–	2.5 m	151690	KMEB-1-230AC-2.5
				5 m	151691	KMEB-1-230AC-5
				Plug pattern type B, industry standard		
	Angled socket, 3-pin Cable, open end, 3-core	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 ¹⁾	–	2.5 m	30936	KMF-1-230AC-2.5
				5 m	30938	KMF-1-230AC-5
				Plug pattern type A, to EN 175301-803		
	Angled socket, 3-pin Cable, open end, 3-core	24 V DC	LED	2.5 m	30931	KMC-1-24DC-2.5-LED
				5 m	30933	KMC-1-24DC-5-LED
				10 m	193459	KMC-1-24-10-LED
		230 V AC ¹⁾	–	2.5 m	30932	KMC-1-230AC-2.5
				5 m	30934	KMC-1-230AC-5
Illuminating seal						
	Plug pattern type C, to DIN EN 175301-803	24 V DC		151717	MEB-LD-12-24DC	
		230 V AC		151718	MEB-LD-230AC	
	Plug pattern type B, industry standard	24 V DC		19143	MF-LD-12-24DC	
		230 V AC		19144	MF-LD-230AC	

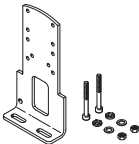
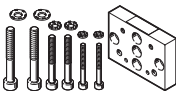
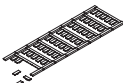
1) Plug socket 230 V AC can be used for 24 V DC without LED configuration.

Accessories

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
	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
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		
Angled push-in fitting, long, with external hex					
	Connecting thread G3/8 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
Silencer					
	With connecting thread G, metal version	G3/8	6843	U-3/8-B	1
	With connecting thread G, sintered version, long	G3/8	1205862	AMTE-M-LH-G38	10

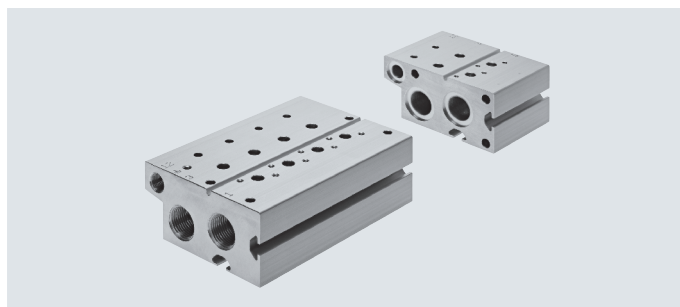
1) Packaging unit

Accessories

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	
Assortment of spare parts					
	Set comprising seals and screws	22	8035637	VAME-B10-30-MK	
Inscription label					
	Frame with 40 labels	–	565306	ASLR-C-E4	
Mounting kit					
	With mounting bracket for lateral valve mounting	For standards-based cylinder DSBC-50...125	160	2612128	DAVM-MW-V1-50-V

Datasheet – Manifold block, size 20

-  - Flow rate
up to 700 l/min



General technical data									
	Manifold block			Extension module for		Manifold block		Common supply manifold	
	Standard			Standard manifold block		Compact		At both ends	on one side
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	–	–	–	–	
Corrosion resistance1)	2								

1) More information www.festo.com/x/topic/crc

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
Common supply manifold for mounting on both sides									
VABM-B10-20-G38-...-P53	226	268	310	352	395	437	479	521	563
Common supply manifold for mounting on one side									
VABM-B10-20-G38-2-P53-E	240	282	324	–	–	–	–	–	–

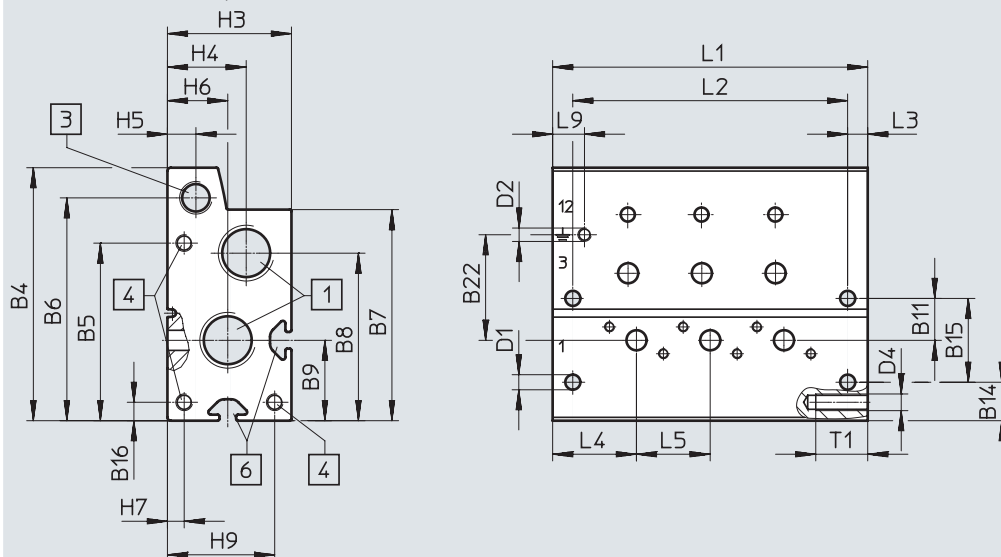
Datasheet – Manifold block, size 20

Materials	
Manifold rail	Wrought aluminium alloy
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Dimensions

Download CAD data → www.festo.com

Manifold block for 3/2-way valves, standard



[1] Port 1 and 3: G3/8

[3] Port 12: G1/8

[4] Thread M5x15.5 for extension module

[6] Profile slot IPM-05 system 5

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

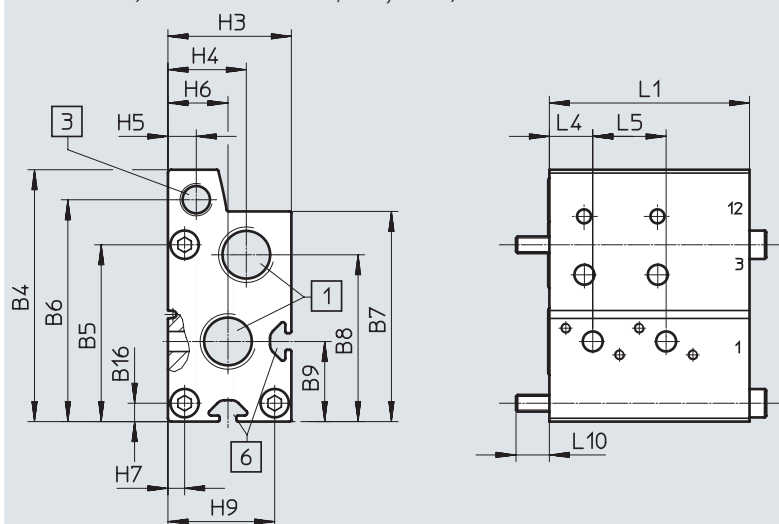
Valve positions	2	3	4	5	6	7	8	9	10
L1	72	94	116	138	160	182	204	226	248
L2	60	82	104	126	148	170	192	214	236

Datasheet – Manifold block, size 20

Dimensions

Download CAD data → www.festo.com

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



[1] Port 1 and 3: G3/8

[3] Port 12: G1/8

[6] Profile slot IPM-05 system 5

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

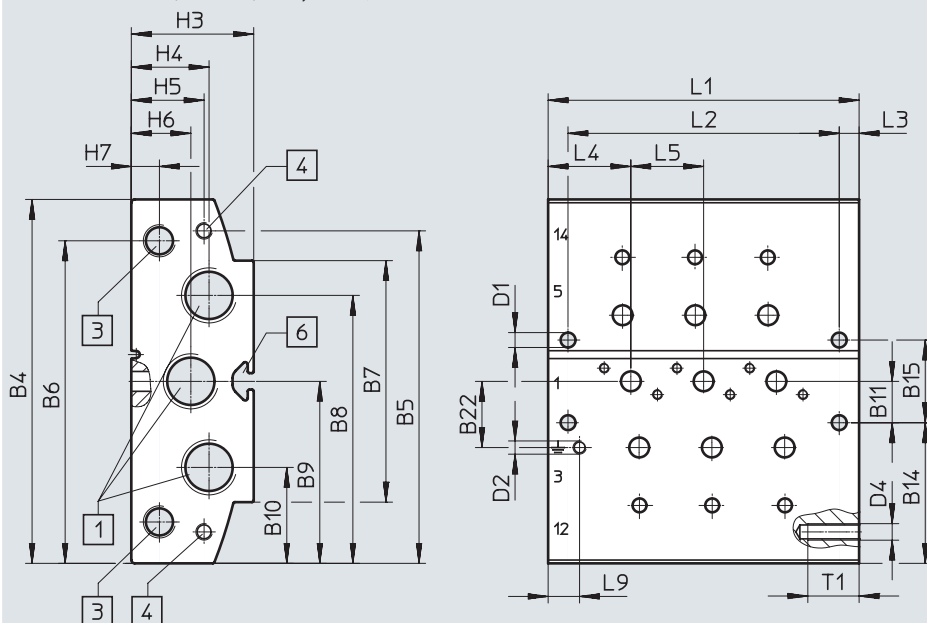
Type	H4	H5	H6	H7	H9	L1	L4	L5	L10
VABM-B10-20EEE-G38-2-P3	23.5	8.5	18	5	32	60	25	22	10

