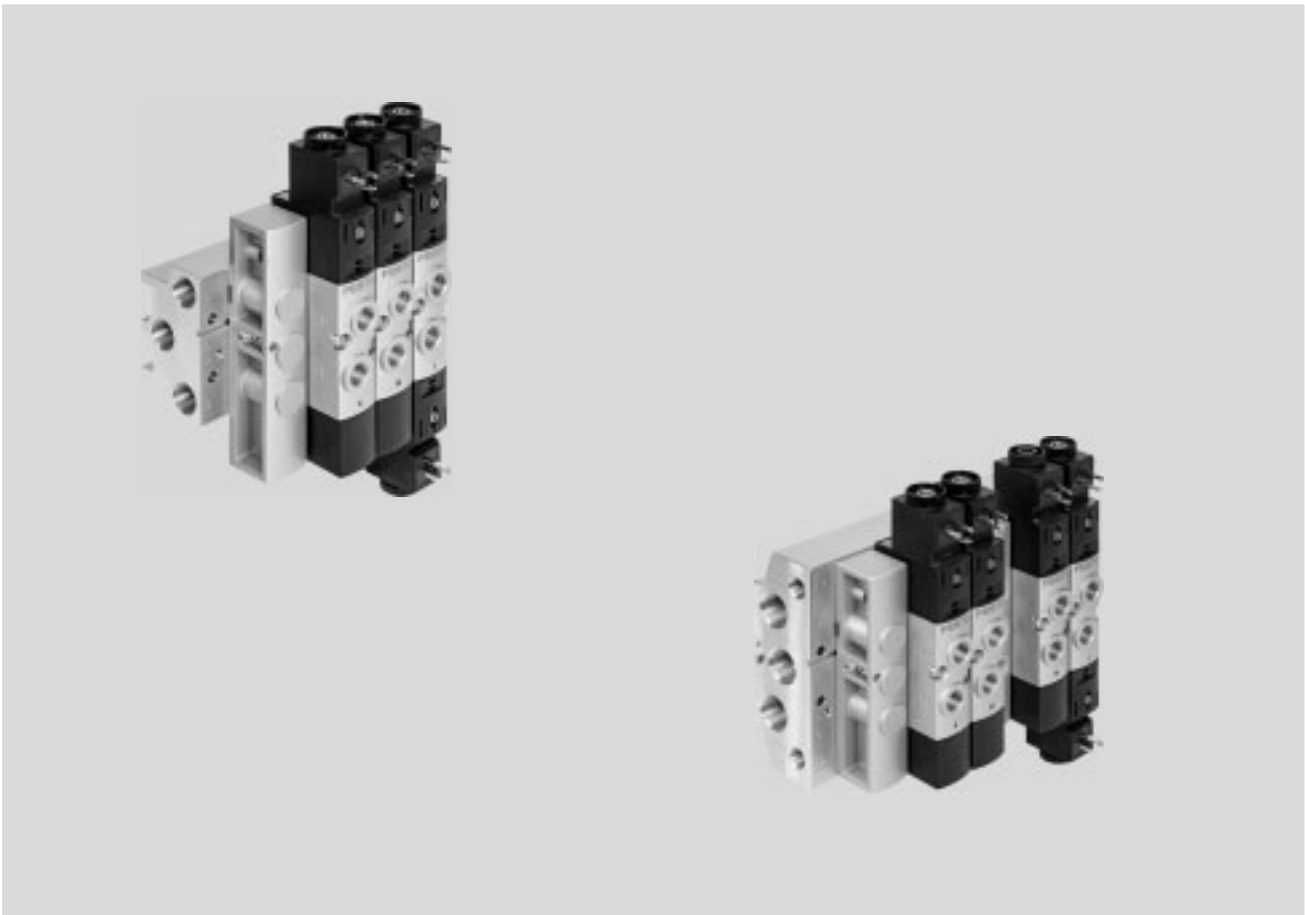


Solenoid valves VUVS/valve manifold VTUS, NPT



Solenoid valves VUVS/valve manifold VTUS, NPT

Key features



Innovative

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

Versatile

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

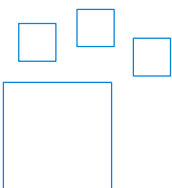
Reliable

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

Easy to install

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

Product configurator



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

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

Enter the type (or part number) in the search field:

