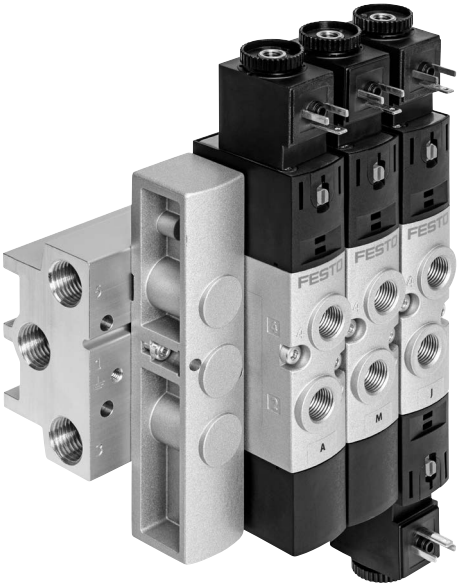
Solenoid valves VUVS/valve manifold assembly VTUS

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
This product and all its product options can be ordered using the configurator.

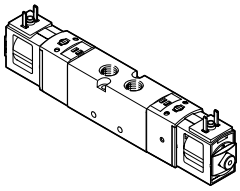
The configurator can be found under Products on the DVD or at
→ **www.festo.com/catalogue/...**

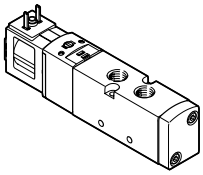
Part no.	Type
576516	VUVS-20
8022014	VUVS-25
8022017	VUVS-30
577304	VTUS-20
8022016	VTUS-25
8022019	VTUS-30

Key features

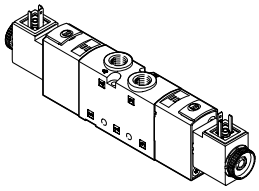
Solenoid valves VUVS

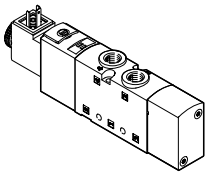
In-line valve VUVS-LK as individual valve (piston spool valve)



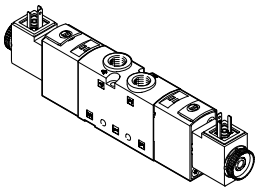


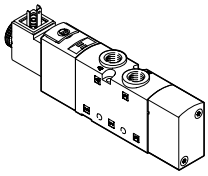
In-line valve VUVS-LT as individual valve (poppet valve)





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

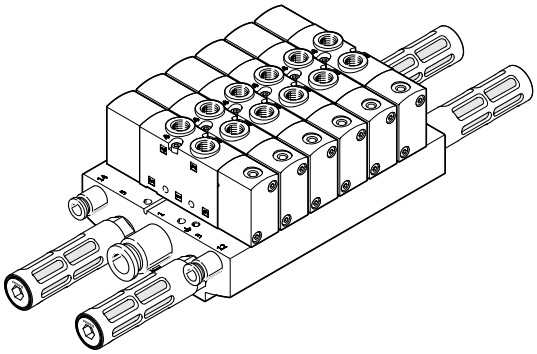




In-line valves are designed to be used without pneumatic links. All pneumatic connections are on the valve and can be equipped with fittings/tubing.

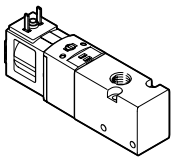
By using a special seal set, the in-line valves can also be mounted on a manifold rail (pneumatic links) as semi in-line valves.

VTUS valve manifold assembly



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)

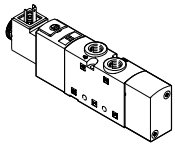
Valve functions

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

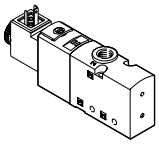
Key features

Equipment options			
VUVS-LT		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: • Internal/external pilot air supply • Mechanical spring return • Flow direction not reversible 3/2-way valve, normally closed, single solenoid: • Internal/external pilot air supply • Mechanical spring return • Flow direction not reversible 2x 3/2-way valve, normally open, single solenoid: • Internal/external pilot air supply • Mechanical spring return • Flow direction not reversible	2x 3/2-way valve, normally closed, single solenoid: • Internal/external pilot air supply • Mechanical spring return • Flow direction not reversible 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 5/2-way valve, single solenoid • 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
- Creation of 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

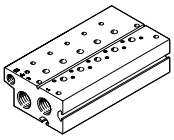
Valve positions covered with cover plates can be replaced with valves at a later date. The dimensions, mounting points and existing pneumatic installation remain unchanged.

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

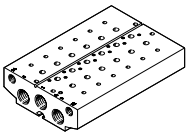
Standard manifold block

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

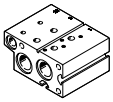
For 5/2-way and 5/3-way valves



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

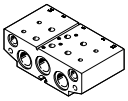
Manifold block extension module, for standard manifold block

For 3/2-way valves



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

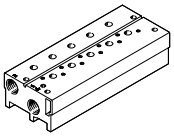
For 5/2-way and 5/3-way valves



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

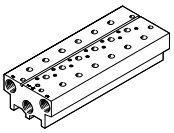
Compact manifold block

For 3/2-way valves



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

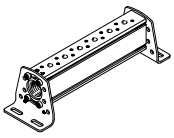
For 5/2-way and 5/3-way valves



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

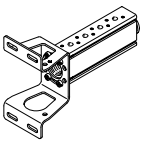
Common supply manifold

Mounting on both sides



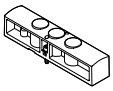
- Connection
  Size 20: G3/8
  Size 25: G1/2
  Size 30: G3/4
- Maximum 10 valve positions

Mounting on one side



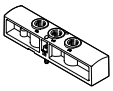
- Connection
  Size 20: G3/8
  Size 25: G1/2
  Size 30: G3/4
- Maximum 4 valve positions

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

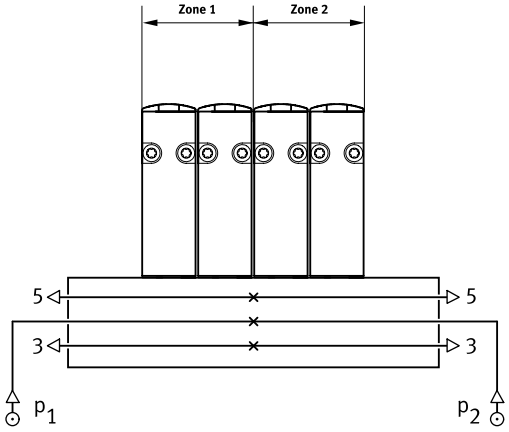
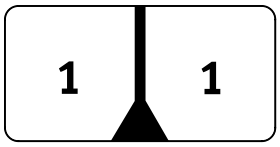
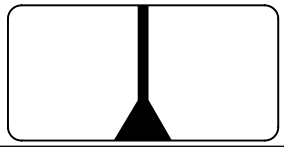
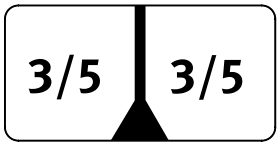
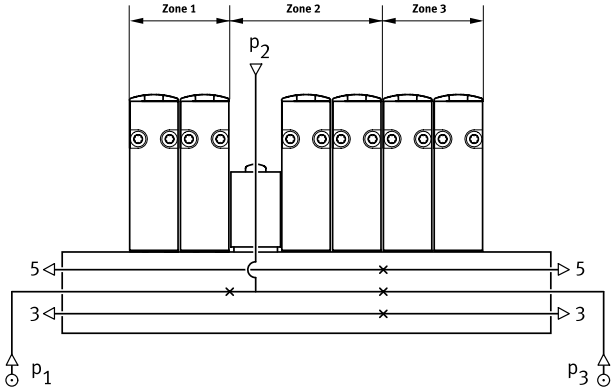
Creating pressure zones and separating exhaust air

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

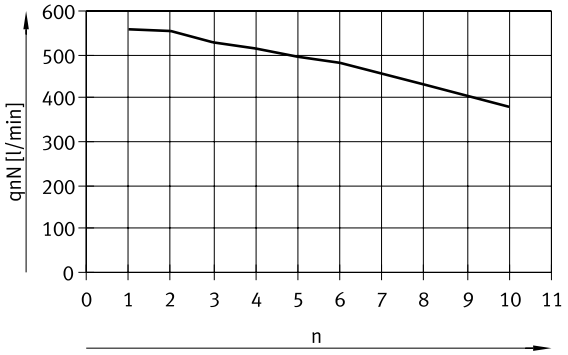
Note
- Use a separator if the exhaust air pressures are high
- Use at least one supply plate/air supply for each pressure zone
- Pressure zone separation is not possible in ducts 12 and 14 (pilot air supply)

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

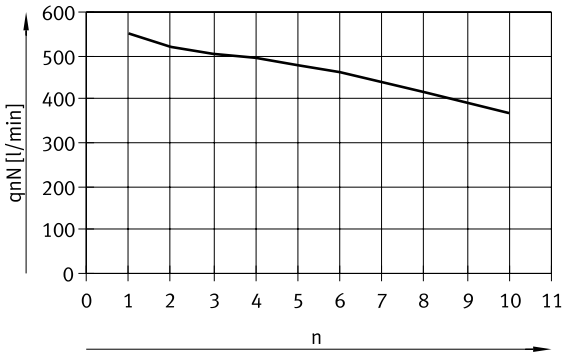
Size 20 – Standard nominal flow rate qnN, with several valves n switched in parallel

For 3/2-way valves



Standard nominal flow rate per valve on manifold rail Compact

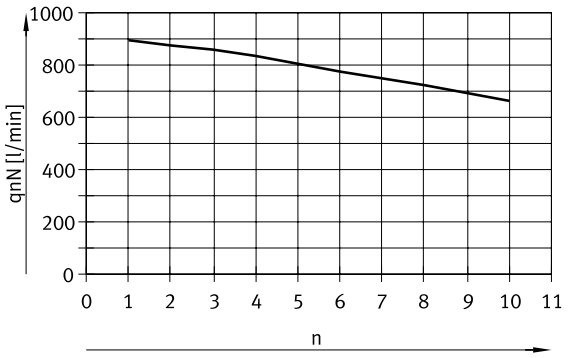
For 5/2-way valves



Standard nominal flow rate per valve on manifold rail Compact

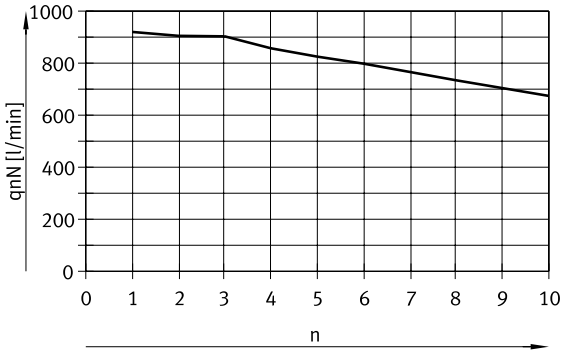
Size 25 – Standard nominal flow rate qnN, with several valves n switched in parallel

For 3/2-way valves



Standard nominal flow rate per valve on manifold rail Compact

For 5/2-way valves

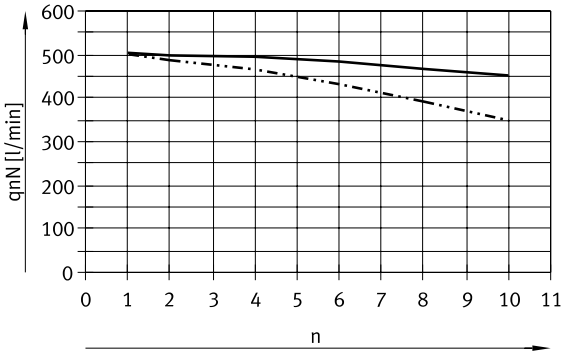


Standard nominal flow rate per valve on manifold rail Compact

Key features – Pneumatic components, VUVS-LT

Size 20 – Standard nominal flow rate qnN, with several valves n switched in parallel

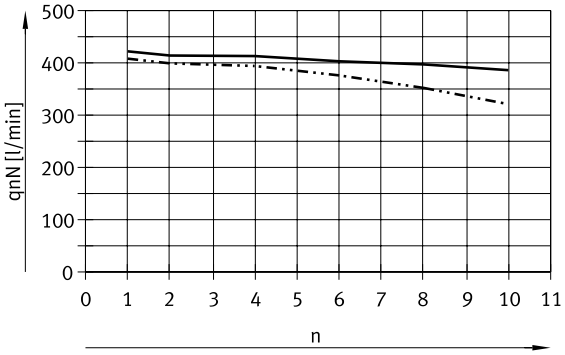
For 3/2-way valves



Standard nominal flow rate per valve on manifold rail Standard

Standard nominal flow rate per valve on manifold rail Compact

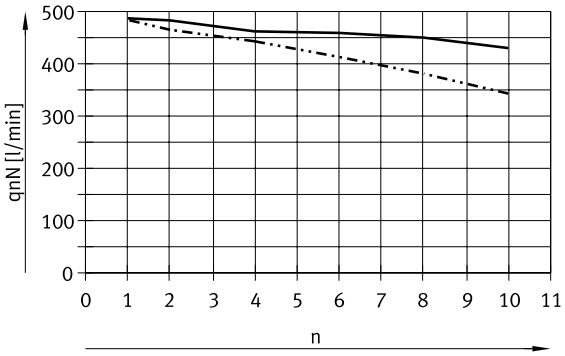
For 5/2-way valves, flow direction 1➔ 2



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 1a4



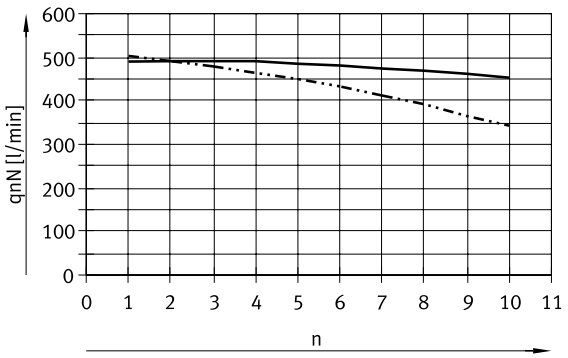
Standard nominal flow rate per valve on manifold rail Standard

Standard nominal flow rate per valve on manifold rail Compact

Key features – Pneumatic components, VUVS-LT

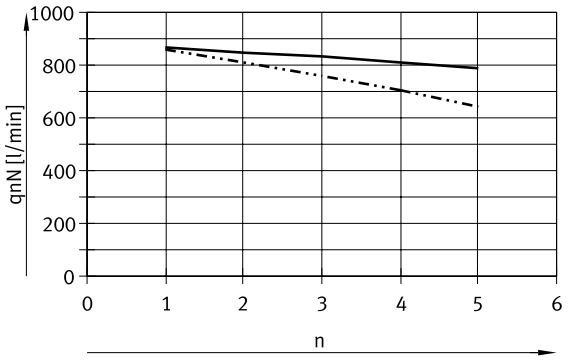
Size 20 – Standard nominal flow rate qnN, with several valves n switched in parallel

For 2x 3/2-way valves
One valve function per valve position in open switching position



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

For 2x 3/2-way valves
Both valve functions per valve position simultaneously in open switching position

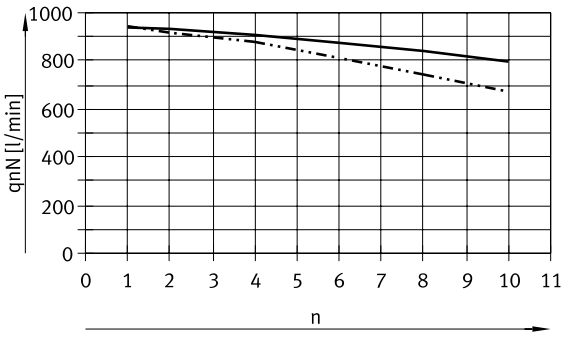


Standard nominal flow rate per valve on manifold rail Standard
Standard nominal flow rate per valve on manifold rail Compact

Key features – Pneumatic components, VUVS-LT

Size 25 – Standard nominal flow rate qnN, with several valves n switched in parallel

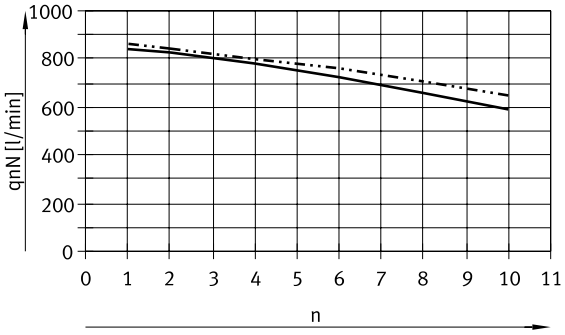
For 3/2-way valves



Standard nominal flow rate per valve on manifold rail Standard

Standard nominal flow rate per valve on manifold rail Compact

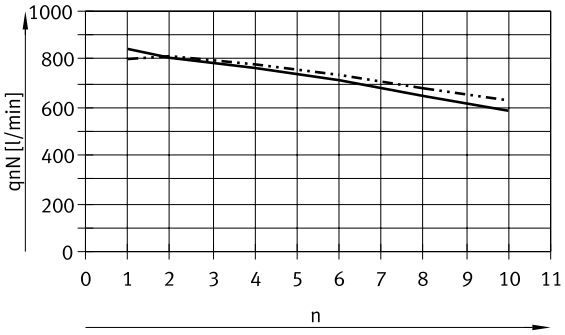
For 5/2-way valves, flow direction 1➔ 2



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 1a4



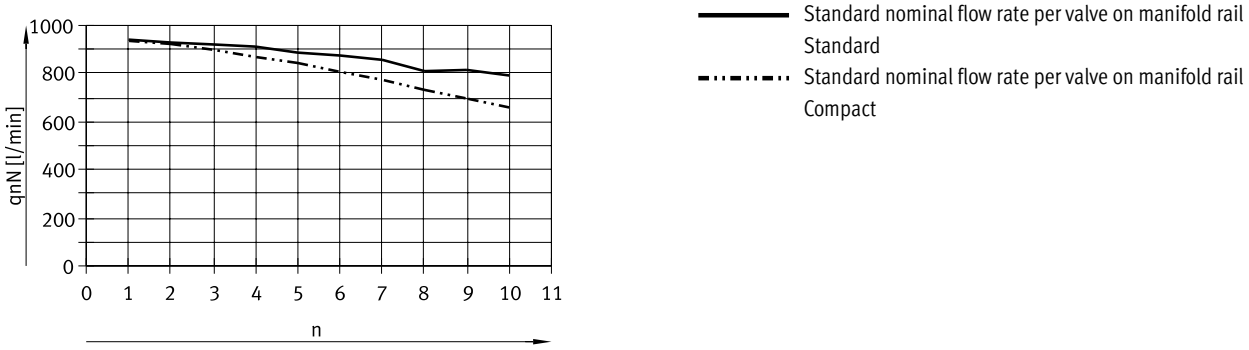
Standard nominal flow rate per valve on manifold rail Standard

Standard nominal flow rate per valve on manifold rail Compact

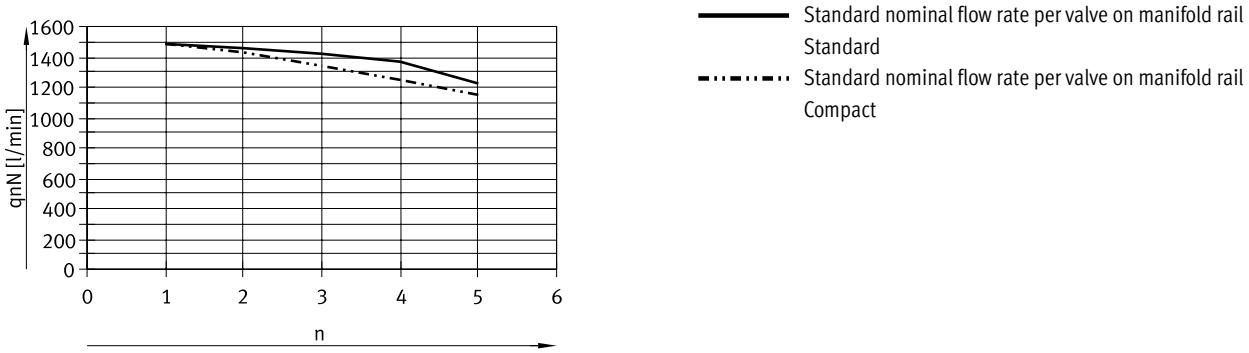
Key features – Pneumatic components, VUVS-LT

Size 25 – Standard nominal flow rate qnN, with several valves n switched in parallel

For 2x 3/2-way valves
One valve function per valve position in open switching position



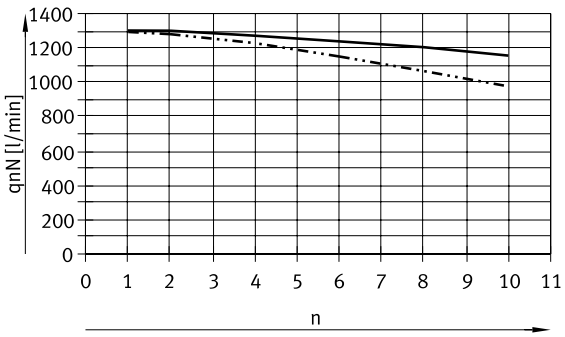
For 2x 3/2-way valves
Both valve functions per valve position simultaneously in open switching position



Key features – Pneumatic components, VUVS-LT

Size 30 – Standard nominal flow rate qnN, with several valves n switched in parallel

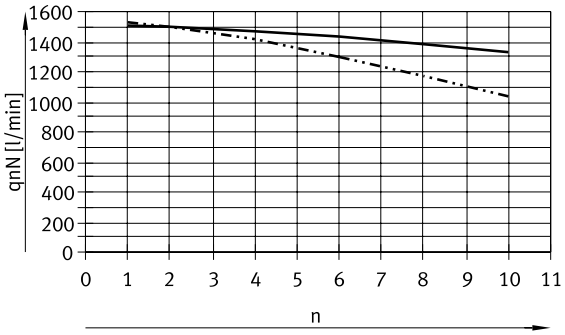
For 3/2-way valves



Standard nominal flow rate per valve on manifold rail Standard

Standard nominal flow rate per valve on manifold rail Compact

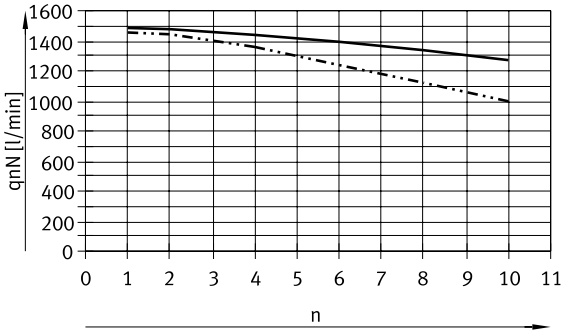
For 5/2-way valves, flow direction 1➔ 2



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 1a4



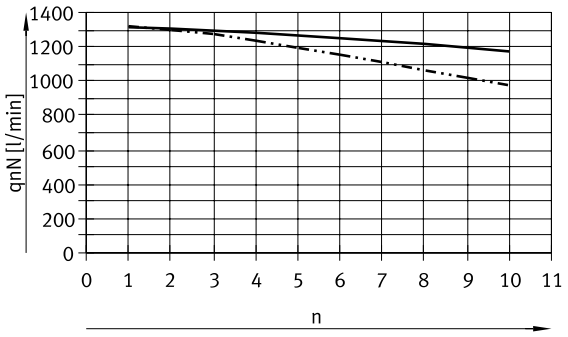
Standard nominal flow rate per valve on manifold rail Standard

Standard nominal flow rate per valve on manifold rail Compact

Key features – Pneumatic components, VUVS-LT

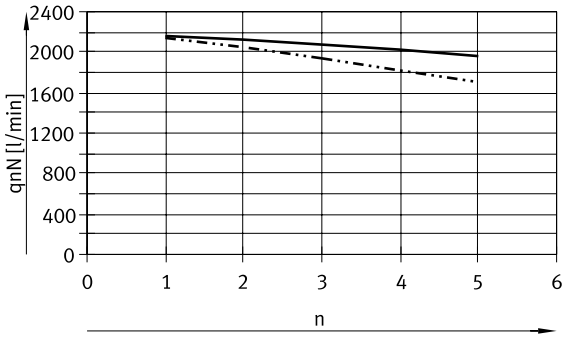
Size 30 – Standard nominal flow rate qnN, with several valves n switched in parallel

For 2x 3/2-way valves
One valve function per valve position in open switching position



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

For 2x 3/2-way valves
Both valve functions per valve position simultaneously in open switching position

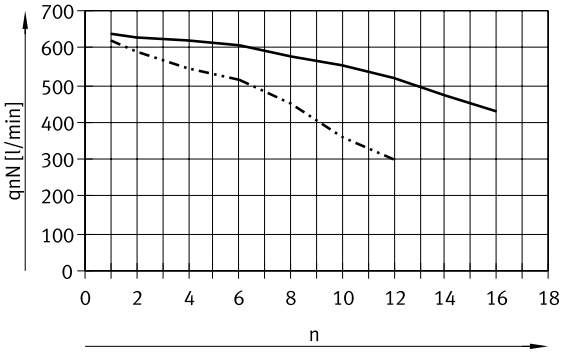


Standard nominal flow rate per valve on manifold rail Standard
Standard nominal flow rate per valve on manifold rail Compact

Key features – Pneumatic components, VUVS-L

Size 20 – Standard nominal flow rate qnN, with several valves n switched in parallel

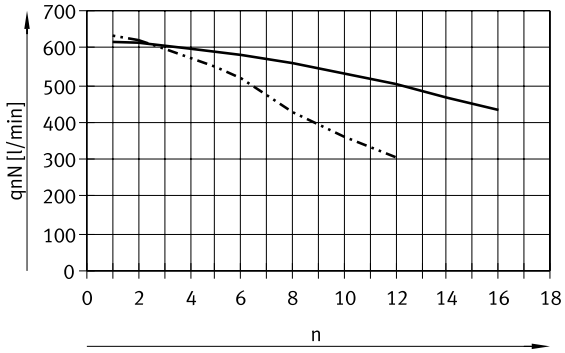
For 3/2-way valves



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

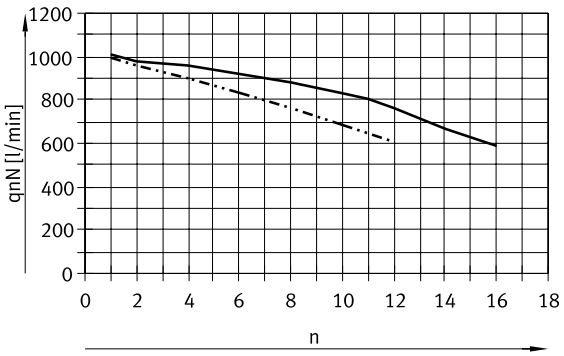


Standard nominal flow rate per valve on manifold rail Standard

Standard nominal flow rate per valve on manifold rail Compact

Size 25 – Standard nominal flow rate qnN, with several valves n switched in parallel

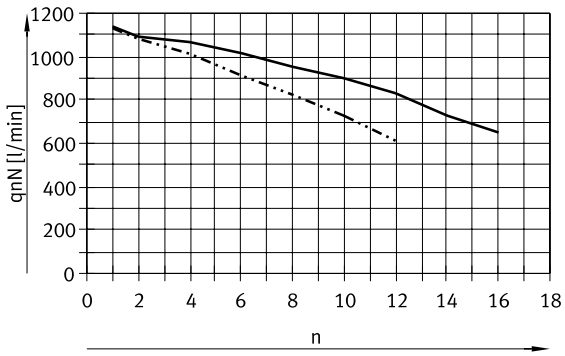
For 3/2-way valves



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



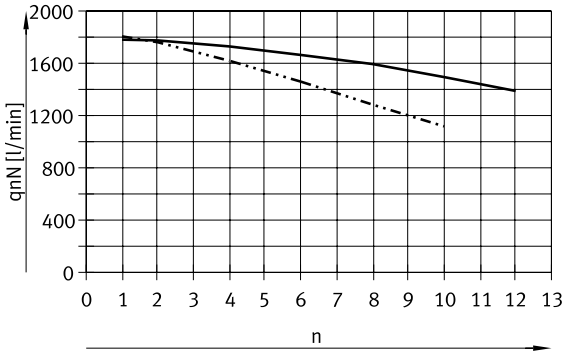
Standard nominal flow rate per valve on manifold rail Standard

Standard nominal flow rate per valve on manifold rail Compact

Key features – Pneumatic components, VUVS-L

Size 30 – Standard nominal flow rate qnN, with several valves n switched in parallel

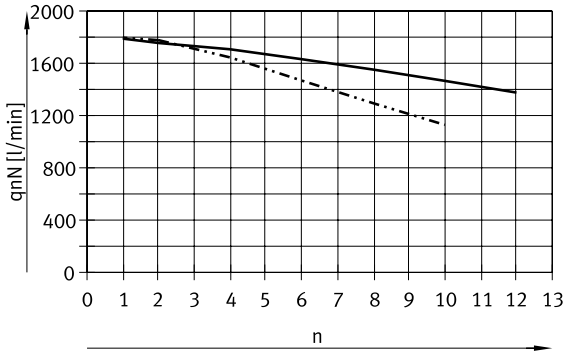
For 3/2-way valves



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



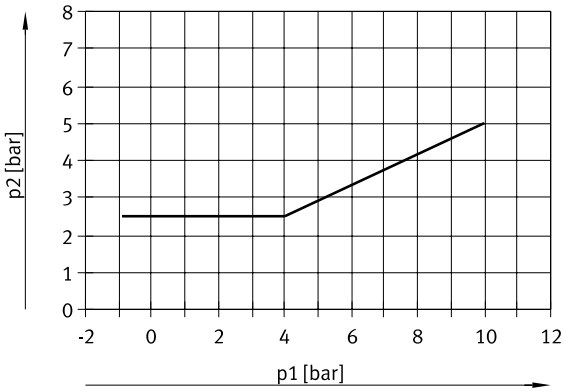
Standard nominal flow rate per valve on manifold rail Standard

Standard nominal flow rate per valve on manifold rail Compact

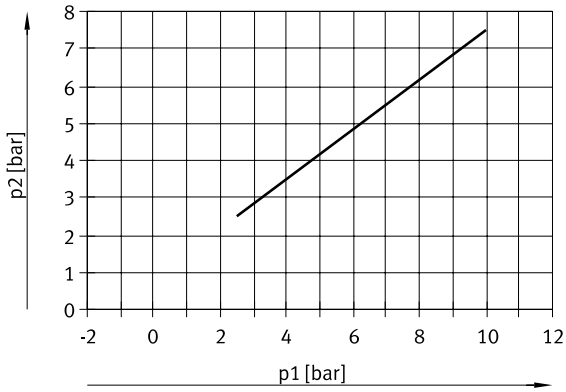
Key features – Pneumatic components, VUVS-LT

Size 20 – Pilot pressure p2 as a function of working pressure p1 with external pilot air supply

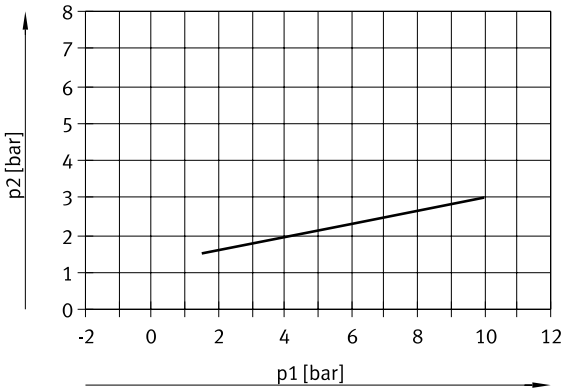
For 3/2-way valves



For 5/2-way valves, single solenoid



For 5/2-way valves, double solenoid

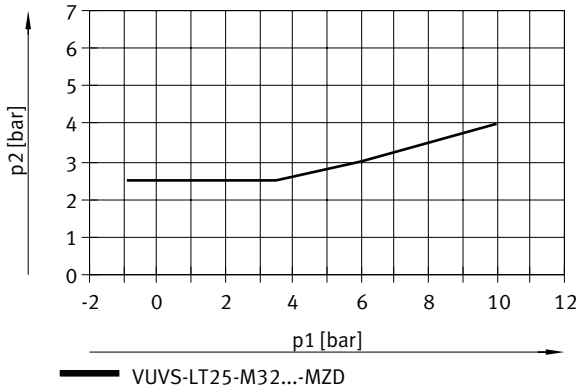


Key features – Pneumatic components, VUVS-LT

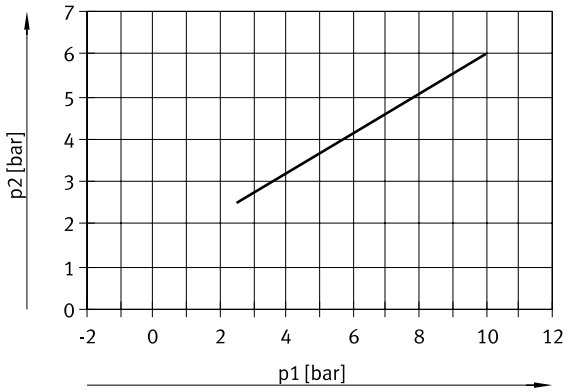
Size 25 – Pilot pressure p2 as a function of working pressure p1 with external pilot air supply

For 3/2-way valves

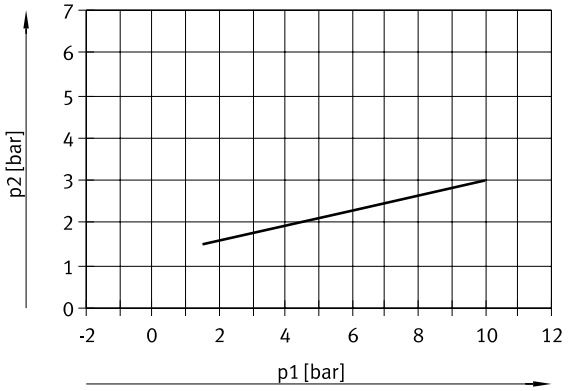
VUVS-LT25-M32...-MZD



For 5/2-way valves, single solenoid



For 5/2-way valves, double solenoid

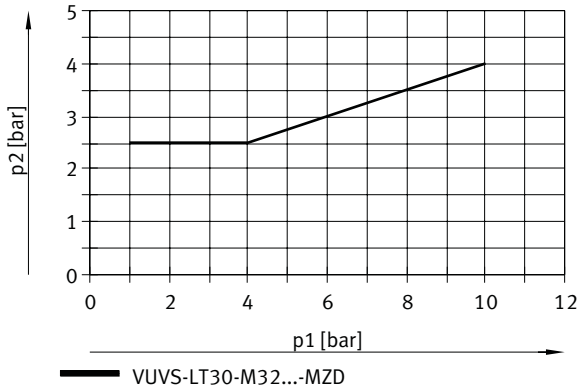


Key features – Pneumatic components, VUVS-LT

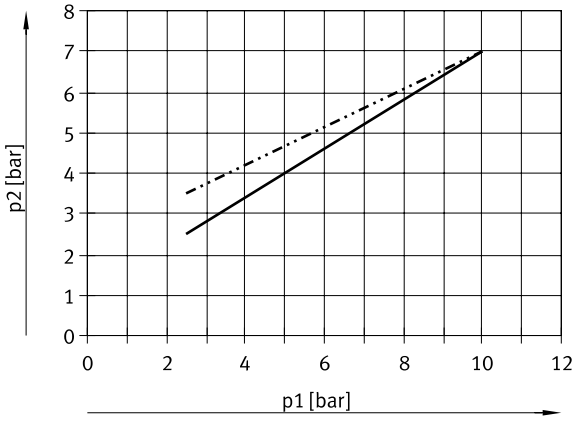
Size 30 – Pilot pressure p2 as a function of working pressure p1 with external pilot air supply

For 3/2-way valves

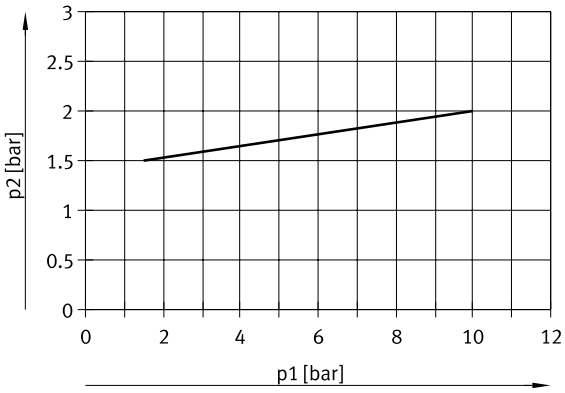
VUVS-LT30-M32...-MZD



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

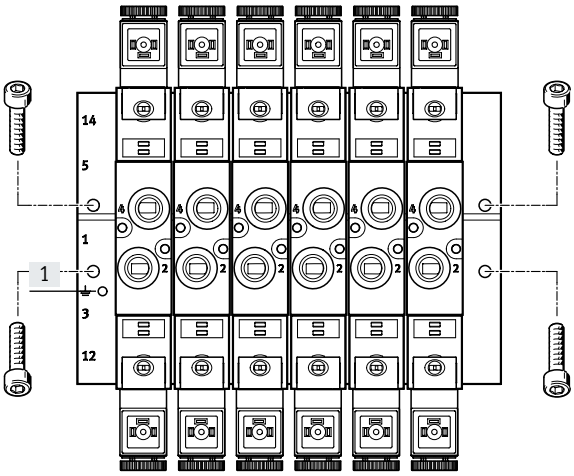
Mounting – Valve manifold assembly VTUS

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.

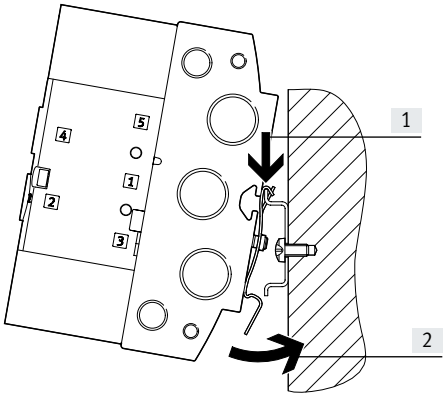
Wall mounting



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).

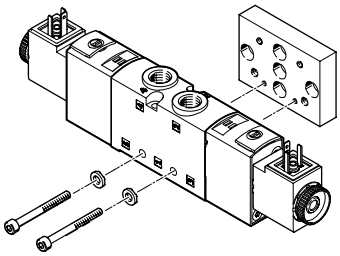
Note

- 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 – Individual valve VUVS

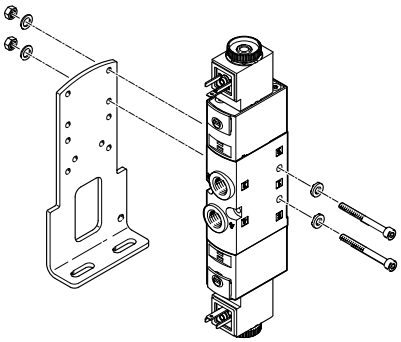
Wall mounting



For mounting individual valves on a flat surface, e.g. aluminium profile systems.
The solenoid valves are provided with two through-holes for attaching to the wall mounting VAME-B10-20-W.

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

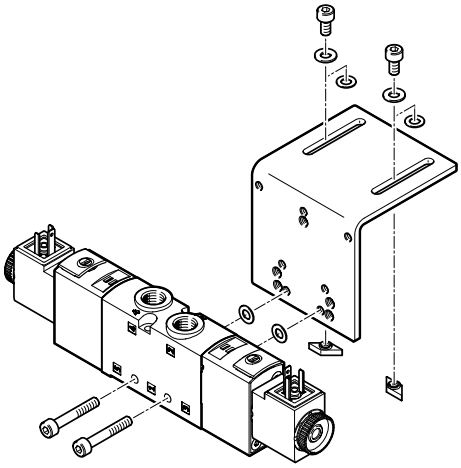
Foot mounting



For mounting individual valves on a flat surface, e.g. aluminium profile systems.
The solenoid valves are provided with two through-holes for attaching to the foot mounting VAME-B10-...-A.