Datasheet – Manifold block, size 20

Dimensions

Download CAD data → www.festo.com

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



[1] Port 1, 3 and 5: G3/8

[3] Port 12 and 14: G1/8

[4] Thread M5x15.5 for extension module

[6] Profile slot IPM-05 system 5

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

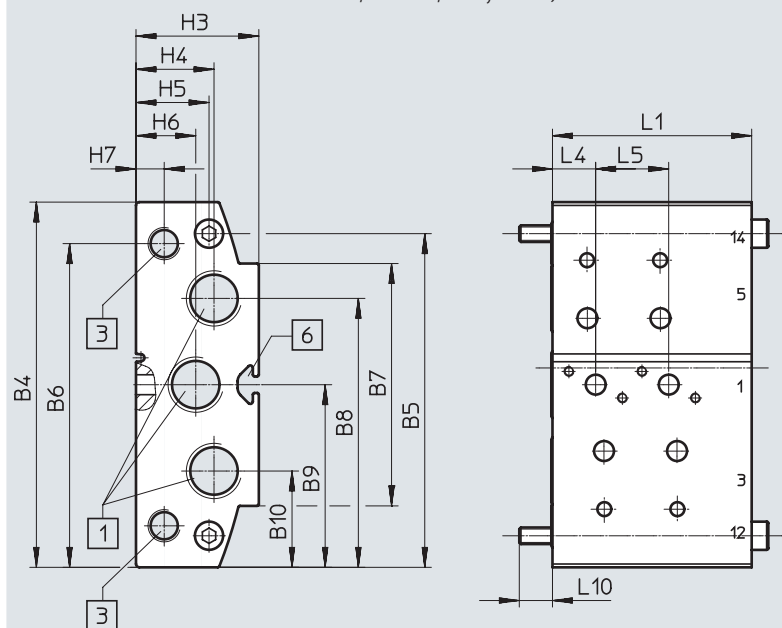
Valve positions	2	3	4	5	6	7	8	9	10
L1	72	94	116	138	160	182	204	226	248
L2	60	82	104	126	148	170	192	214	236

Datasheet – Manifold block, size 20

Dimensions

Download CAD data → www.festo.com

Extension module for manifold block for 5/2- and 5/3-way valves, standard



[1] Port 1, 3 and 5: G3/8

[3] Port 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

Datasheet – Manifold block, size 20

Dimensions

Download CAD data → www.festo.com

Manifold block for 3/2-way valves, compact

[1] Port 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	72	94	116	138	160	182	204	226	248
L2	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] Port 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

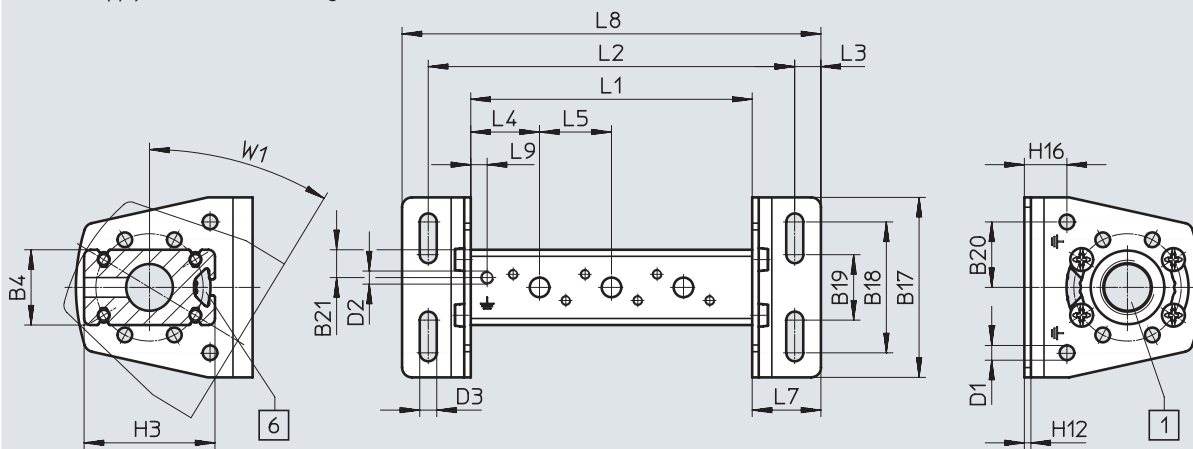
Valve positions	2	3	4	5	6	7	8	9	10
L1	72	94	116	138	160	182	204	226	248
L2	60	82	104	126	148	170	192	214	236

Datasheet – Manifold block, size 20

Dimensions

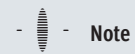
Download CAD data → www.festo.com

Common supply manifold, for mounting on both sides



[1] Port 1: G3/8

[6] Profile slot IPM-05 system 5



Note

Mounting bracket can be adjusted by $\pm 30^\circ$.

Type	B4	B17	B18	B19	B20	B21	D1 ø	D2	D3 ø
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	64	86	108	130	152	174	196	218	240
L2	90	112	134	156	178	200	222	244	266
L8	106	128	150	172	194	216	238	260	282

Datasheet – Manifold block, size 20

Dimensions

Download CAD data → www.festo.com

Common supply manifold, mounted on one side

[1] Port 1: G3/8

[6] Profile slot IPM-05 system 5

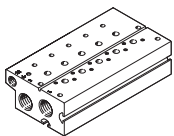
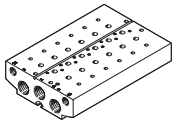
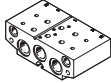
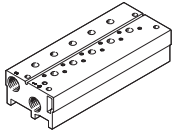
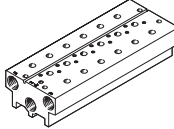
Note
Mounting bracket can be adjusted by ±30°.

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

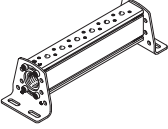
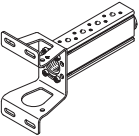
Type	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-20-G38-2-P53-E	40	106	90	21	22	50	5	30°

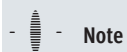
Valve positions	2	3	4
L1	64	86	108
L8	114	136	158

Ordering data – Manifold block, size 20

Ordering data – Manifold block				
	Description	Valve positions	Part no.	Type
Standard manifold block				
	For 3/2-way valves, including seals and screws for mounting valves	2	576441	VABM-B10-20E-G38-2-P3
	 - Note • Blanking plugs for sealing the supply ports (1, 3 and 14) on one side are included in the scope of delivery. • Screw set (part number 8026203) to be ordered together with solenoid valves VUVS-LK.	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-way and 5/3-way valves, including seals and screws for mounting valves	2
 - Note • Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) on one side are included in the scope of delivery. • Screw set (part number 8026203) to be ordered together with solenoid valves VUVS-LK.	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, including seals and screws for mounting valves	2	576490	VABM-B10-20EEE-G38-2-P3
	For 5/2-way and 5/3-way valves, including seals and screws for mounting valves	2	576489	VABM-B10-20EEE-G38-2
Compact manifold block				
	For 3/2-way valves, including seals and screws for mounting valves	2	576465	VABM-B10-20S-G14-2-P3
	 - Note Blanking plugs for sealing the supply ports (1, 3 and 14) on one side are included in the scope of delivery.	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-way and 5/3-way valves, including seals and screws for mounting valves	2
 - Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) on one side are included in the scope of delivery.	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

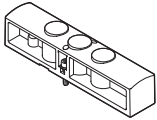
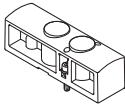
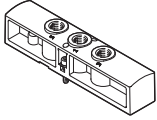
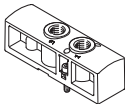
Ordering data – Manifold block, size 20

Ordering data	Description	Valve positions	Part no.	Type
Common supply manifold				
	For mounting on both sides, including seals and screws for mounting valves	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, including seals and screws for mounting valves	2	576414	VABM-B10-20-G38-2-P53-E
		3	576415	VABM-B10-20-G38-3-P53-E
		4	576416	VABM-B10-20-G38-4-P53-E