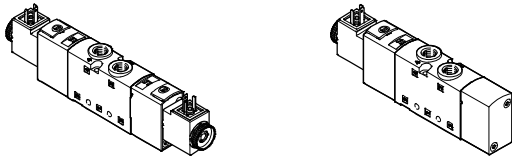
- VUVS-20 576516
- VUVS-25 8022014
- VUVS-30 8022017
- VTUS-20 577304
- VTUS-25 8022016
- VTUS-30 8022019

Solenoid valves VUVS/valve manifold VTUS, NPT

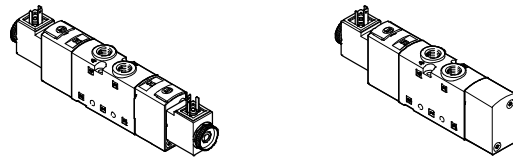
Key features

Solenoid valves VUVS

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



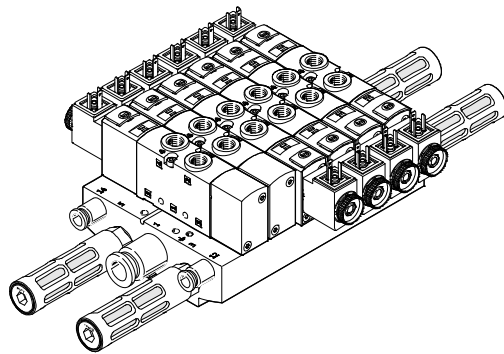
In-line valve VUVS-LT as individual valve (disc seat valve)



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

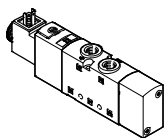
By using a special seal set, the in-line valves can also be mounted on a manifold rail (pneumatic linking) as semi in-line valves.

Valve manifold VTUS



Equipment options

VUVS-LT



- 5/2-way valves, with or without solenoid coil
- Size 25 (26.5 mm)

Valve functions of VUVS-LT

5/2-way single solenoid valve:

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

5/2-way double solenoid valve:

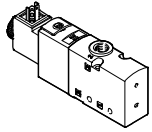
- Internal/external pilot air supply
- Direction of flow not reversible

Solenoid valves VUVS/valve manifold VTUS, NPT

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 of VUVS-L

3/2-way valve, normal position

open, single solenoid:

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

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

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

5/2-way single solenoid valve:

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

5/2-way double solenoid valve:

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

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

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



Note

The operating voltage of valves VUVS-L and VUVS-LT can be varied by

changing the solenoid coil on the armature guide tube.

Key features

- A maximum of 16 valve positions can be configured in the standard version
- A maximum of 12 valve positions can be configured in the compact version
- Valve positions 2 ... 10 can be configured in increments of 1, valve positions 10 ... 16 in increments of 2
- Manifold block with a maximum of 10 valve positions
- Common supply manifold with a maximum of 10 valve positions
- Creation of pressure zones (maximum 9 pressure zones in the case of a valve manifold with 16 valve positions)

Design

Valve replacement

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

This means that the valves can be easily replaced.

Extension

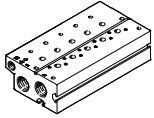
Valve positions covered with blanking plates can be replaced with valves at a later date. The dimensions, mounting points and existing pneumatic installations remain unchanged.

Solenoid valves VUVS/valve manifold VTUS, NPT

Key features

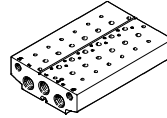
Standard manifold block

For 3/2-way valves



- Connection
Size 20: 3/8 NPT
Size 25: 1/2 NPT
Size 30: 3/4 NPT
- For valves with external pilot air supply
- Maximum 10 valve positions

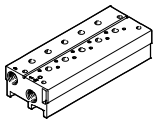
For 5/2- and 5/3-way valves



- Connection
Size 20: 3/8 NPT
Size 25: 1/2 NPT
Size 30: 3/4 NPT
- For valves with external pilot air supply
- Maximum 10 valve positions

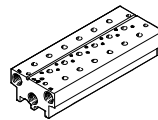
Compact manifold block

For 3/2-way valves



- Connection
Size 20: 1/4 NPT
Size 25: 3/8 NPT
Size 30: 1/2 NPT
- Maximum 10 valve positions

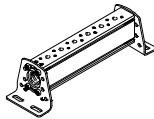
For 5/2- and 5/3-way valves



- Connection
Size 20: 1/4 NPT
Size 25: 3/8 NPT
Size 30: 1/2 NPT
- Maximum 10 valve positions

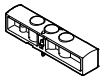
Supply manifold

Mounting on both sides



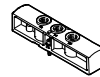
- Connection
Size 20: 3/8 NPT
Size 25: 1/2 NPT
Size 30: 3/4 NPT
- Maximum 10 valve positions

Blanking plate for unused valve position



For covering unused valve positions

Supply plate



For additional air supply and exhaust via a valve position

Separator for pressure zones



For creating pressure zones (maximum 9 pressure zones permitted)

Note

A filter must be installed upstream of 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).