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

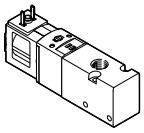
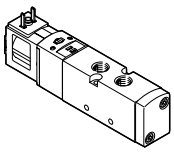
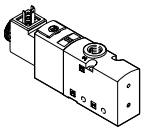
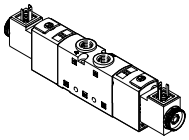
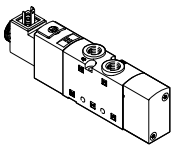
Cylinder mounting



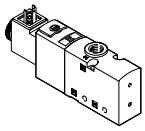
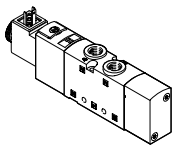
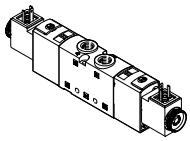
For mounting individual valves directly on a drive.
The solenoid valves are provided with two through-holes for attaching to the cylinder mounting DAVM-MW-V1...-V.
Mounting is only possible on the side on which the pneumatic connections are located.

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

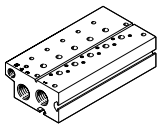
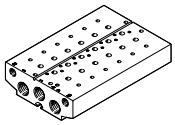
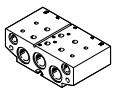
Product range overview

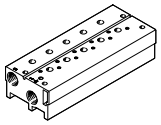
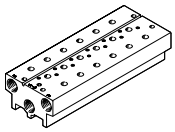
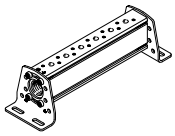
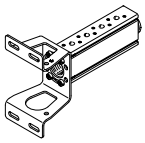
Valve	Size	Working port	Order code for valves and flow rate [l/min]										→ Page/ Internet
			M32C	M32U	T32C	T32U	T32H	M52	B52	P53C	P53U	P53E	
3/2-way valve VUVS-LK													
	20	G1/8	■ 550	–	–	–	–	–	–	–	–	–	58
	25	G1/4	■ 1000	–	–	–	–	–	–	–	–	–	68
	30	G3/8	■ 1600	–	–	–	–	–	–	–	–	–	78
5/2-way valve 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

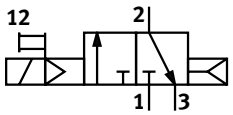
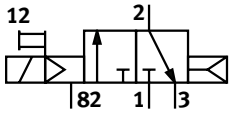
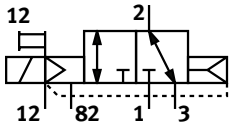
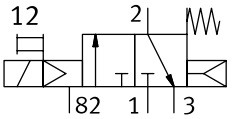
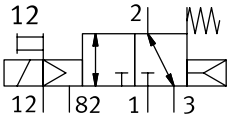
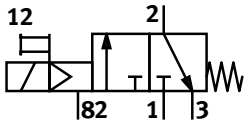
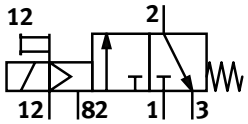
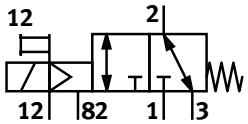
Valve	Size	Working port	Order code for valves and flow rate [l/min]										→ Page/ Internet
			M32C	M32U	T32C	T32U	T32H	M52	B52	P53C	P53U	P53E	
3/2-way valve VUVS-L													
	20	G1/8	■ 700	■ 700	–	–	–	–	–	–	–	–	132
	25	G1/4	■ 1000	■ 1000	–	–	–	–	–	–	–	–	147
	30	G3/8	■ 2300	■ 2300	–	–	–	–	–	–	–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

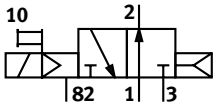
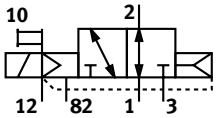
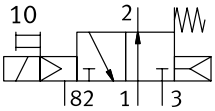
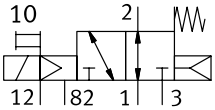
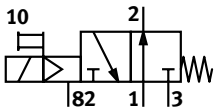
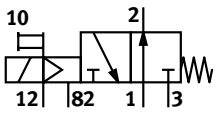
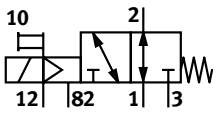
Design	Size	Description		→ Page/ Internet
Manifold block for 3/2-way valves, standard				
	20	VABM-B10-20E-G38- ... P3	Connection size G3/8	183
	25	VABM-B10-25E-G12- ... P3	Connection size G1/2	196
	30	VABM-B10-30E-G34- ... -P3	Connection size G3/4	209
Manifold block extension module for 3/2-way valves,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

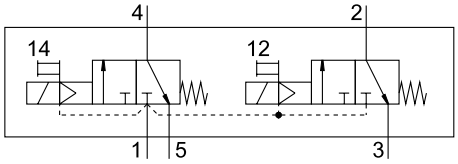
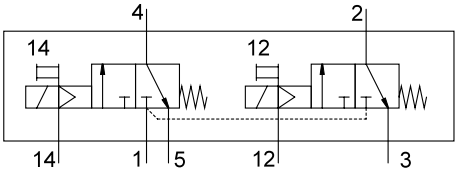
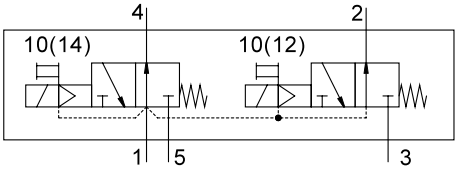
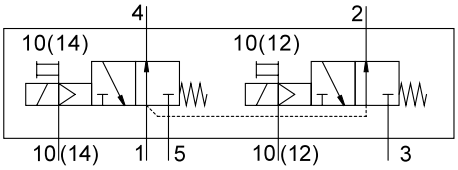
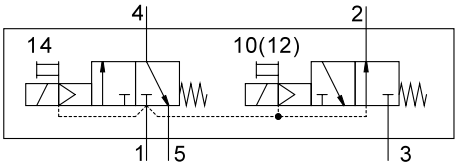
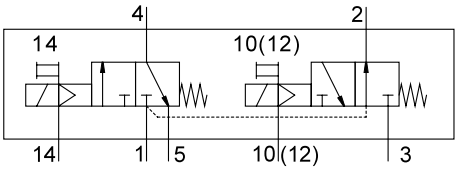
Overview of valve functions

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	–	–	–	–	–	–	–	■	■

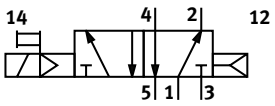
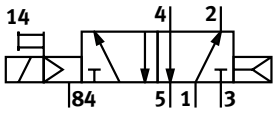
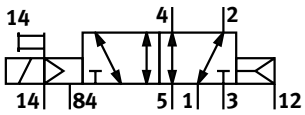
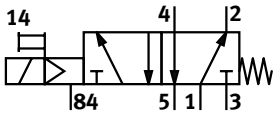
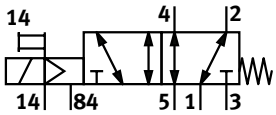
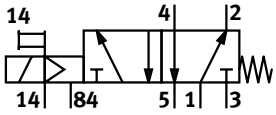
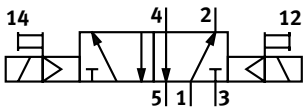
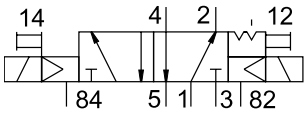
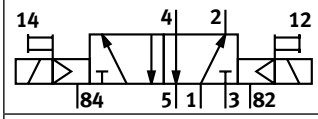
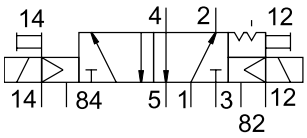
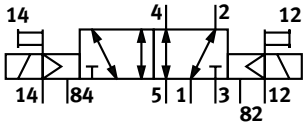
Overview of valve functions

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	–	–	–	–	–	–	–	■	■

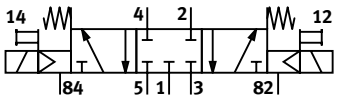
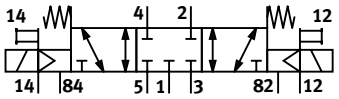
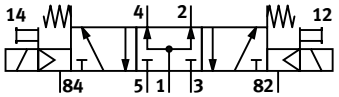
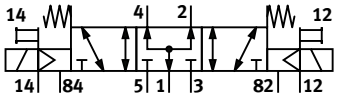
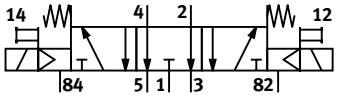
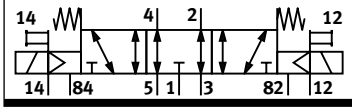
Overview of valve functions

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

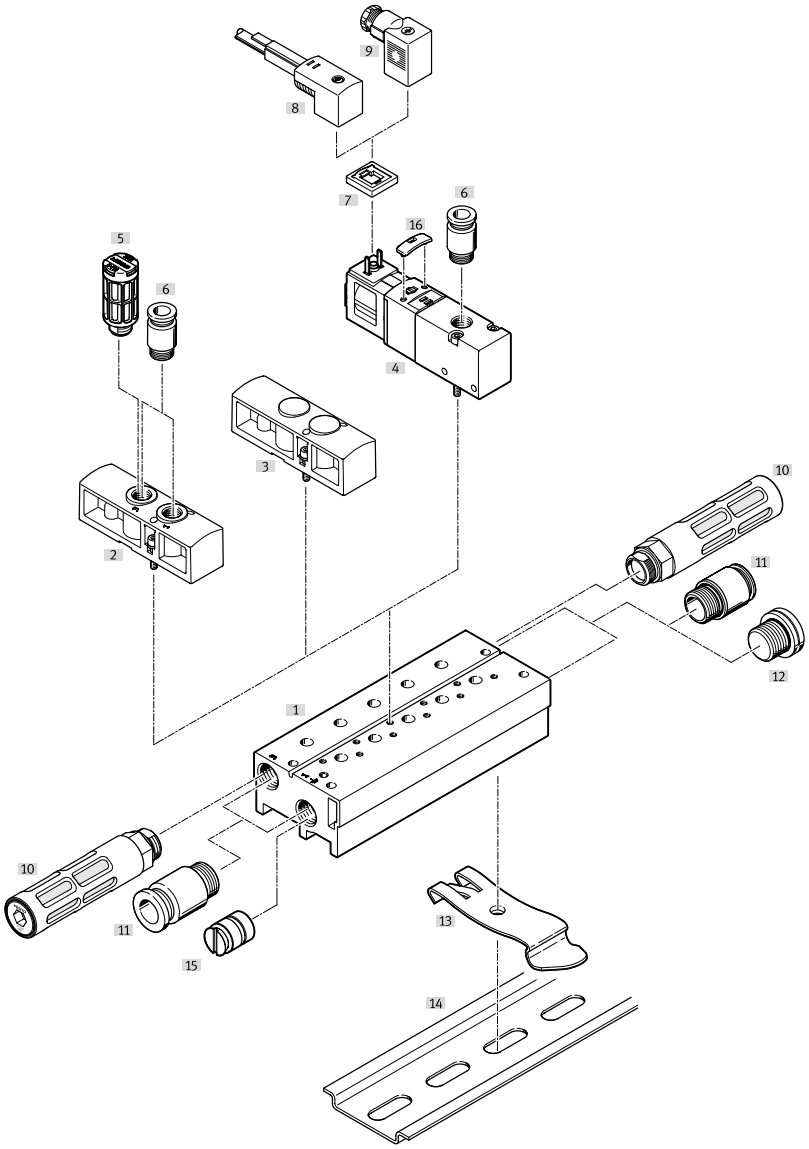
Valve	Order code for valves	Description	VUVS-LK			VUVS-LT			VUVS-L		
			Size			Size			Size		
			20	25	30	20	25	30	20	25	30
5/2-way valve, single solenoid, pneumatic spring											
	M52	Internal pilot air supply, not reversible	■	■	■	–	–	–	–	–	–
		Internal pilot air supply, not reversible	–	–	–	–	–	–	■	■	■
		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

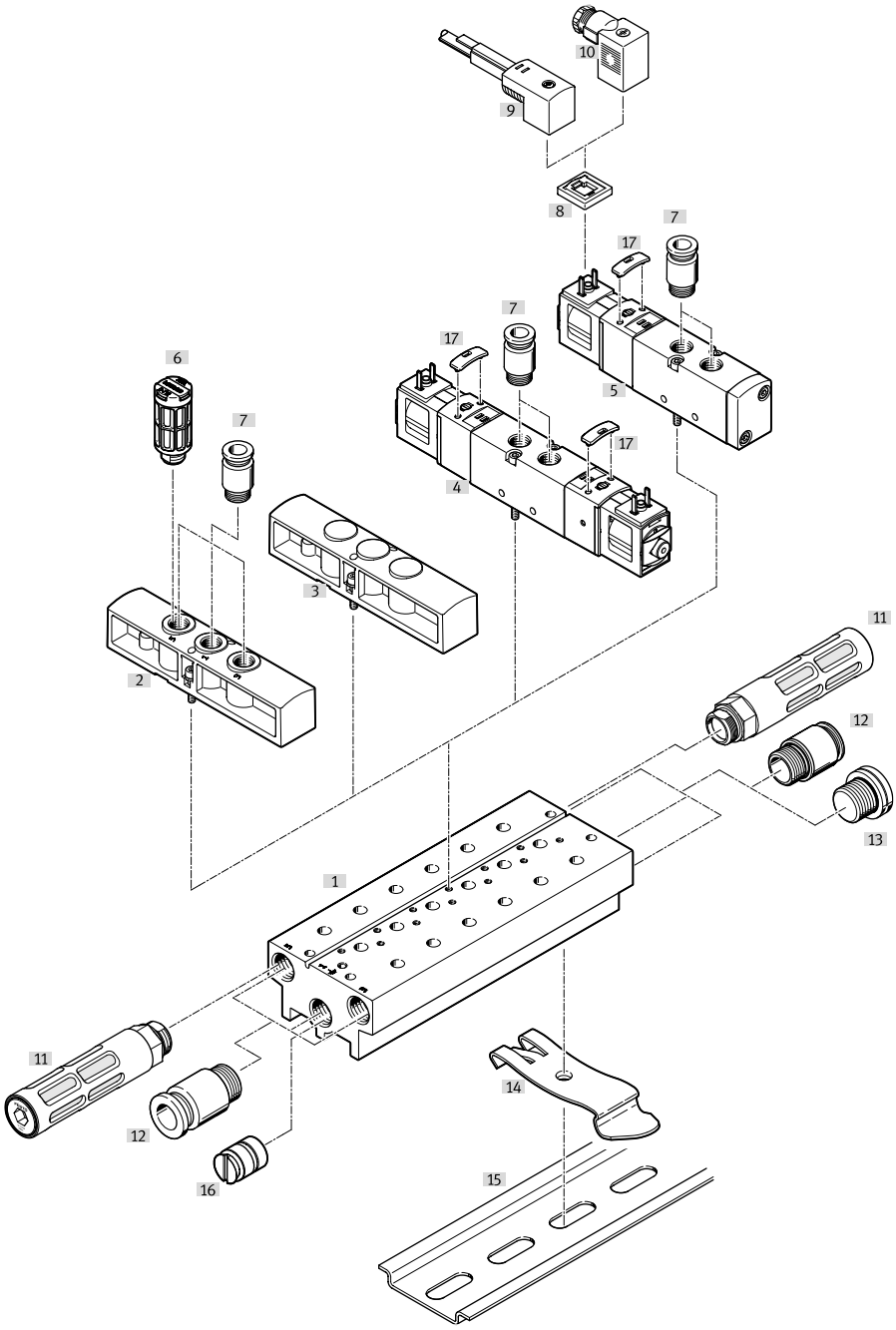


Peripherals overview VUVS-LK

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



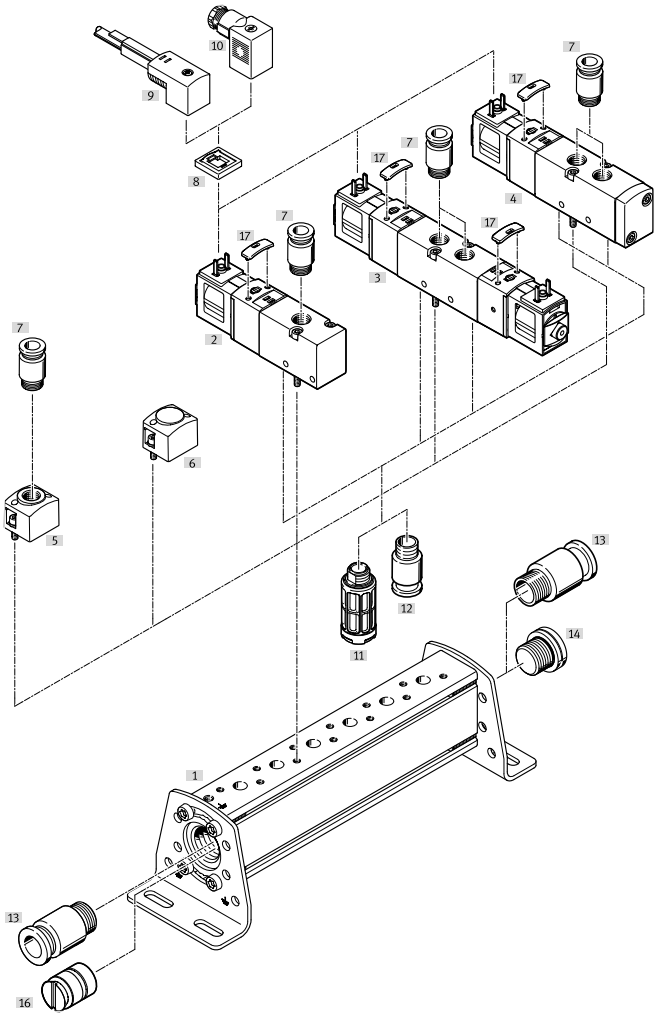
Designation		Description	→ Page/Internet
[1]	Compact manifold block	For 5/2-way valves, no port for external pilot air supply	191
[2]	Supply plate	For additional air supply and exhaust via a valve position	193
[3]	Cover plate	For covering vacant valve positions	193
[4]	Solenoid valve	5/2-way double solenoid 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

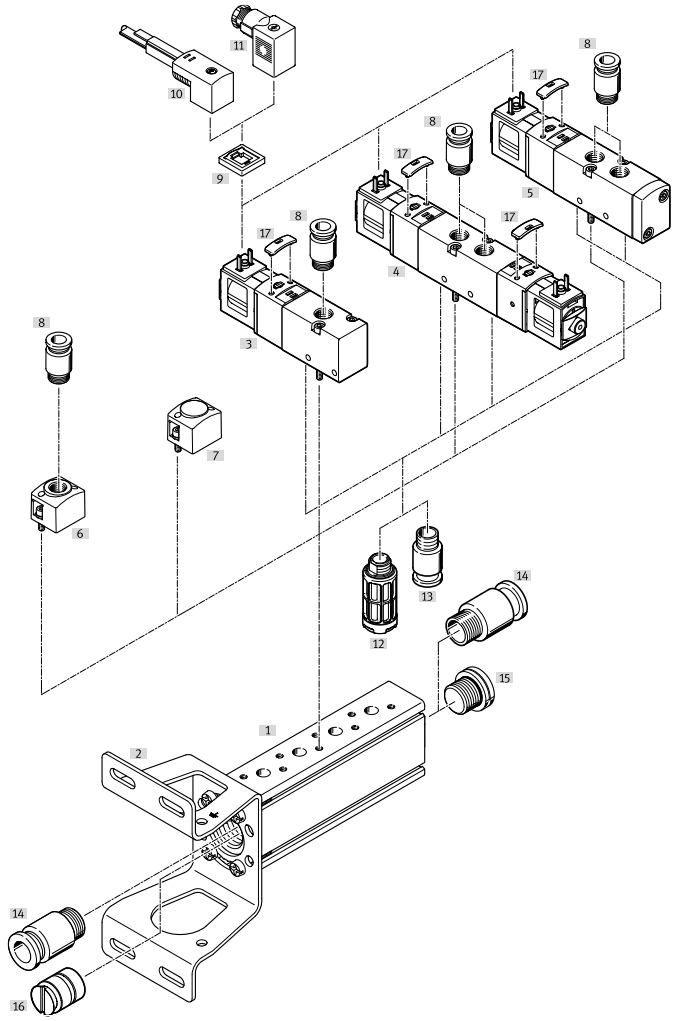
Common supply manifold for mounting on both sides



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

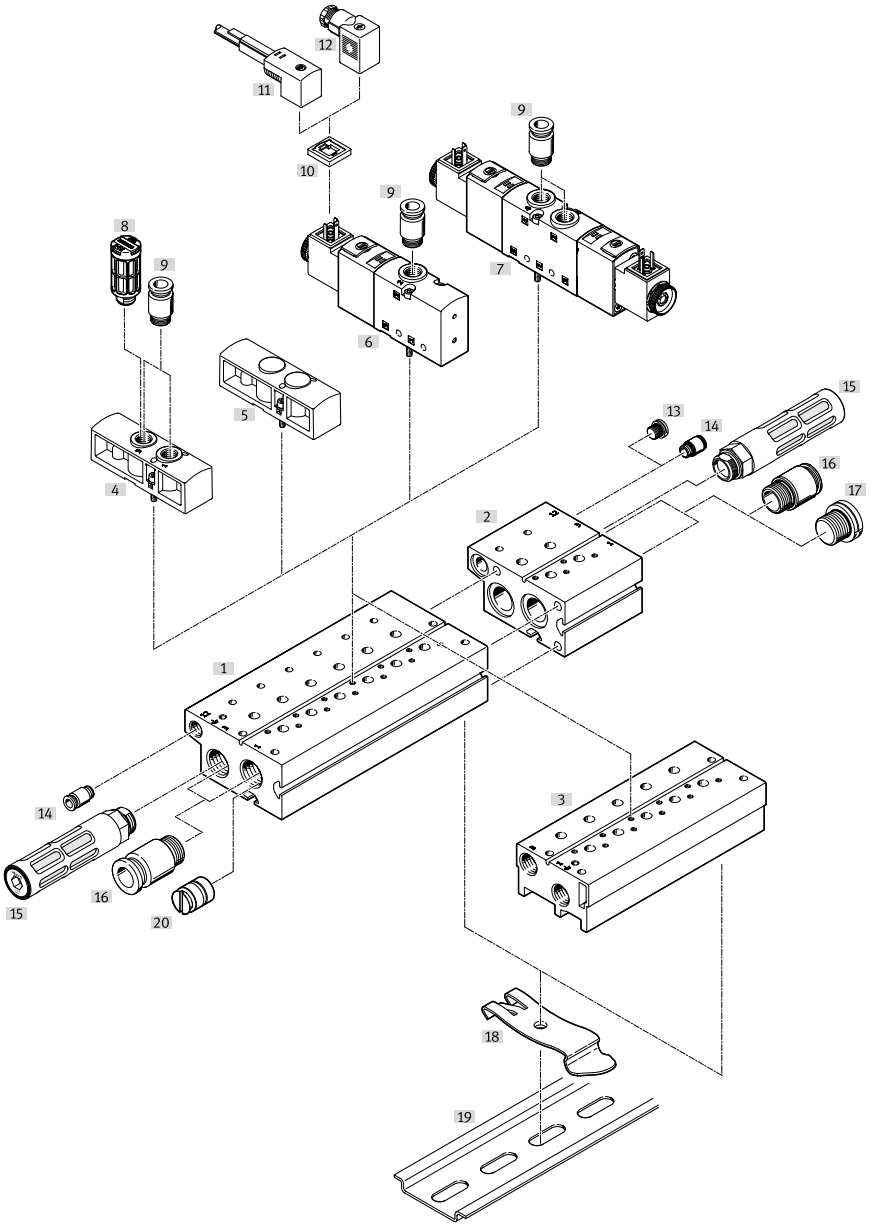
Common supply manifold for mounting on one side



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



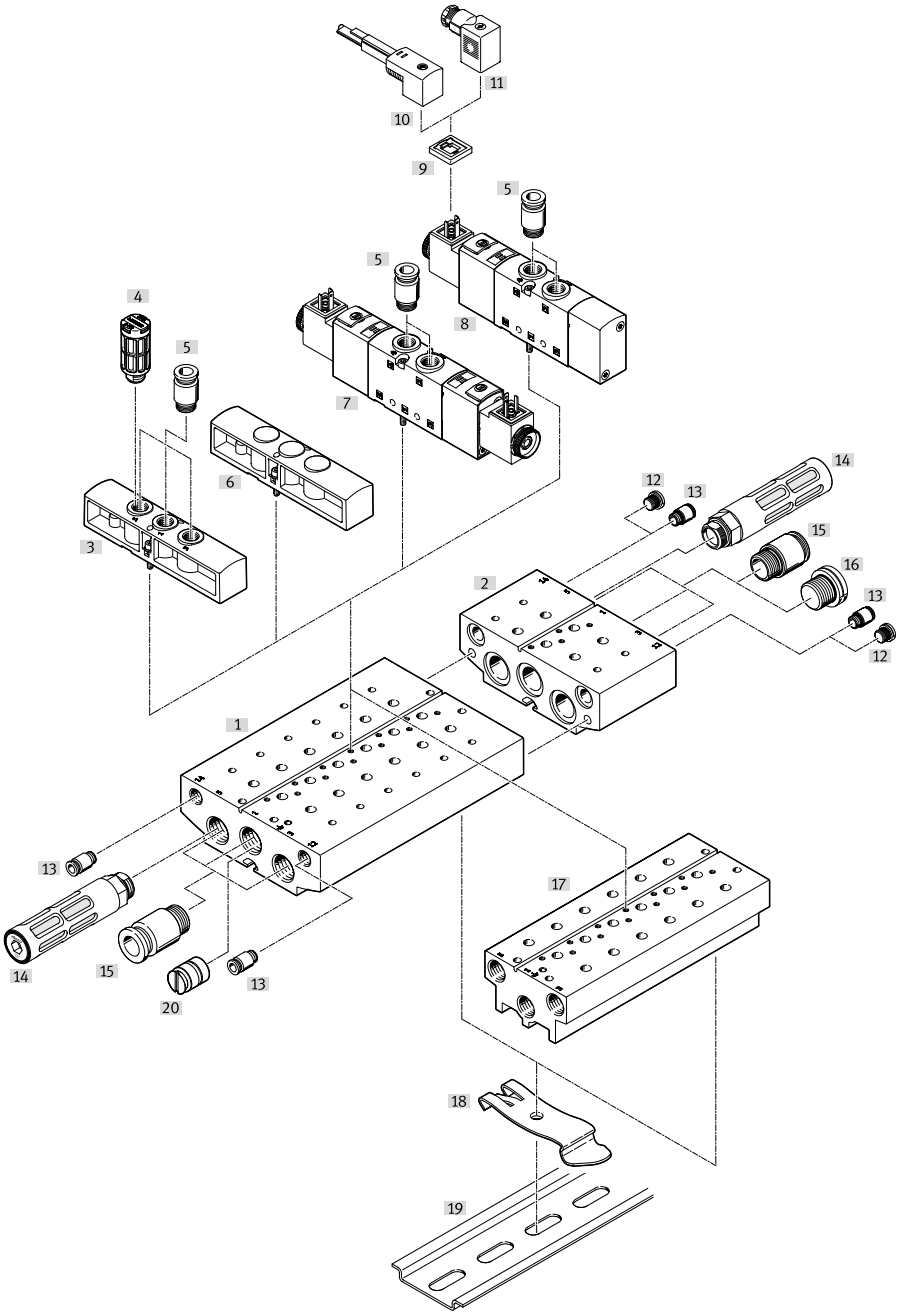
Designation	Description	→ Page/Internet
[1] Standard manifold block	For 3/2-way valves, with port 10/12 for external pilot air supply	191
[2] Extension module	For standard manifold block, with port 10/12 for external pilot air supply	191
[3] Compact manifold block	For 3/2-way valves, no port for external 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



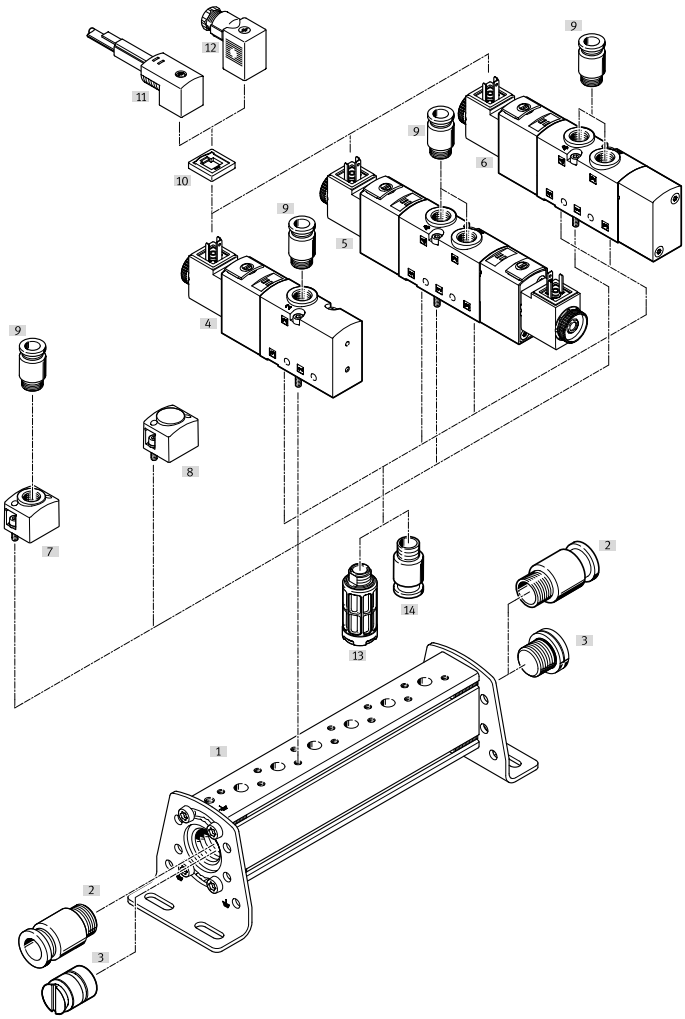
Designation	Description	→ Page/Internet
[1] Standard manifold block	For 5/2- and 5/3-way valves, with ports 12 and 14 for external pilot air supply	191
[2] Extension module	For standard manifold block, with ports 12 and 14 for external pilot air supply	191
[3] Supply plate	For additional air supply and 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

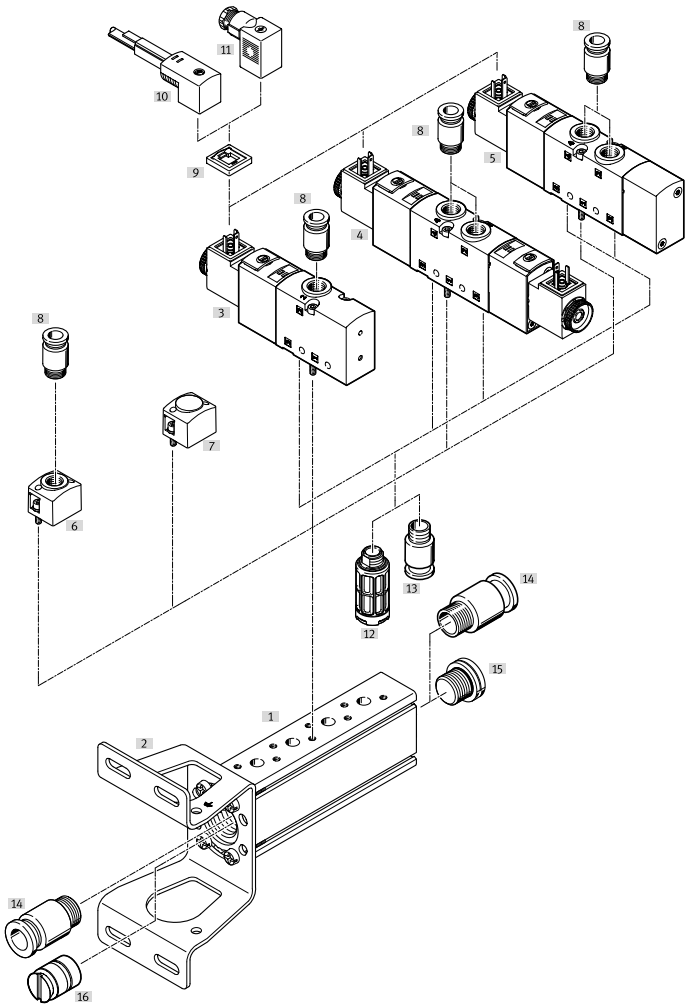
Common supply manifold for mounting on both sides



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

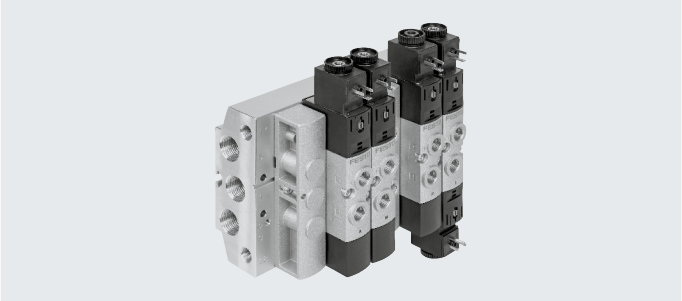
Common supply manifold for mounting on one side



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. no. 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	G1/8
	Compact manifold block	1 2/14	On the valve	On the valve	On the valve
	Common supply manifold	1 2/14	On the valve	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	
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 <= 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)

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.

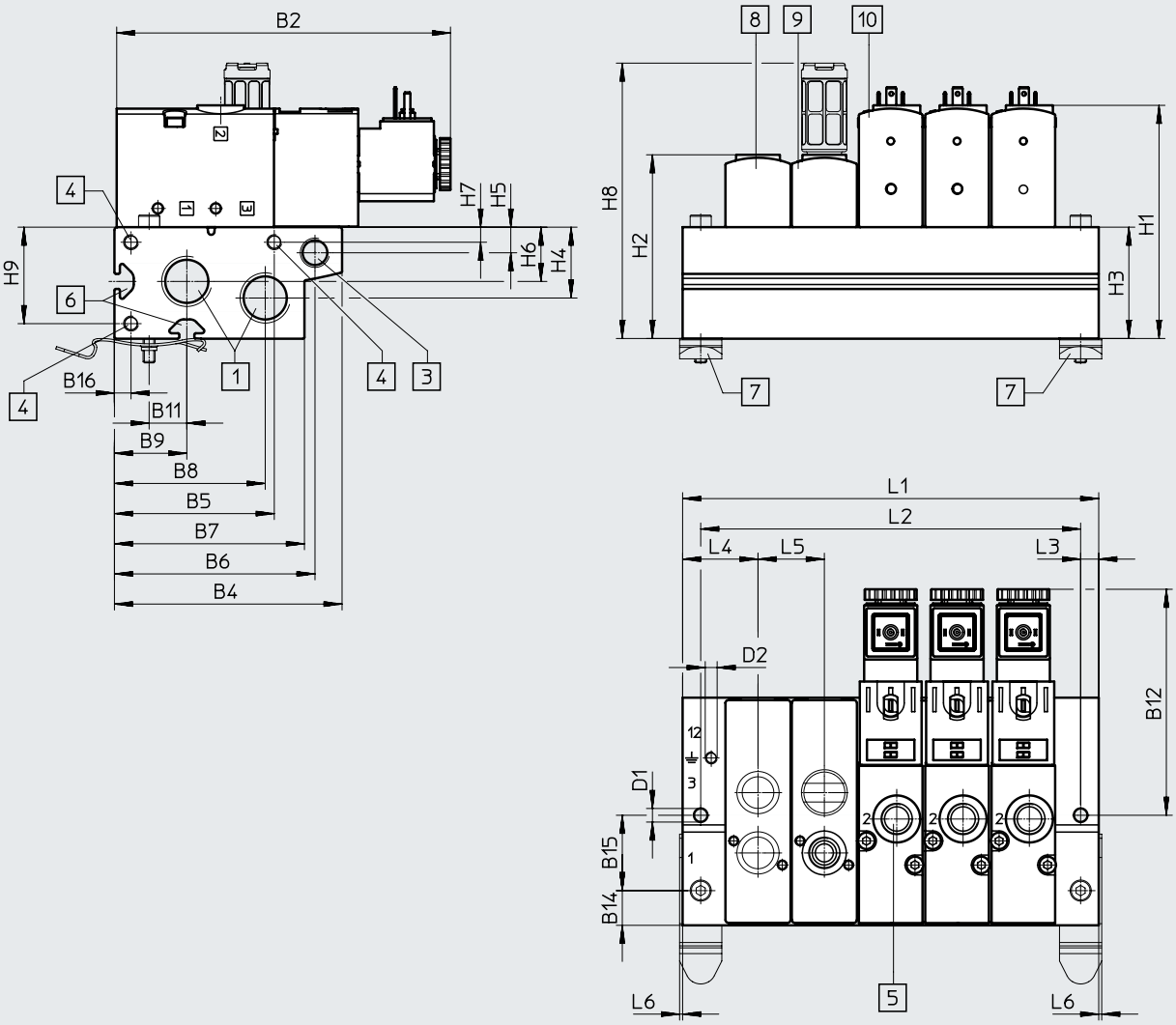
Operating and environmental conditions			
Valve design		Piston spool	Poppet seat
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]	
Pilot medium		Compressed air to ISO 8573-1:2010 [7:4:4]	
Note on the operating/pilot medium		Lubricated operation possible (in which case lubricated operation 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

[3] Port 12 (on both sides):
G1/8 for VTUS-20, VTUS-25 and VTUS-30

[4] Thread for extension module:
M5x15.5 for VTUS-20
M5x18 for VTUS-25 and VTUS-30

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

[6] Profile slot IPM-05 system 5 for VTUS-20 and VTUS-25, profile slot IPM-08 system 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	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

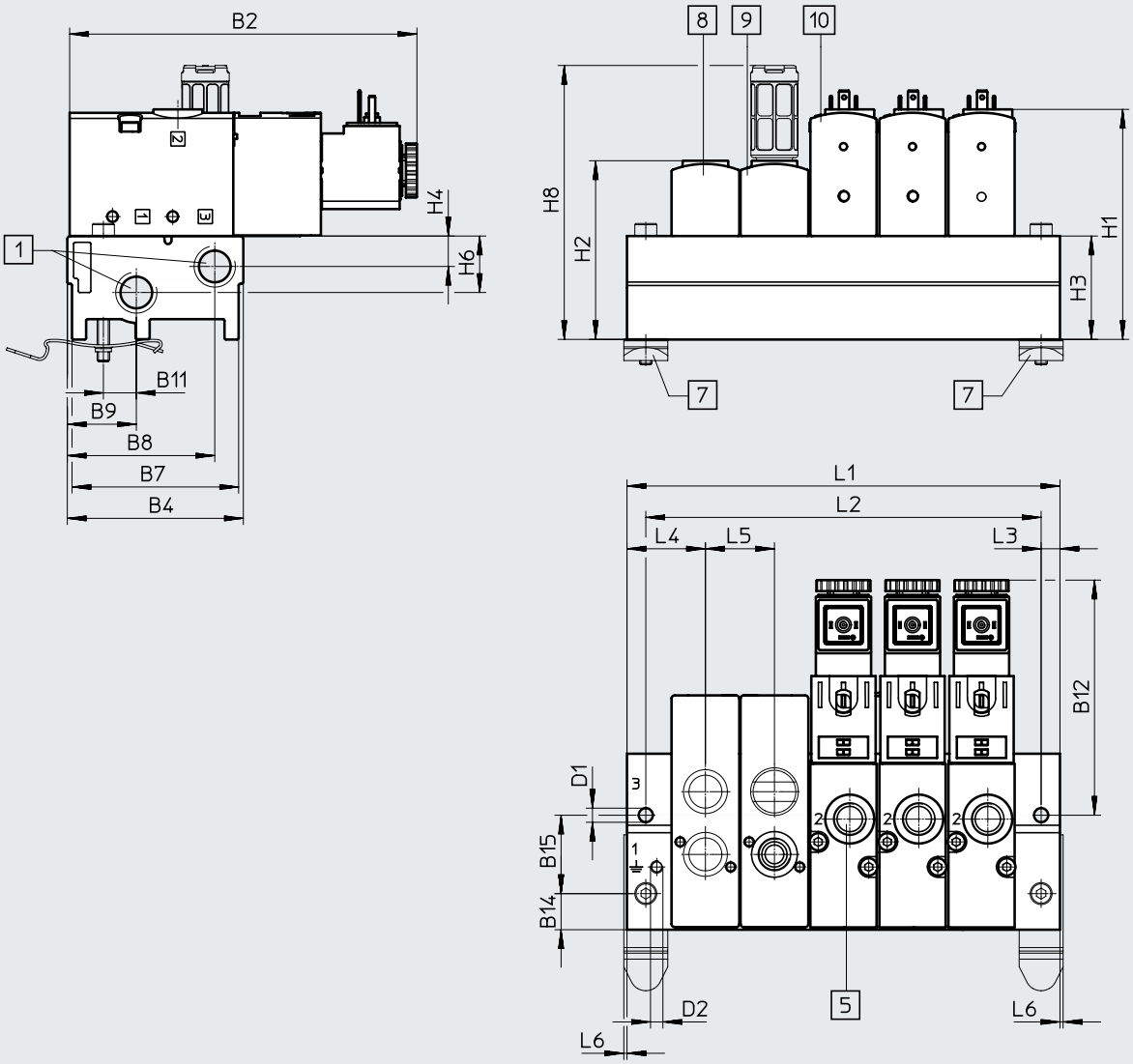
Type	D1 ⌀	D2	H1	H2	H3	H4	H5	H6	H7	H8	H9	L3	L4	L5	L6
VTUS-20	4.5	M4x6.5	77.4	61	37	23.5	8.5	18	5	91.4	32	6	25	22	1
VTUS-25	4.5	M4x9	95.5	71	45	25	9	22	5	123.4	39	6	29.8	27.5	1
VTUS-30	4.5	M5x11	118	91	61	35	9	28.5	6.5	170.1	54.5	7.5	34	32	–