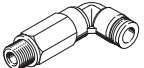
**Note**

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

Ordering data – Manifold block, size 20

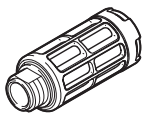
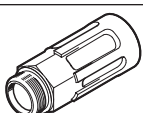
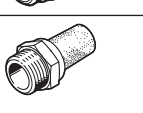
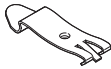
Ordering data	Description	Weight [g]	Part no.	Type
Cover plate				
	For valve position on manifold block for 5/2-way, 5/3-way valves	78	576410	VABB-B10-20-E
	For valve position on manifold block for 3/2-way valves	56	576411	VABB-B10-20-E-P3
	For valve position on common supply manifold	13	576409	VABB-B10-20-A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

Ordering data – Manifold block, size 20

Ordering data		Description	Part no.	Type	PU ¹⁾	
Push-in fitting with external hex						
	Connecting thread G1/4 for tubing O.D.	12 mm	186350	QS-G1/4-12	10	
	Connecting thread G3/8 for tubing O.D.	16 mm	186347	QS-G3/8-16	1	
Push-in fitting with internal hex						
	Connecting thread M5 for tubing O.D.	4 mm	153315	QSM-M5-4-I	10	
	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	
		8 mm	186109	QS-G1/8-8-I	10	
			133010	QS-G1/8-8-I-100	100	
	Connecting thread G1/4 for tubing O.D.	8 mm	186110	QS-G1/4-8-I	10	
		10 mm	186112	QS-G1/4-10-I	10	
	Connecting thread 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	
Angled push-in fitting, with external hex						
	Connecting thread G1/8 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 G1/4 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 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	
16 mm	186348	QSL-G3/8-16	1			
Angled push-in fitting, long, with external hex						
	Connecting thread G1/8 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	
	Connecting thread G1/4 for tubing O.D.	8 mm	186130	QSL-G1/8-8	10	
			133017	QSL-G1/8-8-100	100	

1) Packaging unit

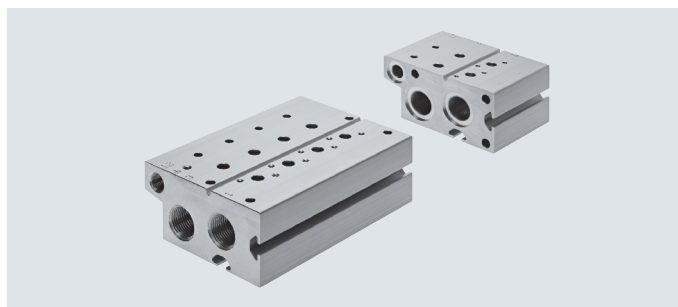
Ordering data – Manifold block, size 20

Ordering data		Description	Part no.	Type	PU ¹⁾
Silencer					
	With connecting thread G, polymer version	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
	With connecting thread G, metal version	G3/8	6843	U-3/8-B	1
	With connecting thread G, sintered version, long	G1/4	1205861	AMTE-M-LH-G14	20
		G3/8	1205862	AMTE-M-LH-G38	10
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	G1/8	569995	VABD-8-B	1
		G1/4	569996	VABD-10-B	1
		G3/8	574483	VABD-14-B	1
DIN rail mounting					
	For mounting the valve manifold assembly on standard DIN rail TH 35-7.5 or TH 35-15, to EN 60715		569998	VAME-T-M4	1

1) Packaging unit

Datasheet – Manifold block, size 25

 Flow rate
up to 1300 l/min



General technical data								
	Manifold block Standard		Extension module for Standard manifold block		Manifold block Compact		Common supply manifold on both sides on one side	
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]	27.5							
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	–	–	–	–
Corrosion resistance1)	2							

1) More information www.festo.com/x/topic/crc

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
Common supply manifold for mounting on both sides									
VABM-B10-25-G38-...-P53	258	340	422	504	586	668	750	832	914
Common supply manifold for mounting on one side									
VABM-B10-25-G38-2-P53-E	258	340	422	–	–	–	–	–	–

 **Note**

Manifold blocks VABM in size 25 cannot be used in combination with VUVS-...-FN

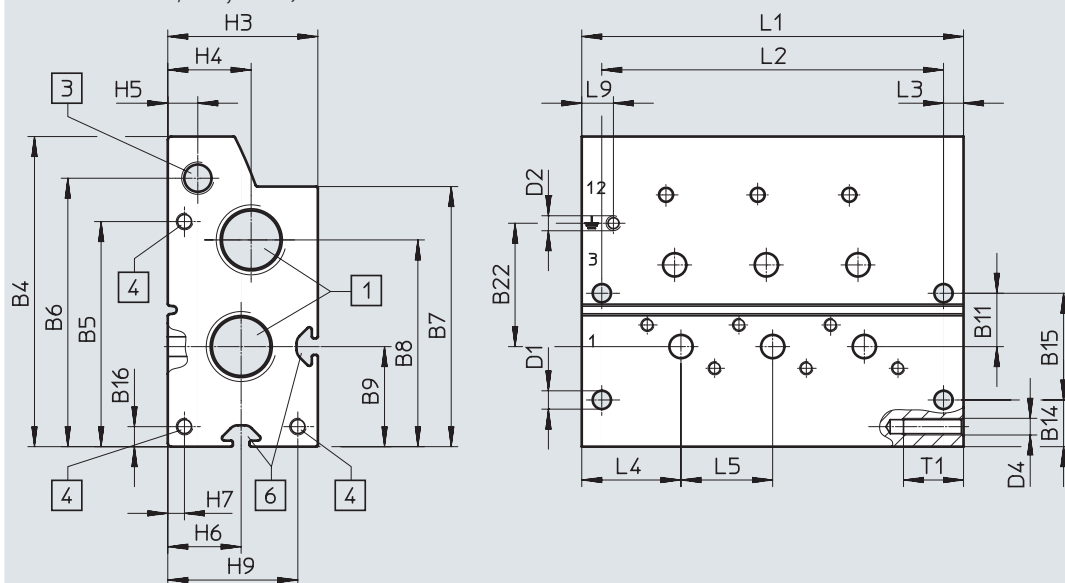
Datasheet – Manifold block, size 25

Materials	
Manifold rail	Wrought aluminium alloy
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Dimensions

Download CAD data → www.festo.com

Manifold block for 3/2-way valves, standard



[1] Port 1 and 3: G1/2

[3] Port 12: G1/8

[4] Thread M5x18 for extension module

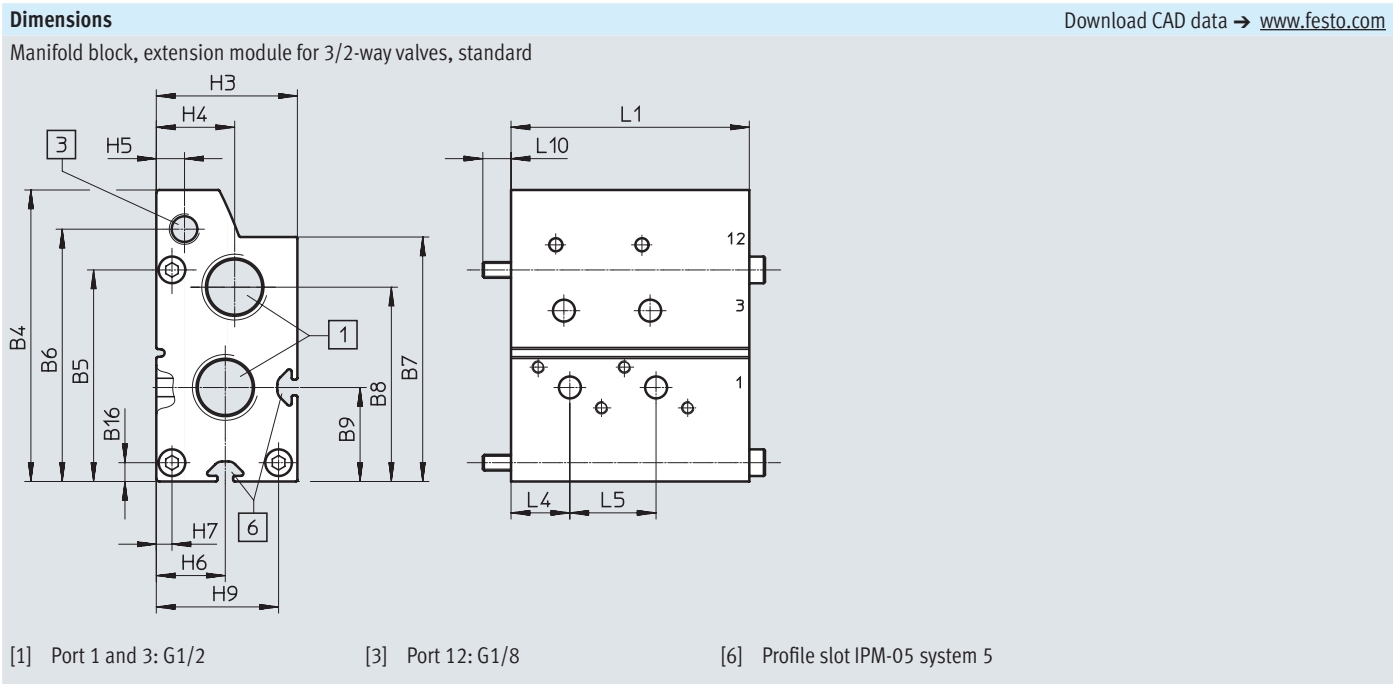
[6] Profile slot IPM-05 system 5

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	87	114.5	142	169.5	197	224.5	252	279.5	307
L2	75	102.5	130	157.5	185	212.5	240	267.5	295