Solenoid valves VUVS/valve manifold VTUS, NPT

Key features – Pneumatics




Creating pressure zones and separating exhaust air

Compressed air is supplied and exhausted via the manifold block/supply manifold and via supply plates. The position of the supply plates and duct separations can be freely selected with the VTUS.

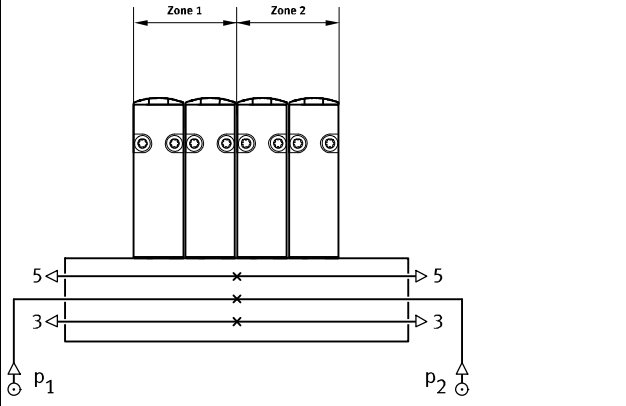
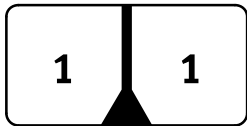
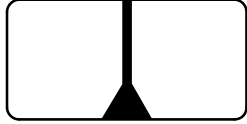

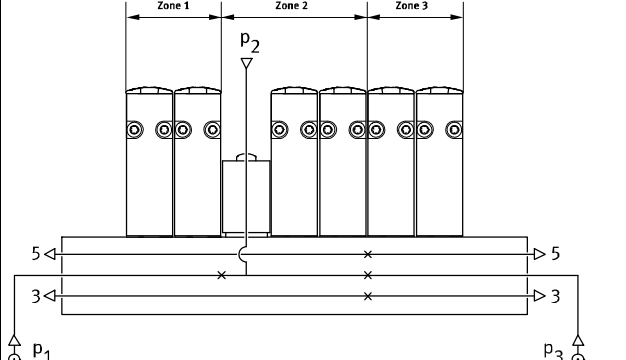
A pressure zone is created by isolating the internal ducts between the valve positions using an appropriate separator.

The separator can be used in the following ducts:

- Duct 1
- Duct 3
- Duct 5

 Note

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

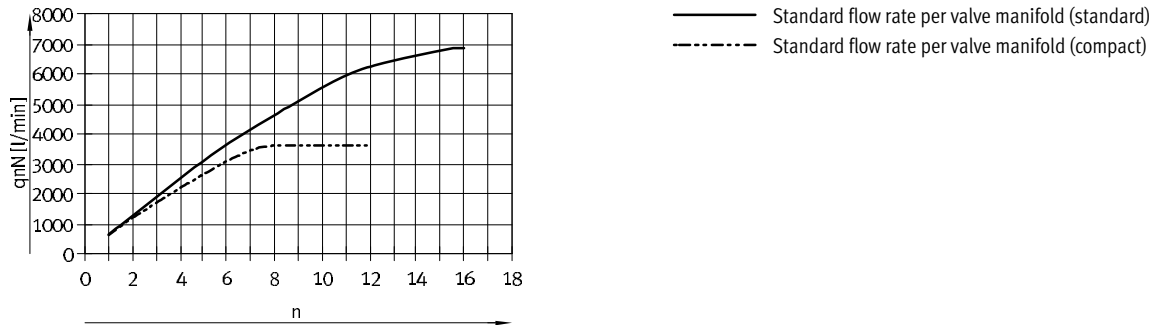
Duct separation	Description
	<p>The pressure zones can be freely configured with the VTUS. The following duct separations are possible:</p> <ul style="list-style-type: none"> • Duct 1 closed  • Duct 1/3/5 closed  • Duct 3/5 closed 
	<p>The number of pressure zones with the VTUS is limited by the number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