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

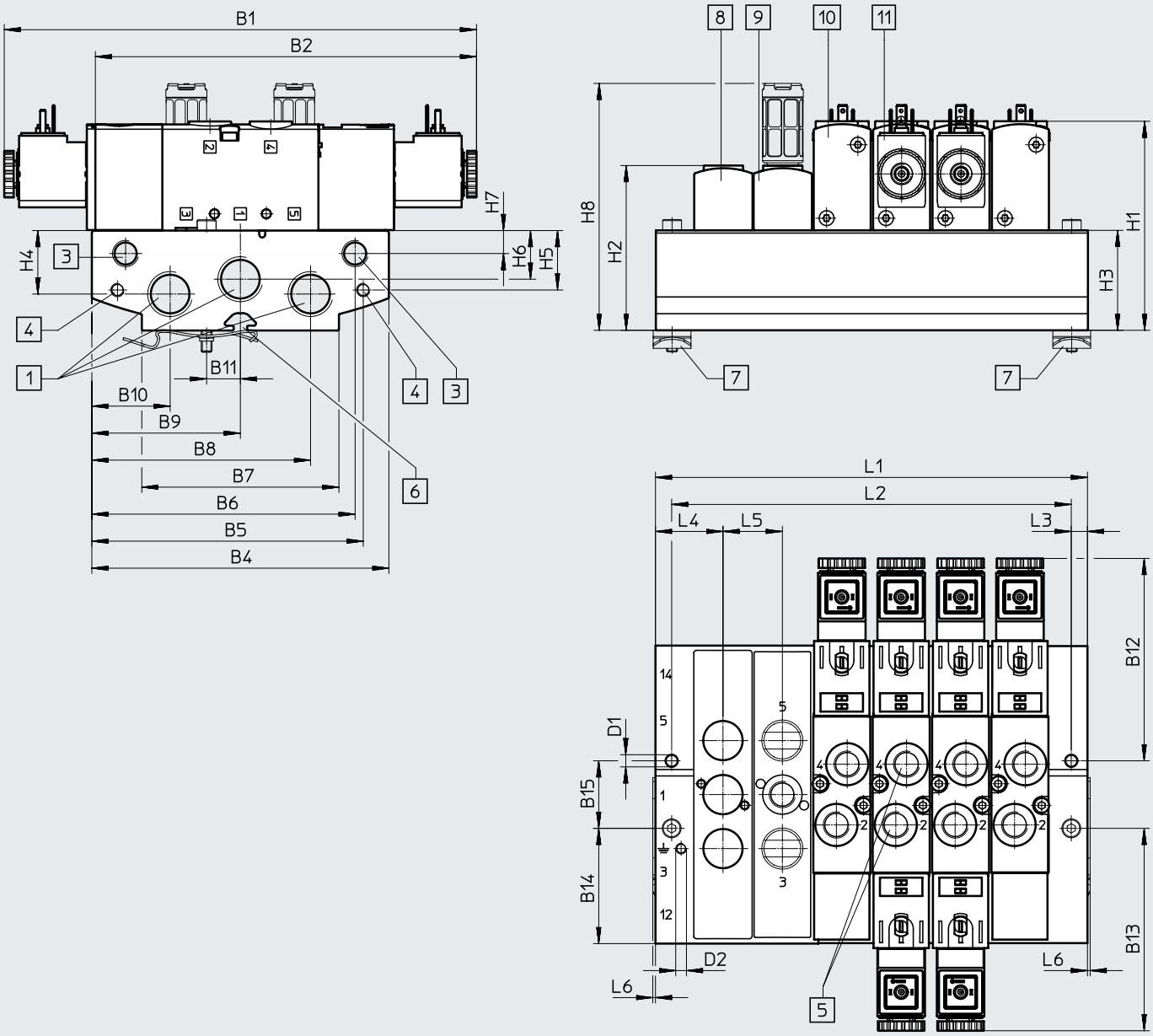
Type	D1 ⌀	D2	H1	H2	H3	H4	H6	H8	L3	L4	L5	L6
VTUS-20	4.5	M4x6.5	73.4	57	33	9.7	18	87.4	6	25	22	1
VTUS-25	5.5	M4x9	84.5	60	34	13.5	20	112.4	6	29.8	27.5	1
VTUS-30	6.3	M5x11	99.5	72.5	42.5	17.5	26	151.6	7.5	34	32	–

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

[3] Port 12 and 14 (on both sides):
G1/8 for VTUS-20, VTUS-25 and VTUS-30

[4] Thread for extension module:
M5x15.5 for VTUS-20
M5x18 for 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

[6] Profile slot IPM-05 system 5

[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, 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

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

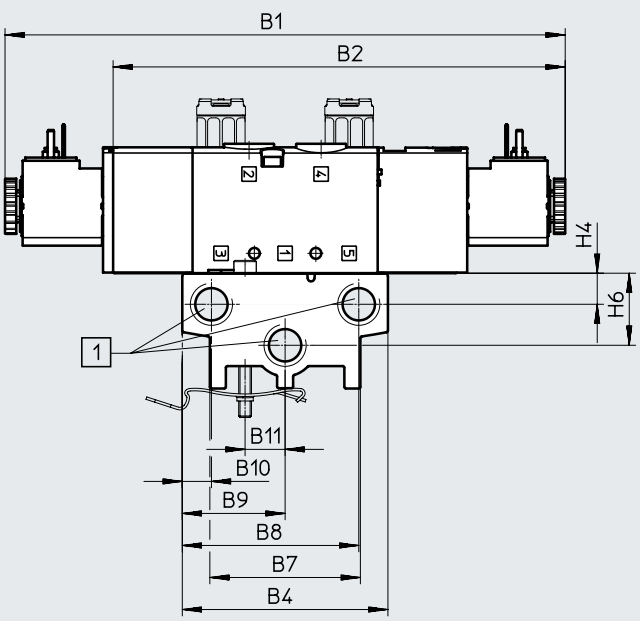
Type	D1 ⌀	D2	H1	H2	H3	H4	H5	H6	H7	H8	L3	L4	L5	L6
VTUS-20	4.5	M4x6.5	77.4	61	37	23.5	22	18	8.5	91.4	6	25	22	1
VTUS-25	5.5	M4x9	95.5	71	45	25	22	22	9	123.4	6	29.8	27.5	1
VTUS-30	6.3	M5x11	118	91	61	35	22	28.5	9	170.1	7.5	34	32	–

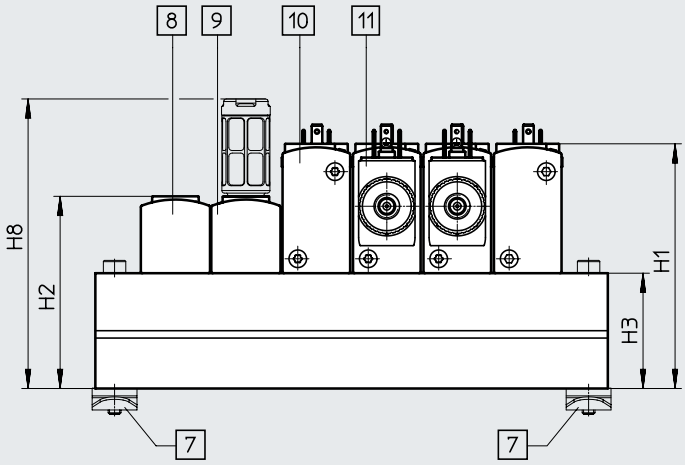
Type	Valve positions	2	3	4	5	6	7	8	9	10
VTUS-20	L1	72	94	116	138	160	182	204	226	248
	L2	60	82	104	126	148	170	192	214	236
VTUS-25	L1	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2	75	102.5	130	157.5	185	212.5	240	267.5	295
VTUS-30	L1	100	132	164	196	228	260	292	324	356
	L2	85	117	149	181	213	245	277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

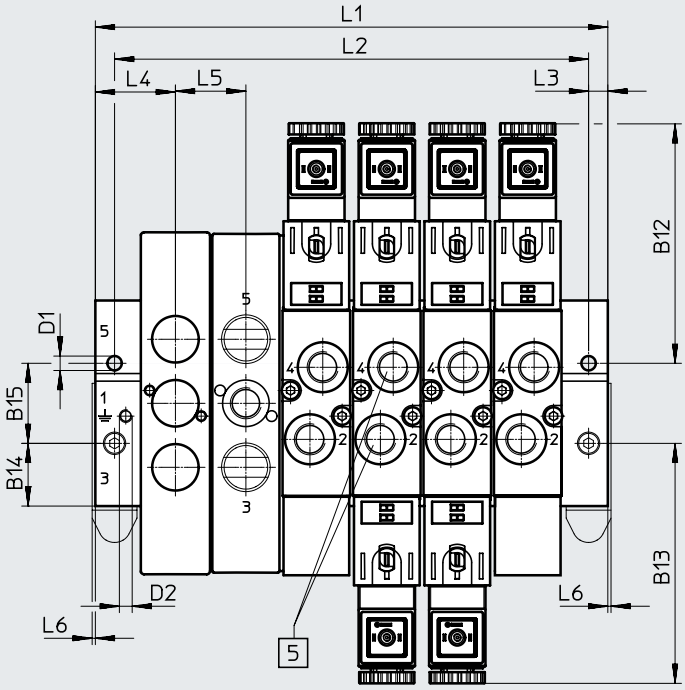
Datasheet – Valve manifold assembly

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

[5] Port 2 and 4:
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, 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

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

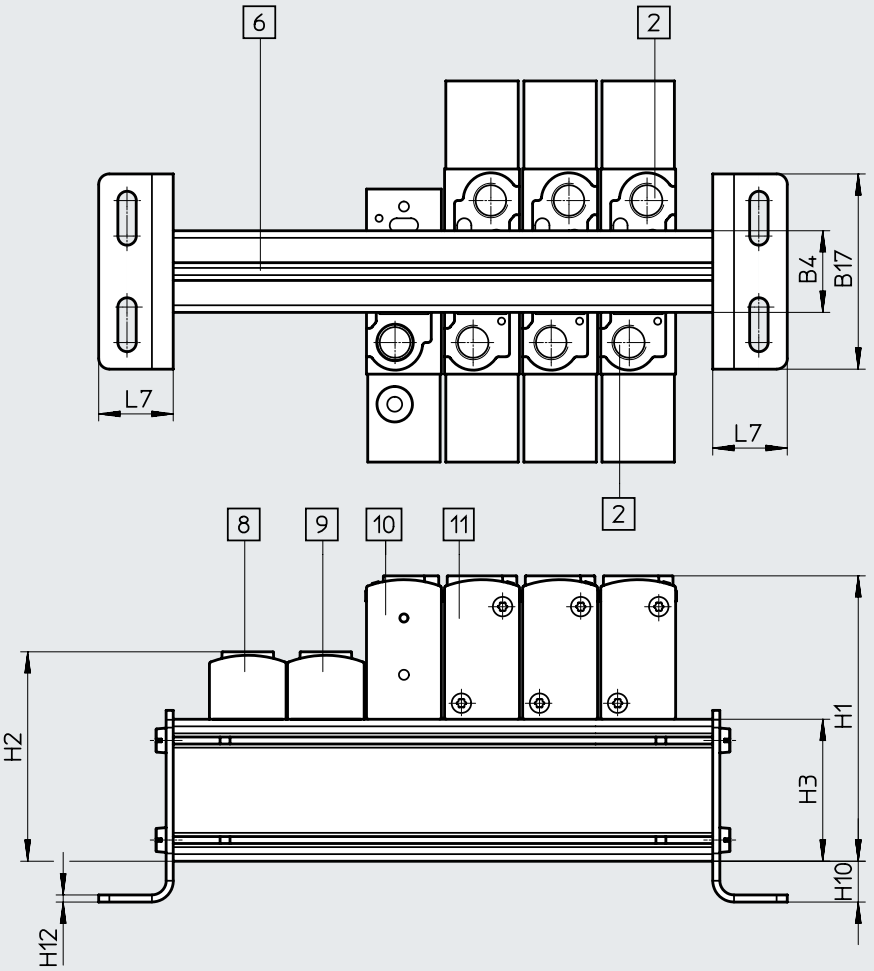
Type	D1 ⌀	D2	H1	H2	H3	H4	H6	H8	L3	L4	L5	L6
VTUS-20	4.5	M4x6.5	76.4	60	36	9.7	22.5	90.4	6	25	22	1
VTUS-25	5.5	M4x9	84.5	60	34	13.5	20	112.4	6	29.8	27.5	1
VTUS-30	6.3	M5x11	99.5	72.5	42.5	17.5	26	151.6	7.5	34	32	–

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

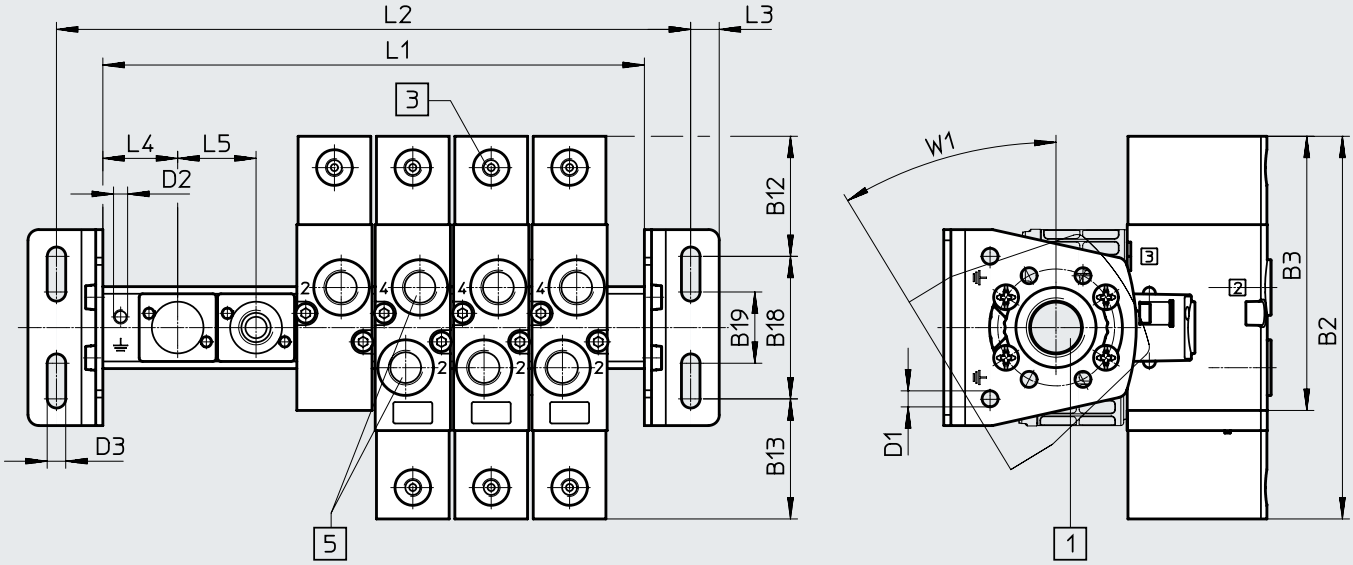
[12] 5/2-way double solenoid valve or 5/3-way valve or 2x 3/2-way valve

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 ±30°.

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

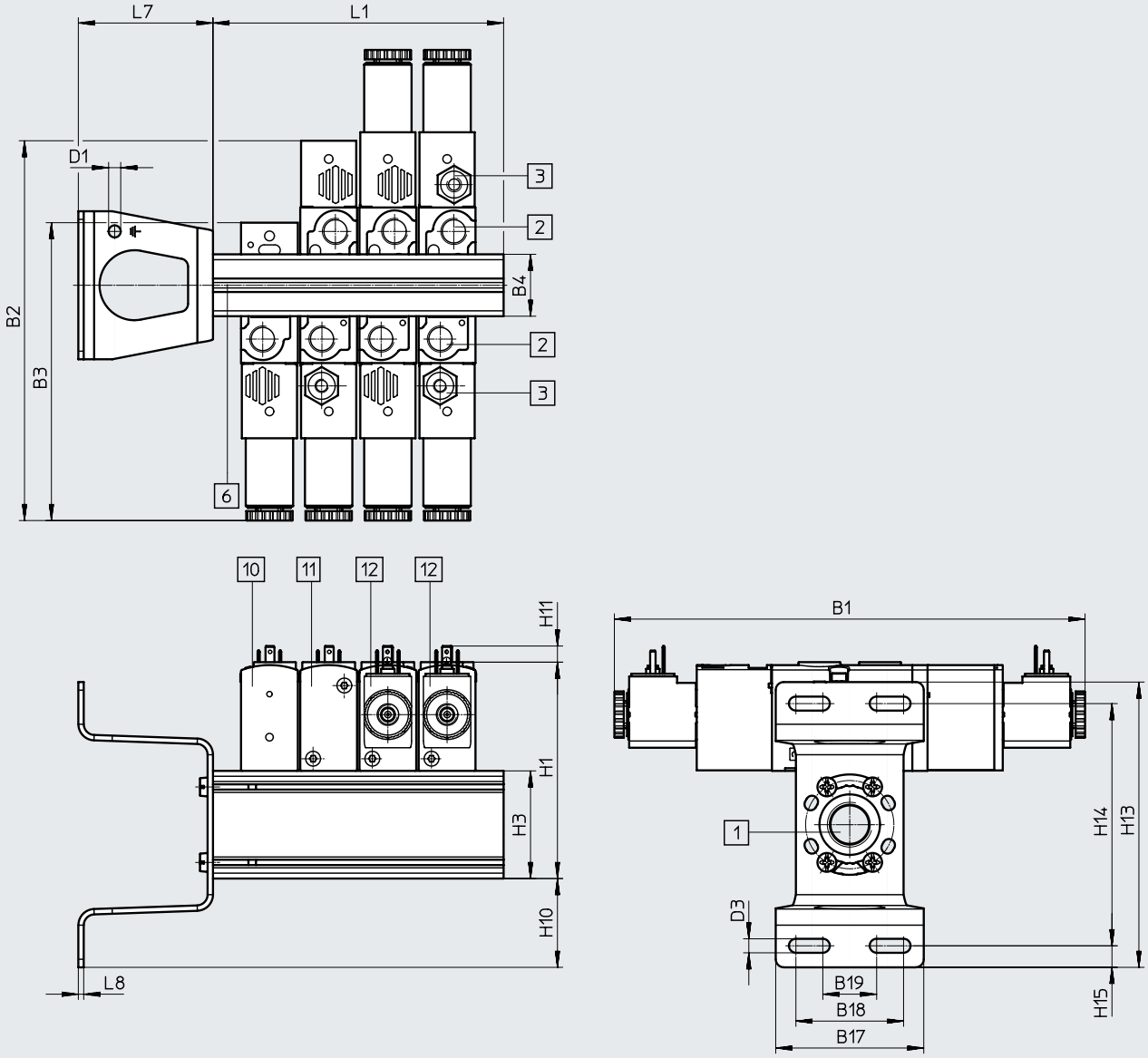
Type	D1 ⌀	D2	D3 ⌀	L3	L4	L5	W1
VTUS-20	4.5	M4x6.5	5.2	8	21	22	30°
VTUS-25	4.5	M4x9	6.6	8	29.8	27.5	30°
VTUS-30	5.5	M5x11	8.6	9	34	32	30°

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 ±30°.

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 ⌀	D3 ⌀	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	

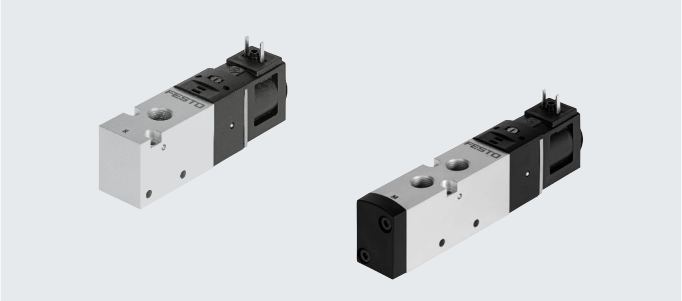
017	Version	
	Expanded properties	
S	Focused properties	

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 connection 1, 2, 3		G1/8	G1/8	G1/8
Pneumatic connection 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
	Changeover	–
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	–
	Changeover	–	10
Product weight with solenoid coil	[g]	145	200
Product weight with solenoid coil and plug socket	[g]	158	226

Safety data		
Max. positive test pulse with logic 0	[ìs]	2700
Max. negative test pulse with logic 1	[ìs]	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

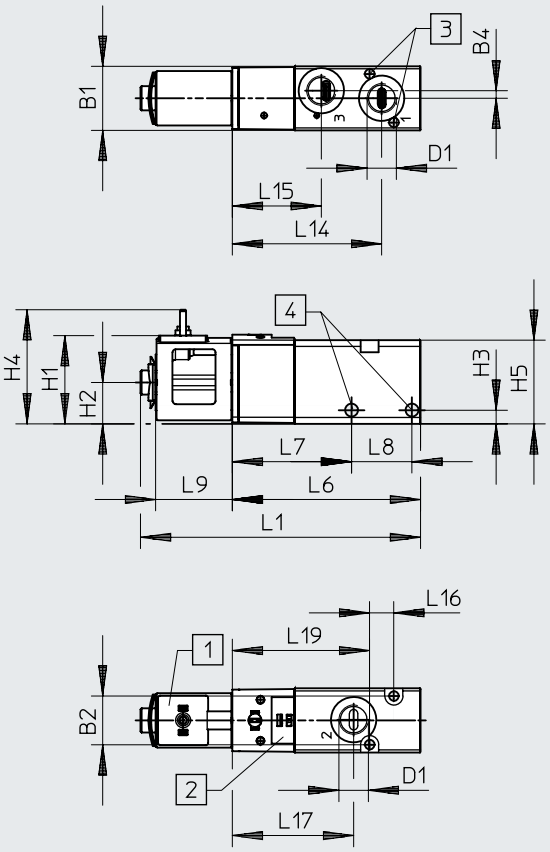
Electrical data		
Electrical connection		Plug type C to EN 175301-803
Operating voltage	[V DC]	24
Permissible voltage fluctuations	[%]	±10
Power	[W]	2.6
Duty cycle	[%]	100
Degree of protection to EN 60529		IP65 with plug socket

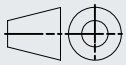
Materials	
Housing	Wrought aluminium alloy
Seals	HNBR, NBR
Piston spool	Wrought aluminium alloy
Note on materials	RoHS-compliant
	Contains paint-wetting impairment substances

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

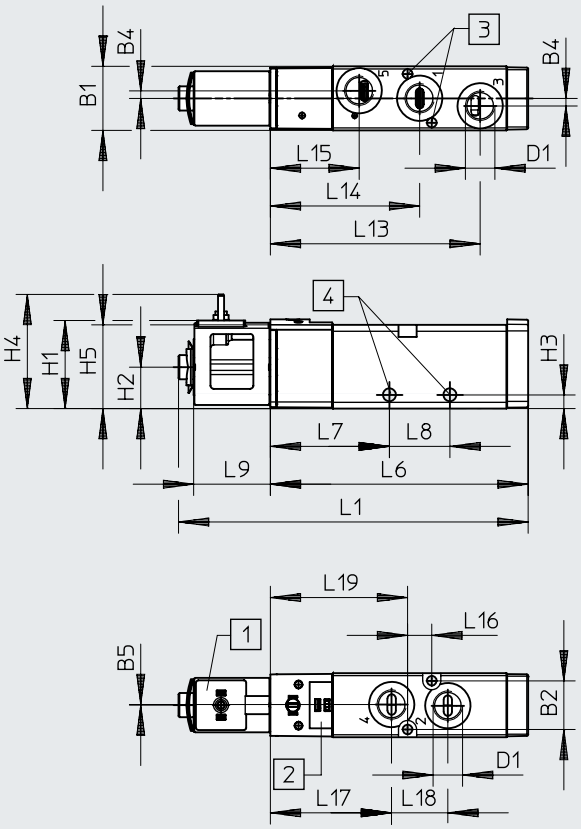
Type	B1	B2	B4	B5	D1	H1	H2	H3	H4	H5
VUVS-LK20-M32C-AD-G18-1C1-S	21.2	16.1	2.5	0.2	G1/8	29.2	13.7	4.5	37.8	27.7

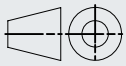
Type	L1	L6	L7	L8	L9	L14	L15	L16	L17	L19
VUVS-LK20-M32C-AD-G18-1C1-S	92.7	62.3	39.4	20	25.4	49.4	29.4	8	40.1	45.4

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

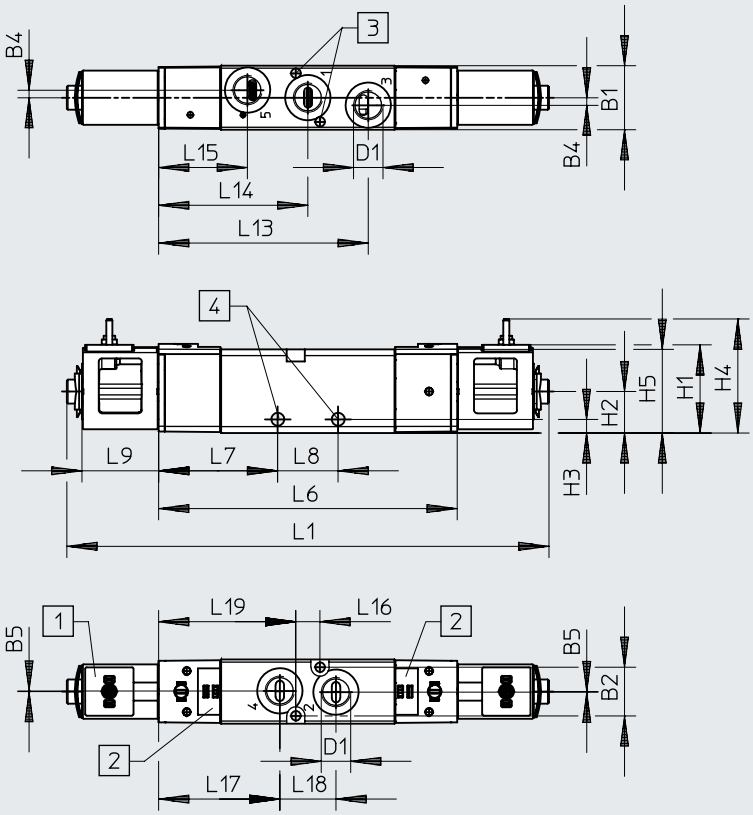
Type	B1	B2	B4	B5	D1	H1	H2	H3	H4	H5
VUVS-LK20-M52-AD-G18-1C1-S	21.2	16.2	2.5	0.2	G1/8	29.2	13.7	4.5	37.8	27.7

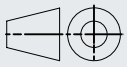
Type	L1	L6	L7	L8	L9	L13	L14	L15	L16	L17	L18	L19
VUVS-LK20-M52-AD-G18-1C1-S	115.7	85.3	39.4	20	25.4	69.4	49.4	29.4	8	40.1	18.6	45.4

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

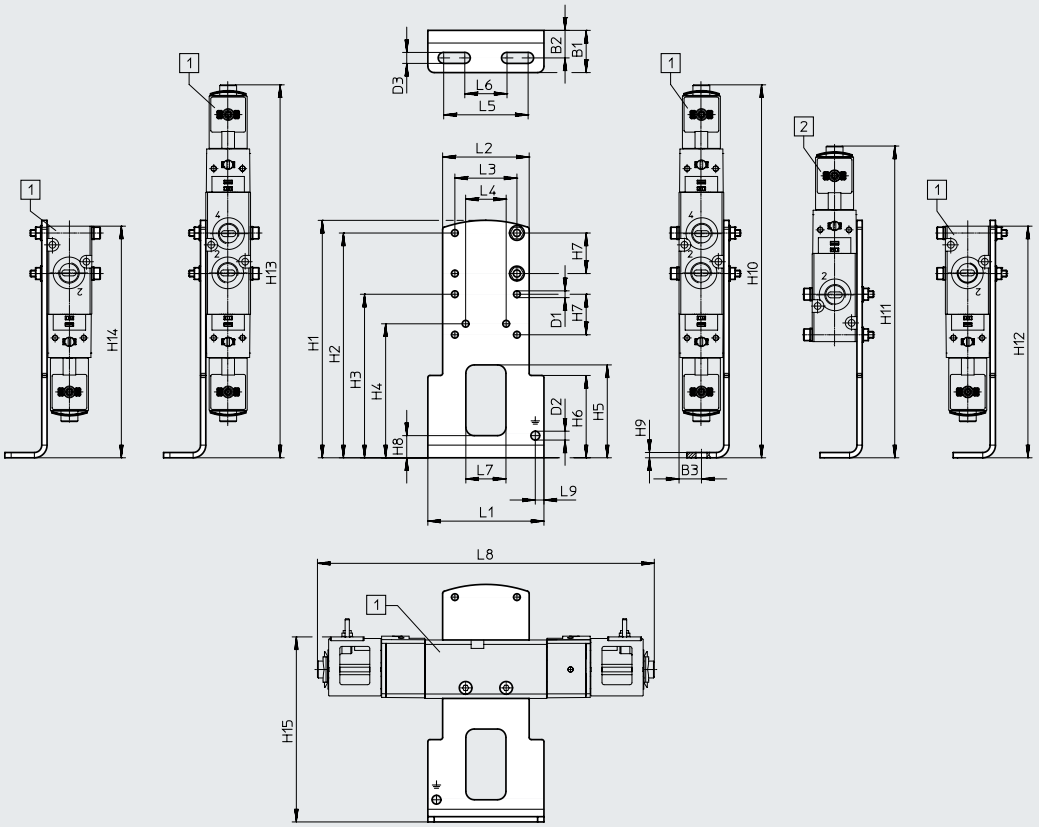
Type	L1	L6	L7	L8	L9	L13
VUVS-LK20-B52-D-G18-1C1-S	159.7	98.8	39.4	20	25.4	69.4

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 ⌀	D2 ⌀	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										

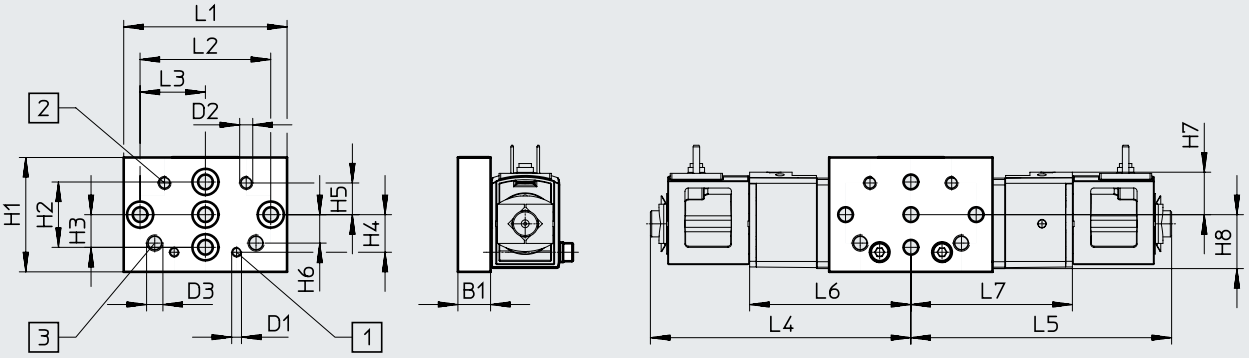
Type		H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-20-A	VUVS-LK20-B52	44	39	19.2	10.5	2.5	176.7	–	176.7	176.7	176.7
	VUVS-LK20-M52							147.7	132.8		132.8
	VUVS-LK20-M32								109.8		109.8

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

Wall mounting



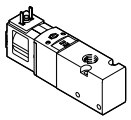
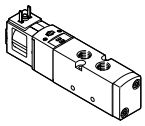
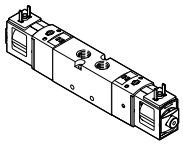
[1] Mounting hole for size 20 [2] Mounting hole for size 25 [3] Mounting hole for size 30

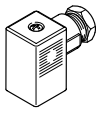
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-LK20-B52	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-LK20-M52										
	VUVS-LK20-M32										

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		–

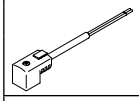
Accessories

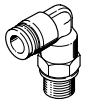
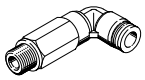
★ Core Range

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**
	4-pin, insulation displacement connector	Cable connector M14	0 ... 250 V AC/DC	IP67	**192745**	**MSSD-EB-S-M14**

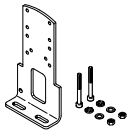
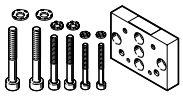
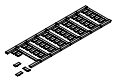
Accessories

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**
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**	**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**

1) Packaging unit

Accessories

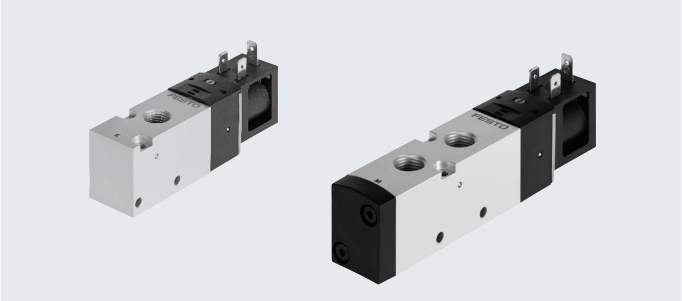
Ordering data	Description	Weight [g]	Part no.	Type
Foot mounting				
	With screw set for attaching the valve to the foot mounting	97	**576412**	**VAME-B10-20-A**
Wall mounting				
	With screw set for attaching the valve to the wall mounting	53	**576413**	**VAME-B10-20-W**
Assortment of spare parts				
	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 qnN	[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
Pneumatic connection 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
	Changeover	–
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	–
	Changeover	–	12
Product weight with solenoid coil	[g]	250	320
Product weight with solenoid coil and plug socket	[g]	274	368

Safety data		
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

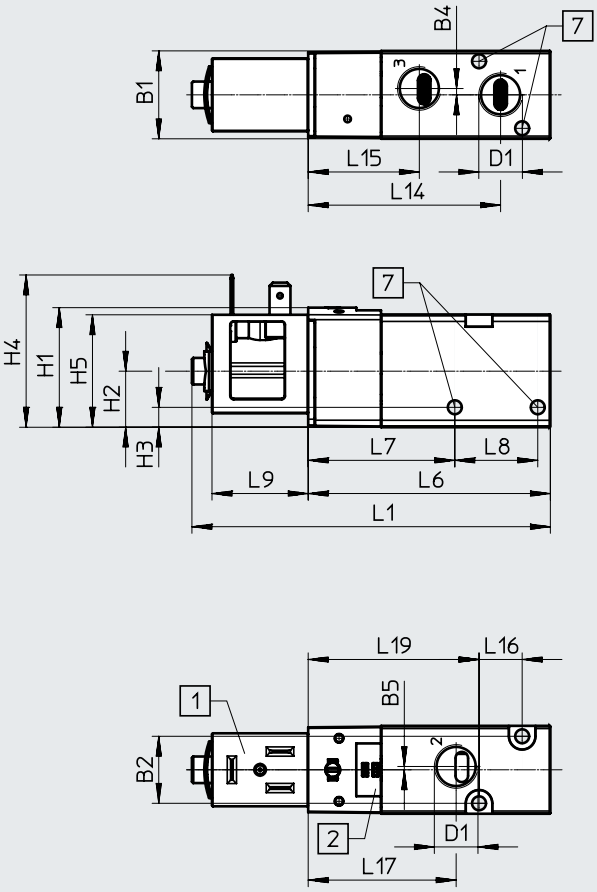
Electrical data		
Electrical connection		Plug type B to industry standard (11 mm)
Operating voltage	[V DC]	24
Permitted voltage fluctuations	[%]	10
Power	[W]	3.3
Duty cycle	[%]	100
Degree of protection to EN 60529		IP65 with plug socket

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

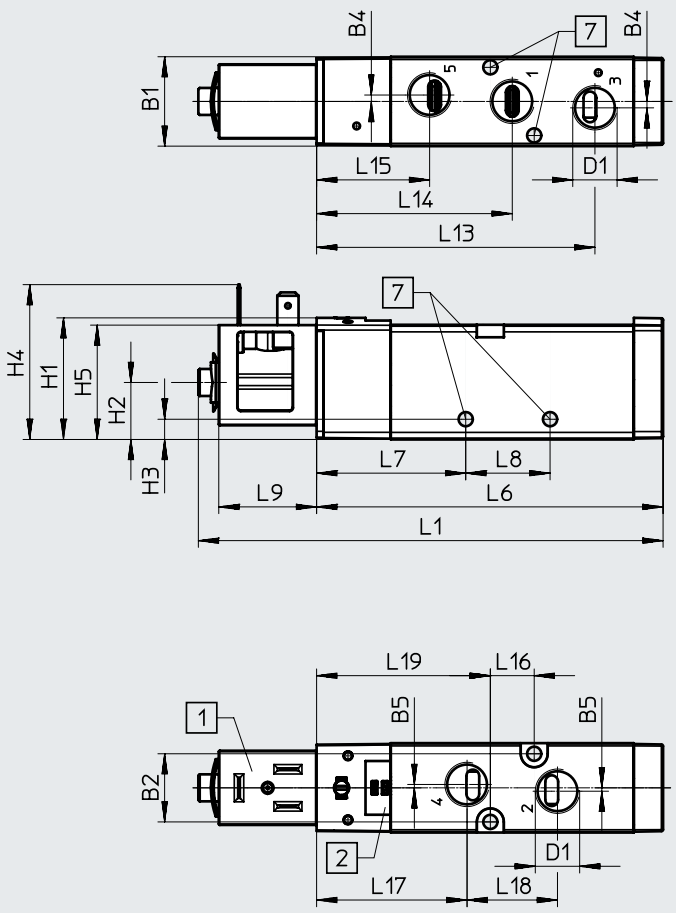
Type	B1	B2	B4	B5	D1	H1	H2	H3	H4	H5
VUVS-LK25-M32C-AD-G14-1B2-S	26.5	20.2	1.9	1	G1/4	36.1	16.9	6	45.9	33.9