Datasheet – Manifold block, size 25



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

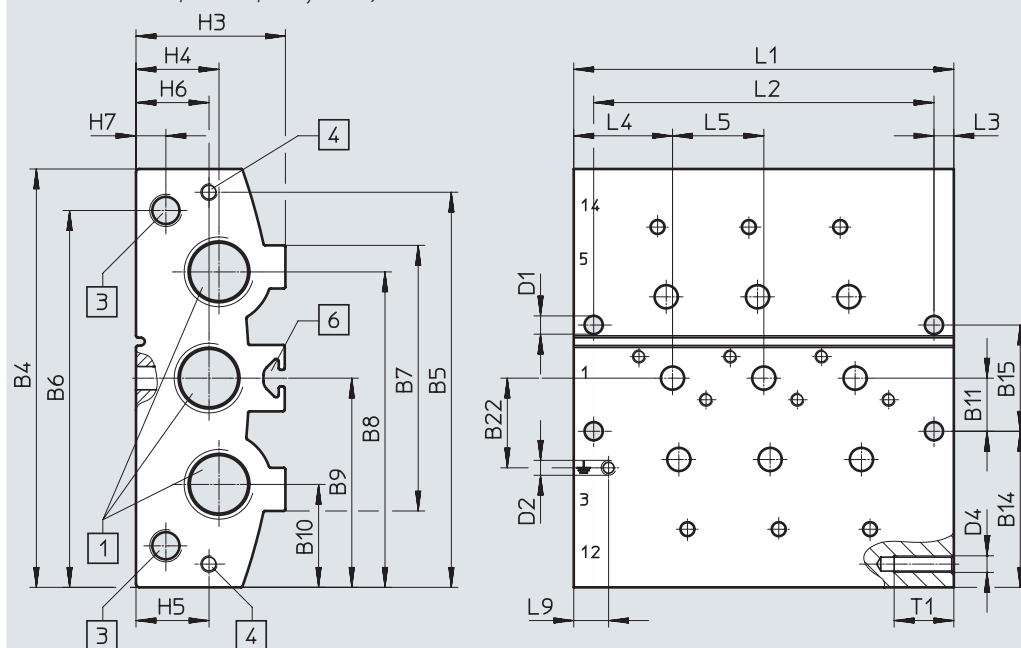
Type	H4	H5	H6	H7	H9	L4	L5	L10	L1
VABM-B10-25EEE-G12-2-P3	25	9	22	5	39	18.8	27.5	9	76

Datasheet – Manifold block, size 25

Dimensions

Download CAD data → www.festo.com

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



[1] Port 1, 3 and 5: G1/2

[3] Port 12 and 14: G1/8

[4] Thread M5x18 for extension module

[6] Profile slot IPM-05 system 5

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

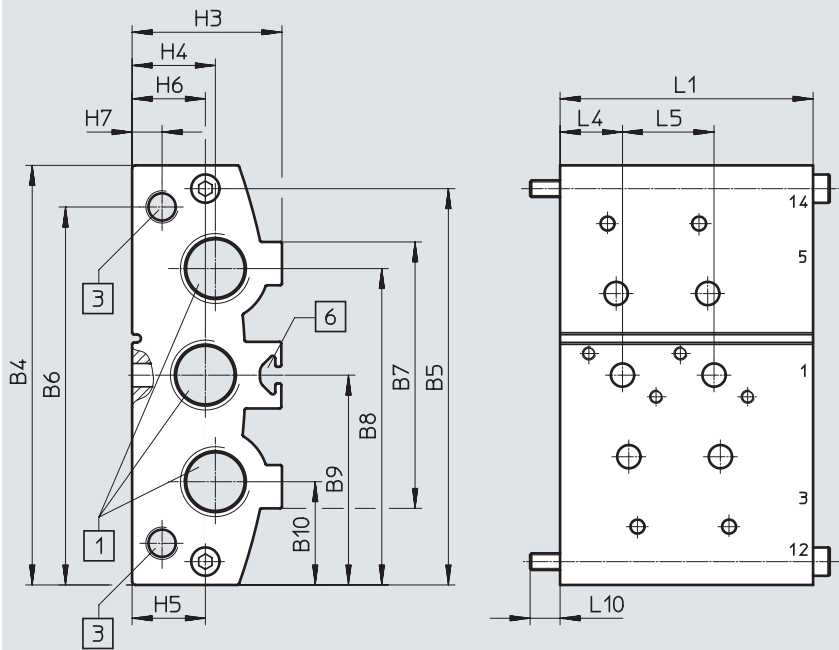
Type	D1 ø	D2	D4	H3	H4	H5	H6	H7	L3	L4	L5	L9	T1
VABM-B10-25E-G12-...	5.5	M4x9	M5	45	25	22	22	9	6	29.8	27.5	10.5	18

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

Datasheet – Manifold block, size 25

Dimensions Download CAD data → www.festo.com

Extension module for manifold block for 5/2- and 5/3-way valves, standard



[1] Port 1, 3 and 5: G1/2 [3] Port 12 and 14: G1/8 [6] Profile slot IPM-05 system 5

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

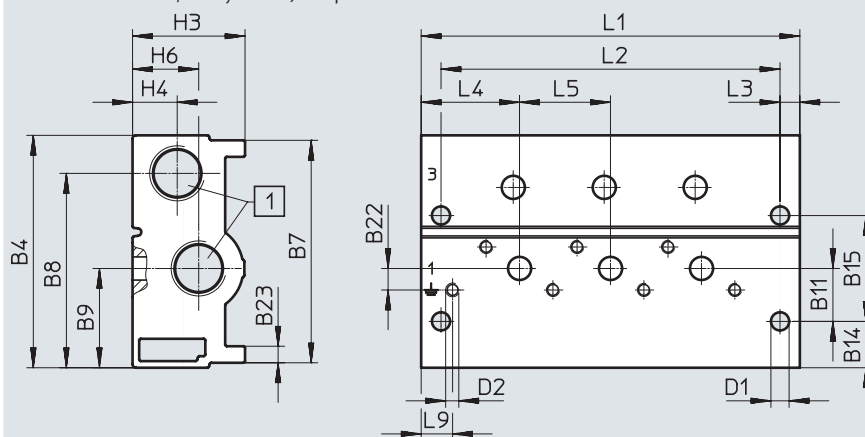
Type	H4	H5	H6	H7	L1	L4	L5	L10
VABM-B10-25EEE-G12-2	23.5	22	18	8.5	60	13	22	10

Datasheet – Manifold block, size 25

Dimensions

Download CAD data → www.festo.com

Manifold block for 3/2-way valves, compact



[1] Port 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

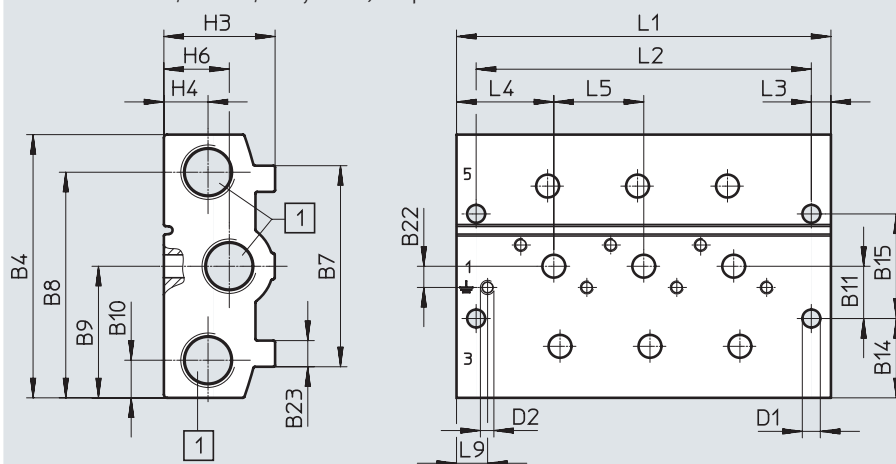
Type	D1 ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-25S-G38-...-P3	5.5	M4x9	34	13.5	20	6	29.8	27.5	9.5