Solenoid valves VUUS/valve manifold VTUS, NPT

Key features – Pneumatics

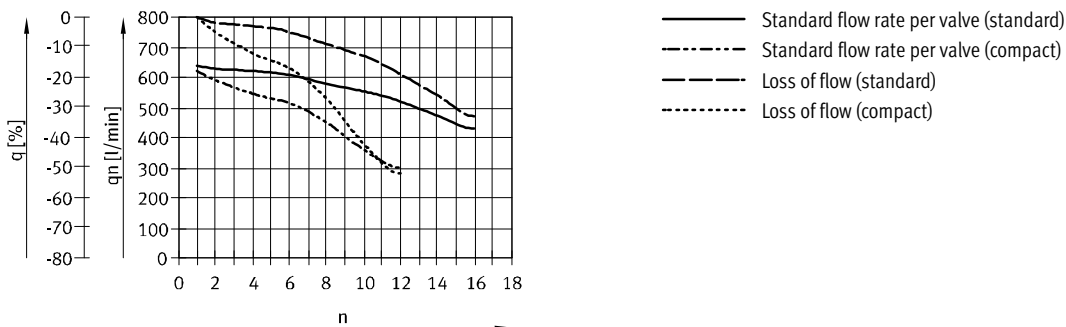
Standard nominal flow rate q_{nN} , with several valves n switched in parallel, size 20

For 3/2-way valves, valve manifold



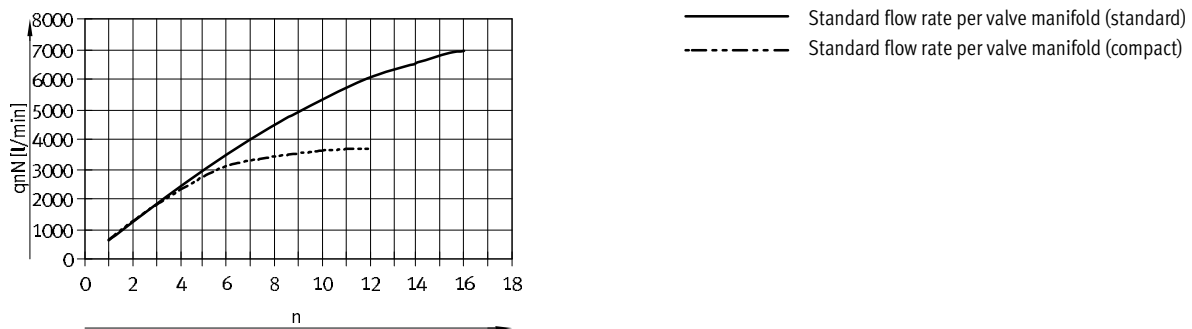
Standard nominal flow rate q_n , with several valves n switched in parallel, size 20

For 3/2-way valves, individual valve



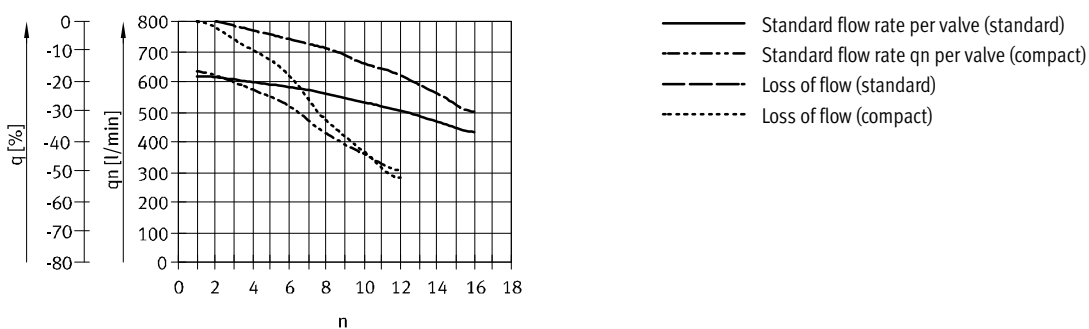
Standard nominal flow rate q_{nN} , with several valves n switched in parallel, size 20