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

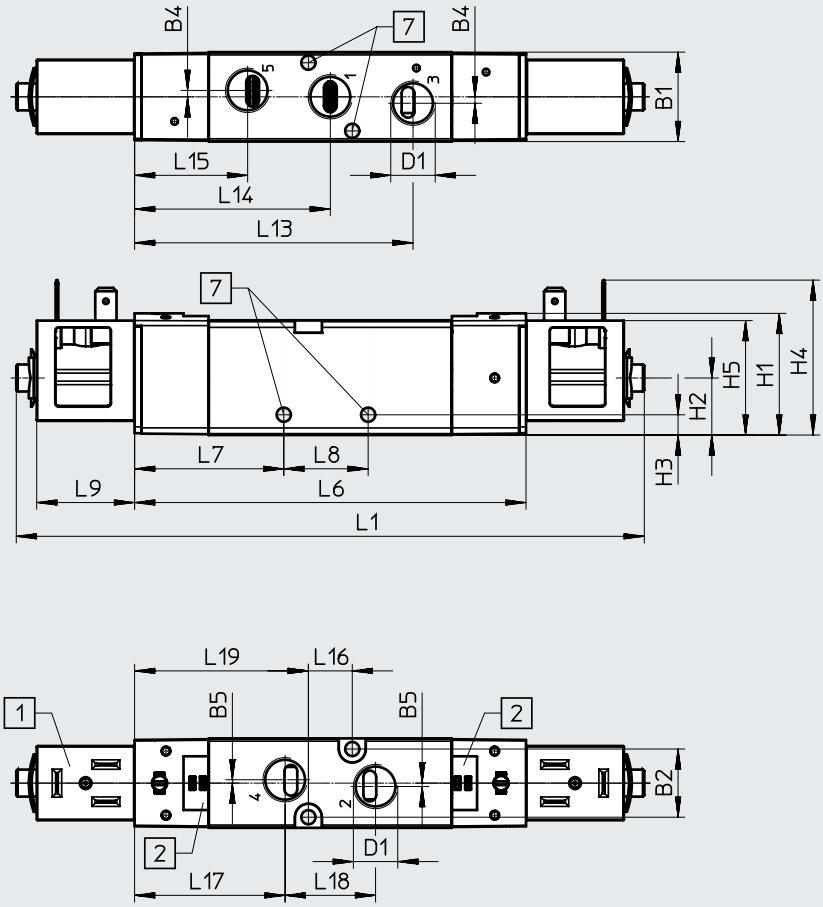
Type	B1	B2	B4	B5	D1	H1	H2	H3	H4	H5
VUVS-LK25-M52-AD-G14-1B2-S	26.5	20.2	1.9	1	G1/4	36.1	16.9	6	45.9	33.9

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

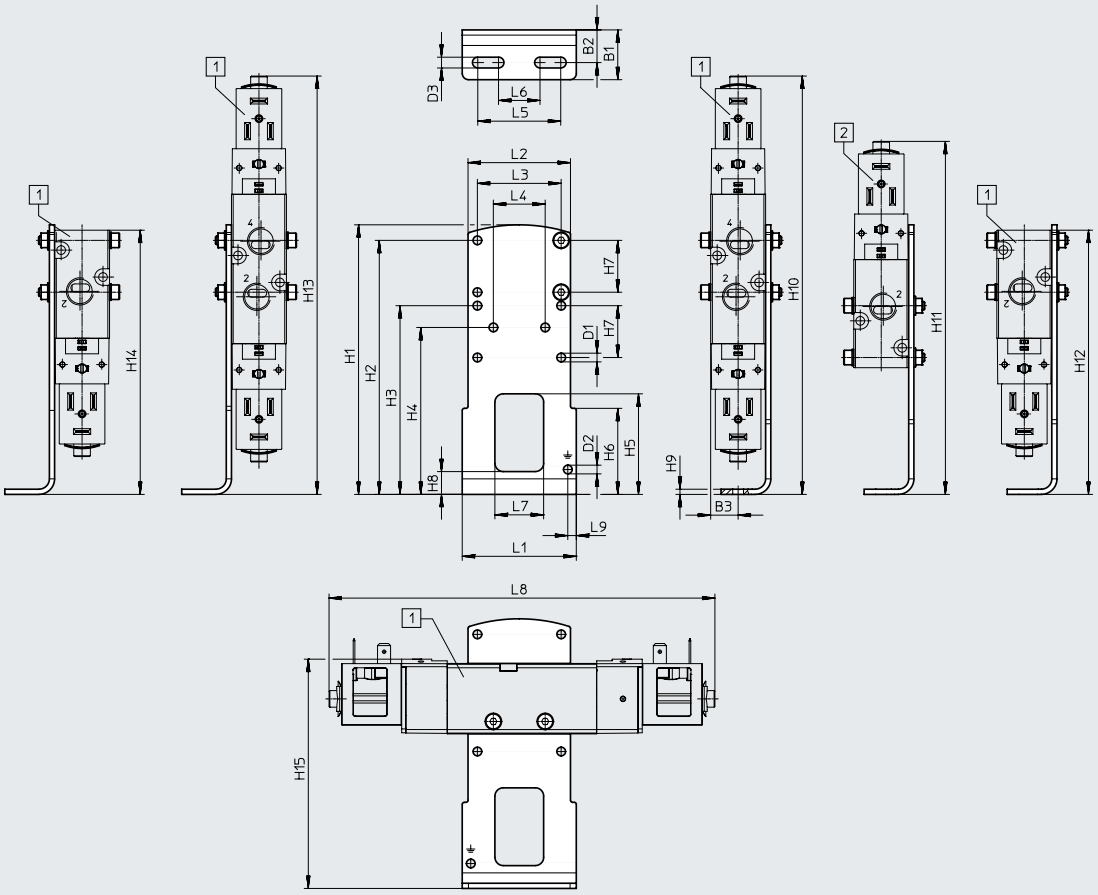
Type	B1	B2	B4	B5	D1	H1	H2	H3	H4	H5
VUVS-LK25-B52-D-G14-1B2-S	26.5	20.2	1.9	1	G1/4	36.1	16.9	6	45.9	33.9

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 ⌀	D2 ⌀	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										

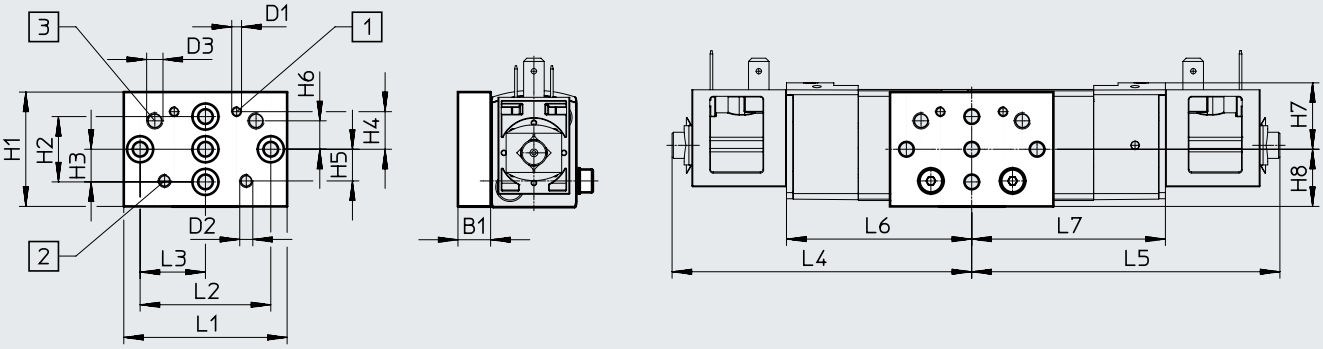
Type		H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-25-A	VUVS-LK25-B52	48.5	41.5	25	11	2.5	201.8	–	204.4	201.8	204.4
	VUVS-LK25-M52							170.3	156		156
	VUVS-LK25-M32								127.4		127.4

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



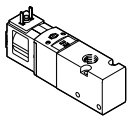
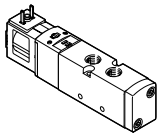
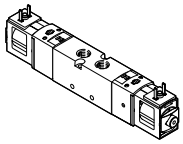
[1] Mounting hole for size 20 [2] Mounting hole for size 25 [3] Mounting hole for size 30

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										

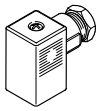
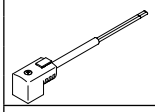
Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-LK25-B52	20.4	17.5	50	40	20	93.1	93.1	56.7	59.3
	VUVS-LK25-M52							44.7		–
	VUVS-LK25-M32							15		–

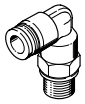
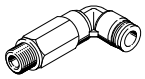
Accessories

★ 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**

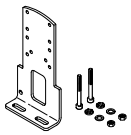
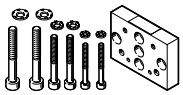
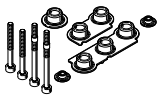
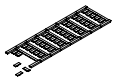
Accessories

Ordering data	Description				Part no.	Type
Cover cap						
	For manual override, non-detenting or covered				**8049539**	**VAMC-B10-25-CH2-S**
Plug socket						
	**Connection pattern type B, industry standard**					
	3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/DC	IP65	**539710**	**MSSD-F-M16**
		Cable connector Pg9			**34431**	**MSSD-F**
Plug socket with cable						
	**Connection 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						
	Connection 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**	**QSLL-G1/4-6**	**10**
		8 mm	**186131**	**QSLL-G1/4-8**	**10**
		10 mm	**186133**	**QSLL-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

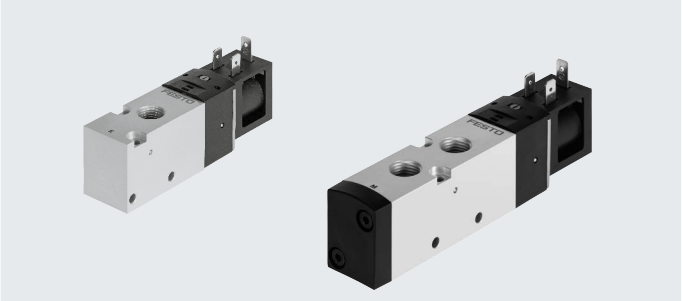
Ordering data	Description	Weight [g]	Part no.	Type
Foot mounting				
	With screw set for attaching the valve to the foot mounting	130	**2293485**	**VAME-B10-25-A**
Wall mounting				
	With screw set for attaching the valve to the wall mounting	53	**576413**	**VAME-B10-20-W**
Assortment of spare parts				
	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	[l/sbar]	7.03		
Pneumatic connection 1, 2, 3		G3/8	G3/8	G3/8
Pneumatic connection 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
	Changeo-ver	–
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	–
	Changeover	–	10
Product weight with solenoid coil	[g]	315	392
Product weight with solenoid coil and plug socket	[g]	339	416

Safety data		
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

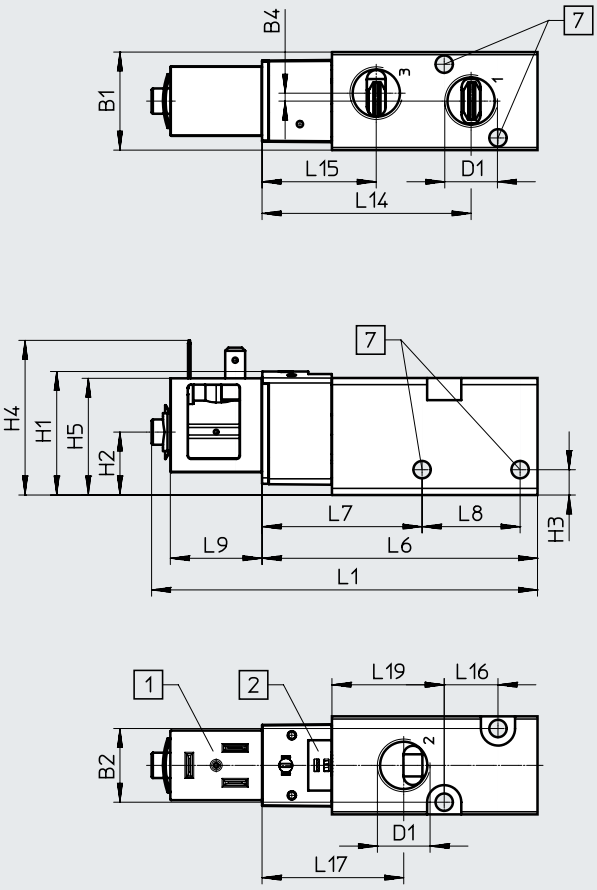
Electrical data		
Electrical connection		Plug type B to industry standard (11 mm)
Operating voltage	[V DC]	24
Permitted voltage fluctuations	[%]	10
Power	[W]	3.3
Duty cycle	[%]	100
Degree of protection to EN 60529		IP65 with plug socket

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

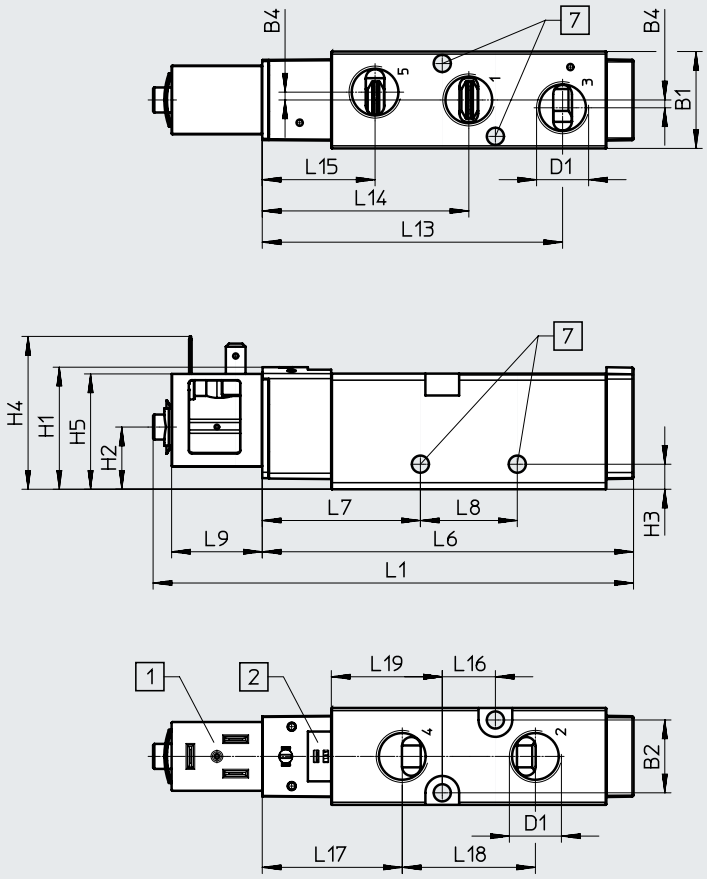
Type	B1	B2	B4	D1	H1	H2	H3	H4	H5
VUVS-LK30-M32C-AD-G38-1B2-S	31	23.3	2.5	G3/8	39.1	19.9	8	48.9	36.9

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

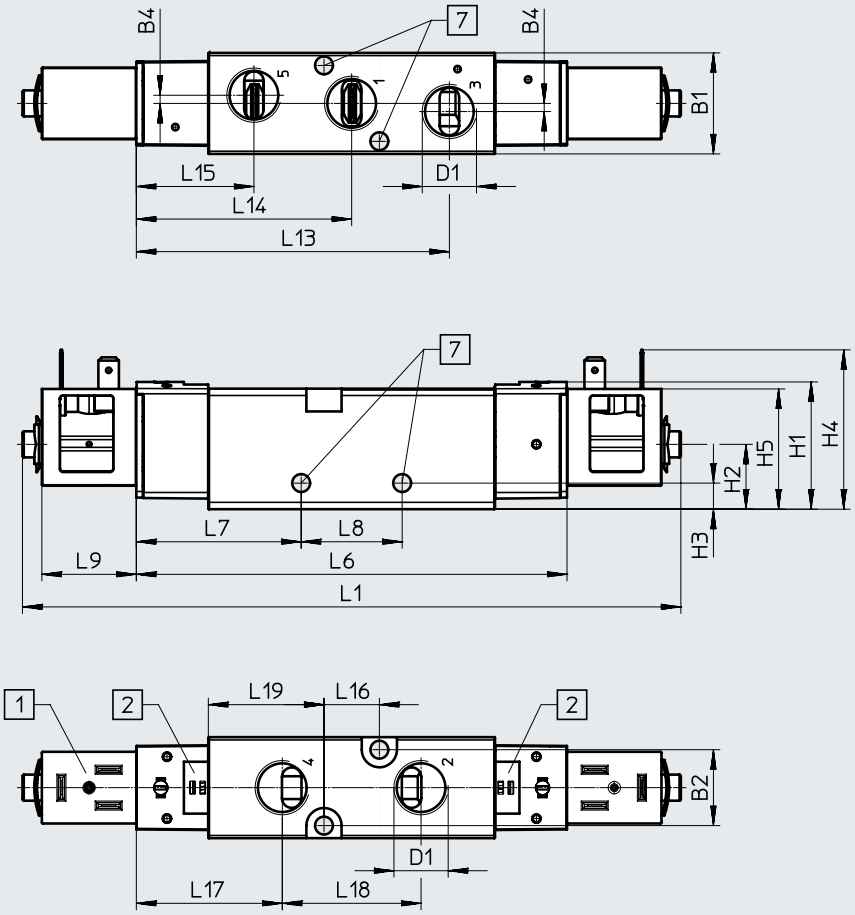
Type	B1	B2	B4	D1	H1	H2	H3	H4	H5
VUVS-LK30-M52-AD-G38-1B2-S	31	23.3	2.5	G3/8	39.1	19.9	8	48.9	36.9

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

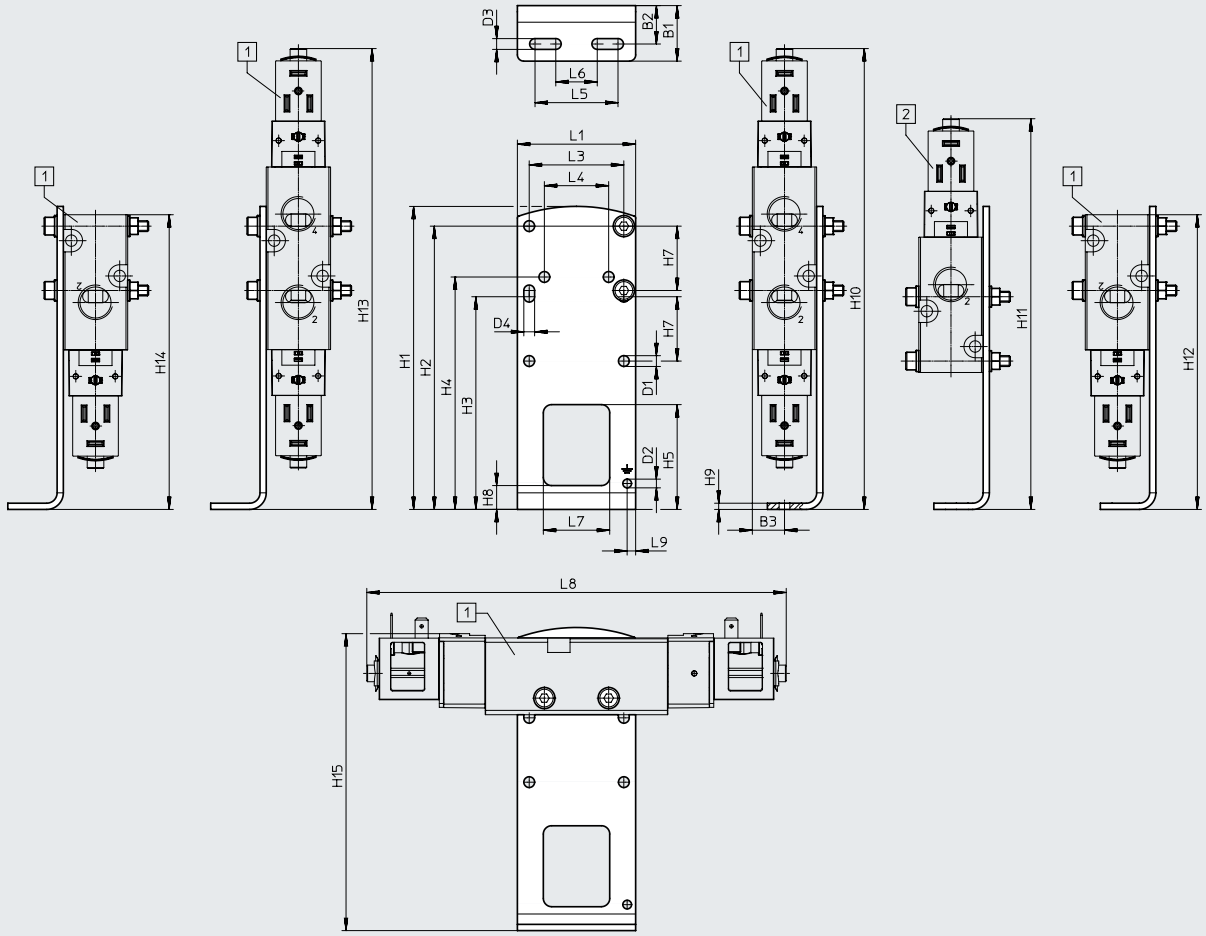
Type	B1	B2	B4	D1	H1	H2	H3	H4	H5
VUVS-LK30-B52-D-G38-1B2-S	31	23.3	2.5	G3/8	39.1	19.9	8	48.9	36.9

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 ⌀	D2 ⌀	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										

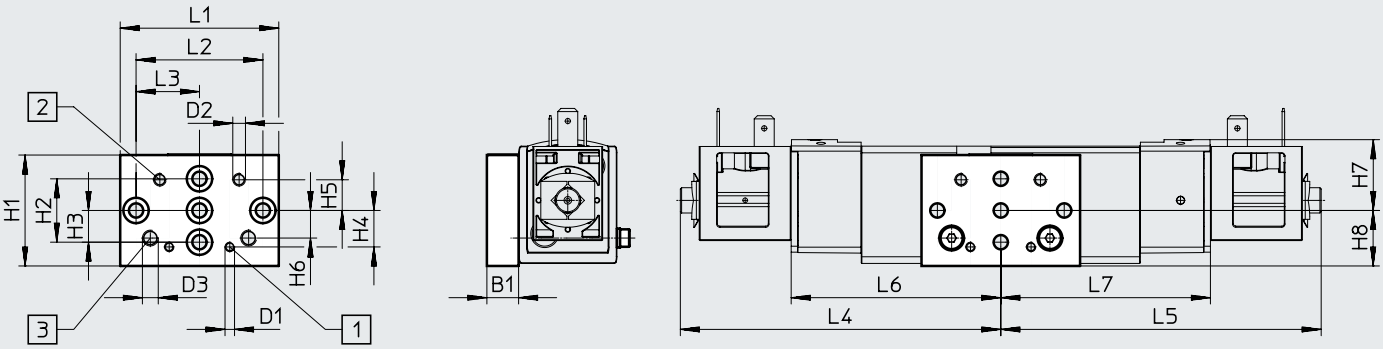
Type		H4	H5	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-30-A	VUVS-LK30-B52	112	50.5	31	11.5	3	222	–	222.1	222	222.1
	VUVS-LK30-M52							188	173.8		173.8
	VUVS-LK30-M32								142.1		142.1

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

Dimensions Download CAD data ➔ www.festo.com

Wall mounting



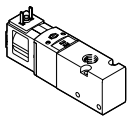
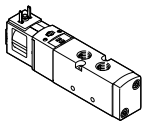
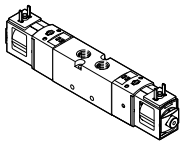
[1] Mounting hole for size 20 [2] Mounting hole for size 25 [3] Mounting hole for size 30

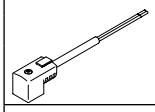
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-LK30-B52	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-LK30-M52										
	VUVS-LK30-M32										

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		–

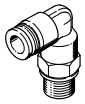
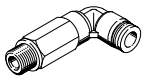
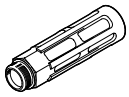
Accessories

★ 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**

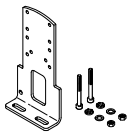
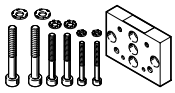
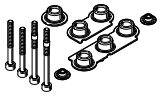
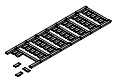
Ordering data	Description				Part no.	Type
Cover cap						
	For manual override, non-detenting or covered				**8049539**	**VAMC-B10-25-CH2-S**
Plug socket						
	Connection pattern type B, industry standard					
	3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/DC	IP65	**539710**	**MSSD-F-M16**
		Cable connector Pg9			**34431**	**MSSD-F**
Plug socket with cable						
	**Connection 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						
	Connection 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**	**QSLL-G3/8-8**	**10**
		10 mm	**186134**	**QSLL-G3/8-10**	**10**
Silencer					
	With connecting thread G, metal version	G3/8	**6843**	**U-3/8-B**	**1**

1) Packaging unit

Accessories

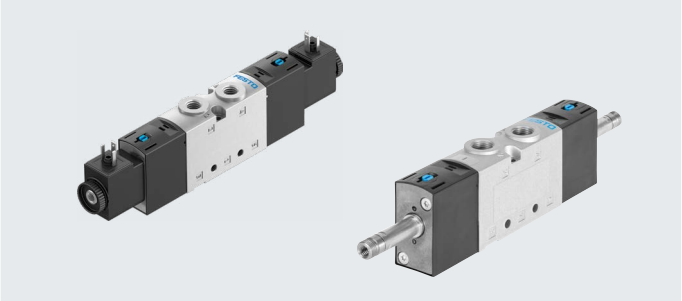
Ordering data	Description	Weight [g]	Part no.	Type
Foot mounting				
	With screw set for attaching the valve to the foot mounting	239	**8026337**	**VAME-B10-30-A**
Wall mounting				
	With screw set for attaching the valve to the wall mounting	53	**576413**	**VAME-B10-20-W**
Assortment of spare parts				
	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 qnN [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	G1/8
Pneumatic connection 4, 5	–	–	G1/8	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	–
	Changeo-ver	–	–	–	–	–	–	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 data		
Max. positive test pulse with logic 0	[ìs]	1900
Max. negative test pulse with logic 1	[ìs]	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	

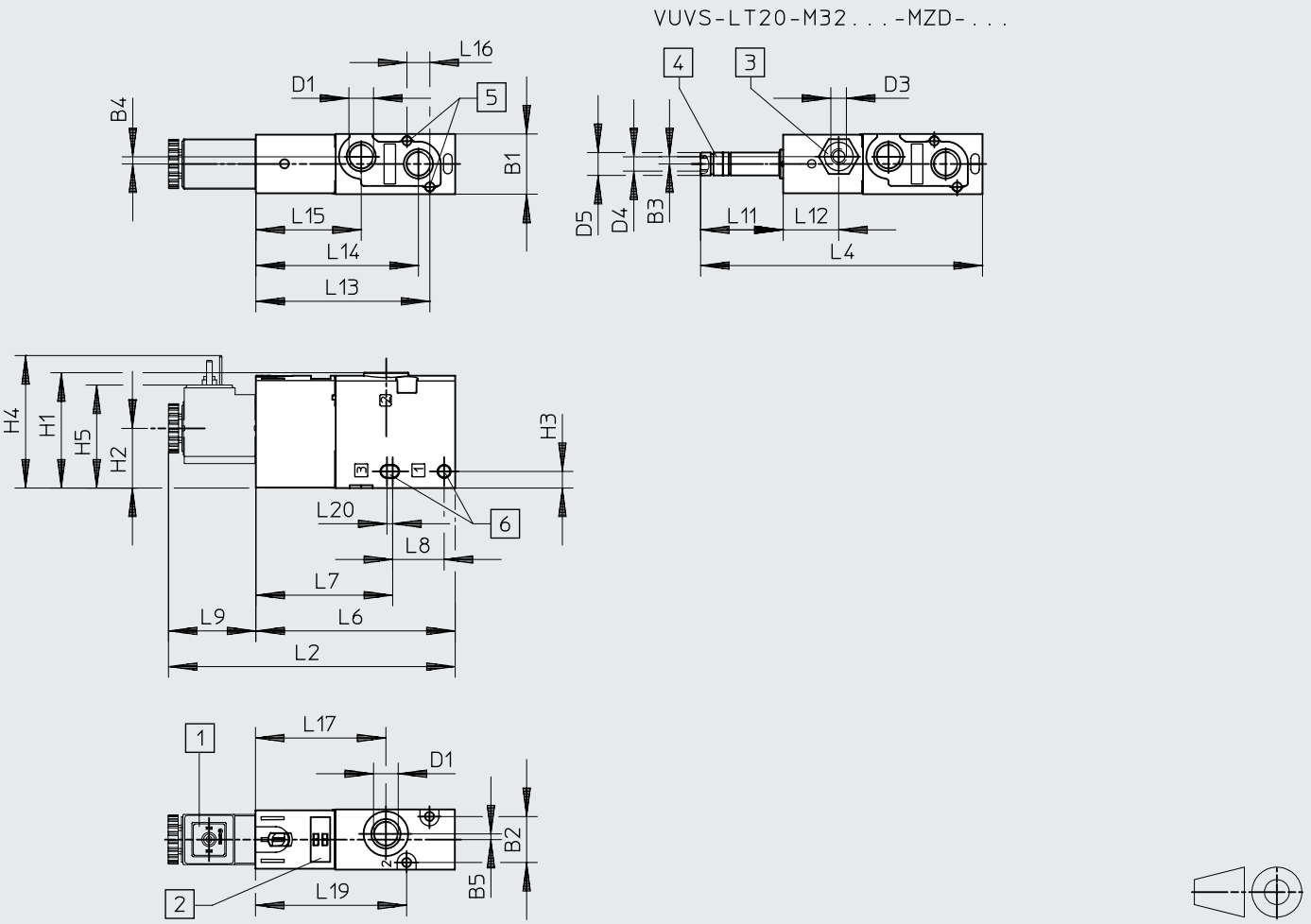
Materials	
Housing	Die-cast aluminium (painted)
Seals	HNBR, NBR, TPE-U(PU)
Screws	Galvanised steel
Note on materials	RoHs-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Datasheet

Dimensions Download CAD data ➔ www.festo.com

3/2-way valves, with solenoid coil

3/2-way valves, without solenoid coil



[1] Solenoid coil interface 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 M3

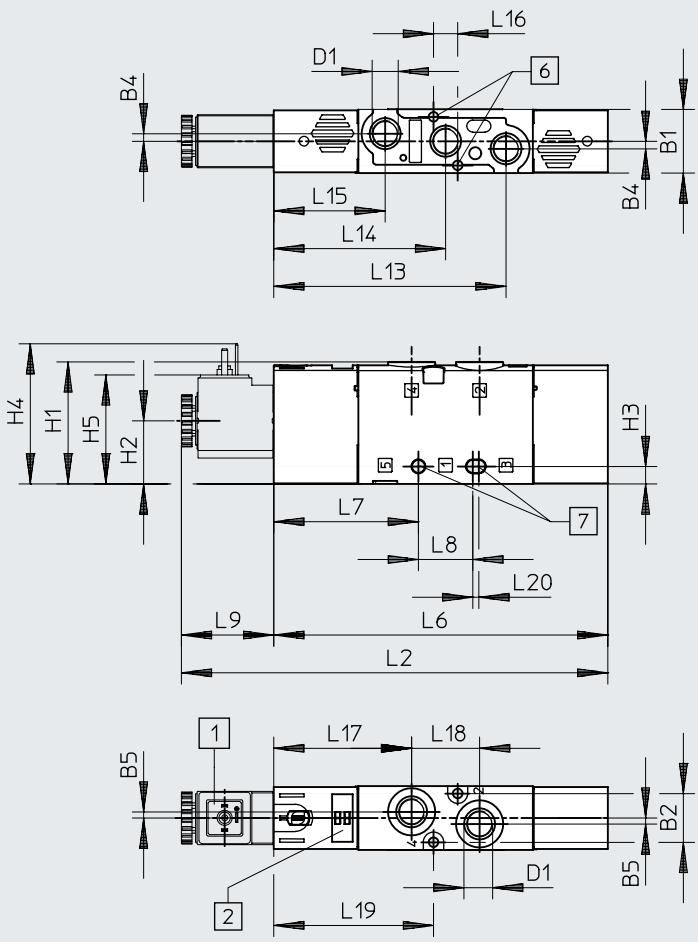
Type	B1	B2	B3	B4	B5	D1	D3	D4	D5 ø	H1	H2	H3	H4	H5
VUVS-LT20-M32...MD-G18-...	21.1	16.1	–	2.5	2	G1/8	–	M5	8	40.4	20.9	6.2	46.7	36.4
VUVS-LT20-M32...MZD-G18-...			2.6				M5							

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						

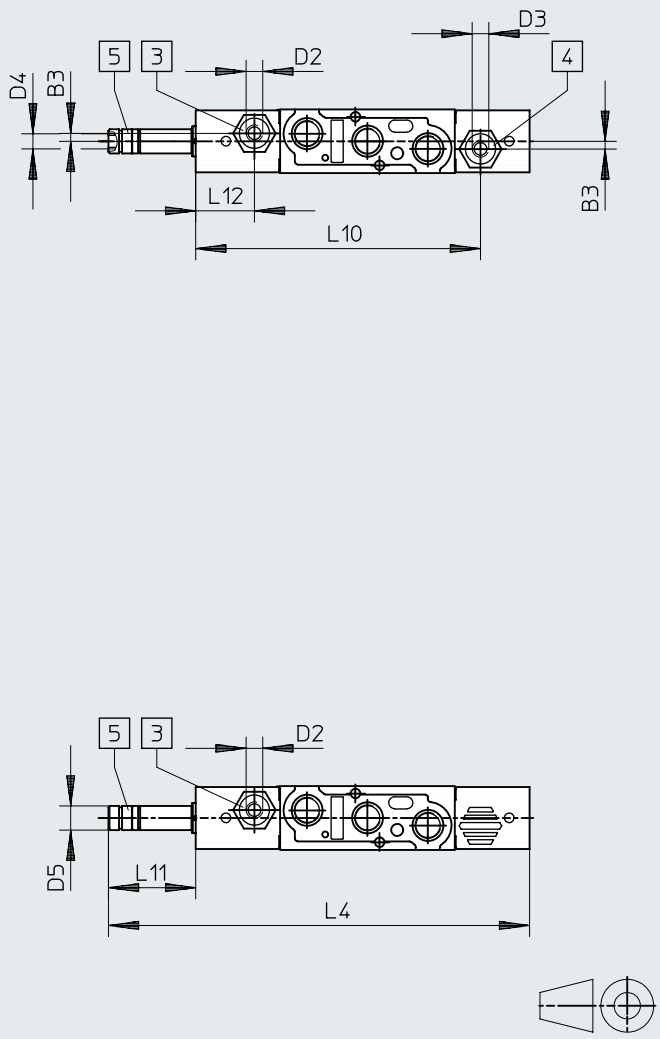
Datasheet

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



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

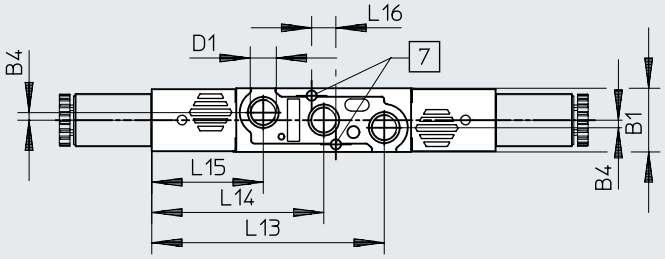
Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5 ⌀	H1	H2	H3	H4	H5
VUVS-LT20-M52-...MD-G18-...	21.1	16.1	–	2.5	2	G1/8	–	–	M5	8	40.4	20.9	5.8	46.7	36.4
VUVS-LT20-M52-...MZD-G18-...			2.6				M5	M5							

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								

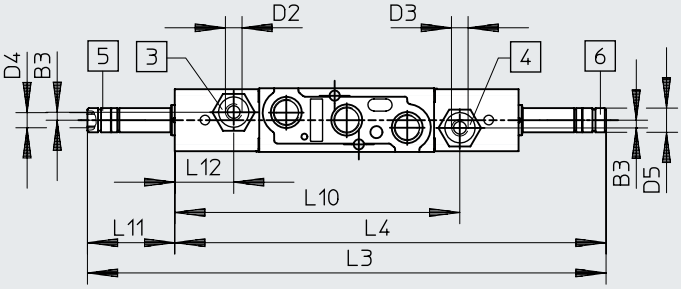
Datasheet

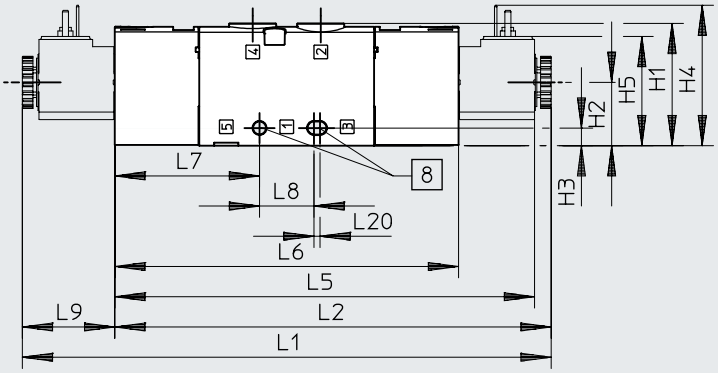
Dimensions Download CAD data ➔ www.festo.com

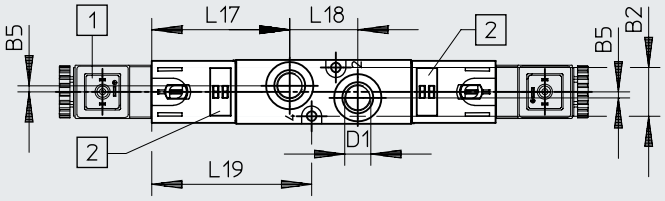
2x 3/2-way valves and 5/2-way double solenoid valves, with solenoid coil

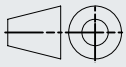


2x 3/2-way valves and 5/2-way double solenoid valves, without solenoid coil









[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 ø	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			

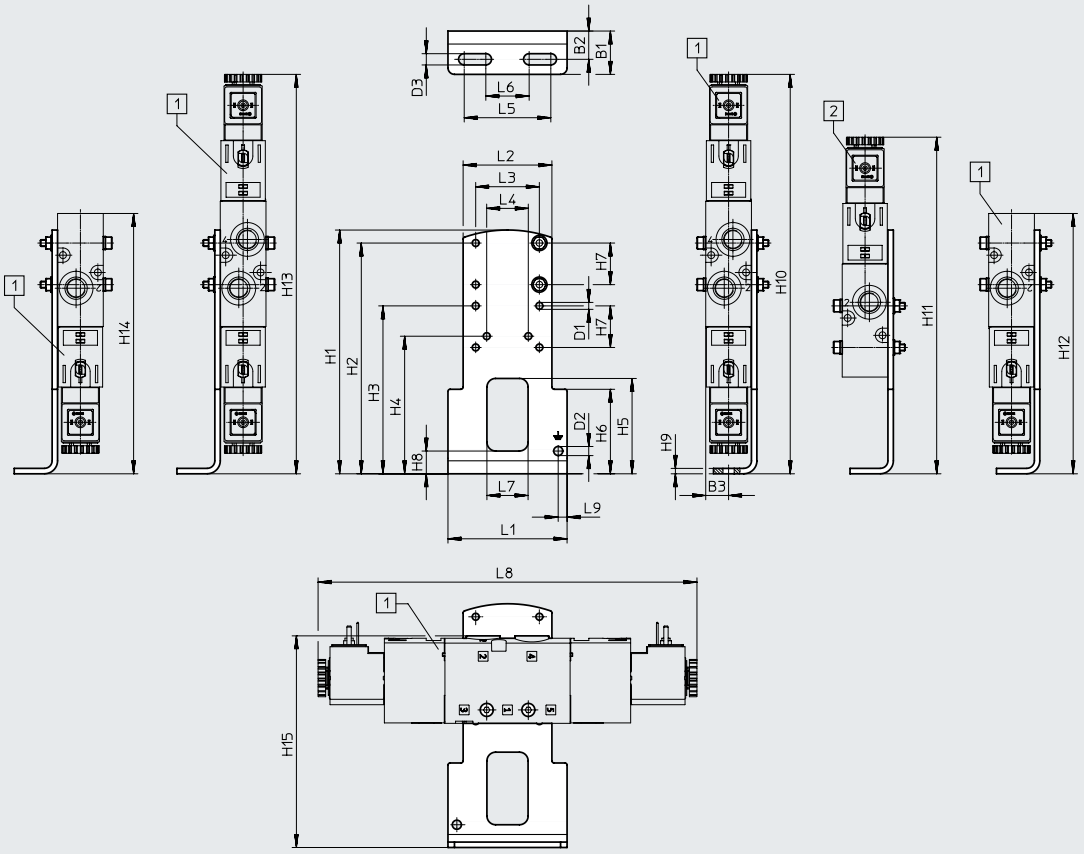
Type	H2	H3	H4	H5	L1	L2	L3	L4	L5	L6	L7	L8
VUVS-LT20-B52-D-G18-...	20.9	5.8	46.7	36.4	174.9	144.3	171.7	142.7	139.1	113.7	47.9	18
VUVS-LT20-B52-ZD-G18-...												
VUVS-LT20-T32...-MD-G18-...												
VUVS-LT20-T32...-MZD-G18-...												