Valve positions	2	3	4	5	6	7	8	9	10
L1	87	114.5	142	169.5	197	224.5	252	279.5	307
L2	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



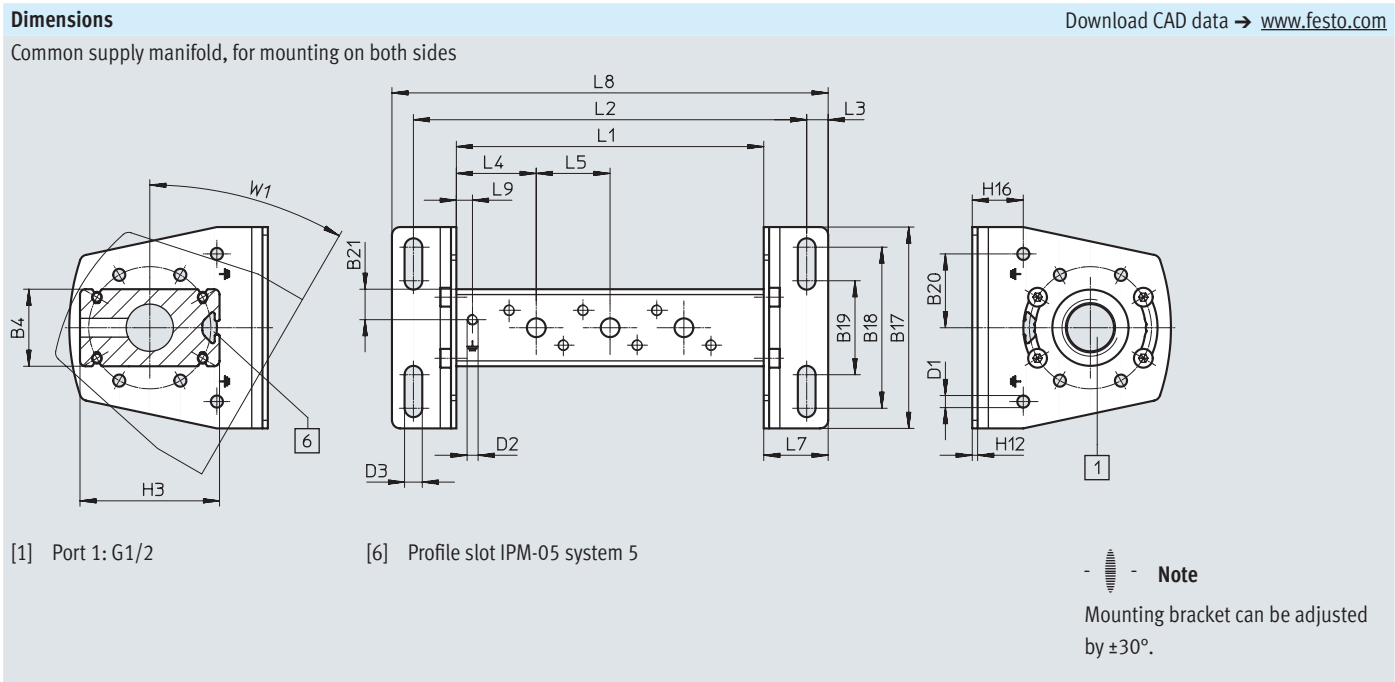
[1] Port 1, 3 and 5: G3/8

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	87	114.5	142	169.5	197	224.5	252	279.5	307
L2	75	102.5	130	157.5	185	212.5	240	267.5	295

Datasheet – Manifold block, size 25



Type	B4	B17	B18	B19	B20	B21	D1 Ø	D2	D3 Ø
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°

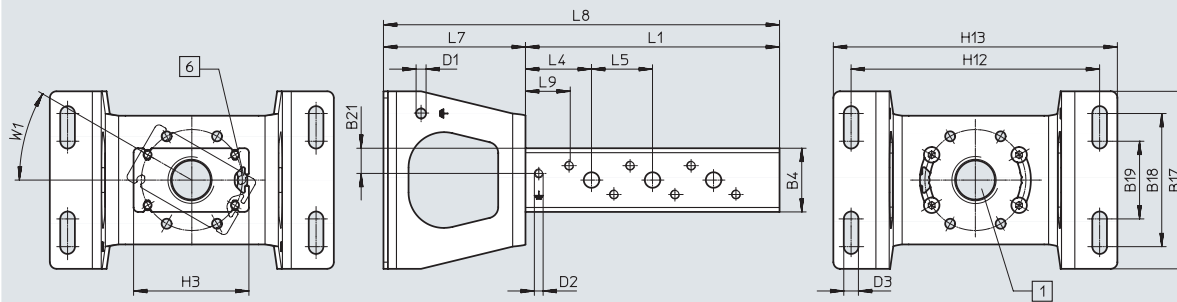
Valve positions	2	3	4	5	6	7	8	9	10
L1	87	114.5	142	169.5	197	224.5	252	279.5	307
L2	119	146.5	174	201.5	229	256.5	284	311.5	339
L8	135	162.5	190	217.5	245	272.5	300	327.5	355

Datasheet – Manifold block, size 25

Dimensions

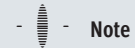
Download CAD data → www.festo.com

Common supply manifold, mounted on one side



[1] Port 1: G1/2

[6] Profile slot IPM-05 system 5

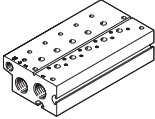
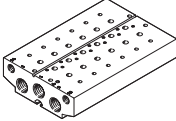
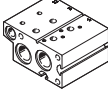
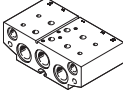
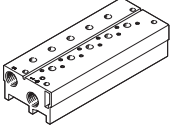
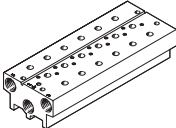
**Note**Mounting bracket can be adjusted by $\pm 30^\circ$.

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

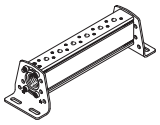
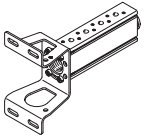
Type	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-25-G12-...-P53-E	52	128	112	29.8	27.5	64	6	30°

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

Ordering data – Manifold block, size 25

Ordering data – Manifold block				
	Description	Valve positions	Part no.	Type
Standard manifold block				
	For 3/2-way valves, including seals and screws for mounting valves	2	8026279	VABM-B10-25E-G12-2-P3
	 Note - Blanking plugs for sealing the supply ports (1, 3 and 14) on one side are included in the scope of delivery. - Screw set (part number 8026203) to be ordered together with solenoid valves VUVS-LK.	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-way and 5/3-way valves, including seals and screws for mounting valves	2
 Note - Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) on one side are included in the scope of delivery. - Screw set (part number 8026203) to be ordered together with solenoid valves VUVS-LK.	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, including seals and screws for mounting valves	2	8026316	VABM-B10-25EEE-G12-2-P3
	For 5/2-way and 5/3-way valves, including seals and screws for mounting valves	2	8026315	VABM-B10-25EEE-G12-2
Compact manifold block				
	For 3/2-way valves, including seals and screws for mounting valves	2	8026297	VABM-B10-25S-G38-2-P3
	 Note Blanking plugs for sealing the supply ports (1, 3 and 14) on one side are included in the scope of delivery.	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-way and 5/3-way valves, including seals and screws for mounting valves	2
 Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) on one side are included in the scope of delivery.	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

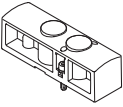
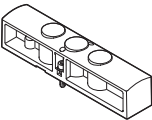
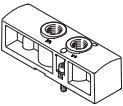
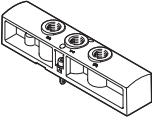
Ordering data – Manifold block, size 25

Ordering data	Description	Valve positions	Part no.	Type
Common supply manifold				
	For mounting on both sides, including seals and screws for mounting valves	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, including seals and screws for mounting valves	2	8026237	VABM-B10-25-G12-2-P53-E
		3	8026238	VABM-B10-25-G12-3-P53-E
		4	8026239	VABM-B10-25-G12-4-P53-E

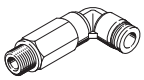
**Note**

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

Ordering data – Manifold block, size 25

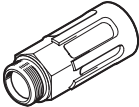
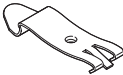
Ordering data	Description	Weight [g]	Part no.	Type
Cover plate				
	For valve position on manifold block for 3/2-way valves	84	8026210	VABB-B10-25-E-P3
	For valve position on manifold block for 5/2-way, 5/3-way valves	117	8026209	VABB-B10-25-E
	For valve position on common supply manifold	28	8026208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