For 5/2-way valves, valve manifold



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

For 5/2-way valves, individual valve

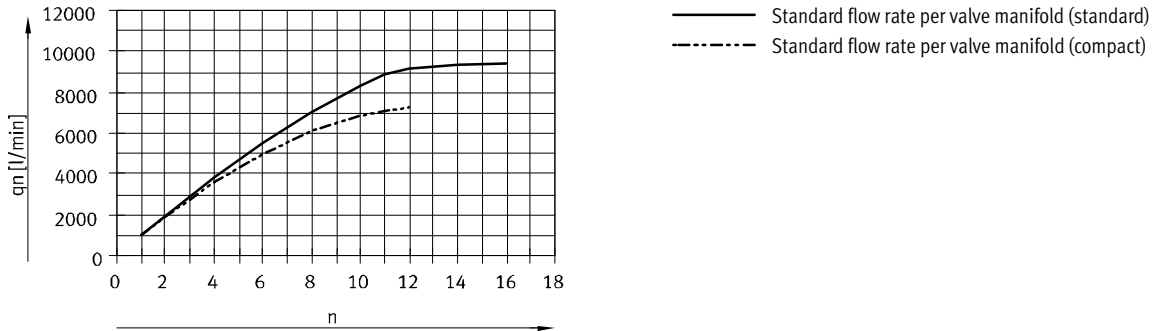


Solenoid valves VUVS/valve manifold VTUS, NPT

Key features – Pneumatics

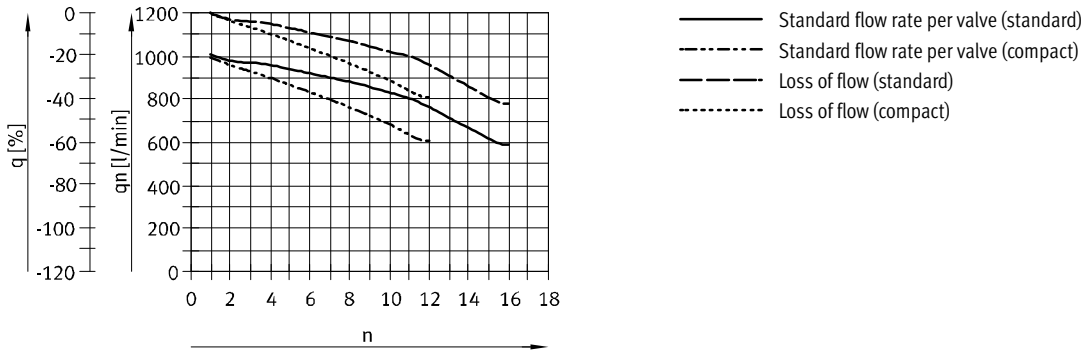
Standard nominal flow rate q_n , with several valves n switched in parallel, size 25

For 3/2-way valves, valve manifold



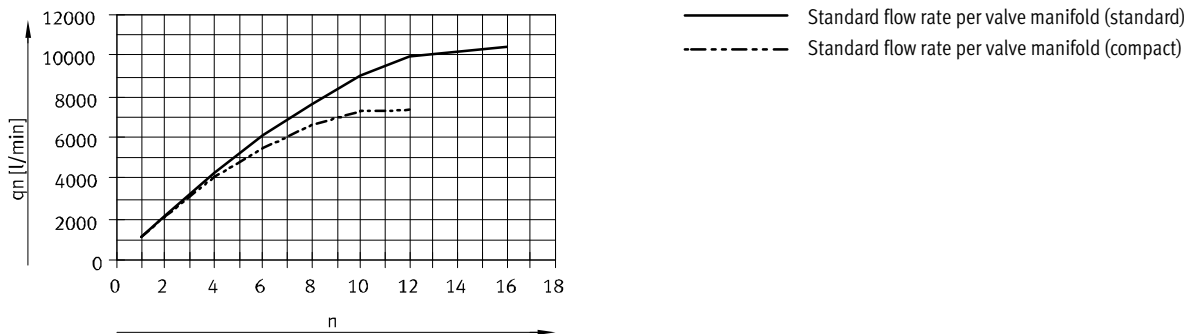
Standard nominal flow rate q_n , with several valves n switched in parallel, size 25