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										

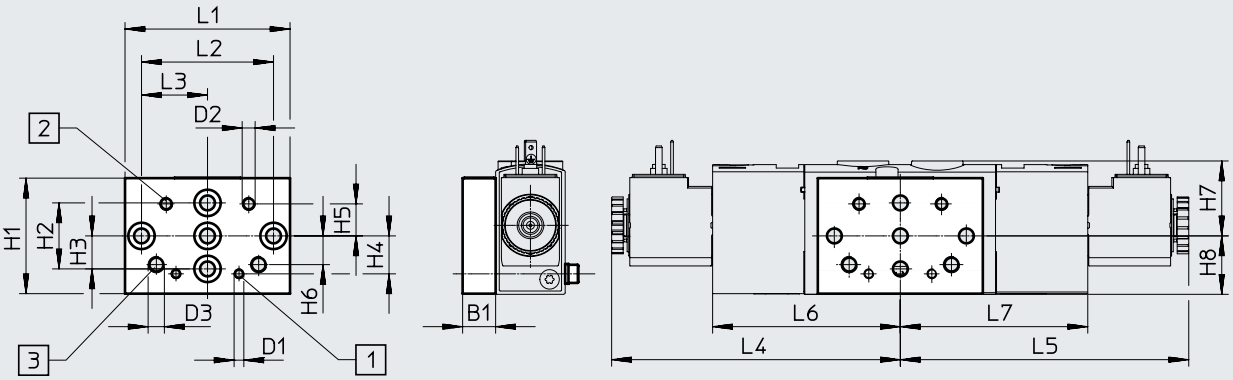
Type		H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-20-A	VUVS-LT20-B52/T32	44	39	19.2	10.5	2.5	184.4	–	184.4	184.4	184.4
	VUVS-LT20-M52							155.4	150.6		150.6
	VUVS-LT20-M32								109.8		109.8

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

Dimensions Download CAD data ➔ www.festo.com

Wall mounting

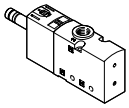
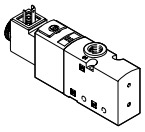
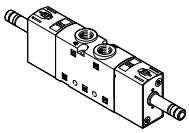


[1] Mounting hole for size 20 [2] Mounting hole for size 25 [3] Mounting hole for size 30

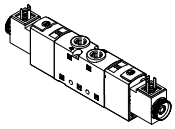
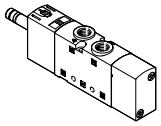
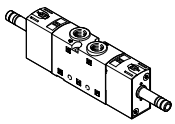
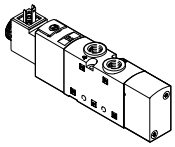
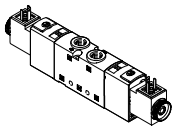
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-LT20-B52/T32	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-LT20-M52										
	VUVS-LT20-M32										

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		

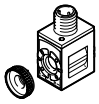
Accessories

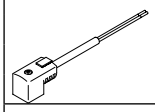
Ordering data	Code	Valve function	Part no.	Type
3/2-way valve without solenoid coil (24 V DC)				
	**Single solenoid, normally closed**			
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	**577490**	**VUVS-LT20-M32C-MD-G18-F7**
		Mechanical spring return, external 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)				
	**Monostable**			
	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**
	**Bistable**			
	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**
	**Bistable**			
	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**

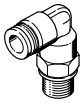
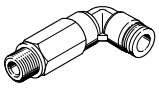
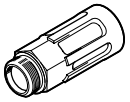
Accessories

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**
	Single plug M8, 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 M8, 3-pin	24 V DC	**8135905**	**VACS-C-R8-1L**
	Single plug M8, 3-pin	24 V DC	**8135909**	**VACS-C-R8-1RAL**
	Single plug M8, 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**
	4-pin, insulation displacement connector	Cable connector M14	0 ... 250 V AC/DC	IP67	**192745**	**MSSD-EB-S-M14**
	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**

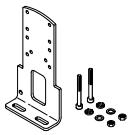
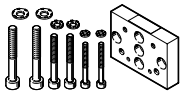
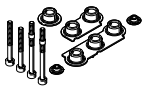
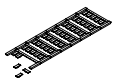
1) Plug socket 230 V AC can be used for 24 V DC without LED configuration.

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**	**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

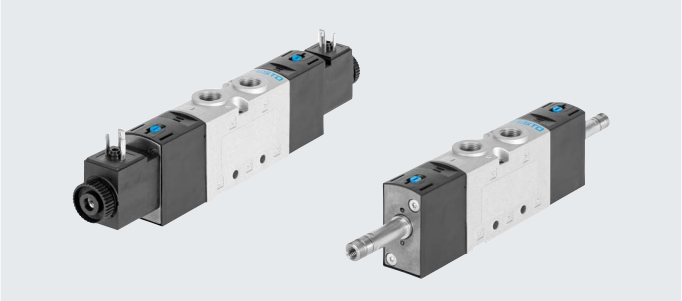
Ordering data	Description	Weight [g]	Part no.	Type
Foot mounting				
	With screw set for attaching the valve to the foot mounting	97	**576412**	**VAME-B10-20-A**
Wall mounting				
	With screw set for attaching the valve to the wall mounting	53	**576413**	**VAME-B10-20-W**
Assortment of spare parts				
	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	G1/4
	4, 5	–	–	G1/4	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	–
	Changeover	–	–	–	–	–	–	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 data		
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

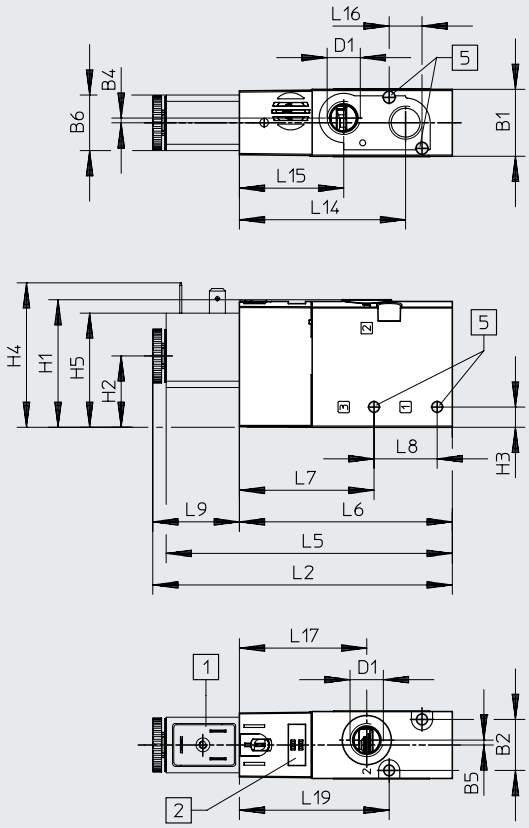
Electrical data			
		With solenoid coil	Without solenoid coil
Electrical connection		Plug type C to EN 175301-803, plug type B to industry standard (11 mm)	Via solenoid coil ➔ Internet: vacf
Operating voltage	[V DC]	24	
Permitted voltage fluctuations	[%]	10	
Power	[W]	3.3	
Duty cycle	[%]	100	
Degree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

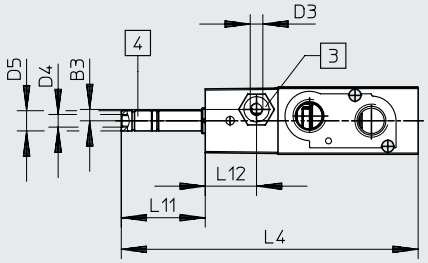
Datasheet

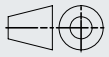
Dimensions Download CAD data ➔ www.festo.com

3/2-way valves, with solenoid coil



3/2-way valves, without solenoid coil





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

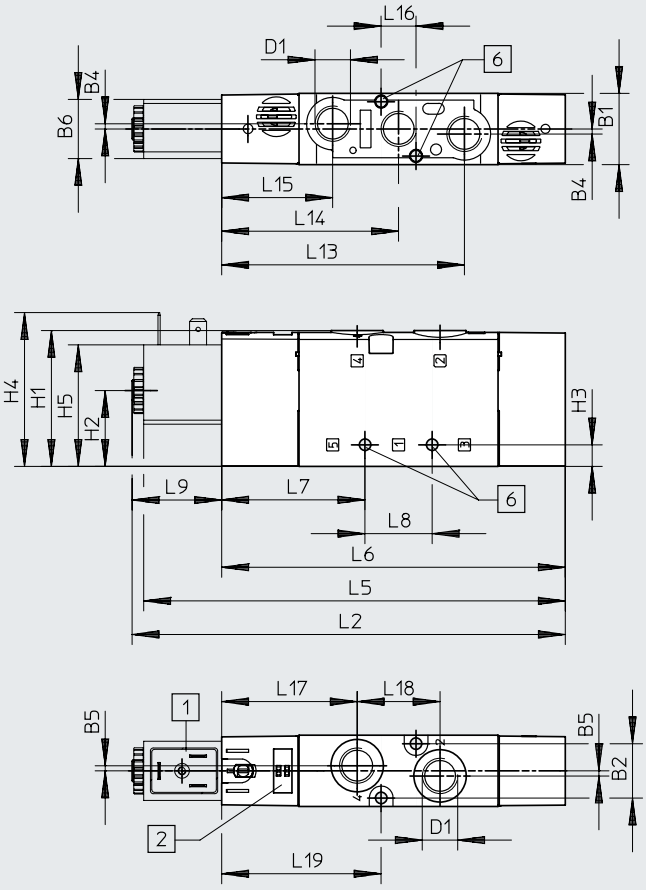
Type	B1	B2	B3	B4	B5	B6	D1	D3	D4	D5 ⌀	H1	H2	H3	H4	H5
VUVS-LT25-M32-...D-G14-...	26.5	20.2	–	1.9	1.9	22	G1/4	–	M5	8	50.5	28.2	8	57.2	45.2
VUVS-LT25-M32-...ZD-G14-...			4.5					M5							

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					

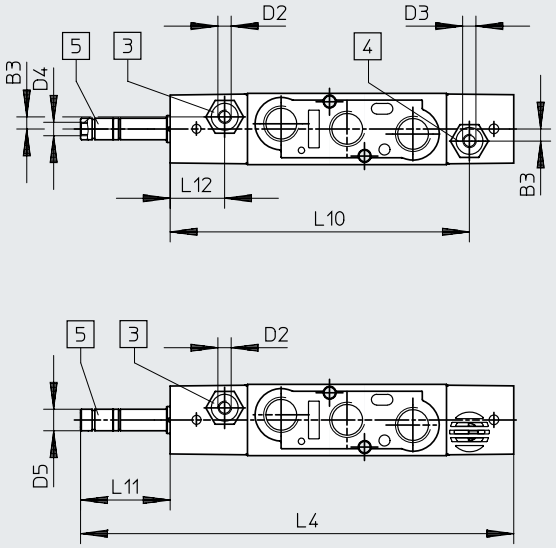
Datasheet

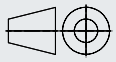
Dimensions Download CAD data ➔ www.festo.com

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



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





[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
[7] For screw M4

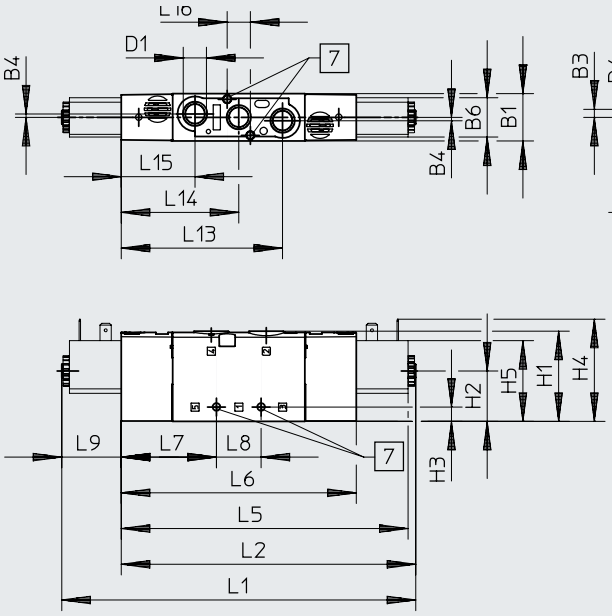
Type	B1	B2	B3	B4	B5	B6	D1	D2	D3	D4	D5 ⌀	H1	H2	H3	H4	H5
VUVS-LT25-M52-...D-G14-...	26.5	20.2	–	1.9	1.9	22	G1/4	–	–	M5	8	50.5	28.2	8	57.2	45.2
VUVS-LT25-M52-...ZD-G14-...			4.5					M5	M5							

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							

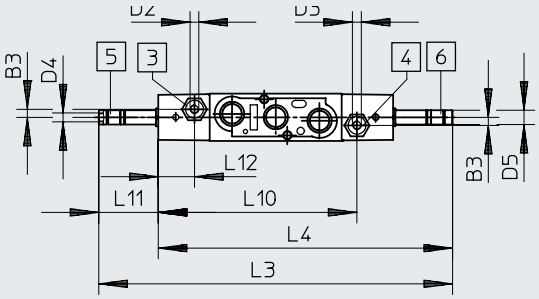
Datasheet

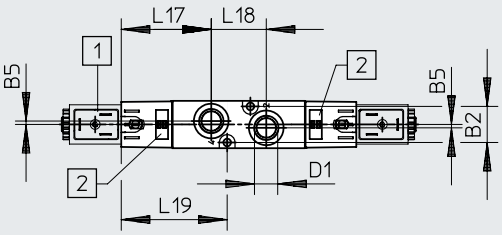
Dimensions Download CAD data ➔ www.festo.com

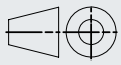
2x 3/2-way valves and 5/2-way double solenoid valves, with solenoid coil



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			

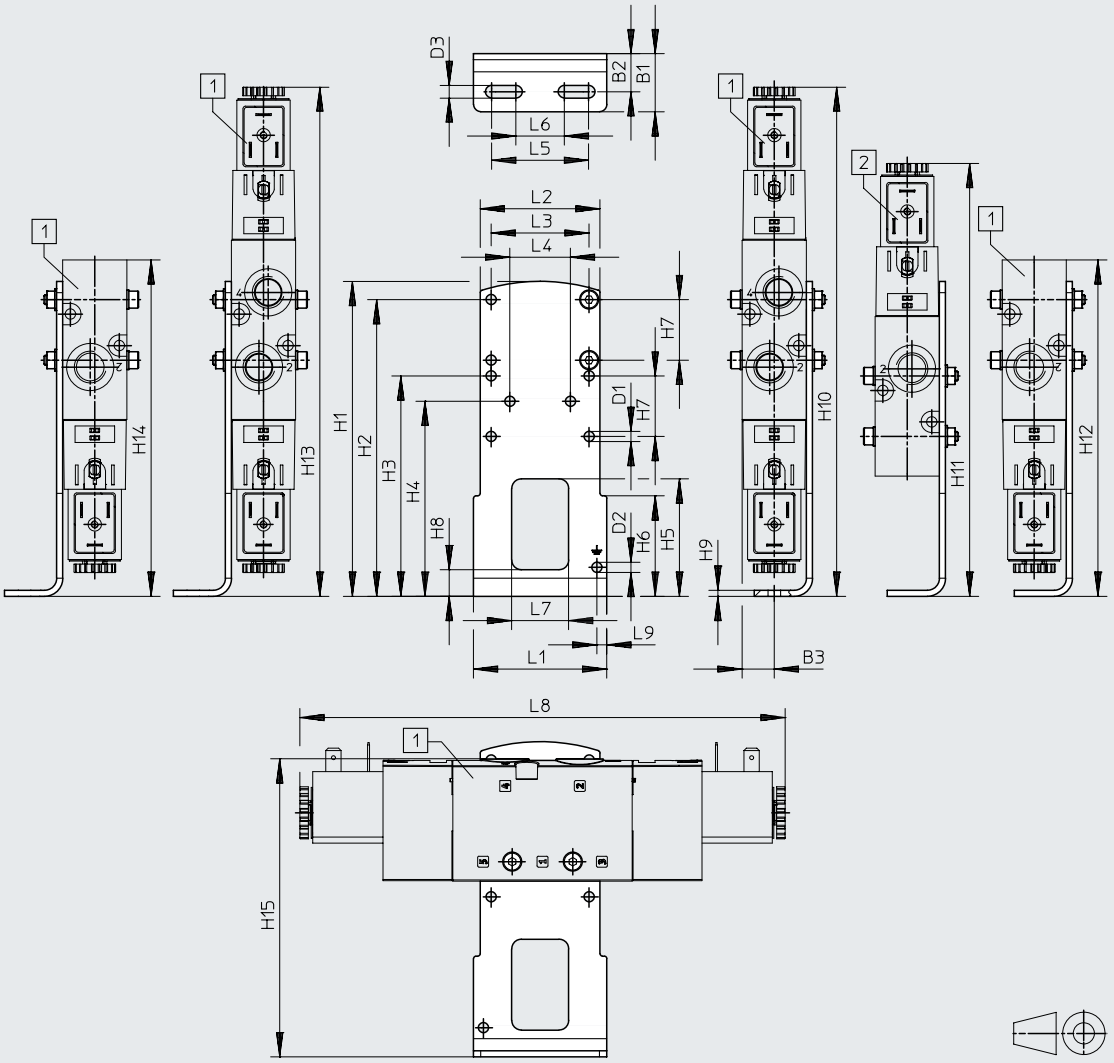
Type	H2	H3	H4	H5	L1	L2	L3	L4	L5	L6	L7	L8
VUVS-LT25-B52-D-G14-...	28.2	8	57.2	45.2	200.3	166	198.2	164.9	160.6	131.6	53.3	25
VUVS-LT25-B52-ZD-G14-...												
VUVS-LT25-T32-MD-G14-...												
VUVS-LT25-T32-MZD-G14-...												

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

Dimensions Download CAD data ➔ www.festo.com

Foot mounting



[1] VUVS-LT25-B52
VUVS-LT25-T32
VUVS-LT25-M52
VUVS-LT25-M32

[2] VUVS-LT25-M52,
VUVS-LT25-M32

Type		B1	B2	B3	D1 ⌀	D2 ⌀	D3	H1	H2	H3	H4
VAME-B10-25-A	VUVS-LT25-B52/T32	24	15.8	13.3	4.2	4.2	5.2	130	122.5	91	80.5
	VUVS-LT25-M52										
	VUVS-LT25-M32										

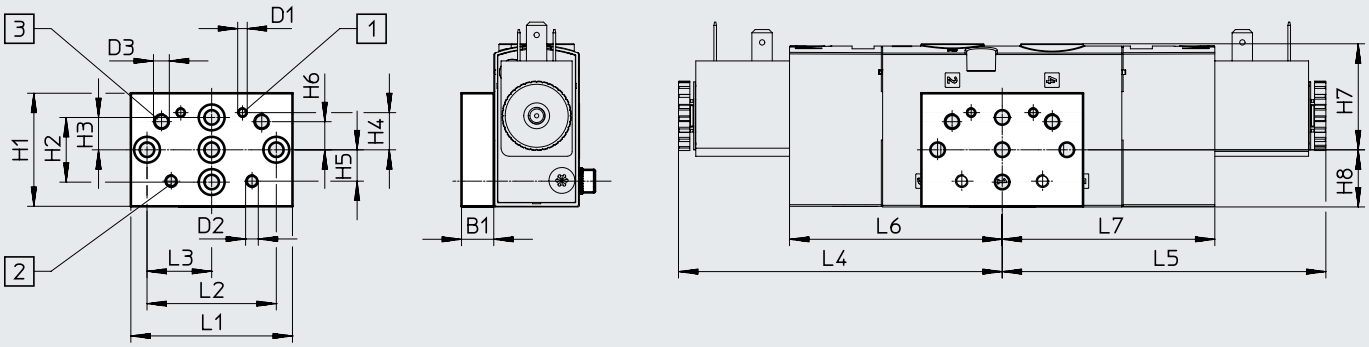
Type		H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-25-A	VUVS-LT25-B52/T32	48.5	41.5	25	11	2.5	210.2	–	210.2	210.2	210.2
	VUVS-LT25-M52							178.7	172		172
	VUVS-LT25-M32								138.9		138.9

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

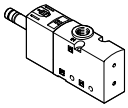
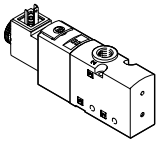


[1] Mounting hole for size 20 [2] Mounting hole for size 25 [3] Mounting hole for size 30

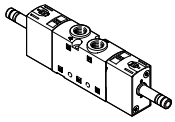
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-LT25-B52/T32	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-LT25-M52										
	VUVS-LT25-M32										

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		

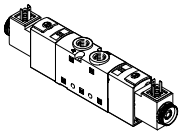
Accessories

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**

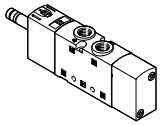
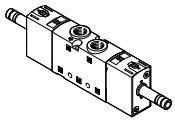
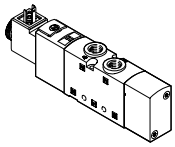
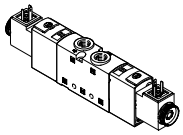
Accessories

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**

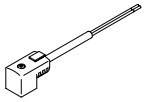
Accessories

Ordering data	Code	Valve function	Part no.	Type
5/2-way valve without solenoid coil				
	**Monostable**			
	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**
	**Bistable**			
	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

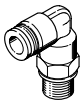
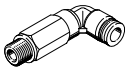
Ordering data				
	Description		Part no.	Type
Solenoid coils for valves				
	Plug pattern type C, to DIN EN 175301-803	12 V DC	**8030810**	**VACF-B-C1-5**
		24 V DC	**8030811**	**VACF-B-C1-1**
		48 V DC	**8030812**	**VACF-B-C1-7**
		24 V AC/50-60 Hz	**8030813**	**VACF-B-C1-1A**
		48 V AC/50-60 Hz	**8030814**	**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 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 M8, 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 M8, 3-pin	24 V DC	**8150874**	**VACF-B-R8-1L**
	Single plug M8, 3-pin	24 V DC	**8150878**	**VACF-B-R8-1RAL**
	Single plug M8, 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**
	4-pin, insulation displacement connector	Cable connector M14	0 ... 250 V AC/DC	IP67	**192745**	**MSSD-EB-S-M14**
	3-pin, angled socket	Cable connector M12	0 ... 24 V DC	IP65	**570367**	**MSSD-EB-M12-24VDC-SD-EX**
	Connection pattern type B, industry standard					
	3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/DC	IP65	**539710**	**MSSD-F-M16**
		Cable connector 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**
	Connection 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**
	Connection pattern type B, industry standard	24 V DC			**19143**	**MF-LD-12-24DC**
		230 V AC			**19144**	**MF-LD-230AC**

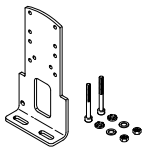
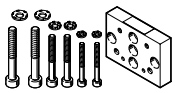
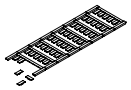
1) Plug socket 230 V AC can be used for 24 V DC without LED configuration.

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**	**QSLL-G1/4-6**	**10**
		8 mm	**186131**	**QSLL-G1/4-8**	**10**
		10 mm	**186133**	**QSLL-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

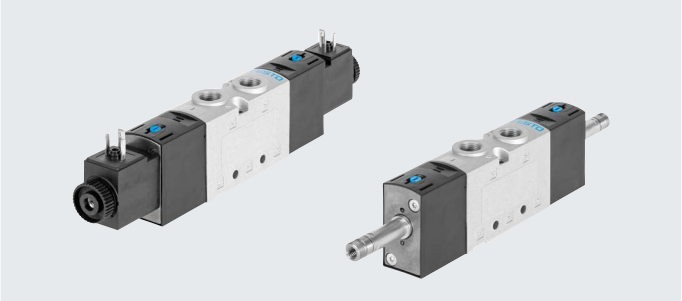
Ordering data	Description	Weight [g]	Part no.	Type
Foot mounting				
	With screw set for attaching the valve to the foot mounting	130	**2293485**	**VAME-B10-25-A**
Wall mounting				
	With screw set for attaching the valve to the wall mounting	53	**576413**	**VAME-B10-20-W**
Assortment of spare parts				
	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 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	13	14	13	14	13	17	–
	Off	32	36	33	35	37	26	–
	Changeover	–	–	–	–	–	–	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 data		
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

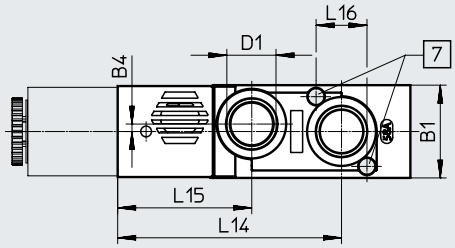
Electrical data		With solenoid coil	Without solenoid coil
Electrical connection		Plug type C to EN 175301-803, plug type B to industry standard (11 mm)	Via solenoid coil ➔ Internet: vacf
Operating voltage	[V DC]	24	
Permitted voltage fluctuations	[%]	10	
Power	[W]	3.3	
Duty cycle	[%]	100	
Degree of protection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

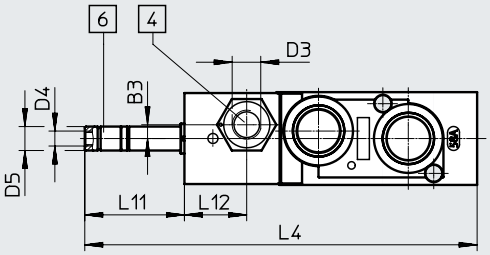
Datasheet

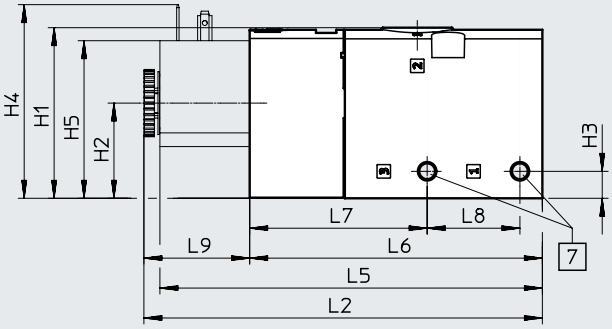
Dimensions Download CAD data ➔ www.festo.com

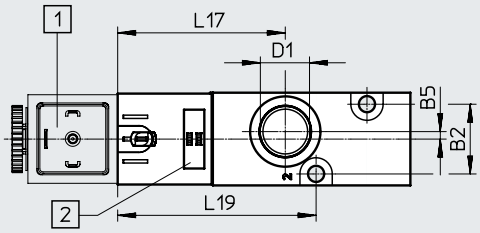
3/2-way valves, with solenoid coil



3/2-way valves, without solenoid coil







[1] Solenoid coil
[2] Space for inscription label
[4] Port 10/12 for pilot air supply
[6] Port 82 for pilot exhaust air
[7] For screw M5

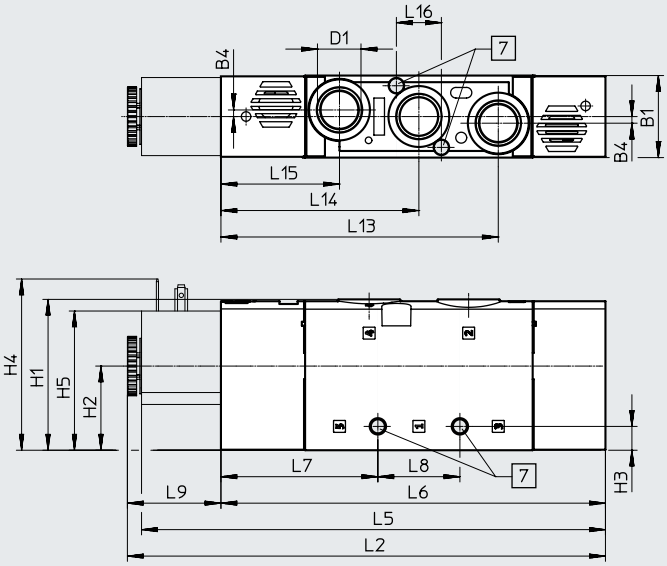
Type	B1	B2	B3	B4	B5	D1	D3	D4	D5 ø	H1	H2	H3	H4	H5
VUVS-LT30-M32...-...D-G38-...	31	23.3	–	2.5	2.5	G3/8	–	M5	8	57	31.8	9	64.7	52.6
VUVS-LT30-M32...-...ZD-G38-...			4.6				G1/8							

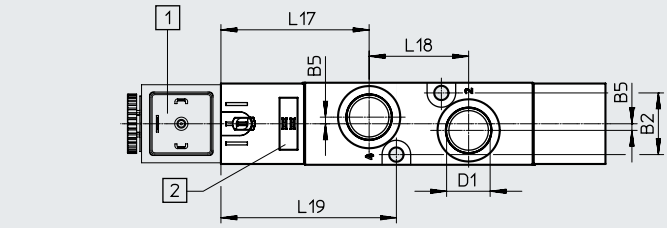
Type	L2	L4	L5	L6	L7	L8	L9	L11	L12	L14	L15	L16	L17	L19
VUVS-LT30-M32...-...D-G38-...	133.2	131.1	127.8	97.8	59.3	31	35.4	33.3	–	74.8	44.8	17	56	66.3
VUVS-LT30-M32...-...ZD-G38-...									20.8					

Datasheet

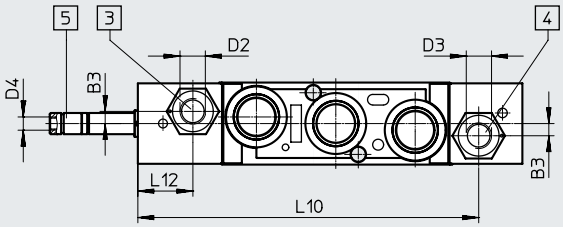
Dimensions Download CAD data ➔ www.festo.com

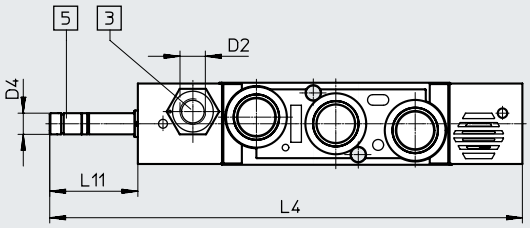
5/2-way single solenoid valves, with solenoid coil





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

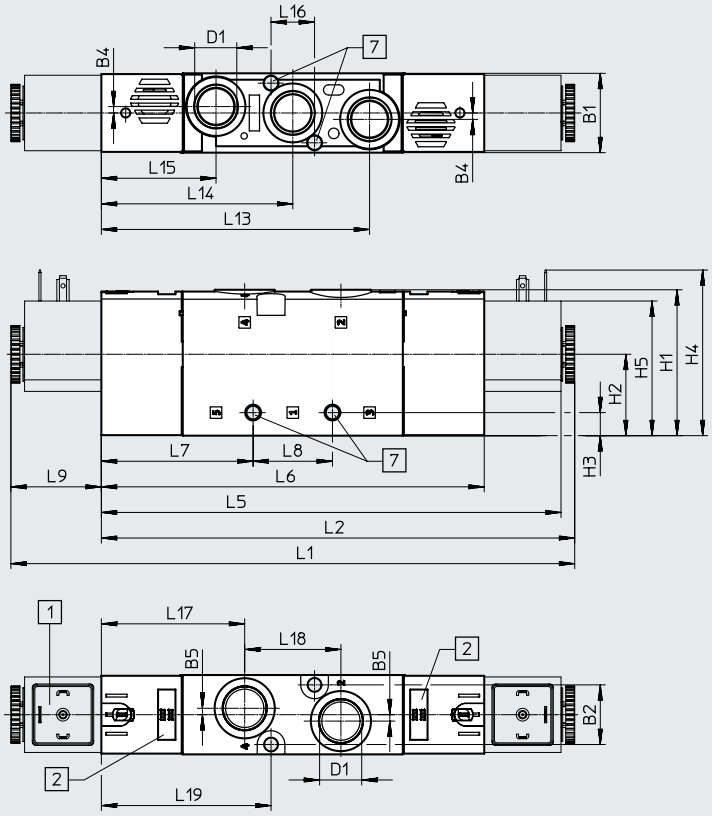
Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5 ⌀	H1	H2	H3	H4	H5
VUVS-LT30-M52-...D-G38-...	31	23.3	–	2.5	2.5	G3/8	–	–	M5	8	57	31.8	9	64.7	52.6
VUVS-LT30-M52-...ZD-G38-...			4.6				G1/8	G1/8							

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							

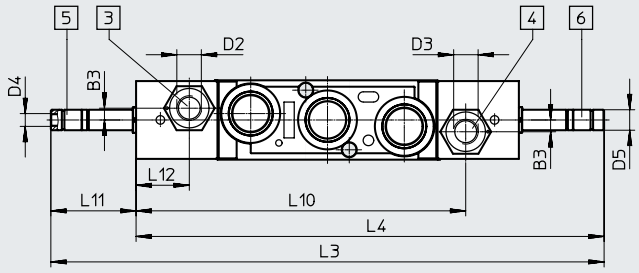
Datasheet

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 ⌀	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							

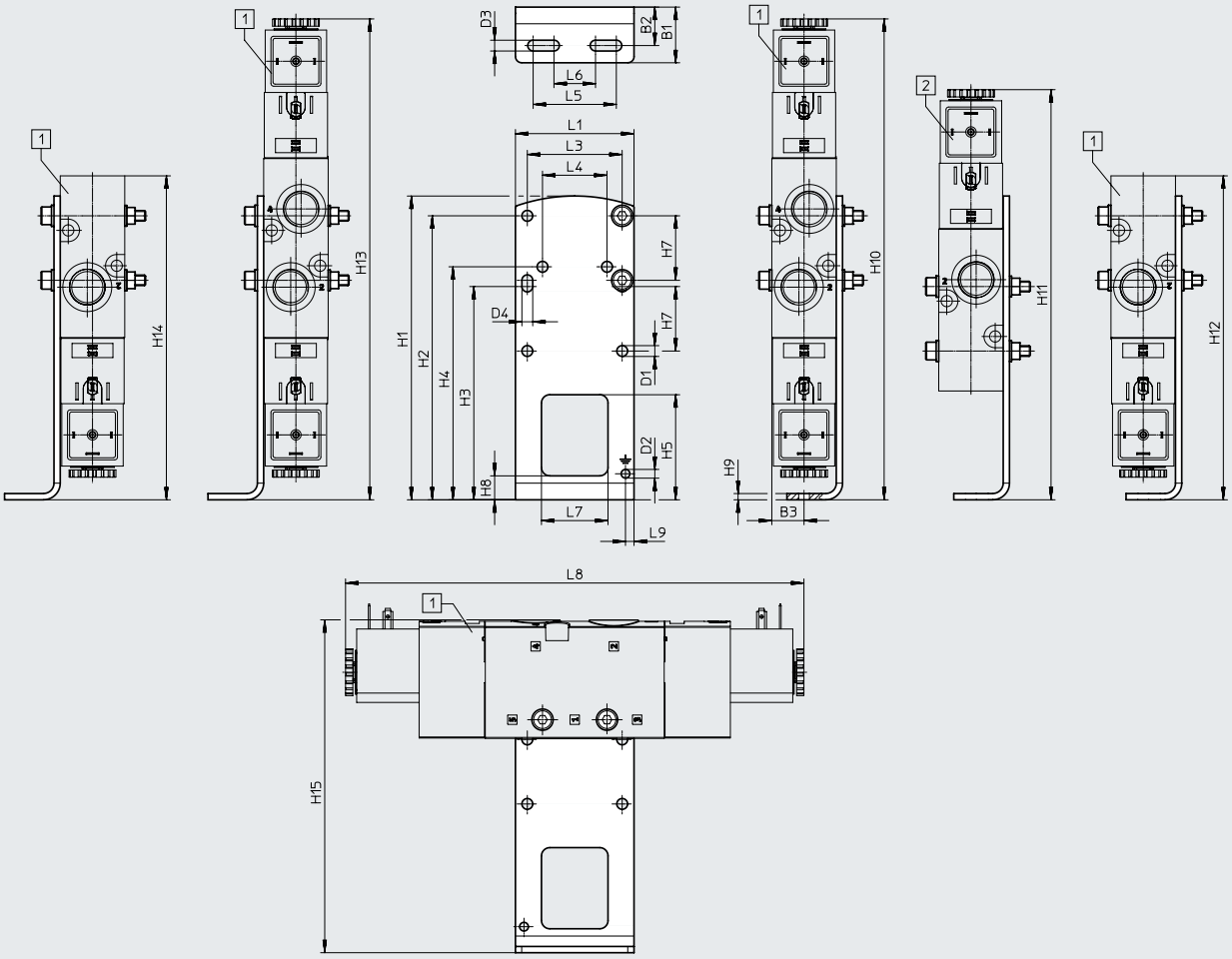
Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
VUVS-LT30-T32...-MD-G38-...	220.3	185	216.2	182.9	179.6	149.6	59.3	31	35.4	–
VUVS-LT30-T32...-MZD-G38-...										128.8
VUVS-LT30-B52-D-G38-...										–
VUVS-LT30-B52-ZD-G38-...										128.8

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										

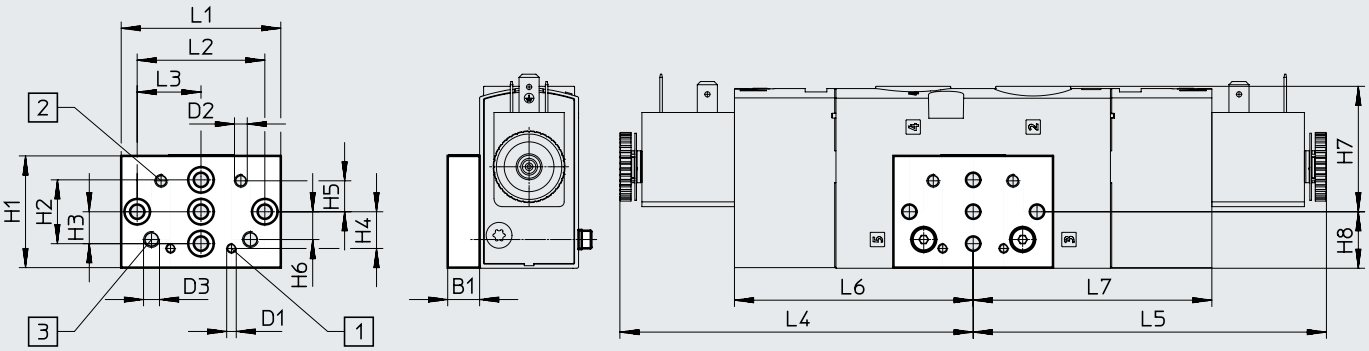
Type		H4	H5	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-30-A	VUVS-LT30-B52/T32	112	50.5	31	11.5	3	231.2	–	231.2	231.2	231.2
	VUVS-LT30-M52							197.2	191.5		191.5
	VUVS-LT30-M32								144		144

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

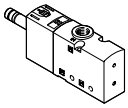
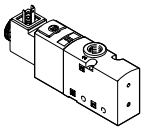


[1] Mounting hole for size 20 [2] Mounting hole for size 25 [3] Mounting hole for size 30

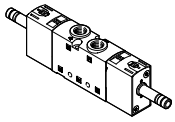
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-LT30-B52/T32	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-LT30-M52										
	VUVS-LT30-M32										

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		

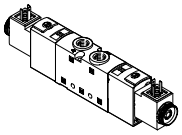
Accessories

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**

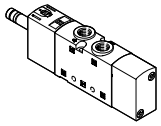
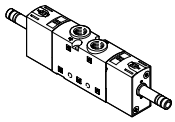
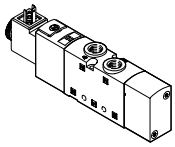
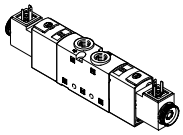
Accessories

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**

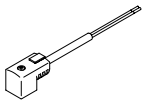
Accessories

Ordering data	Code	Valve function	Part no.	Type
5/2-way valve without solenoid coil				
	**Monostable**			
	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**
	**Bistable**			
	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

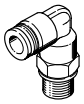
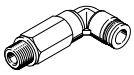
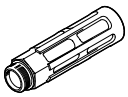
Ordering data						
	Description				Part no.	Type
Solenoid coils for valves						
	Plug pattern type C, to DIN EN 175301-803	12 V DC			**8030810**	**VACF-B-C1-5**
		24 V DC			**8030811**	**VACF-B-C1-1**
		48 V DC			**8030812**	**VACF-B-C1-7**
		24 V AC/50-60 Hz			**8030813**	**VACF-B-C1-1A**
		48 V AC/50-60 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 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 M8, 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 M8, 3-pin	24 V DC			**8150874**	**VACF-B-R8-1L**
	Single plug M8, 3-pin	24 V DC			**8135909**	**VACS-C-R8-1RAL**
	Single plug M8, 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**
	4-pin, insulation displacement connector	Cable connector M14	0 ... 250 V AC/DC	IP67	**192745**	**MSSD-EB-S-M14**
	3-pin, angled socket	Cable connector M12	0 ... 24 V DC	IP65	**570367**	**MSSD-EB-M12-24VDC-SD-EX**
	Connection pattern type B, industry standard					
	3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/DC	IP65	**539710**	**MSSD-F-M16**
		Cable connector 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 connector 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**
	Connection 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**
	Connection pattern type B, industry standard		24 V DC			**19143**	**MF-LD-12-24DC**
			230 V AC			**19144**	**MF-LD-230AC**

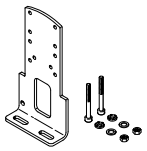
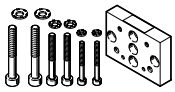
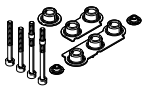
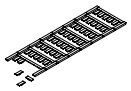
1) Plug socket 230 V AC can be used for 24 V DC without LED configuration.