Ordering data – Manifold block, size 25

Ordering data	Description	Part no.	Type	PU ¹⁾
Push-in fitting with external hex				
	Connecting thread G3/8 for tubing O.D.	16 mm	186347 QS-G3/8-16	1
	Connecting thread G1/2 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				
	Connecting thread M5 for tubing O.D.	4 mm	153315 QSM-M5-4-I	10
	Connecting thread G1/8 for tubing O.D.	6 mm	186107 QS-G1/8-6-I	10
			133009 QS-G1/8-6-I-100	100
	Connecting thread G1/4 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
	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
Angled push-in fitting, with external hex				
	Connecting thread G1/4 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 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
		16 mm	186348 QSL-G3/8-16	1
	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 G1/4 for tubing O.D.	6 mm	186129 QSLL-G1/4-6	10
		8 mm	186131 QSLL-G1/4-8	10
		10 mm	186133 QSLL-G1/4-10	10

1) Packaging unit

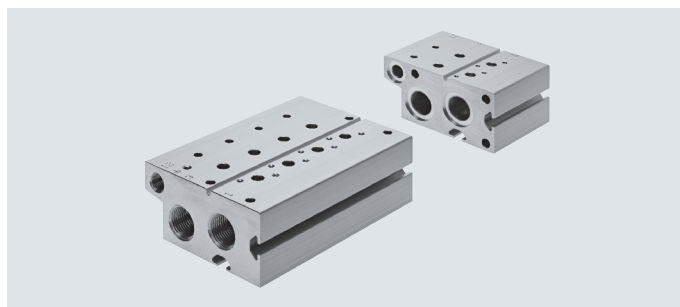
Ordering data – Manifold block, size 25

Ordering data		Description	Part no.	Type	PU ¹⁾
Silencer					
	With connecting thread G, polymer version	G1/4	2316	U-1/4	1
			534223	U-1/4-20	20
		G3/8	534224	U-3/8-20	20
	With connecting thread G, metal version	G3/8	6843	U-3/8-B	1
		G1/2	6844	U-1/2-B	1
	With connecting thread G, sintered version, long	G3/8	1205862	AMTE-M-LH-G38	10
		G1/2	1205863	AMTE-M-LH-G12	10
Blanking plug					
	With connecting thread	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
DIN rail mounting					
	For mounting the valve manifold assembly on standard DIN rail TH 35-7.5 or TH 35-15, to EN 60715		2636436	VAME-T-M5	2

1) Packaging unit

Datasheet – 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		Common supply manifold on both sides on one side	
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	–	–	–	–
Corrosion resistance class CRC ¹⁾	2							

1) More information www.festo.com/x/topic/crc

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
Common supply manifold for mounting on both sides									
VABM-B10-30-G34-...-P53	818	977	1135	1293	1452	1610	1768	1927	2085
Common supply manifold for mounting on one side									
VABM-B10-30-G34-2-P53-E	852	1011	1169	–	–	–	–	–	–

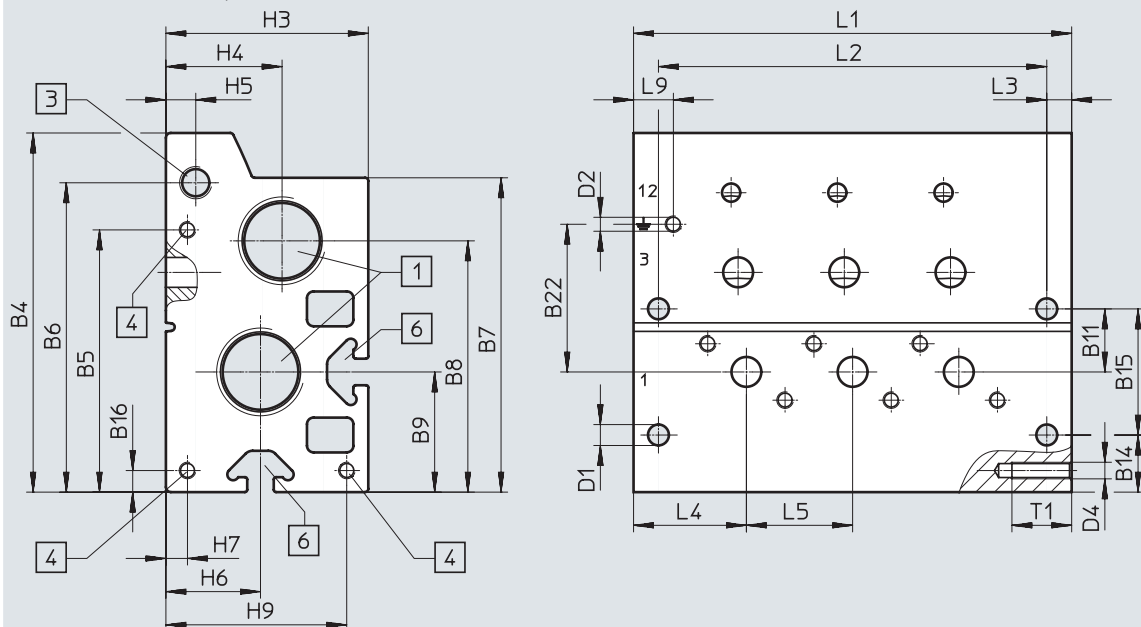
Datasheet – Manifold block, size 30

Materials

Manifold rail	Wrought aluminium alloy
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

DimensionsDownload CAD data → www.festo.com

Manifold block for 3/2-way valves, standard



[1] Port 1 and 3: G3/4

[3] Port 12: G1/8

[4] Thread M5x18 for extension
module

[6] Profile slot IPM-08 system 8

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

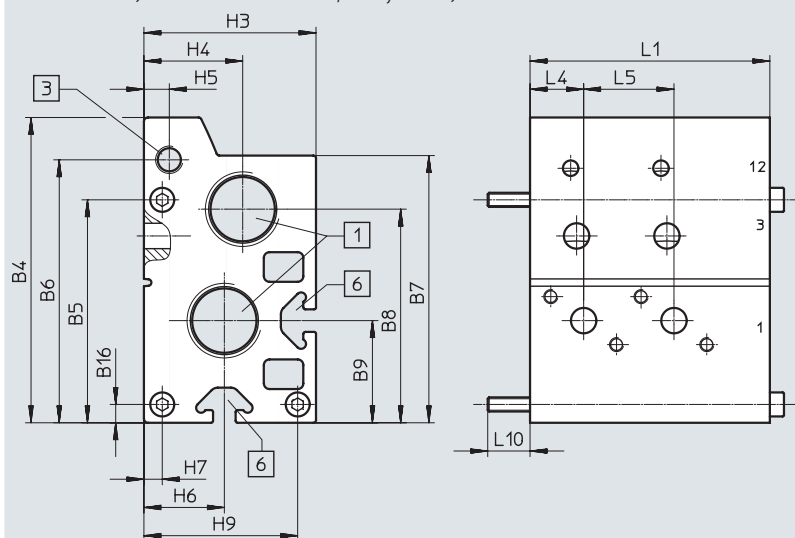
Valve positions	2	3	4	5	6	7	8	9	10
L1	100	132	164	196	228	260	292	324	356
L2	85	117	149	181	213	245	277	309	341