For 3/2-way valves, individual valve



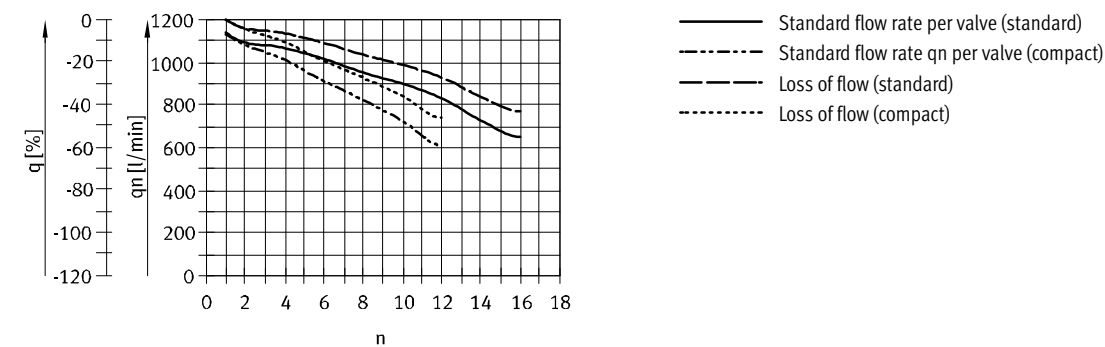
Standard nominal flow rate q_n , with several valves n switched in parallel, size 25

For 5/2-way valves, valve manifold



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

For 5/2-way valves, individual valve

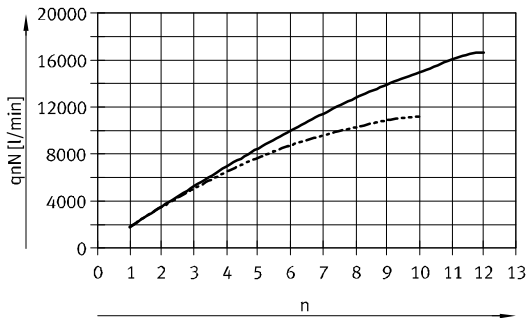


Solenoid valves VUVS/valve manifold VTUS

Key features – Pneumatics

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

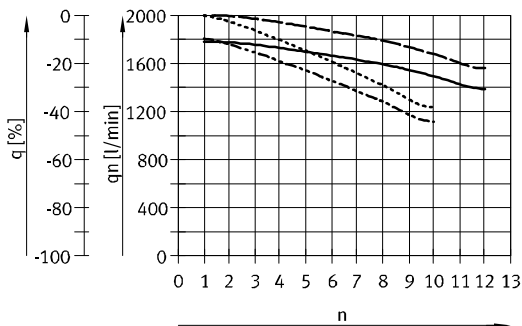
For 3/2-way valves, valve manifold



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

Standard nominal flow rate q_n , with several valves n switched in parallel, size 30

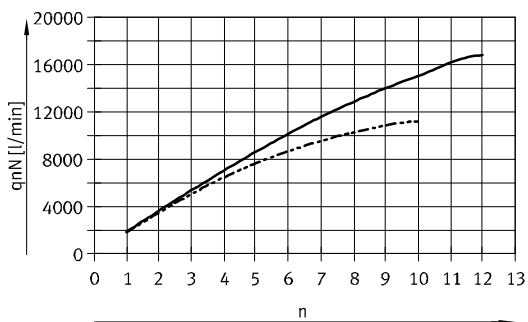
For 3/2-way valves, individual valve



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

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

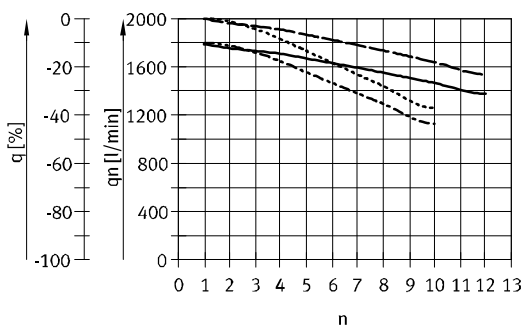
For 5/2- and 5/3-way valves, valve manifold



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

Standard nominal flow rate q_n , with several valves n switched in parallel, size 30