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

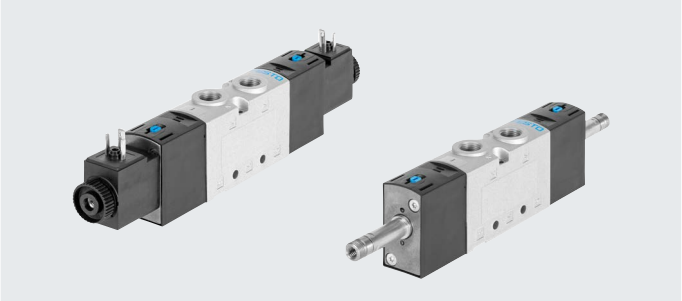
Ordering data	Description	Weight [g]	Part no.	Type
Foot mounting				
	With screw set for attaching the valve to the foot mounting	239	**8026337**	**VAME-B10-30-A**
Wall mounting				
	With screw set for attaching the valve to the wall mounting	53	**576413**	**VAME-B10-20-W**
Assortment of spare parts				
	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	G1/8
	4, 5	–	–	G1/8	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 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 – 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
	Changeover	–	–	–	–
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	–
	Changeover	–	–	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	P53E
Normal position/mid-position		Closed	Pressurised	Exhausted
Stable position		Monostable		
Reset method		Mechanical spring		
Switching times in [ms]	On	13	13	13
	Off	42	42	44
	Changeover	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 data		
Max. positive test pulse with logic 0	[is]	1900 (valves with VACS-C-C1-1)
Max. negative test pulse with logic 1	[is]	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	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)			
Corrosion resistance class CRC[1)]		2			

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

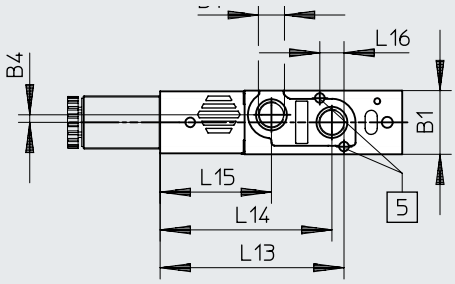
Electrical data			
		With solenoid coil	Without solenoid coil
Electrical connection		Plug type C to EN 175301-803	Via solenoid coil ➔ Internet: vacs
		Single plug M8, 4-pin	
		Single plug M12, A-coded, to EN 61076-2-101	
		Single plug M12, A-coded, pin assignment to DESINA	
		Single plug M8, 3-pin	
Operating 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	

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

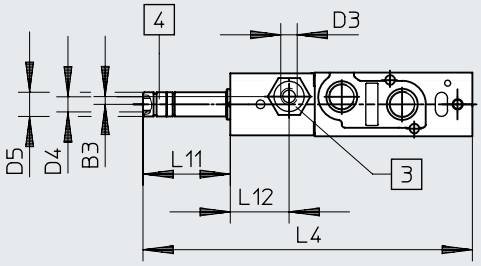
Datasheet

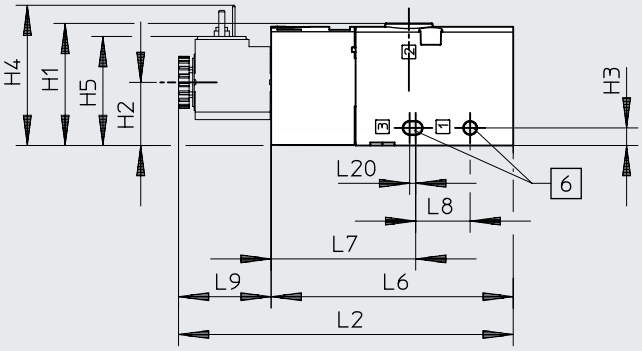
Dimensions Download CAD data ➔ www.festo.com

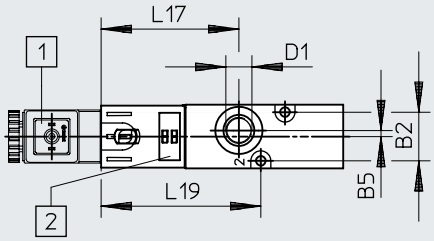
3/2-way valves, with solenoid coil

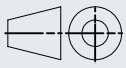


3/2-way valves, without solenoid coil









[1] Solenoid coil interface 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 M3
[6] For screw M4

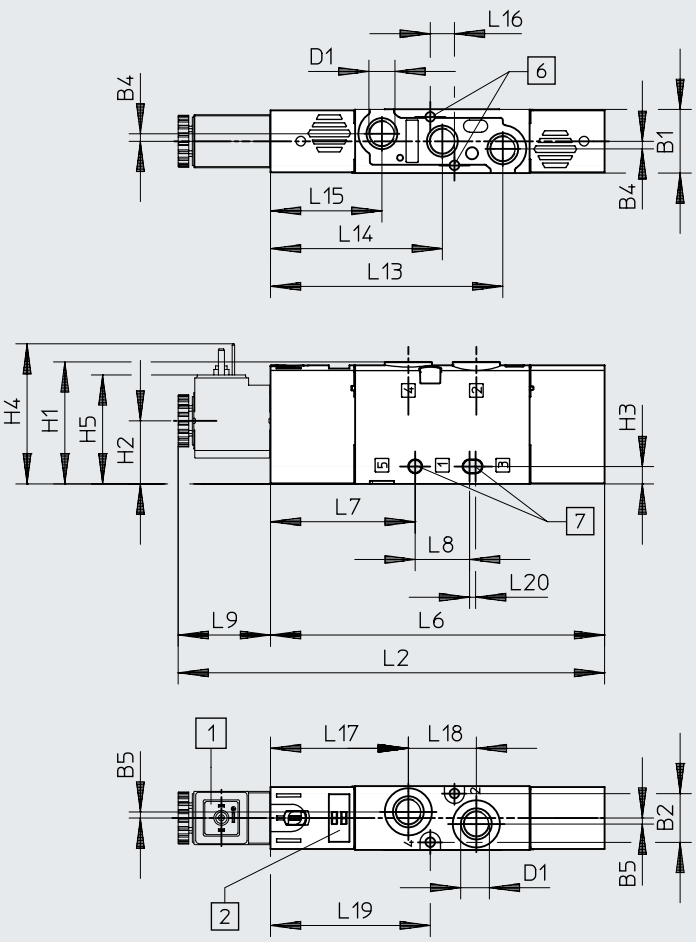
Type	B1	B2	B3	B4	B5	D1	D3	D4	D5 ø	H1	H2	H3	H4	H5
VUVS-L20-M32...-...D-G18-...	21.1	16.1	–	2.5	2	G1/8	–	M5	8	40.4	20.9	5.8	46.7	36.4
VUVS-L20-M32...-...ZD-G18-...			2.6				M5							

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							

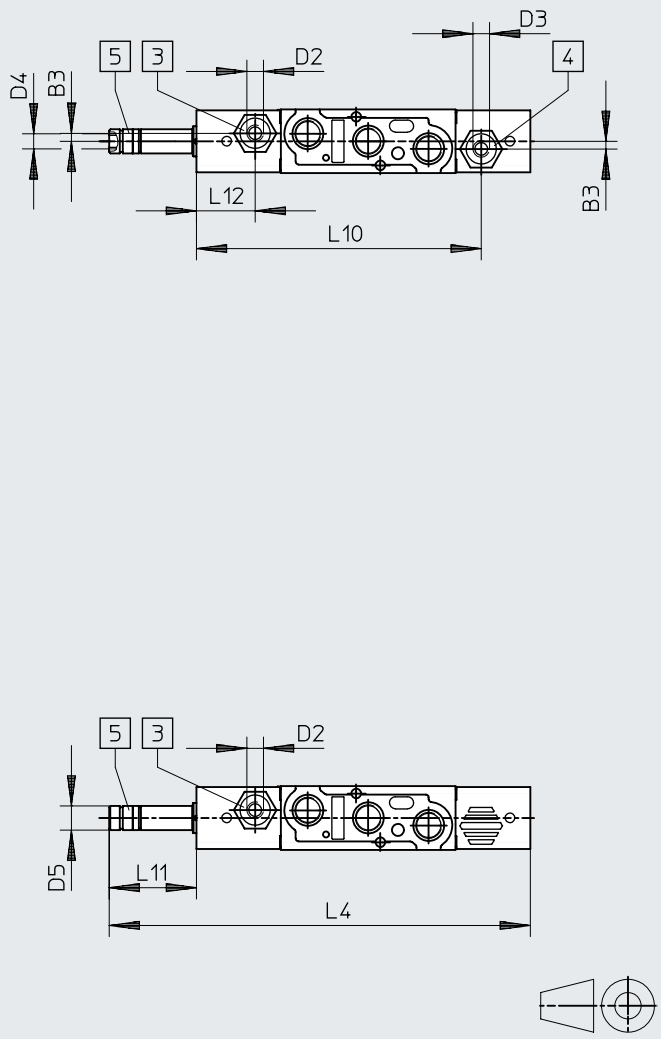
Datasheet

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



[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] For screw M3
[7] For screw M4

Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5 ø	H1	H2	H3	H4	H5
VUVS-L20-M52-...D-G18-...	21.1	16.1	–	2.5	2	G1/8	–	–	M5	8	40.4	20.9	5.8	46.7	36.4
VUVS-L20-M52-...ZD-G18-...			2.6				M5	M5							

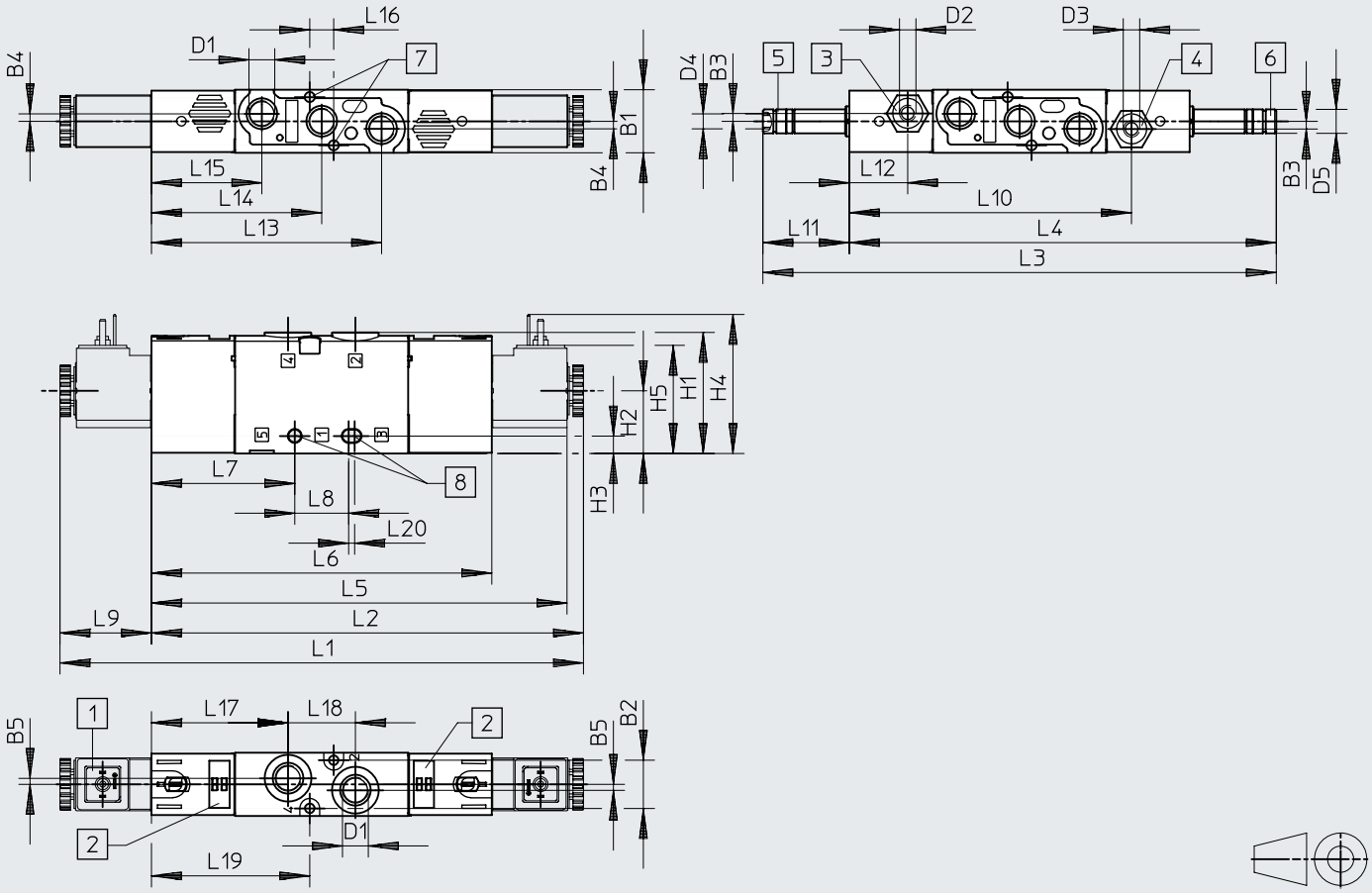
Type	L2	L4	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	L20
VUVS-L20-M52-...D-G18-...	141.2	139.6	110.6	47.9	18	30.6	–	29	–	76.9	56.9	36.9	8	45.6	22.5	52.9	2
VUVS-L20-M52-...ZD-G18-...							94.3		19.5								

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



[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	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							

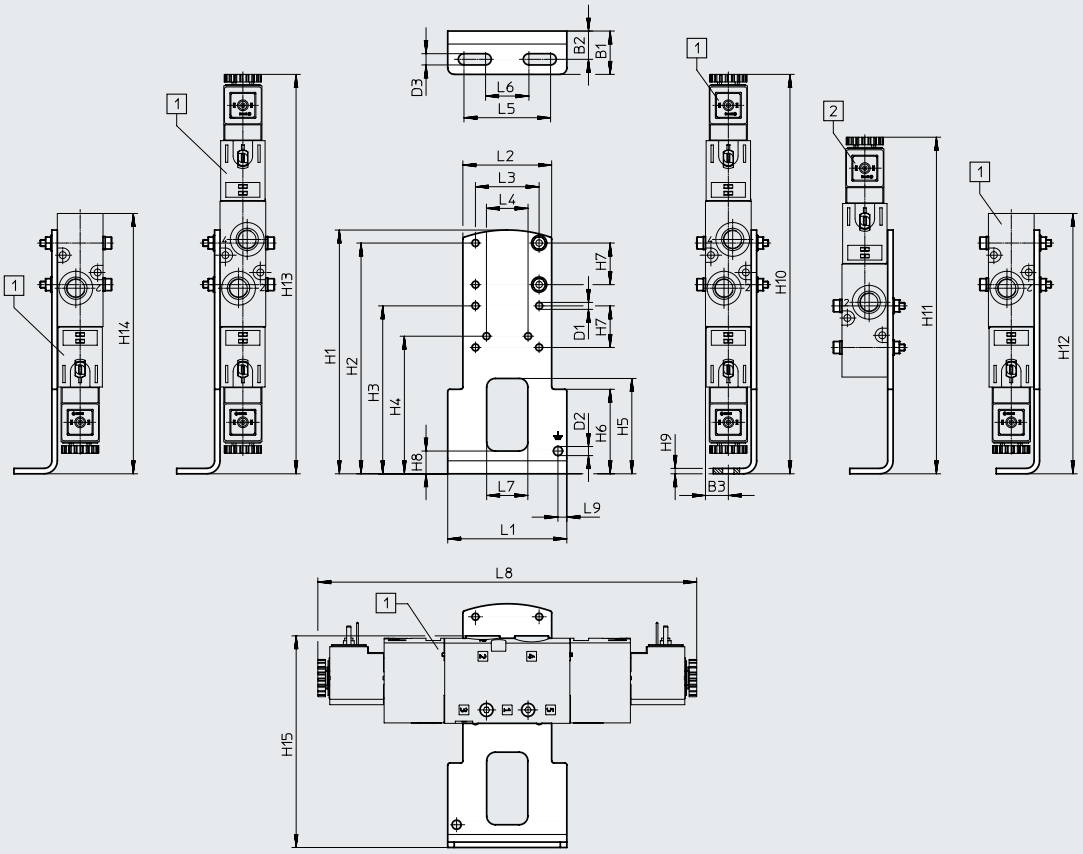
Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
VUVS-L20-P53...-MD-G18-...	174.9	144.3	171.7	142.7	139.1	113.7	47.9	18	30.6	–	29
VUVS-L20-P53...-MZD-G18-...										94.3	
VUVS-L20-B52-D-G18-...										–	
VUVS-L20-B52-ZD-G18-...										94.3	

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										

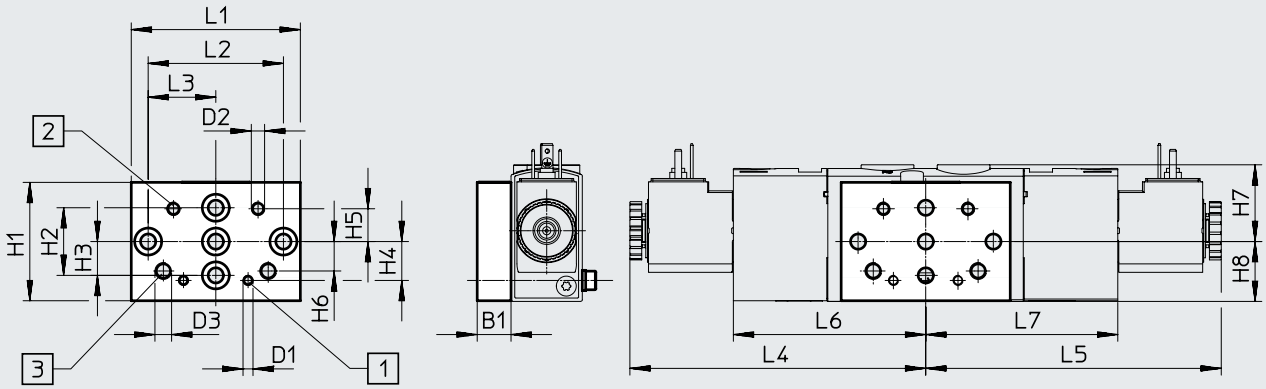
Type		H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-20-A	VUVS-L20-B52/P53	44	39	19.2	10.5	2.5	184.4	–	184.4	184.4	184.4
	VUVS-L20-M52							155.4	150.6		150.6
	VUVS-L20-M32								120.2		120.2

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



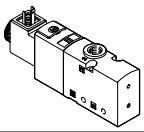
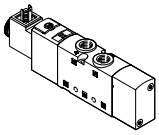
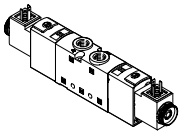
[1] Mounting hole for size 20 [2] Mounting hole for size 25 [3] Mounting hole for size 30

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

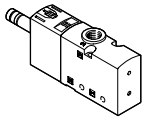
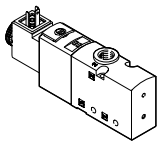
Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-L20-B52/P53	22.7	17.7	50	40	20	87.5	87.5	56.9	56.9
	VUVS-L20-M52							53.7		–
	VUVS-L20-M32							23.3		

Accessories

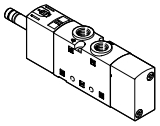
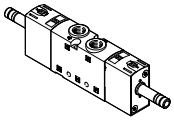
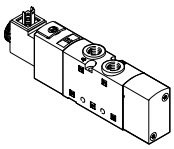
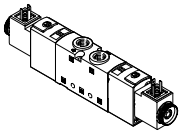
★ Core Range

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**
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**

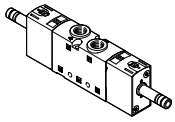
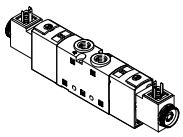
Accessories

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**
		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**

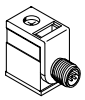
Accessories

Ordering data	Code	Valve function	Part no.	Type
5/2-way valve without solenoid coil				
	**Monostable**			
	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**
	**Bistable**			
	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**
	M52-M	Mechanical spring return, external pilot air supply, reversible flow direction	**575680**	**VUVS-L20-M52-MZD-G18-F7-1C1**
	**Double solenoid, type C**			
	B52	Internal pilot air supply, flow direction not reversible	**575265**	**VUVS-L20-B52-D-G18-F7-1C1**
		External pilot air supply, reversible flow direction	**575683**	**VUVS-L20-B52-ZD-G18-F7-1C1**

Accessories

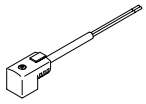
Ordering data				
	Code	Valve function	Part no.	Type
5/3-way valve without solenoid coil				
	**Mid-position closed**			
	P53C	Mechanical spring return, internal pilot air supply, flow direction not reversible	**575254**	**VUVS-L20-P53C-MD-G18-F7**
		Mechanical spring return, external pilot air supply, 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**
	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**

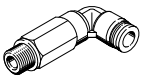
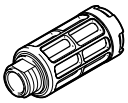
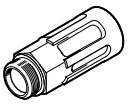
Accessories

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**
	Single plug M8, 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 M8, 3-pin		24 V DC		**8135905**	**VACS-C-R8-1L**
	Single plug M8, 3-pin		24 V DC		**8135909**	**VACS-C-R8-1RAL**
	Single plug M8, 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**
	4-pin, insulation displacement connector	Cable connector M14	0 ... 250 V AC/DC	IP67	**192745**	**MSSD-EB-S-M14**
	3-pin, angled socket	Cable connector M12	0 ... 24 V DC	IP65	**570367**	**MSSD-EB-M12-24VDC-SD-EX**
	Connection pattern type B, industry standard					
	3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/DC	IP65	**539710**	**MSSD-F-M16**
		Cable connector Pg9			**34431**	**MSSD-F**
	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.

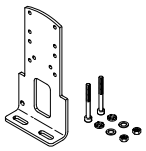
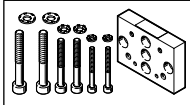
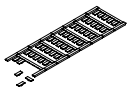
Accessories

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**
	Connection 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**
	Connection 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

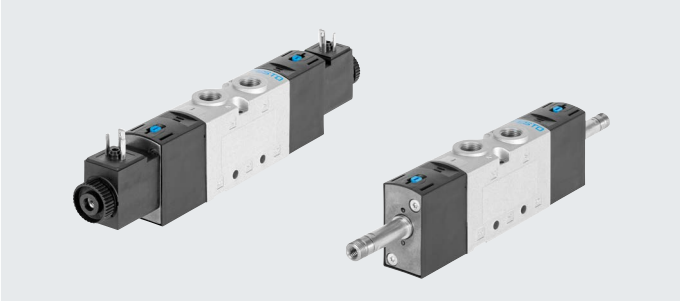
Ordering data	Description		Weight [g]	Part no.	Type
Foot mounting					
	With screw set for attaching the valve to the foot mounting		97	**576412**	**VAME-B10-20-A**
Wall mounting					
	With screw set for attaching the valve to the wall mounting		53	**576413**	**VAME-B10-20-W**
Assortment of spare parts					
	Set comprising seals and screws		10	**8026203**	**VAME-B10-20-MK**
Inscription label					
	Frame with 40 labels		–	**565306**	**ASLR-C-E4**
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 qnN	[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	G1/4
	4, 5	–	–	G1/4	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 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 – 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
	Changeover	–	–	–	–
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	–
	Changeover	–	–	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	P53E
Normal position/mid-position		Closed	Pressurised	Exhausted
Stable position		Monostable		
Reset method		Mechanical spring		
Switching times in [ms]	On	13	14	14
	Off	42	48	48
	Changeover	26	25	25
Product weight without solenoid coil	[g]	324	324	324
Product weight with solenoid coil	[g]	430	430	430

Safety data		
Max. positive test pulse with logic 0	[ìs]	2000 (valves with VACF-B-...-1)
Max. negative test pulse with logic 1	[ìs]	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

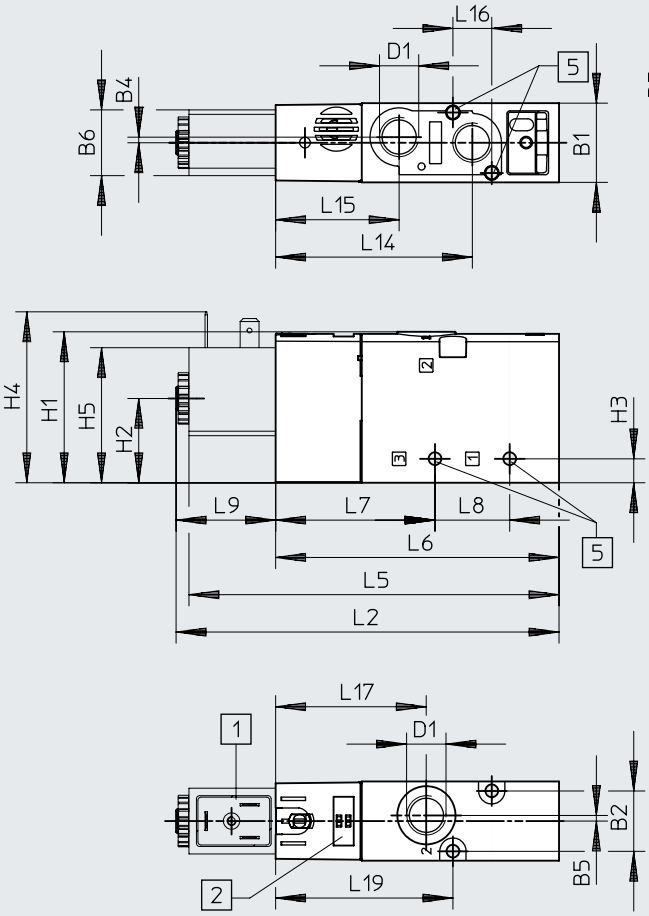
Electrical data			
		With solenoid coil	Without solenoid coil
Electrical connection		Plug type C to EN 175301-803, plug type B to industry standard (11 mm)	Via solenoid coil ➔ Internet: vacf
		Single plug M8, 4-pin	
		Single plug M12, A-coded, to EN 61076-2-101	
		Single plug M12, A-coded, pin assignment 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

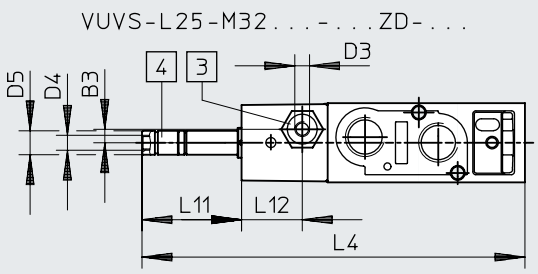
Datasheet

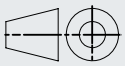
Dimensions Download CAD data ➔ www.festo.com

3/2-way valves, with solenoid coil



3/2-way valves, without solenoid coil





[1] Solenoid coil interface type B/ type C
[2] Space for inscription label
[3] Port 10/12 for pilot air supply
[4] Port 82 for pilot exhaust air
[5] For screw M4

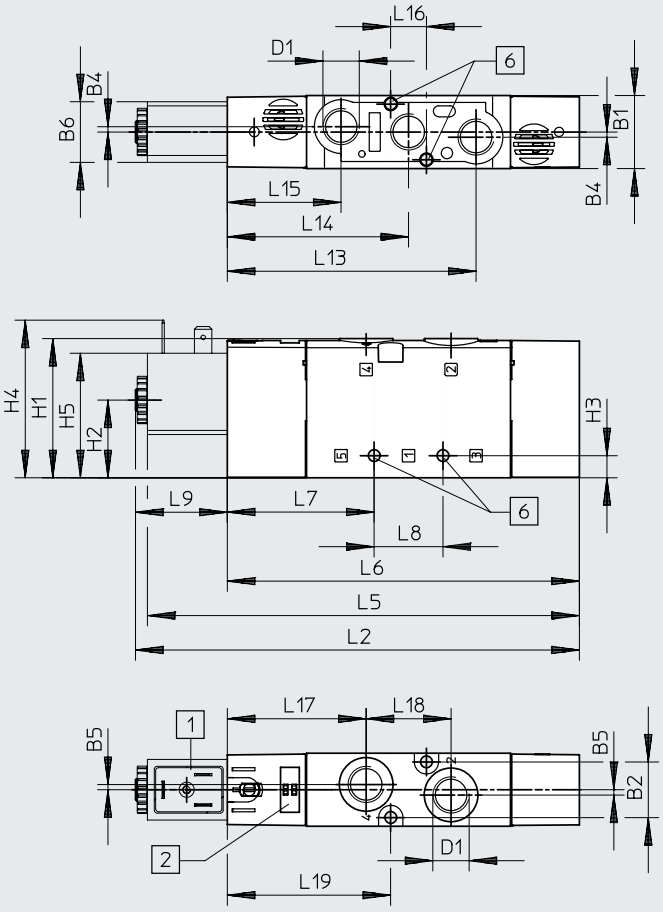
Type	B1	B2	B3	B4	B5	B6	D1	D3	D4	D5 ø	H1	H2	H3	H4	H5
VUVS-L25-M32...-...D-G14-...	26.5	20.2	–	1.9	1.9	22	G1/4	–	M5	8	50.5	28.2	8	57.2	45.2
VUVS-L25-M32...-...ZD-G14-...			4.5					M5							

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					

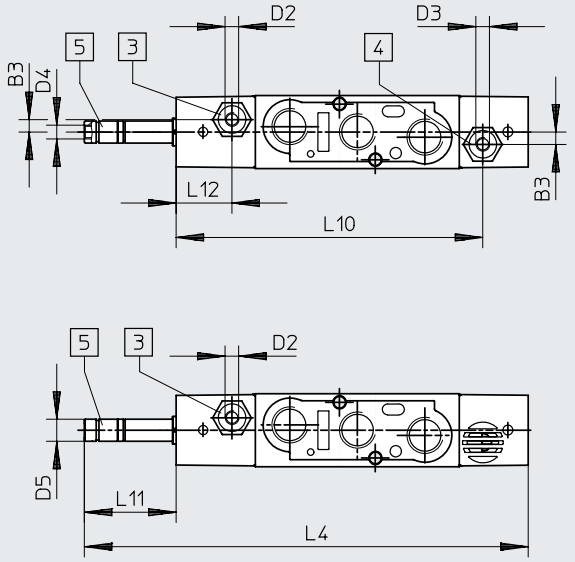
Datasheet

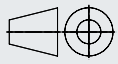
Dimensions Download CAD data ➔ www.festo.com

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

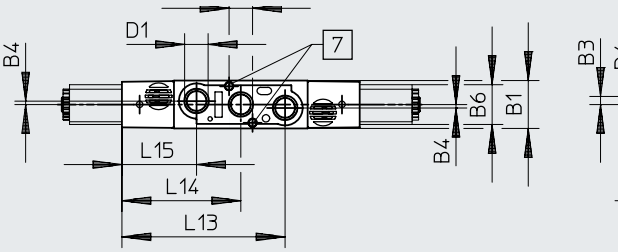
Type	B1	B2	B3	B4	B5	B6	D1	D2	D3	D4	D5 ⌀	H1	H2	H3	H4	H5
VUVS-L25-M52-...D-G14-...	26.5	20.2	–	1.9	1.9	22	G1/4	–	–	M5	8	50.5	28.2	8	57.2	45.2
VUVS-L25-M52-...ZD-G14-...			4.5					M5	M5							

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							

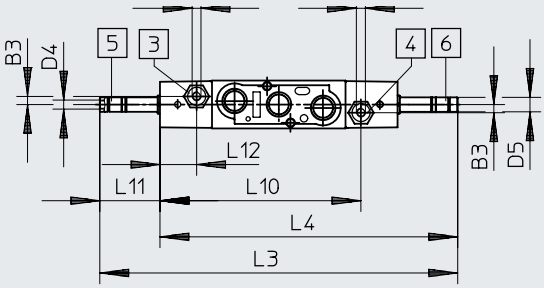
Datasheet

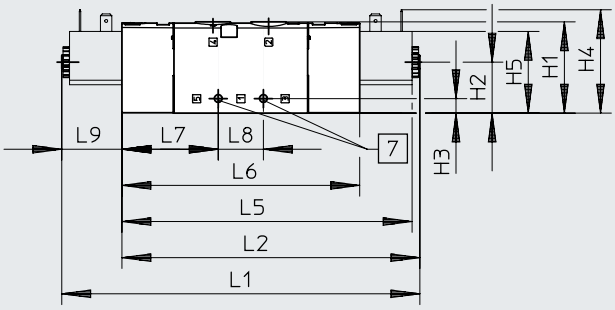
Dimensions Download CAD data ➔ www.festo.com

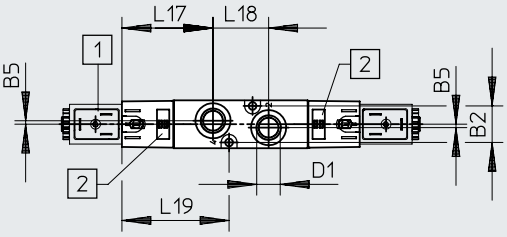
5/3-way valves and 5/2-way double solenoid valves, with solenoid coil

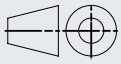


5/3-way valves and 5/2-way double solenoid valves, without solenoid coil









[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 ⌀	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

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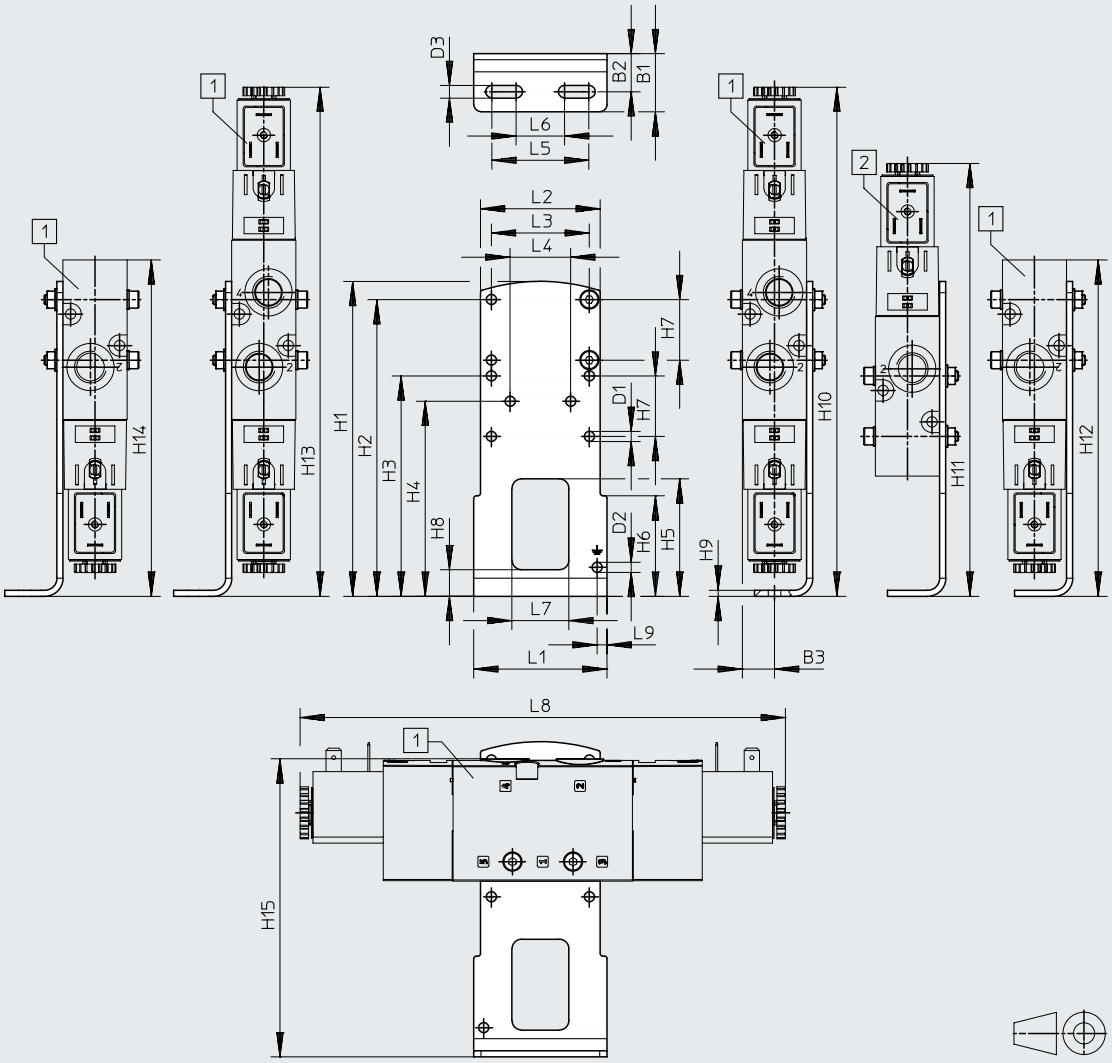
Foot mounting



[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										

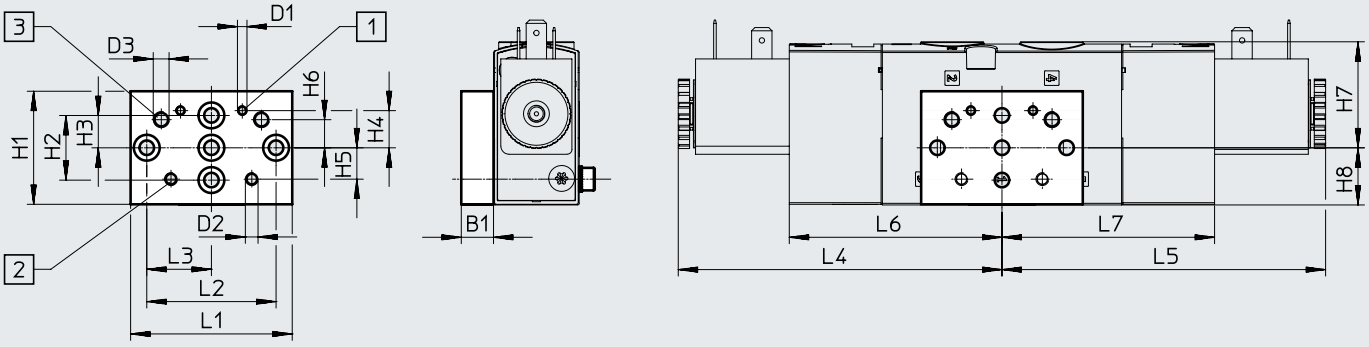
Type		H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-25-A	VUVS-L25-B52/P53	48.5	41.5	25	11	2.5	210.2	–	210.2	210.2	210.2
	VUVS-L25-M52							178.7	172		172
	VUVS-L25-M32								138.9		138.9

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

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

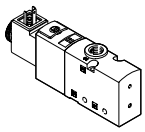
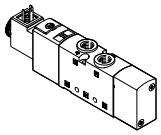
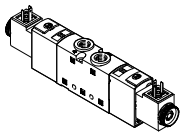
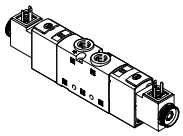
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-L25-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-L25-M52										
	VUVS-L25-M32										

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		

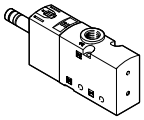
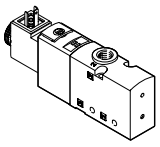
Accessories

★ Core Range

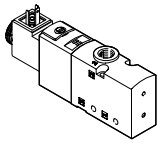
Ordering data

	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**
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	**575477**	**VUVS-L25-M32C-MD-G14-F8-1C1**
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**
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	**575511**	**VUVS-L25-M52-MD-G14-F8-1C1**
	**Double solenoid, type C**			
	B52	Internal pilot air supply, flow direction not reversible	**575518**	**VUVS-L25-B52-D-G14-F8-1C1**
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	**575525**	**VUVS-L25-P53C-MD-G14-F8-1C1**

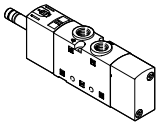
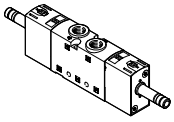
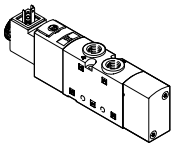
Accessories

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	**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**

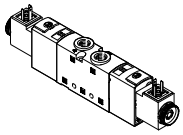
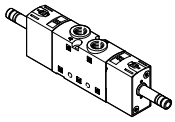
Accessories

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**

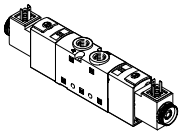
Accessories

Ordering data	Code	Valve function	Part no.	Type
5/2-way valve without solenoid coil				
	**Monostable**			
	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**
	**Bistable**			
	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**

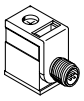
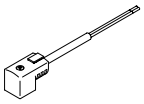
Accessories

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

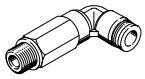
Ordering data				
	Description		Part no.	Type
Solenoid coils for valves with armature tube 8 mm				
	Plug pattern type C, to DIN EN 175301-803	12 V DC	**8030810**	**VACF-B-C1-5**
		24 V DC	**8030811**	**VACF-B-C1-1**
		48 V DC	**8030812**	**VACF-B-C1-7**
		24 V AC/50-60 Hz	**8030813**	**VACF-B-C1-1A**
		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**
	Connection 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 M8, 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 M8, 3-pin	24 V DC	**8150874**	**VACF-B-R8-1L**
	Single plug M8, 3-pin	24 V DC	**8150878**	**VACF-B-R8-1RAL**
	Single plug M8, 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**
	4-pin, insulation displace-ment connector	Cable connector M14	0 ... 250 V AC/DC	IP67	**192745**	**MSSD-EB-S-M14**
	Angled plug, 3-pin	Cable connector M12	0 ... 24 V DC	IP65	**570367**	**MSSD-EB-M12-24VDC-SD-EX**
	Connection pattern type B, industry standard					
	3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/DC	IP65	**539710**	**MSSD-F-M16**
		Cable connector Pg9			**34431**	**MSSD-F**
	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**
	Connection 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**
	Connection pattern type B, industry standard	24 V DC			**19143**	**MF-LD-12-24DC**
		230 V AC			**19144**	**MF-LD-230AC**

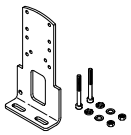
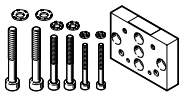
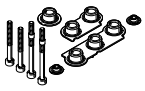
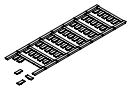
1) Plug socket 230 V AC can be used for 24 V DC without LED configuration.