Datasheet – Manifold block, size 30

Dimensions

Download CAD data → www.festo.com

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



[1] Port 1 and 3: G3/4

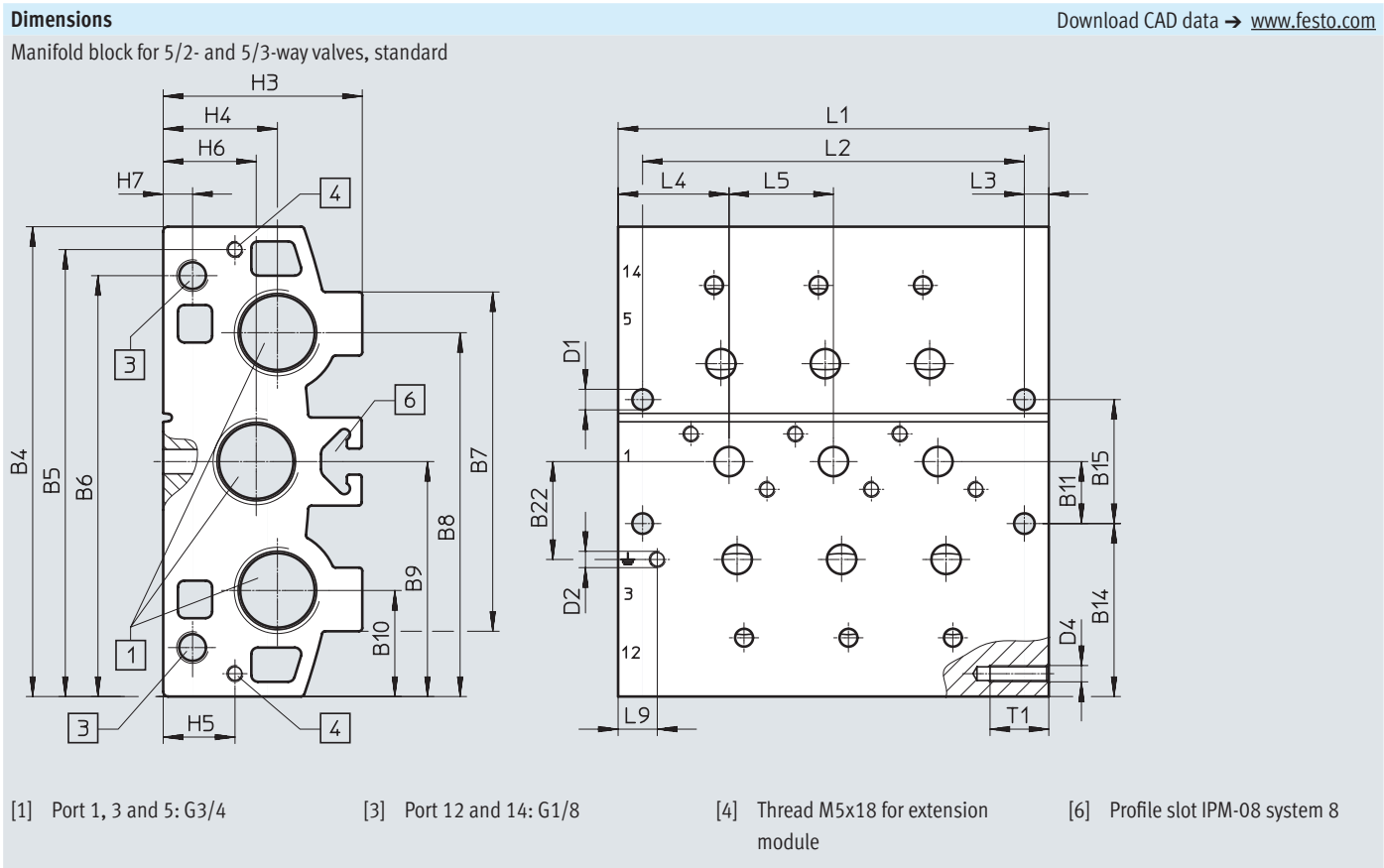
[3] Port 12: G1/8

[6] Profile slot IPM-08 system 8

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

Datasheet – Manifold block, size 30



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

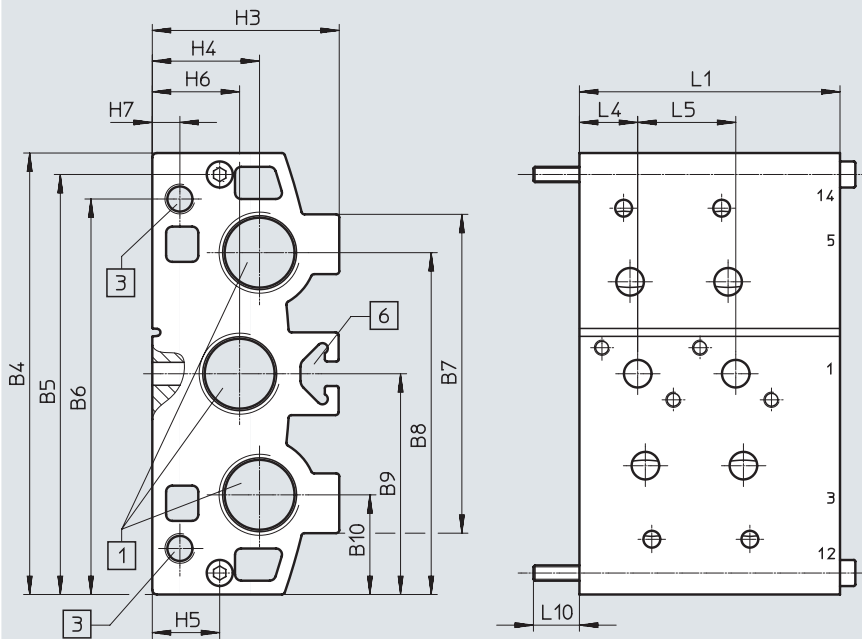
Valve positions	2	3	4	5	6	7	8	9	10
L1	100	132	164	196	228	260	292	324	356
L2	85	117	149	181	213	245	277	309	341

Datasheet – Manifold block, size 30

Dimensions

Download CAD data → www.festo.com

Extension module for manifold block for 5/2- and 5/3-way valves, standard



[1] Port 1, 3 and 5: G3/4

[3] Port 12 and 14: G1/8

[6] Profile slot IPM-08 system 8

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

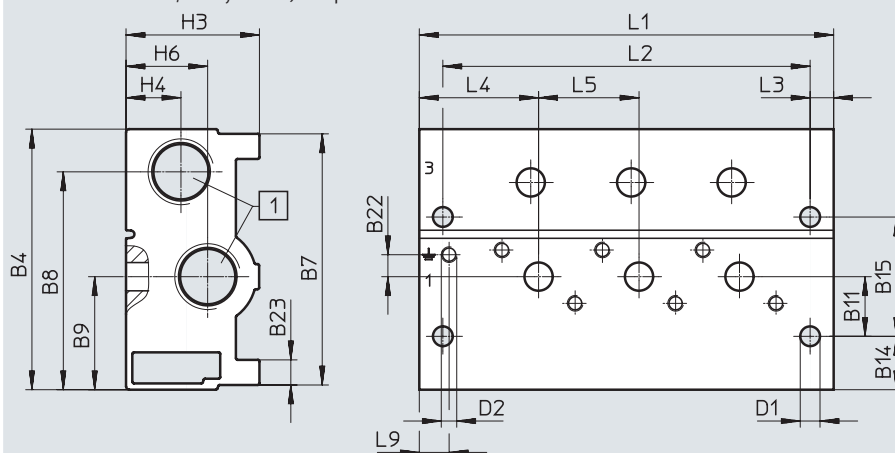
Type	H4	H5	H6	H7	L1	L4	L5	L10
VABM-B10-30EEE-G34-2	35	22	28.5	9	85	19	32	15

Datasheet – Manifold block, size 30

Dimensions

Download CAD data → www.festo.com

Manifold block for 3/2-way valves, compact



[1] Port 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

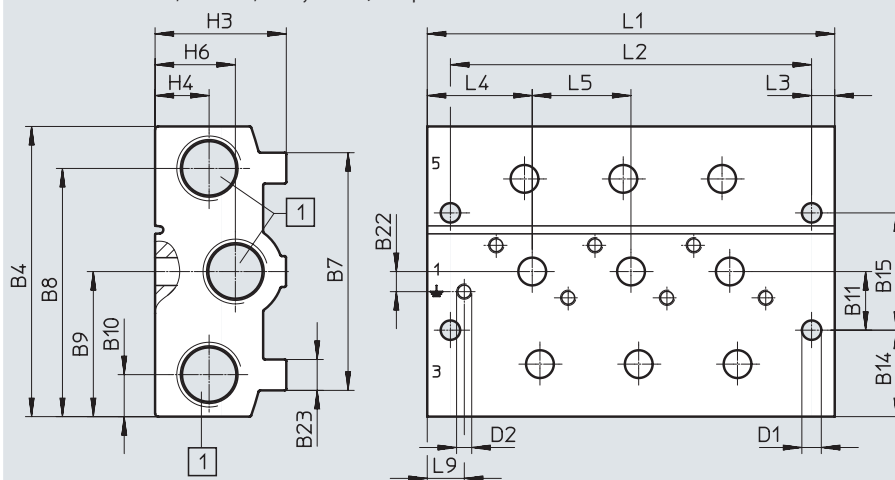
Type	D1 ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-30S-G12-...-P3	6.3	M5x11	42.5	17.5	26	7.5	38	32	12

Valve positions	2	3	4	5	6	7	8	9	10
L1	100	132	164	196	228	260	292	324	356
L2	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] Port 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