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



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

Solenoid valves VUVS/valve manifold VTUS, NPT


Key features – Pneumatics

FESTO

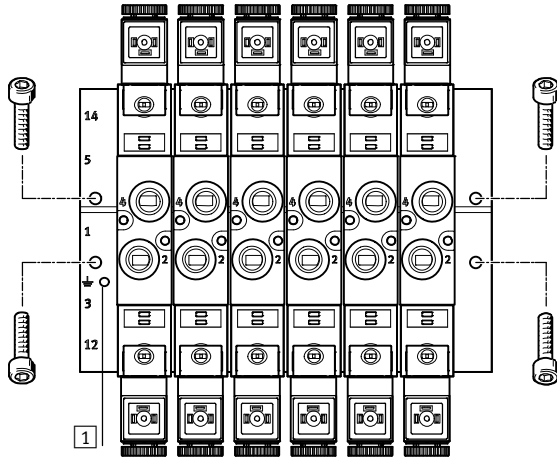
Mounting valve manifold VTUS

Sturdy valve manifold owing to:

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

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

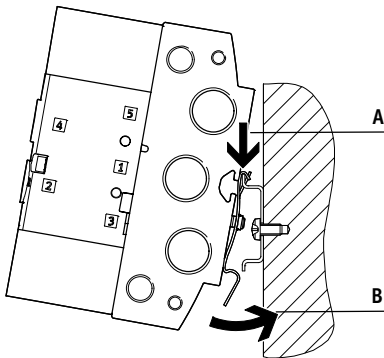
Wall mounting



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


1 Earth terminal

H-rail mounting



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

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

 Note

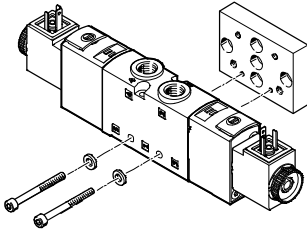
- Note the max. tightening torque of the screws for H-rail mounting.
- Only horizontal H-rail mounting is permissible
- Mounting only possible on H-rail TH 35-... to EN 60715
- Vibration/shock loads are not permissible with H-rail mounting.
- Further note on assembly
→ Assembly instructions for H-rail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

Solenoid valves VUVS/valve manifold VTUS, NPT

Key features – Assembly

Mounting individual valve VUVS

Wall mounting



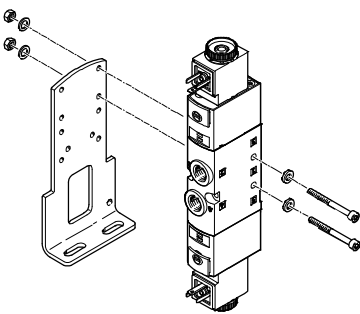
For mounting individual valves on a flat surface, e.g. aluminium profile systems.

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

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

The wall mounting VAME-B10-20-W can be used for sizes 20, 25 and 30.

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.

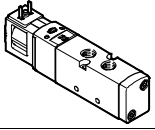
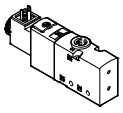
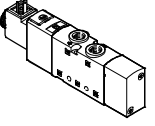
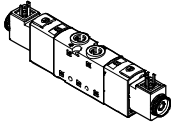
-  - Note

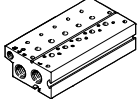
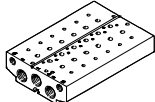
Further mounting options for foot mounting VAME-B10-...

➔ Technical data – Solenoid valves, dimensions

Solenoid valves VUVS, NPT

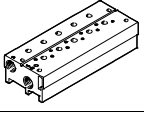
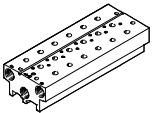
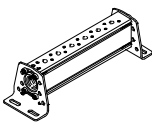
Product range overview

Valve	Size	Working port	Order code for valves and flow rate [l/min]							→ Page/ Internet
			M32C	M32U	M52	B52	P53C	P53U	P53E	
5/2-way valve VUVS-LT										
	25	1/4 NPT	-	-	■ 1000	■ 1000	-	-	-	34
3/2-way valve VUVS-L										
	20	1/8 NPT	■ 700	■ 700	-	-	-	-	-	43
	25	1/4 NPT	■ 1000	■ 1000	-	-	-	-	-	54
	30	3/8 NPT	■ 2300	■ 2300	-	-	-	-	-	66
5/2-way valve VUVS-L										
	20	1/8 NPT	-	-	■ 700	■ 700	-	-	-	43
	25	1/4 NPT	-	-	■ 1300	■ 1300	-	-	-	54
	30	3/8 NPT	-	-	■ 2300	■ 2300	-	-	-	66
5/3-way valve VUVS-L										
	20	1/8 NPT	-	-	-	-	■ 700	■ 600	■ 600	43
	25	1/4 NPT	-	-	-	-	■ 1200	■ 1000	■ 1000	54
	30	3/8 NPT	-	-	-	-	■ 2000	■ 1600	■ 1600	66