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**	**QSLL-G1/4-6**	**10**
		8 mm	**186131**	**QSLL-G1/4-8**	**10**
		10 mm	**186133**	**QSLL-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

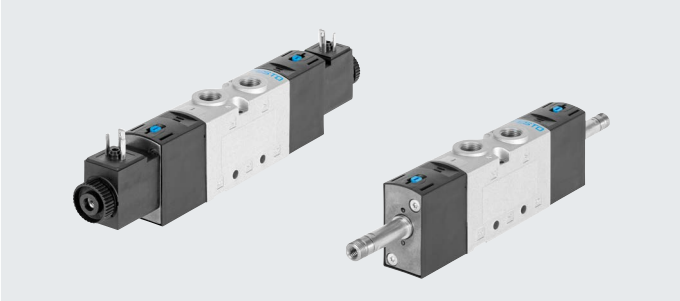
Ordering data	Description		Weight [g]	Part no.	Type
Foot mounting					
	With screw set for attaching the valve to the foot mounting		130	**2293485**	**VAME-B10-25-A**
Wall mounting					
	With screw set for attaching the valve to the wall mounting		53	**576413**	**VAME-B10-20-W**
Assortment of spare parts					
	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 qnN	[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	G3/8
	4, 5	–	–	G3/8	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 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 – 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
	Changeover	–	–	–	–
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	–
	Changeover	–	–	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	P53E
Normal position/mid-position		Closed	Pressurised	Exhausted
Stable position		Monostable		
Reset method		Mechanical spring		
Switching times in [ms]	On	17	18	20
	Off	76	75	74
	Changeover	39	31	36
Product weight without solenoid coil	[g]	461	461	461
Product weight with solenoid coil	[g]	562	562	562

Safety data		
Max. positive test pulse with logic 0	[ìs]	2000 (valves with VACF-B-...-1)
Max. negative test pulse with logic 1	[ìs]	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

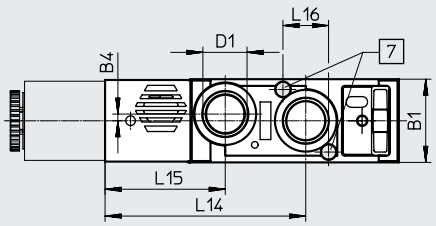
Electrical data			
		With solenoid coil	Without solenoid coil
Electrical connection		Plug type C to EN 175301-803, plug type B to industry standard (11 mm)	Via solenoid coil ➔ Internet: vacf
Operating voltage	[V DC]	12, and 24 ±10%	
	[V AC]	24, 110, 120, 230, 240 ±10%	
Permitted voltage fluctuations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

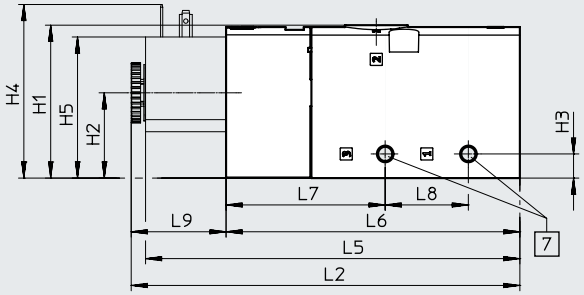
Materials	
Housing	Die-cast aluminium
Seals	HNBR, NBR
Piston spool	Wrought aluminium alloy
Screws	Nickel-plated steel
Note on materials	RoHs-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

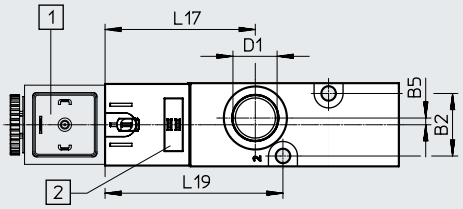
Datasheet

Dimensions Download CAD data ➔ www.festo.com

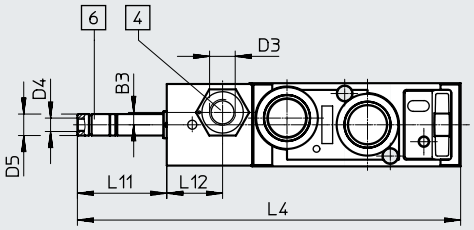
3/2-way valves, with solenoid coil







3/2-way valves, without solenoid coil



[1] Solenoid coil interface type B/ type C
[2] Space for inscription label
[4] Port 10/12 for pilot air supply
[6] Port 82 for pilot exhaust air
[7] For screw M5

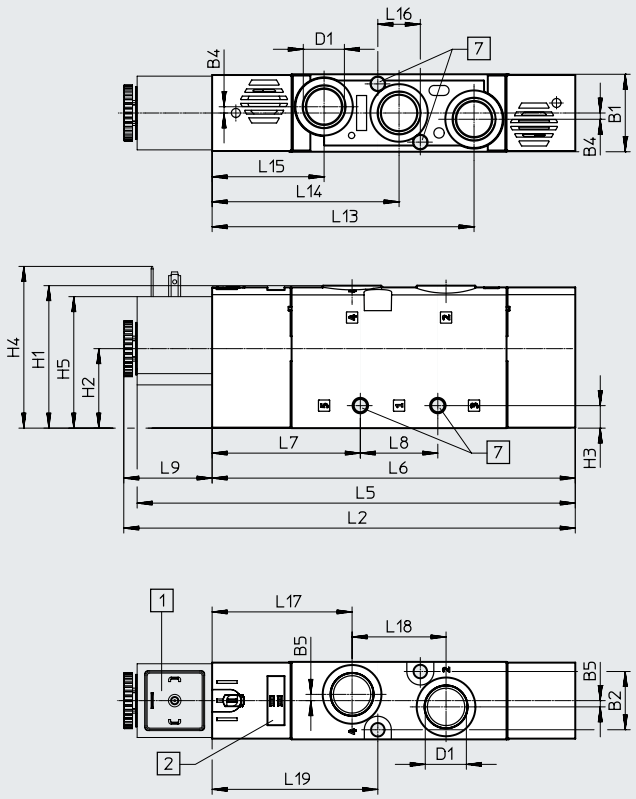
Type	B1	B2	B3	B4	B5	D1	D3	D4	D5 ⌀	H1	H2	H3	H4	H5
VUVS-L30-M32...-...D-G38-...	31	23.3	–	2.5	2.5	G3/8	–	M5	8	57	31.8	9	63.7	51.6
VUVS-L30-M32...-...ZD-G38-...			4.6				G1/8							

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					

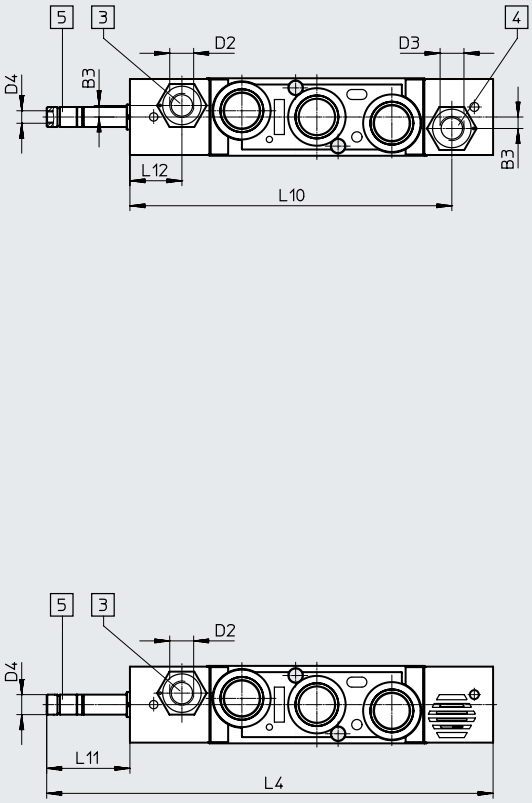
Datasheet

Dimensions Download CAD data ➔ www.festo.com

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

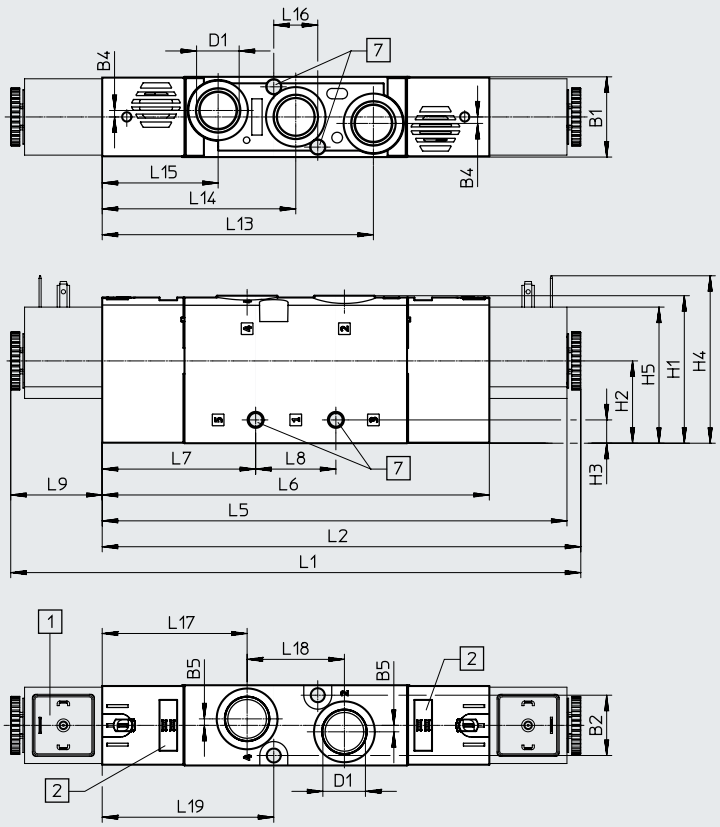
Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5 ø	H1	H2	H3	H4	H5
VUVS-L30-M52-...D-G38-...	31	23.3	–	2.5	2.5	G3/8	–	–	M5	8	57	31.8	9	63.7	51.6
VUVS-L30-M52-...ZD-G38-...			4.6				G1/8	G1/8							

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							

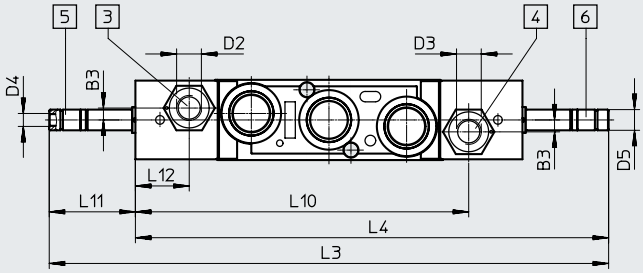
Datasheet

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
[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 ⌀	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							

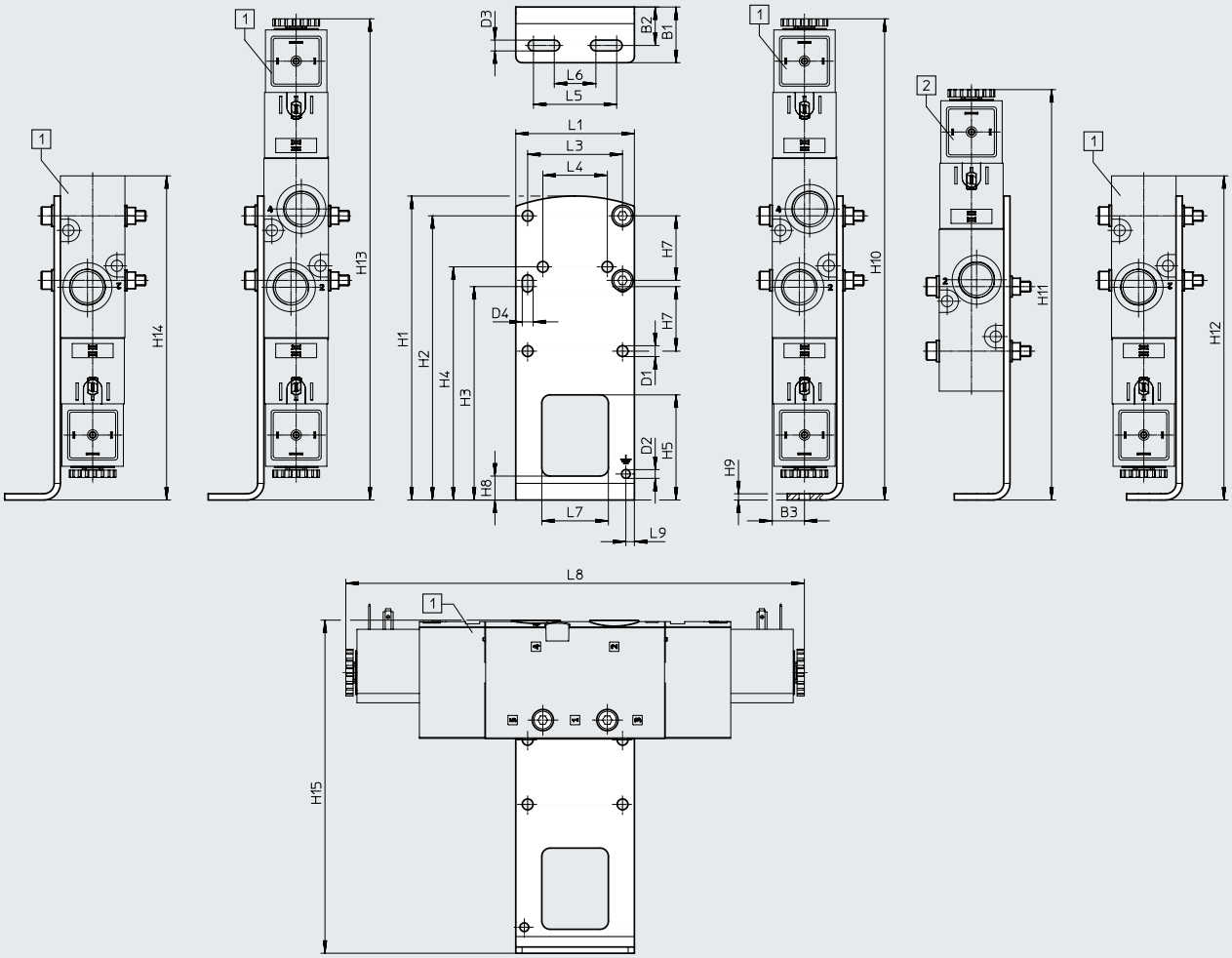
Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
VUVS-L30-P53...-MD-G38-...	220.3	185	216.2	182.9	179.6	149.6	59.3	31	35.4	–
VUVS-L30-P53...-MZD-G38-...										128.8
VUVS-L30-B52-D-G38-...										–
VUVS-L30-B52-ZD-G38-...										128.8

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 ⌀	D2 ⌀	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										

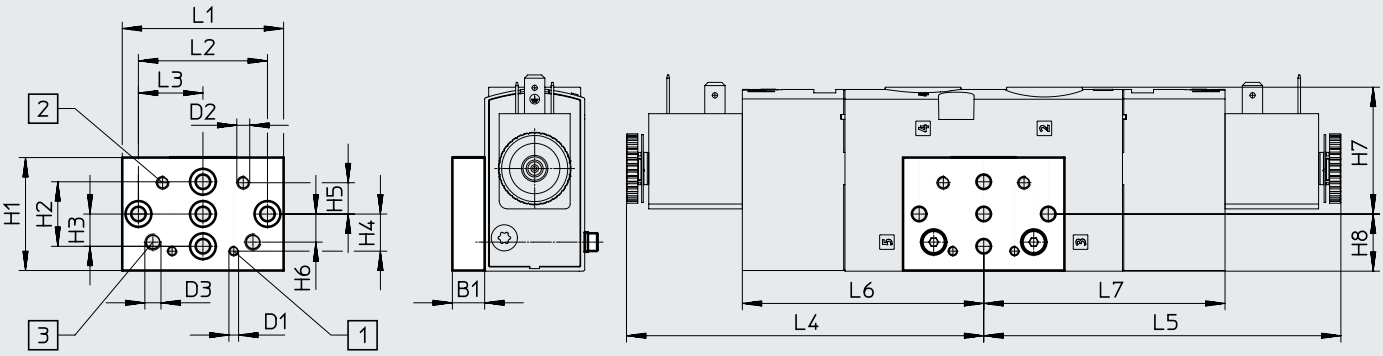
Type		H4	H5	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-30-A	VUVS-L30-B52/P53	112	50.5	31	11.5	3	231.2	–	231.2	231.2	231.2
	VUVS-L30-M52							197.2	191.5		191.5
	VUVS-L30-M32								155.7		155.7

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

Dimensions Download CAD data ➔ www.festo.com

Wall mounting



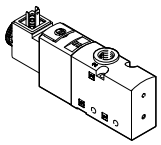
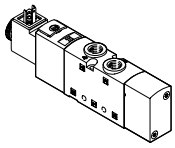
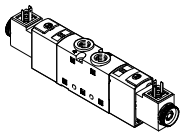
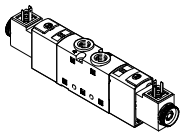
[1] Mounting hole for size 20 [2] Mounting hole for size 25 [3] Mounting hole for size 30

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

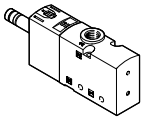
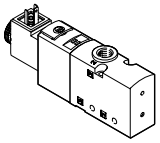
Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-L30-B52/P53	39.3	17.7	50	40	20	110.2	110.2	74.8	74.8
	VUVS-L30-M52							70.5		–
	VUVS-L30-M32							34.7		

Accessories

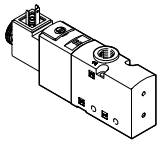
★ Core Range

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**
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	**575570**	**VUVS-L30-M32C-MD-G38-F8-1C1**
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**
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	**575604**	**VUVS-L30-M52-MD-G38-F8-1C1**
	**Double solenoid, type C**			
	B52	Internal pilot air supply, flow direction not reversible	**575611**	**VUVS-L30-B52-D-G38-F8-1C1**
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	**575618**	**VUVS-L30-P53C-MD-G38-F8-1C1**

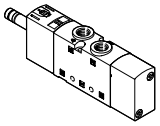
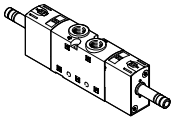
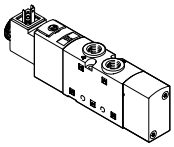
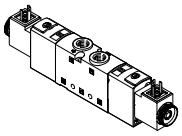
Accessories

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	**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**

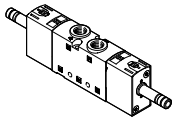
Accessories

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**

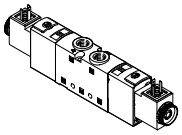
Accessories

Ordering data	Code	Valve function	Part no.	Type
5/2-way valve without solenoid coil				
	**Monostable**			
	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**
	**Bistable**			
	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

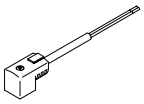
Ordering data				
	Code	Valve function	Part no.	Type
5/3-way valve with solenoid coil (24 V DC)				
	**Mid-position closed, type C**			
	P53C	Mechanical spring return, external pilot air supply, reversible flow direction	**575619**	**VUVS-L30-P53C-MZD-G38-F8-1C1**
	Mid-position exhausted, type C			
	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

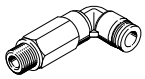
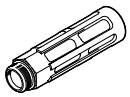
	Description				Part no.	Type
Solenoid coils for valves						
	Plug pattern type C, to DIN EN 175301-803	12 V DC			**8030810**	**VACF-B-C1-5**
		24 V DC			**8030811**	**VACF-B-C1-1**
		48 V DC			**8030812**	**VACF-B-C1-7**
		24 V AC/50-60 Hz			**8030813**	**VACF-B-C1-1A**
		48 V AC/50-60 Hz			**8030814**	**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 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 M8, 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 M8, 3-pin	24 V DC			**8150874**	**VACF-B-R8-1L**
	Single plug M8, 3-pin	24 V DC			**8150878**	**VACF-B-R8-1RAL**
	Single plug M8, 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 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**
	4-pin, insulation displacement connector	Cable connector M14	0 ... 250 V AC/DC	IP67	**192745**	**MSSD-EB-S-M14**
	3-pin, angled socket	Cable connector M12	0 ... 24 V DC	IP65	**570367**	**MSSD-EB-M12-24VDC-SD-EX**
	Connection pattern type B, industry standard					
	3-pin, screw terminal	Cable connector M16	0 ... 250 V AC/DC	IP65	**539710**	**MSSD-F-M16**
		Cable connector 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 connector 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**
	Connection 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**
	Connection pattern type B, industry standard	24 V DC			**19143**	**MF-LD-12-24DC**
		230 V AC			**19144**	**MF-LD-230AC**

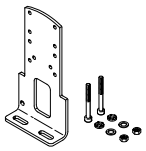
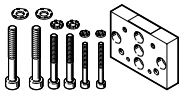
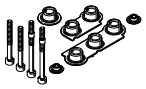
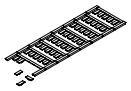
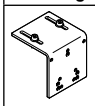
1) Plug socket 230 V AC can be used for 24 V DC without LED configuration.

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**

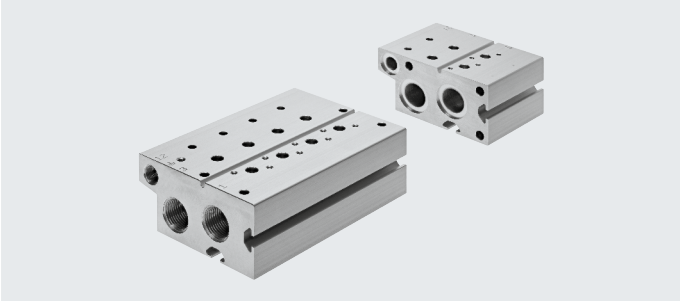
1) Packaging unit

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**
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

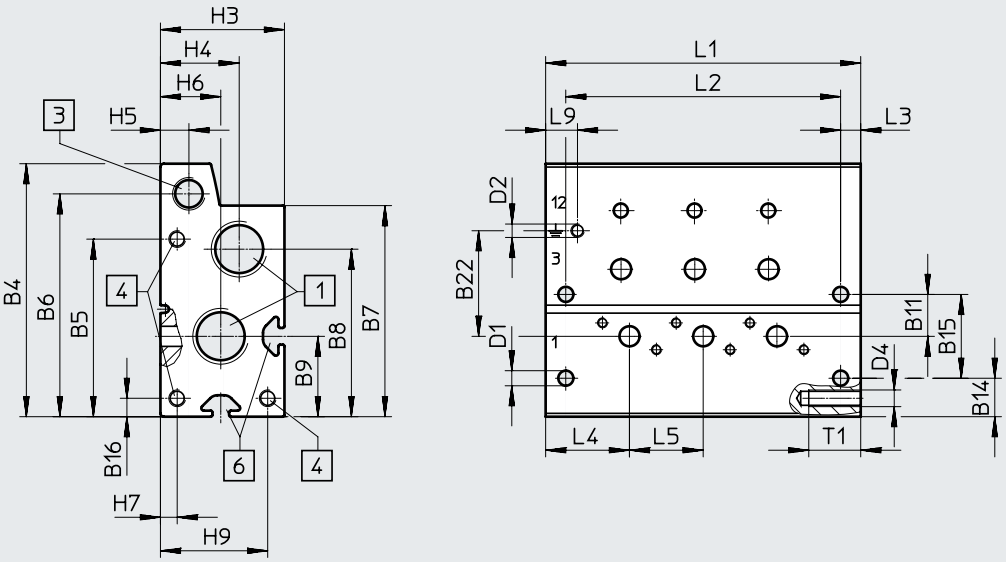
Weight [g]									
Valve positions	2	3	4	5	6	7	8	9	10
Manifold block for 3/2-way valves, standard									
VABM-B10-20E-G38-...-P3	449	574	699	825	950	1075	1200	1326	1451
Manifold block, extension module for 3/2-way valves, standard									
VABM-B10-20EEE-G38-2-P3	324	–	–	–	–	–	–	–	–
Manifold block 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

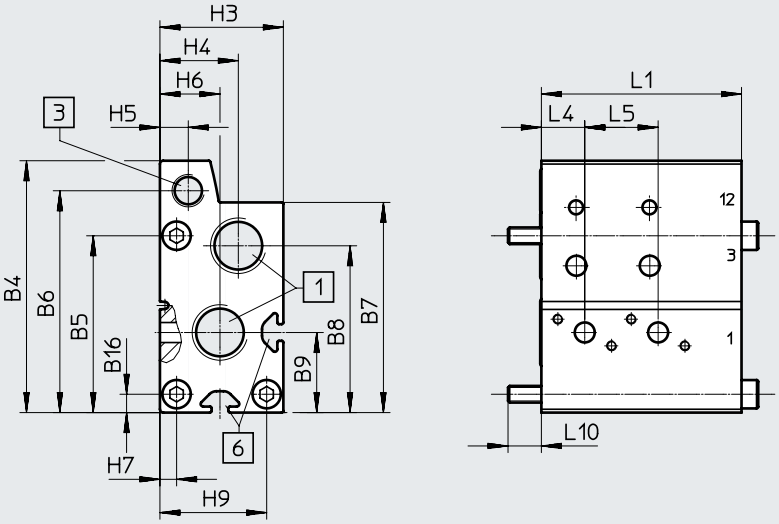
Type	D1 ⌀	D2	D4	H3	H4	H5	H6	H7	H9	L3	L4	L5	L9	T1
VABM-B10-20E-G38-...-P3	4.5	M4x6.5	M5	37	23.5	8.5	18	5	32	6	25	22	9.5	15.5

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

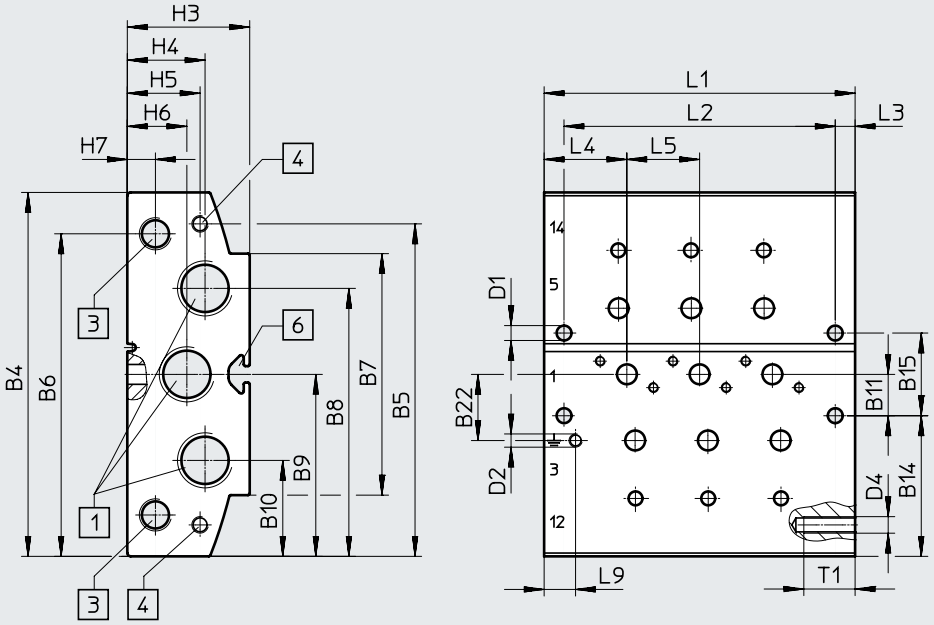
Type	B4	B7	B6	B7	B8	B9	B16	H3
VABM-B10-20EEE-G38-2-P3	75.5	53	66.5	63	50	24	5.5	37

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

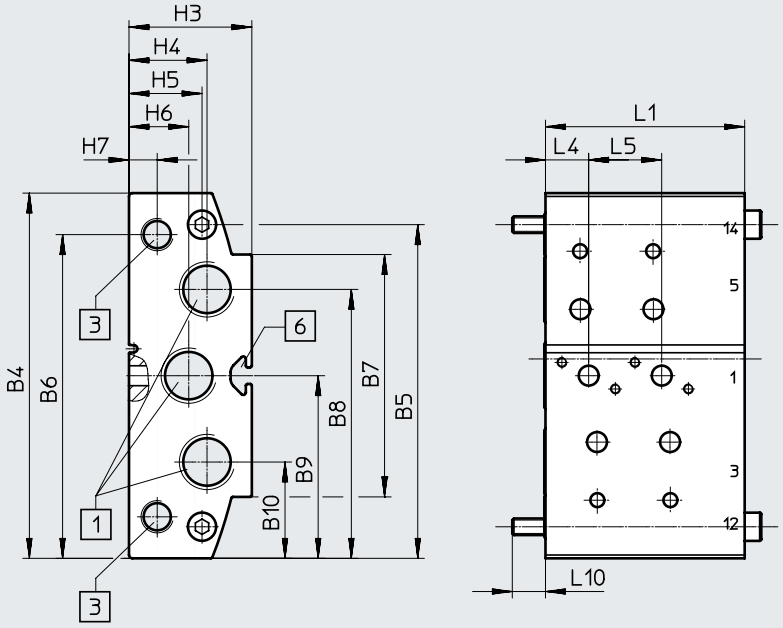
Type	D1 ⌀	D2	D4	H3	H4	H5	H6	H7	L3	L4	L5	L9	T1
VABM-B10-20E-G38-...	4.5	M4x6.5	M5	37	23.5	22	18	8.5	6	25	22	9.5	15.5

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

Manifold block, extension module 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

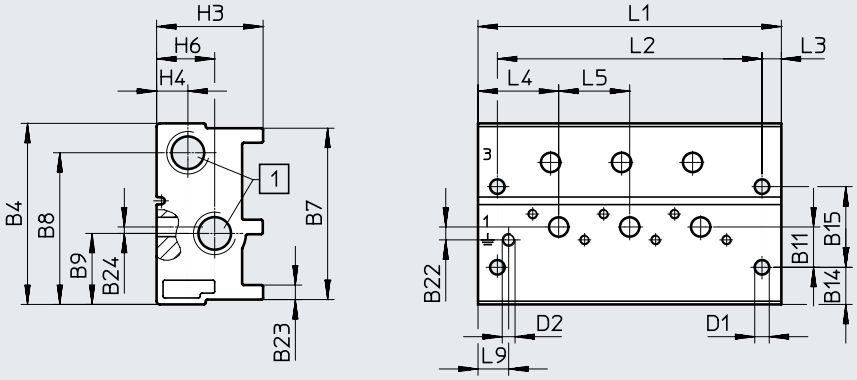
Type	B4	B5	B6	B7	B8	B9	B10	H3
VABM-B10-20EEE-G38-2	110	100.5	97.5	73	81	55	29	37

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

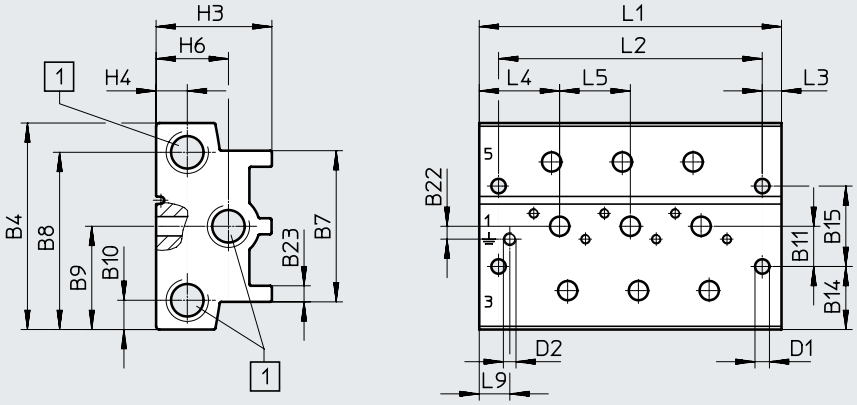
Type	B4	B7	B8	B9	B11	B14	B15	B22	B23	B24
VABM-B10-20S-G14-...-P3	56.1	53.1	47	22	12.5	11.5	25	4	4.5	2

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

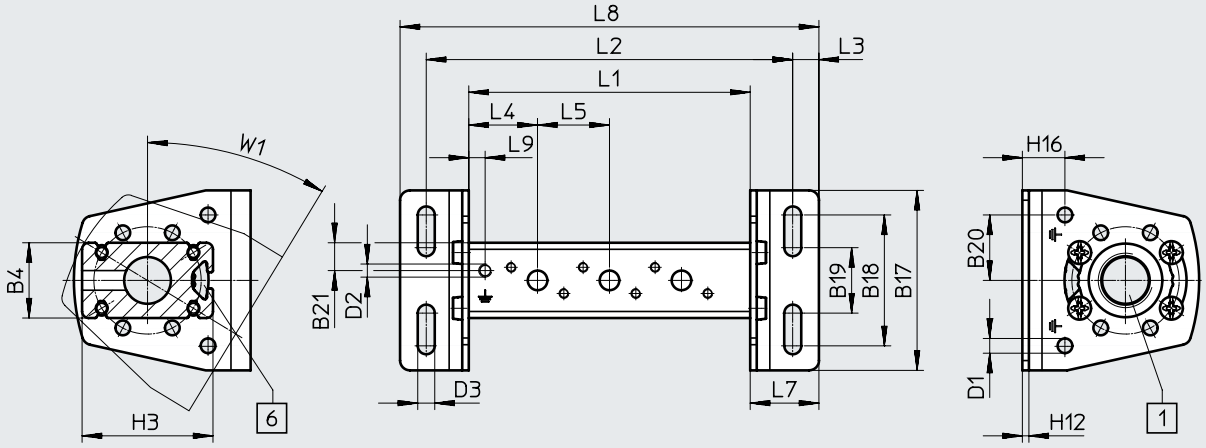
Type	D1 ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-20S-G14-...	4.5	M4x6.5	36	9.7	22.5	6	25	22	9.5

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 ±30°.

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

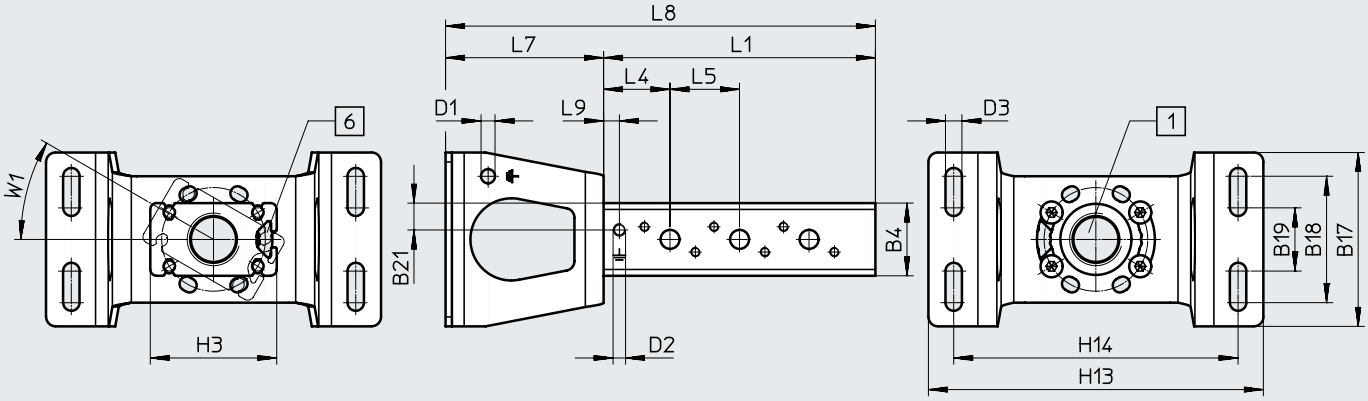
Type	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-20-G38-...-P53	40	2	13	8	21	22	21	5	30°

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

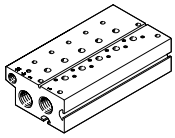
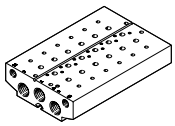
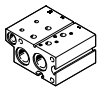
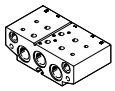
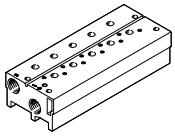
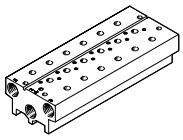
Mounting bracket can be adjusted by ±30°.