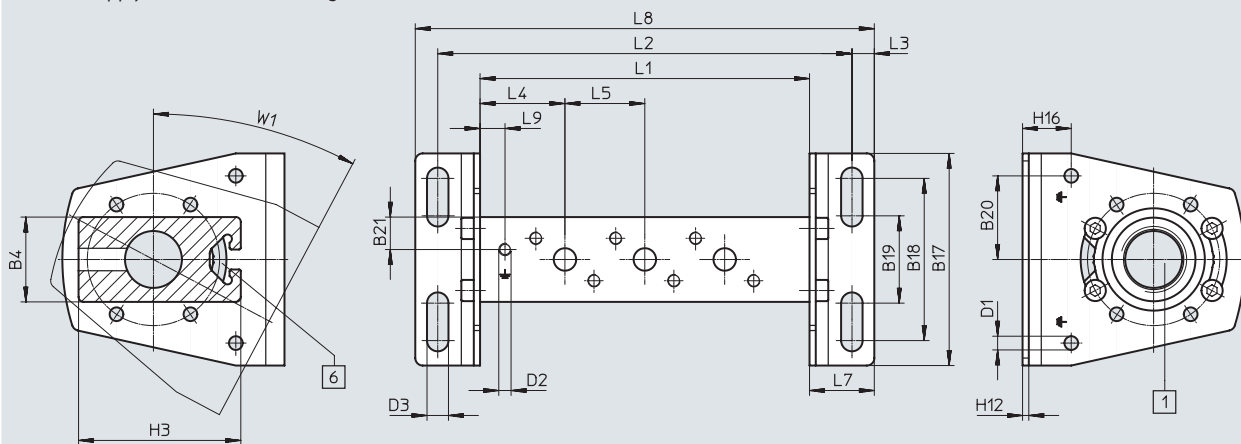
Valve positions	2	3	4	5	6	7	8	9	10
L1	100	132	164	196	228	260	292	324	356
L2	85	117	149	181	213	245	277	309	341

Datasheet – Manifold block, size 30

Dimensions

Download CAD data → www.festo.com

Common supply manifold, for mounting on both sides



[1] Port 1: G3/4

[6] Profile slot IPM-08 system 8



Note

Mounting bracket can be adjusted by $\pm 30^\circ$.

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°

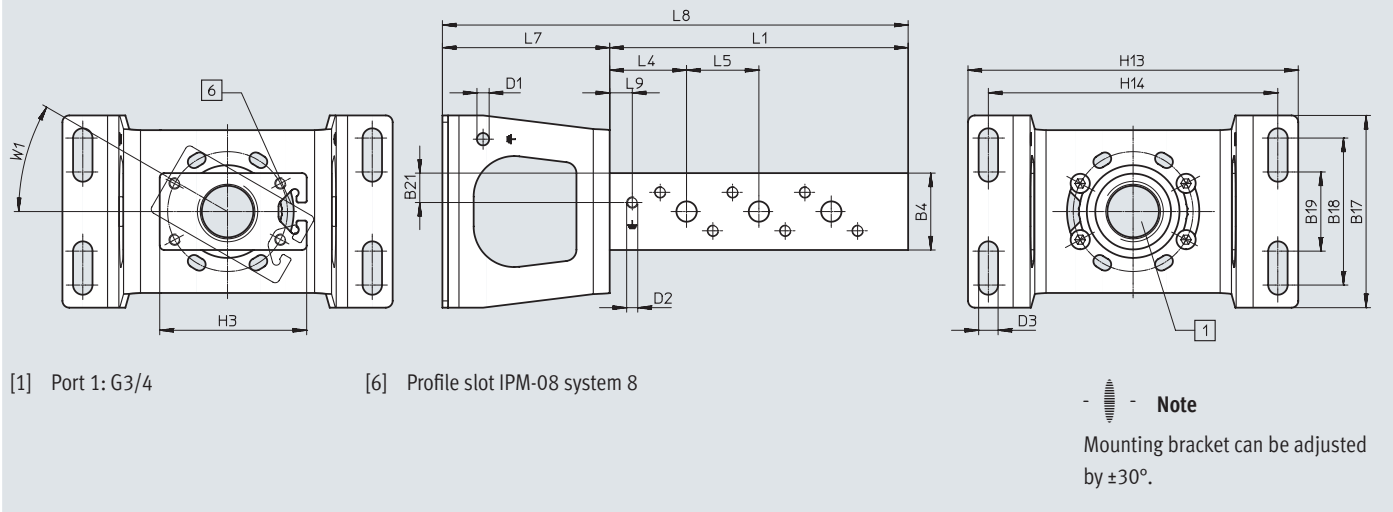
Valve positions	2	3	4	5	6	7	8	9	10
L1	100	132	164	196	228	260	292	324	356
L2	134	166	198	230	262	294	326	358	390
L8	152	184	216	248	280	312	344	376	408

Datasheet – Manifold block, size 30

Dimensions

Download CAD data → www.festo.com

Common supply manifold, mounted on one side

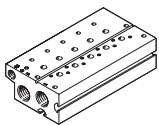
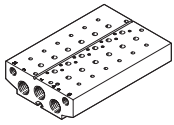
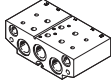
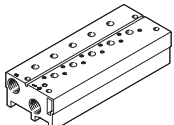
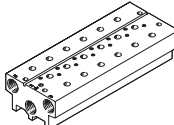


Type	B4	B17	B18	B19	B21	D1 Ø	D2	D3Ø
VABM-B10-30-G34-....-P53-E	34	85	65	35	13	5.5	M5x11	8.6

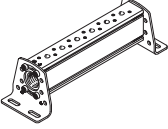
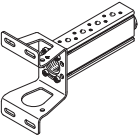
Type	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-30-G34-....-P53-E	65	146	128	34	32	74	10	30°

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

Ordering data – Manifold block, size 30

Ordering data – Manifold block				
	Description	Valve positions	Part no.	Type
Standard manifold block				
	For 3/2-way valves, including seals and screws for mounting valves	2	8026395	VABM-B10-30E-G34-2-P3
	 Note • Blanking plugs for sealing the supply ports (1, 3 and 14) on one side are included in the scope of delivery. • Screw set (part number 8026203) to be ordered together with solenoid valves VUVS-LK.	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-way and 5/3-way valves, including seals and screws for mounting valves	2
 Note • Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) on one side are included in the scope of delivery. • Screw set (part number 8026203) to be ordered together with solenoid valves VUVS-LK.	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, including seals and screws for mounting valves	2	8026432	VABM-B10-30EEE-G34-2-P3
	For 5/2-way and 5/3-way valves, including seals and screws for mounting valves	2	8026431	VABM-B10-30EEE-G34-2
Compact manifold block				
	For 3/2-way valves, including seals and screws for mounting valves	2	8026413	VABM-B10-30S-G12-2-P3
	 Note Blanking plugs for sealing the supply ports (1, 3 and 14) on one side are included in the scope of delivery.	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-way and 5/3-way valves, including seals and screws for mounting valves	2
 Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) on one side are included in the scope of delivery.	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

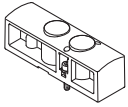
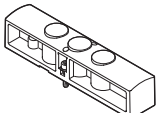
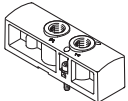
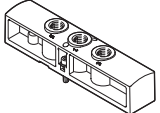
Ordering data – Manifold block, size 30

Ordering data	Description	Valve positions	Part no.	Type
Common supply manifold				
	For mounting on both sides, including seals and screws for mounting valves	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, including seals and screws for mounting valves	2	8026356	VABM-B10-30-G34-2-P53-E
		3	8026357	VABM-B10-30-G34-3-P53-E
		4	8026358	VABM-B10-30-G34-4-P53-E

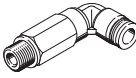
**Note**

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

Ordering data – Manifold block, size 30

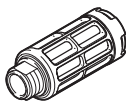
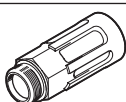
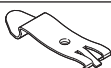
Ordering data	Description	Weight [g]	Part no.	Type
Cover plate				
	For valve position on manifold block for 3/2-way valves	128	8026336	VABB-B10-30-E-P3
	For valve position on manifold block for 5/2-way, 5/3-way valves	179	8026335	VABB-B10-30-E
	For valve position on common supply manifold	43	8026334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

Ordering data – Manifold block, size 30

Ordering data		Description	Part no.	Type	PJ 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 O.D. Aluminium version	13 mm	3612	N-3/4-P-13	1
		19 mm	3613	N-3/4-P-19	1
	Connecting thread G3/4 for tubing O.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

Ordering data – Manifold block, size 30

Ordering data		Description	Part no.	Type	PU ¹⁾
Silencer					
	With connecting thread G, polymer version	G3/8	534224	U-3/8-20	20
	With connecting thread G, metal version	G1/2	6844	U-1/2-B	1
		G3/4	6845	U-3/4-B	1
		G3/8	6843	U-3/8-B	1
	With connecting thread G, sintered version, long	G1/2	1205863	AMTE-M-LH-G12	10
		G3/4	1205864	AMTE-M-LH-G34	10
Blanking plug					
	With connecting thread	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
DIN rail mounting					
	For size 30, for mounting on standard TH 35-7.5 or TH 35-15 DIN rails to EN 60715		3488412	VAME-T-M6	2

1) Packaging unit