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

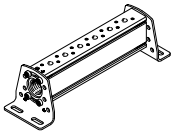
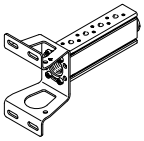
Type	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-20-G38-2-P53-E	40	106	90	21	22	50	5	30°

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**
		3	**576442**	**VABM-B10-20E-G38-3-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.	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	**576339**	**VABM-B10-20E-G38-2**
		3	**576340**	**VABM-B10-20E-G38-3**
	- **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.	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**
		3	**576466**	**VABM-B10-20S-G14-3-P3**
		4	**576467**	**VABM-B10-20S-G14-4-P3**
		5	**576468**	**VABM-B10-20S-G14-5-P3**
	- **Note** Blanking plugs for sealing the supply ports (1, 3 and 14) on one side are included in the scope of delivery.	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	**576417**	**VABM-B10-20S-G14-2**
		3	**576418**	**VABM-B10-20S-G14-3**
		4	**576419**	**VABM-B10-20S-G14-4**
		5	**576420**	**VABM-B10-20S-G14-5**
	- **Note** Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) on one side are included in the scope of delivery.	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**

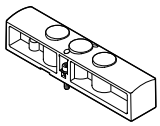
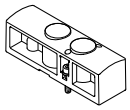
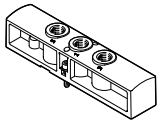
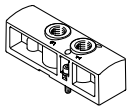
Ordering data – Manifold block, size 20

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**

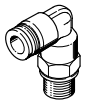
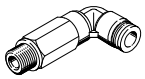
Note

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

Ordering data – Manifold block, size 20

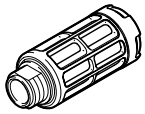
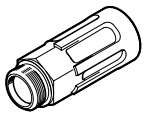
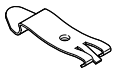
Ordering data	Description	Weight [g]	Part no.	Type
Cover plate				
	For valve position on manifold block for 5/2-way, 5/3-way valves	78	**576410**	**VABB-B10-20-E**
	For valve position on manifold block for 3/2-way valves	56	**576411**	**VABB-B10-20-E-P3**
	For valve position on common supply manifold	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**	**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**

1) Packaging unit

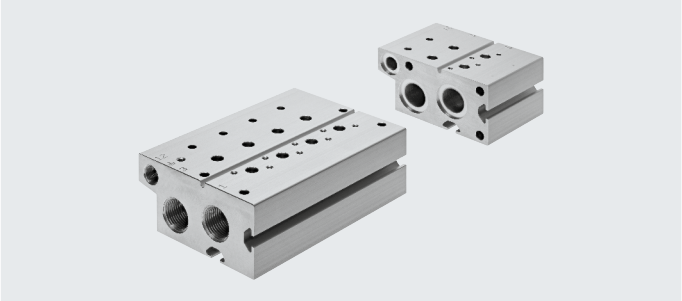
Ordering data – Manifold block, size 20

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

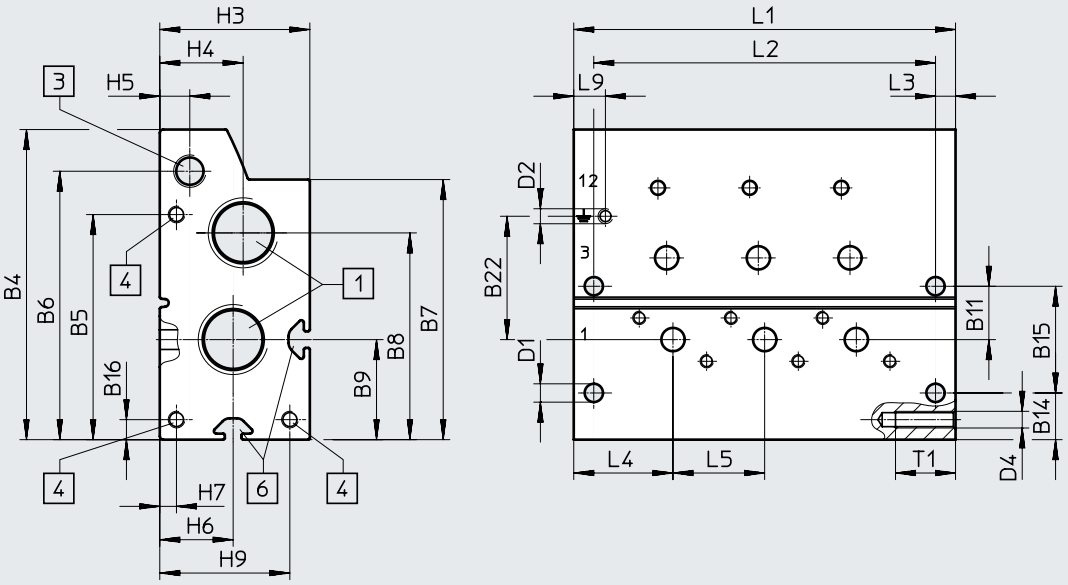
Weight [g]									
Valve positions	2	3	4	5	6	7	8	9	10
Manifold block for 3/2-way valves, standard									
VABM-B10-25E-G12-...-P3	726	960	1194	1428	1662	1896	2130	2364	2598
Manifold block, extension module for 3/2-way valves, standard									
VABM-B10-25EEE-G12-2-P3	340	–	–	–	–	–	–	–	–
Manifold block 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	–	–	–	–	–	–

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

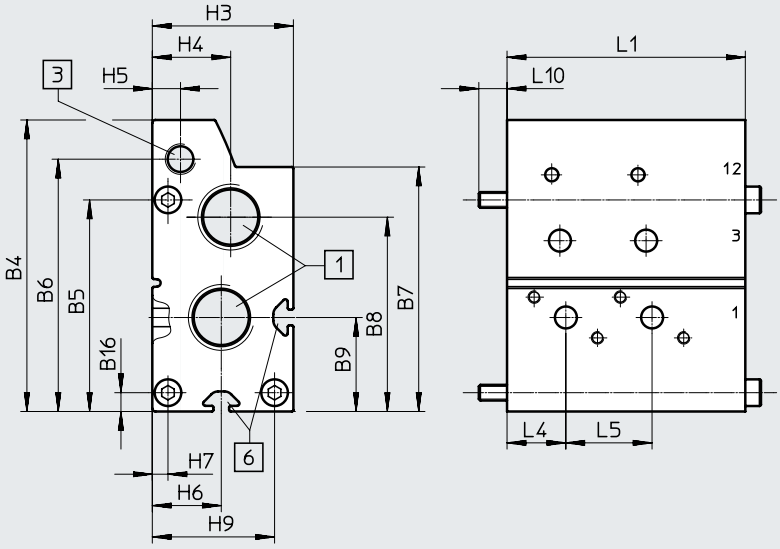
Type	D1 ⌀	D2	D4	H3	H4	H5	H6	H7	H9	L3	L4	L5	L9	T1
VABM-B10-25E-G12-...-P3	5.5	M4x9	M5	45	25	9	22	5	39	6	29.8	27.5	9.5	18

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

Dimensions Download CAD data ➔ www.festo.com

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



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

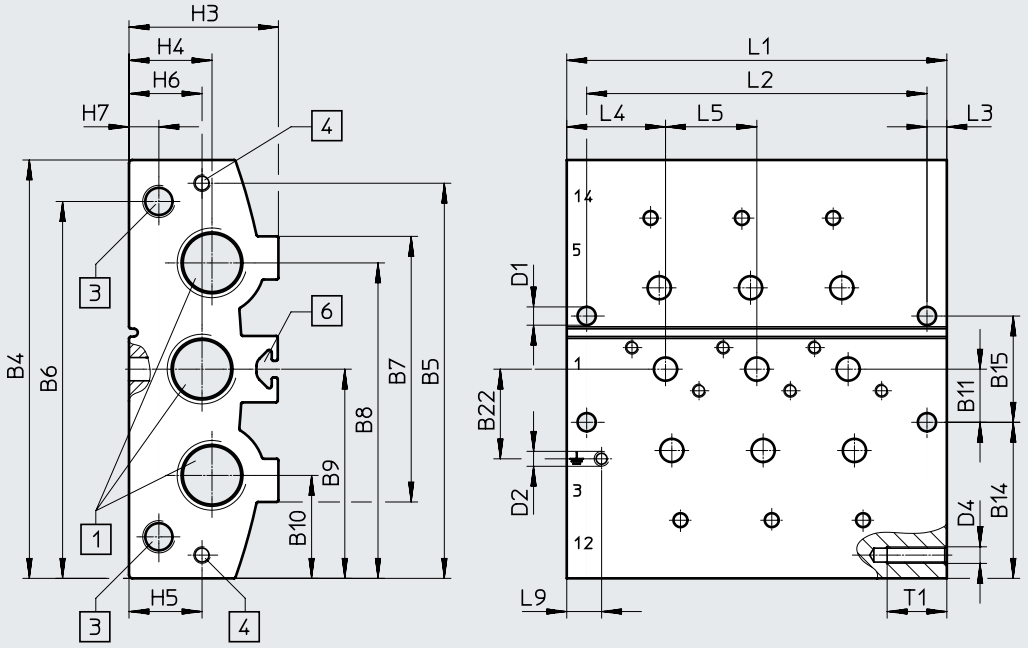
Type	B4	B5	B6	B7	B8	B9	B16	H3
VABM-B10-25EEE-G12-2-P3	93	67.5	80.5	78	62	30	6	45

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

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

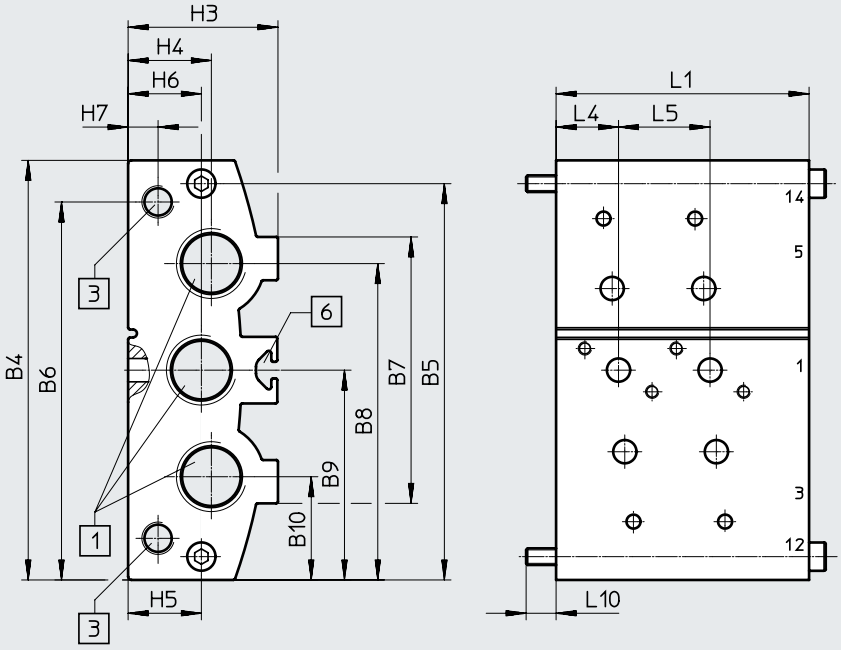
Type	D1 ø	D2	D4	H3	H4	H5	H6	H7	L3	L4	L5	L9	T1
VABM-B10-25E-G12-...	5.5	M4x9	M5	45	25	22	22	9	6	29.8	27.5	10.5	18

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

Manifold block, extension module 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

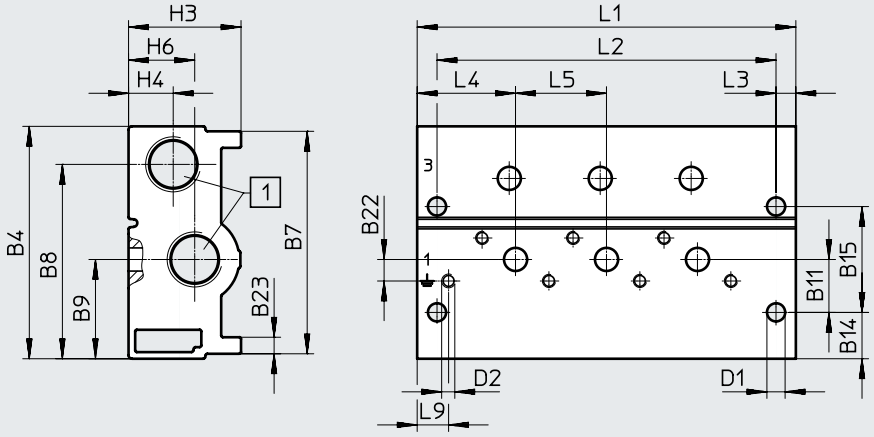
Type	B4	B5	B6	B7	B8	B9	B10	H3
VABM-B10-25EEE-G12-2	110	100.5	97.5	73	81	55	29	37

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

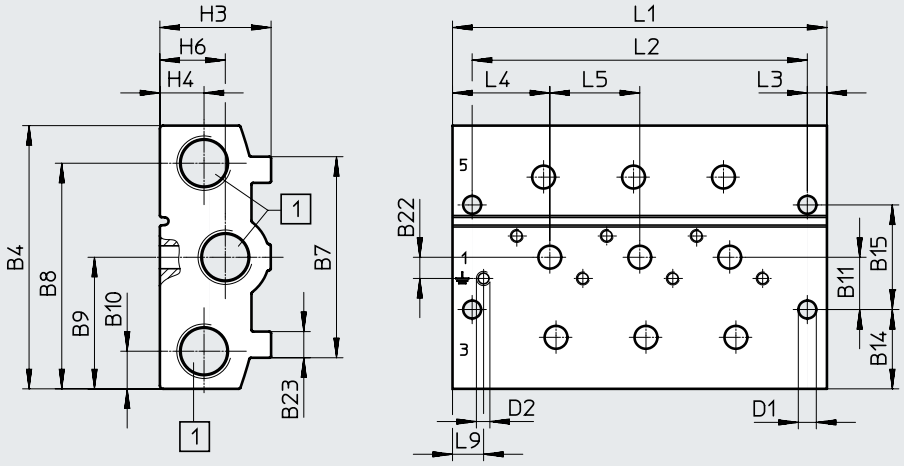
Type	B4	B7	B8	B9	B11	B14	B15	B22	B23
VABM-B10-25S-G38-...-P3	70.3	67.3	58.8	30	16	14	32	6.5	5

Type	D1 ⌀	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

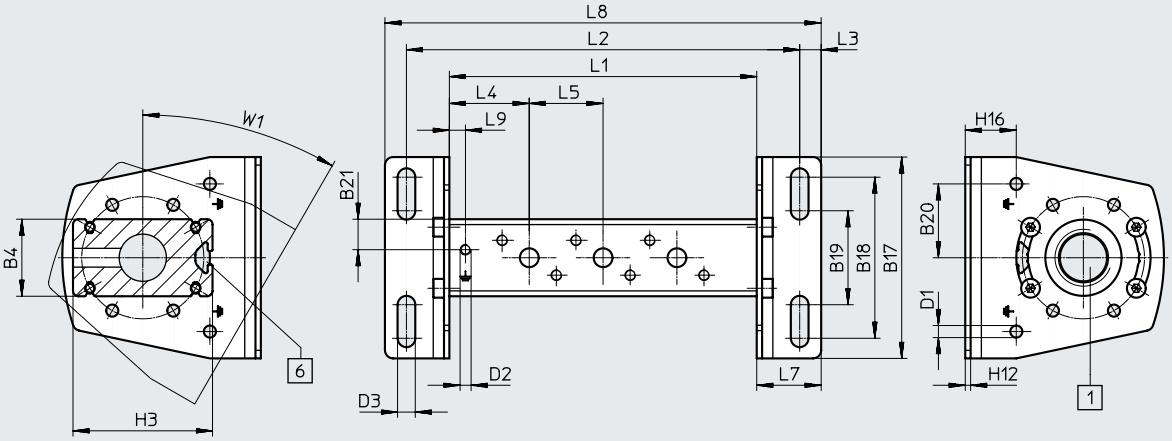
Type	D1 ⌀	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-25S-G38-...	5.5	M4x9	34	13.5	20	6	29.8	27.5	9.5

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

Dimensions Download CAD data ➔ www.festo.com

Common supply manifold, for mounting on both sides



[1] Port 1: G1/2

[6] Profile slot IPM-05 system 5

Note

Mounting bracket can be adjusted by ±30°.

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

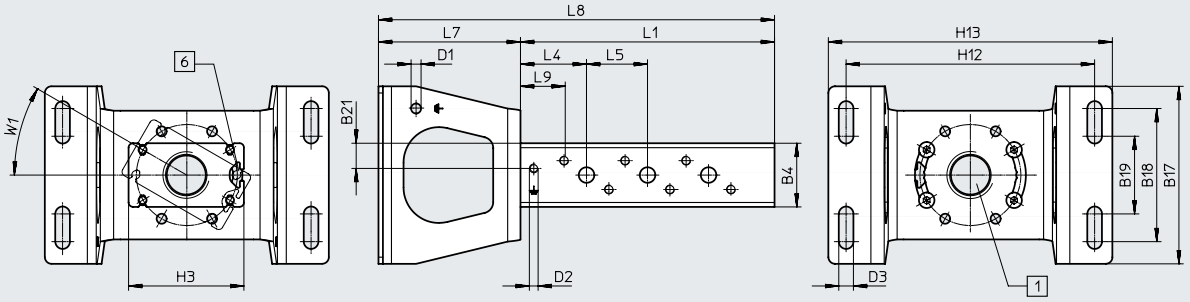
Type	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-25-G12-...-P53	52	2	19	8	29.8	27.5	24	6	30°

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

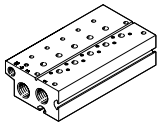
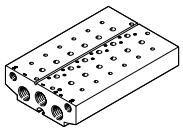
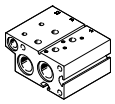
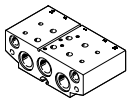
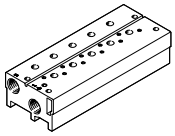
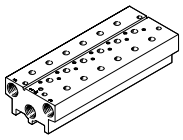
Mounting bracket can be adjusted by ±30°.

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

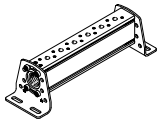
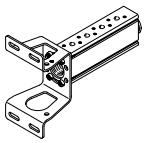
Type	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-25-G12-...-P53-E	52	128	112	29.8	27.5	64	6	30°

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**
		3	**8026280**	**VABM-B10-25E-G12-3-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.	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	**8026243**	**VABM-B10-25E-G12-2**
		3	**8026244**	**VABM-B10-25E-G12-3**
	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.	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**
		3	**8026298**	**VABM-B10-25S-G38-3-P3**
		4	**8026299**	**VABM-B10-25S-G38-4-P3**
		5	**8026300**	**VABM-B10-25S-G38-5-P3**
	Note Blanking plugs for sealing the supply ports (1, 3 and 14) on one side are included in the scope of delivery.	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	**8026261**	**VABM-B10-25S-G38-2**
		3	**8026262**	**VABM-B10-25S-G38-3**
		4	**8026263**	**VABM-B10-25S-G38-4**
		5	**8026264**	**VABM-B10-25S-G38-5**
	Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) on one side are included in the scope of delivery.	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**

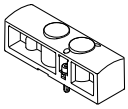
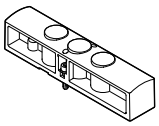
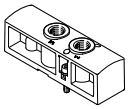
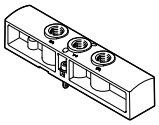
Ordering data – Manifold block, size 25

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**

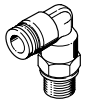
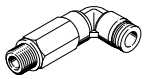
Note

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

Ordering data – Manifold block, size 25

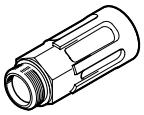
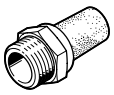
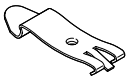
Ordering data	Description	Weight [g]	Part no.	Type
Cover plate				
	For valve position on manifold block for 3/2-way valves	84	**8026210**	**VABB-B10-25-E-P3**
	For valve position on manifold block for 5/2-way, 5/3-way valves	117	**8026209**	**VABB-B10-25-E**
	For valve position on common supply manifold	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

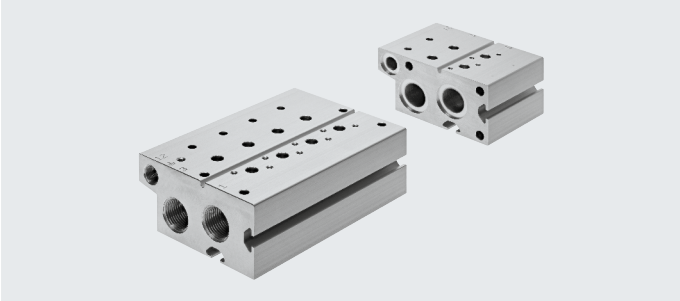
Ordering data – Manifold block, size 25

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

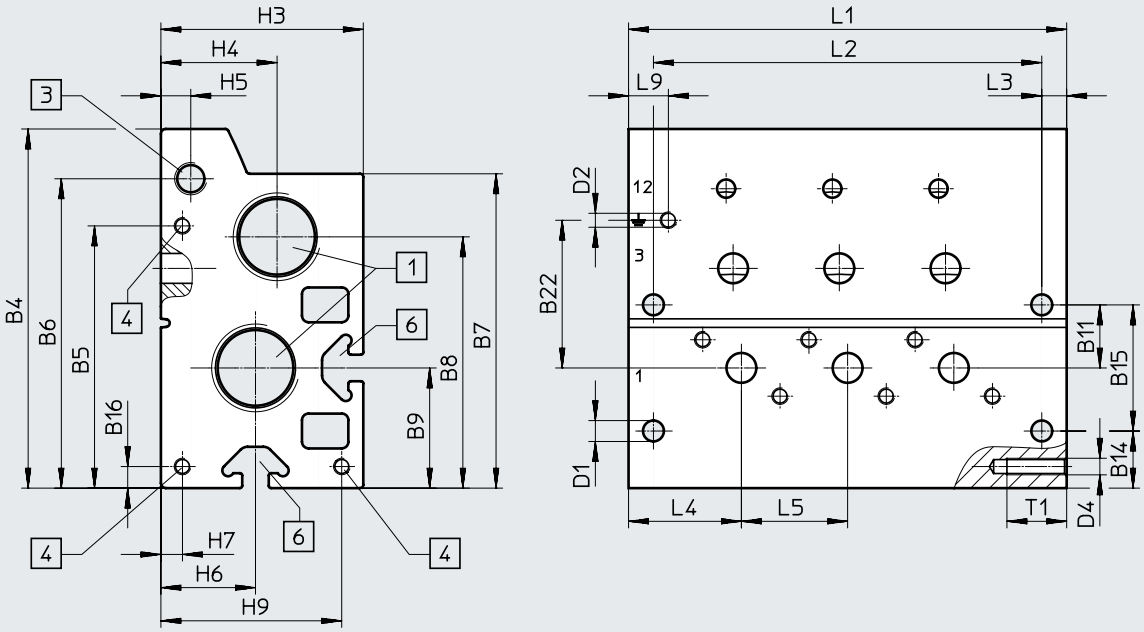
Weight [g]									
Valve positions	2	3	4	5	6	7	8	9	10
Manifold block for 3/2-way valves, standard									
VABM-B10-30E-G34-...-P3	1411	1828	2245	2662	3079	3496	3913	4330	4747
Manifold block, extension module for 3/2-way valves, standard									
VABM-B10-30EEE-G34-2-P3	1111	–	–	–	–	–	–	–	–
Manifold 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

Dimensions Download 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

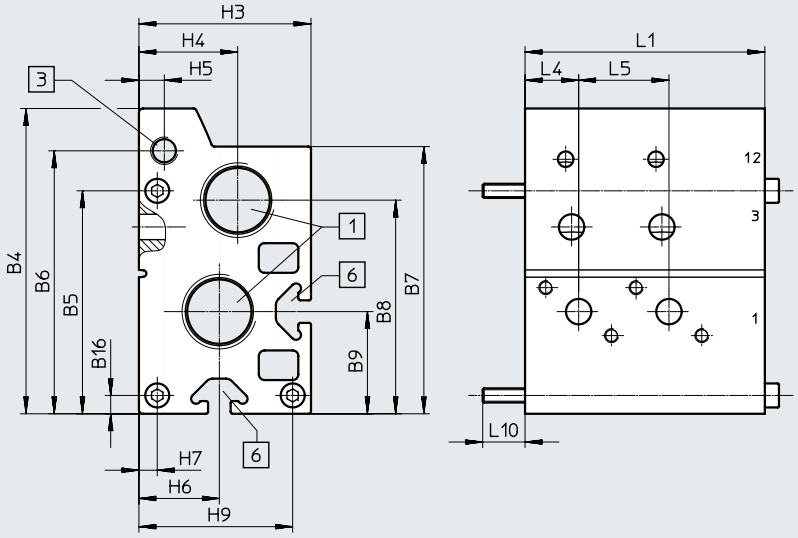
Type	D1 ⌀	D2	D4	H3	H4	H5	H6	H7	H9	L3	L4	L5	L9	T1
VABM-B10-30E-G34-...-P3	6.3	M5x11	M5	61	35	9	28.5	6.5	54.5	7.5	34	32	12	18

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

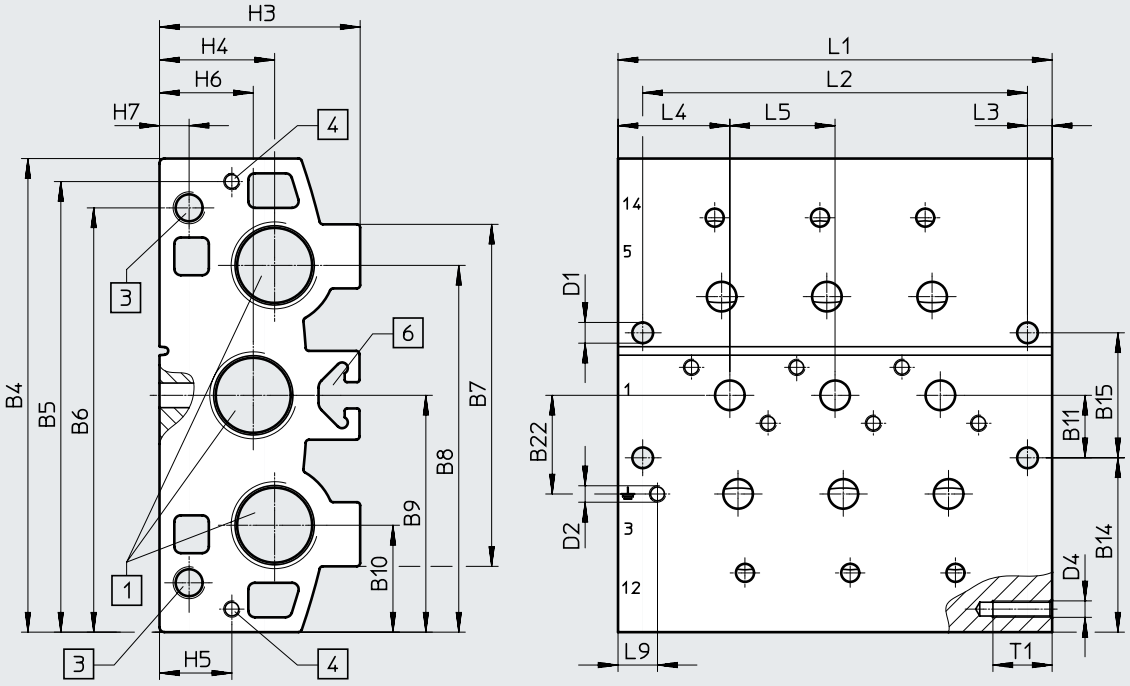
Type	B4	B5	B6	B7	B8	B9	B16	H3
VABM-B10-30EEE-G34-2-P3	108.2	79	93.2	94.7	75.7	36.2	6.5	61

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

Dimensions Download CAD data ➔ www.festo.com

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



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

[3] Port 12 and 14: G1/8

[4] Thread M5x18 for extension module

[6] Profile slot IPM-08 system 8

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

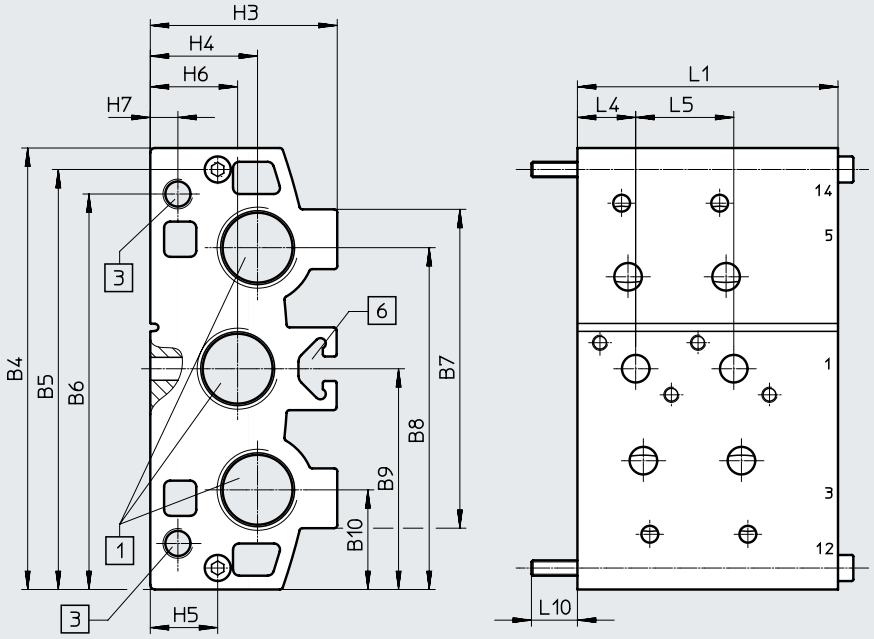
Type	D1 ⌀	D2	D4	H3	H4	H5	H6	H7	L3	L4	L5	L9	T1
VABM-B10-30E-G34-...	6.3	M5x11	M5	61	35	22	28.5	9	7.5	34	32	12	18

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

Manifold block, extension module 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

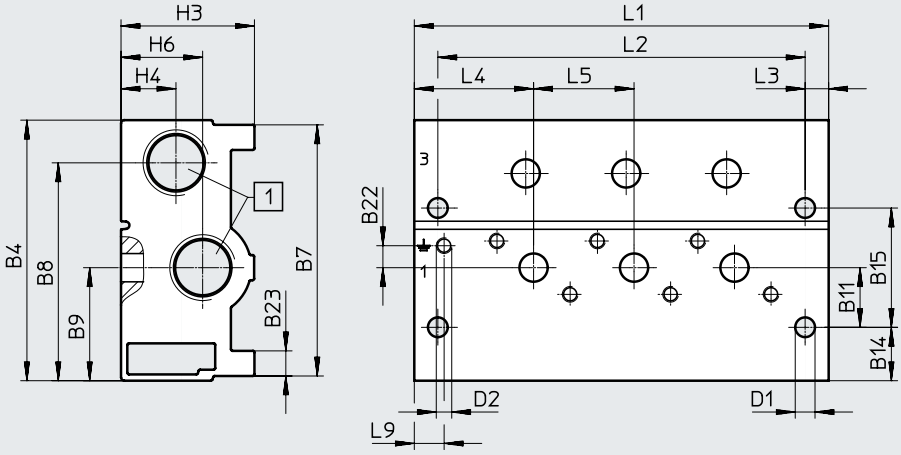
Type	B4	B5	B6	B7	B8	B9	B10	H3
VABM-B10-30EEE-G34-2	144	137	129	104	111.5	72	32.5	61

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

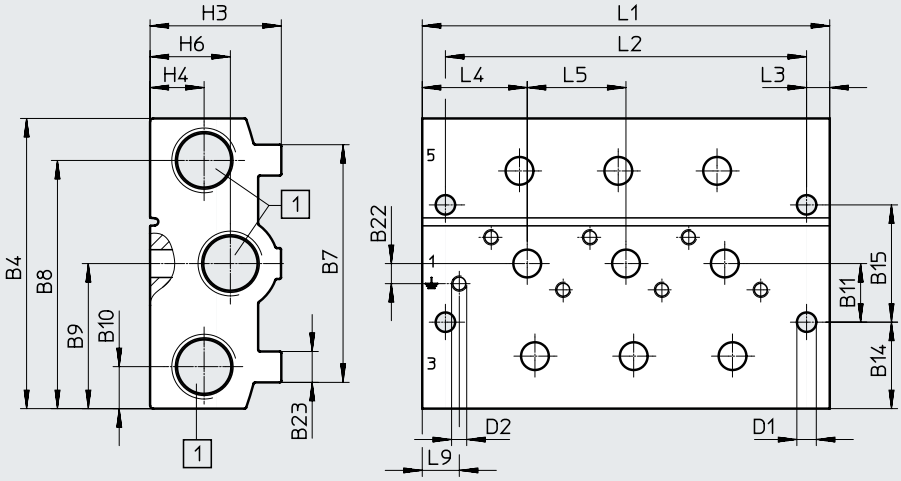
Type	B4	B7	B8	B9	B11	B14	B15	B22	B23
VABM-B10-30S-G12-...-P3	83	80	69.4	36	19	17	38	7	8

Type	D1 ⌀	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

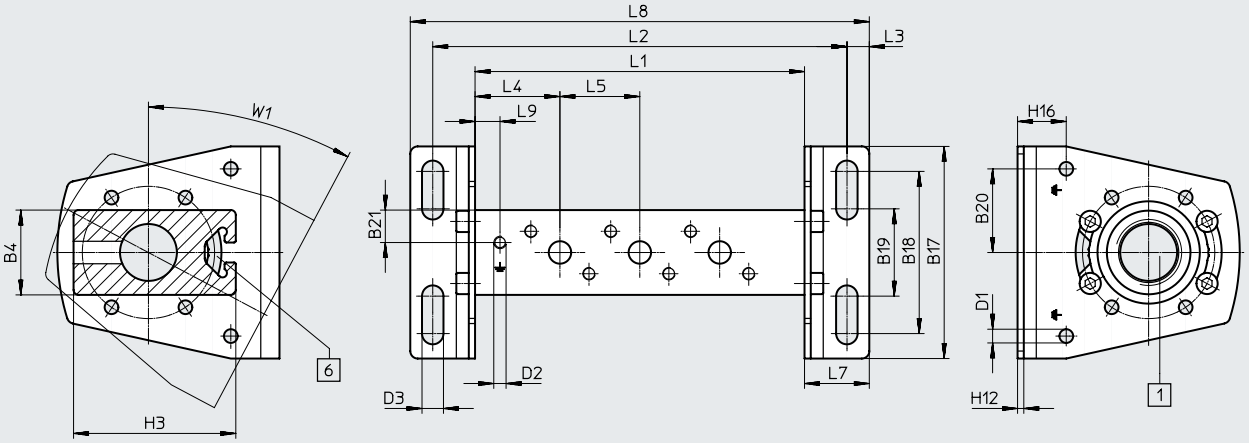
Type	D1 ⌀	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-30S-G12-...	6.3	M5x11	42.5	17.5	26	7.5	34	32	12

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 ±30°.

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

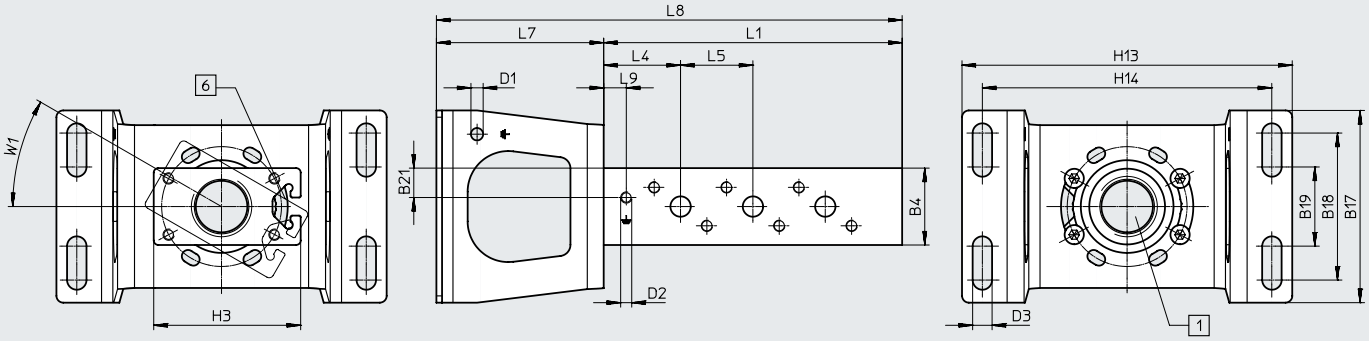
Type	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-30-G34-...-P53	65	2.5	19.5	9	34	32	26	10	30°

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



[1] Port 1: G3/4

[6] Profile slot IPM-08 system 8

Note

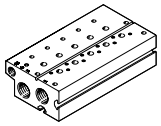
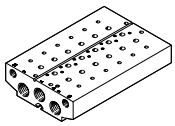
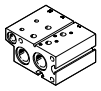
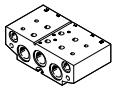
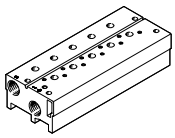
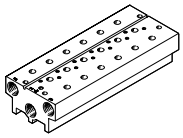
Mounting bracket can be adjusted by ±30°.

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

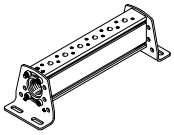
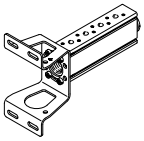
Type	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-30-G34-...-P53-E	65	146	128	34	32	74	10	30°

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**
		3	**8026396**	**VABM-B10-30E-G34-3-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.	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	**8026359**	**VABM-B10-30E-G34-2**
		3	**8026360**	**VABM-B10-30E-G34-3**
	- **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.	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**
		3	**8026414**	**VABM-B10-30S-G12-3-P3**
		4	**8026415**	**VABM-B10-30S-G12-4-P3**
		5	**8026416**	**VABM-B10-30S-G12-5-P3**
	- **Note** Blanking plugs for sealing the supply ports (1, 3 and 14) on one side are included in the scope of delivery.	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	**8026377**	**VABM-B10-30S-G12-2**
		3	**8026378**	**VABM-B10-30S-G12-3**
		4	**8026379**	**VABM-B10-30S-G12-4**
		5	**8026380**	**VABM-B10-30S-G12-5**
	- **Note** Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) on one side are included in the scope of delivery.	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**

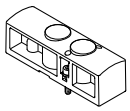
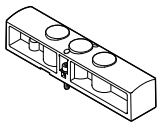
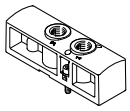
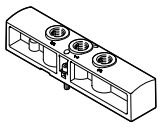
Ordering data – Manifold block, size 30

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**

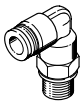
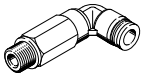
Note

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

Ordering data – Manifold block, size 30

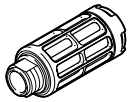
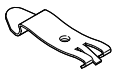
Ordering data	Description	Weight [g]	Part no.	Type
Cover plate				
	For valve position on manifold block for 3/2-way valves	128	**8026336**	**VABB-B10-30-E-P3**
	For valve position on manifold block for 5/2-way, 5/3-way valves	179	**8026335**	**VABB-B10-30-E**
	For valve position on common supply manifold	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	PU[1]
Push-in fitting with internal hex					
	Connecting thread G1/8 for tubing O.D.	4 mm	**186106**	**QS-G1/8-4-I**	**10**
			133008	**QS-G1/8-4-I-100**	**100**
		6 mm	**186107**	**QS-G1/8-6-I**	**10**
			133009	**QS-G1/8-6-I-100**	**100**
	Connecting thread G3/8 for tubing O.D.	8 mm	**186111**	**QS-G3/8-8-I**	**10**
		10 mm	**186113**	**QS-G3/8-10-I**	**10**
		12 mm	**186114**	**QS-G3/8-12-I**	**10**
	Connecting thread G1/2 for tubing O.D.	12 mm	**186115**	**QS-G1/2-12-I**	**1**
Push-in fitting with external hex					
	Connecting thread G1/2 for tubing O.D.	16 mm	**186105**	**QS-G1/2-16**	**1**
			132047	**QS-G1/2-16-20**	**20**
Angled push-in fitting, with external hex					
	Connecting thread G3/8 for tubing O.D.	8 mm	**186121**	**QSL-G3/8-8**	**10**
			132055	**QSL-G3/8-8-50**	**50**
		10 mm	**186123**	**QSL-G3/8-10**	**10**
			132056	**QSL-G3/8-10-20**	**20**
		12 mm	**186124**	**QSL-G3/8-12**	**10**
			132057	**QSL-G3/8-12-20**	**20**
	Connecting thread G1/2 for tubing O.D.	12 mm	**186125**	**QSL-G1/2-12**	**1**
			132058	**QSL-G1/2-12-20**	**20**
		16 mm	**186126**	**QSL-G1/2-16**	**1**
			132059	**QSL-G1/2-16-20**	**20**
Angled push-in fitting, long, with external hex					
	Connecting thread G1/2 for tubing O.D.	8 mm	**186132**	**QSLL-G3/8-8**	**10**
		10 mm	**186134**	**QSLL-G3/8-10**	**10**
		12 mm	**186135**	**QSLL-G3/8-12**	**10**
Barbed fitting with external hex					
	Connecting thread G3/4 for tubing I.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 I.D. Brass design	13 mm	**15637**	**N-3/4-P-13-MS**	**1**
		19 mm	**15638**	**N-3/4-P-19-MS**	**1**

1) Packaging unit

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