Design	Size	Description	→ Page/ Internet
Manifold block for 3/2-way valves, standard			
	20	VABM-B10-20E-N38- ... P3	Connection 3/8 NPT
	25	VABM-B10-25E-N12- ... P3	Connection 1/2 NPT
	30	VABM-B10-30E-N34- ... P3	Connection 3/4 NPT
Manifold block for 5/2- and 5/3-way valves, standard			
	20	VABM-B10-20E-N38- ...	Connection 3/8 NPT
	25	VABM-B10-25E-N12- ...	Connection 1/2 NPT
	30	VABM-B10-30E-N34- ...	Connection 3/4 NPT

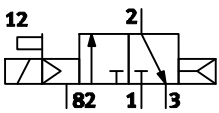
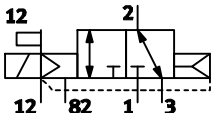
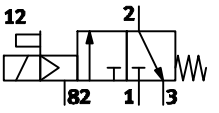
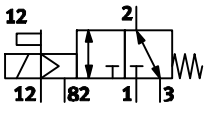
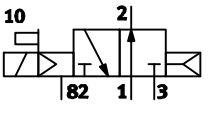
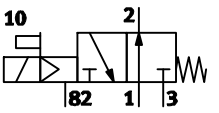
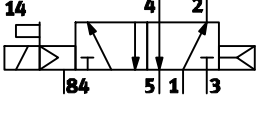
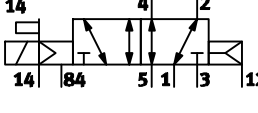
Solenoid valves VUVS, NPT

Product range overview

Design	Size	Description	→ Page/ Internet	
Manifold block for 3/2-way valves, compact				
	20	VABM-B10-20S-N14- ... P3	Connection 1/4 NPT	79
	25	VABM-B10-25S-N38- ... P3	Connection 3/8 NPT	89
	30	VABM-B10-30S-N12- ... P3	Connection 1/2 NPT	99
Manifold block for 5/2- and 5/3-way valves, compact				
	20	VABM-B10-20S-N14- ...	Connection 1/4 NPT	79
	25	VABM-B10-25S-N38- ...	Connection 3/8 NPT	89
	30	VABM-B10-30S-N12- ...	Connection 1/2 NPT	99
Supply manifold, for mounting on both sides				
	20	VABM-B10-20-N38- ... -P53	Connection 3/8 NPT	79
	25	VABM-B10-25-N12- ... -P53	Connection 1/2 NPT	89
	30	VABM-B10-30-N34- ... -P53	Connection 3/4 NPT	99

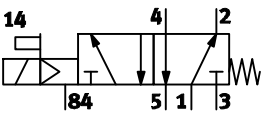
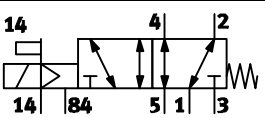
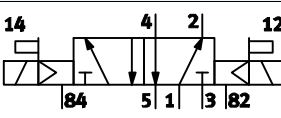
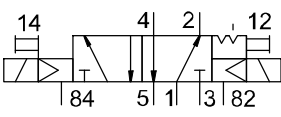
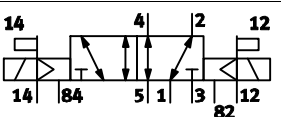
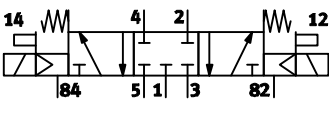
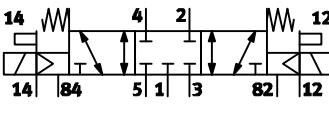
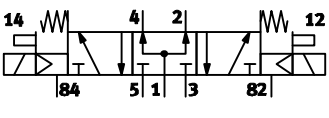
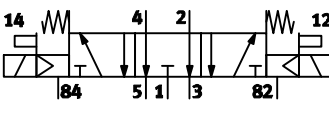
Solenoid valves VUVS, NPT

Overview of valve functions

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

Solenoid valves VUVS, NPT

Overview of valve functions

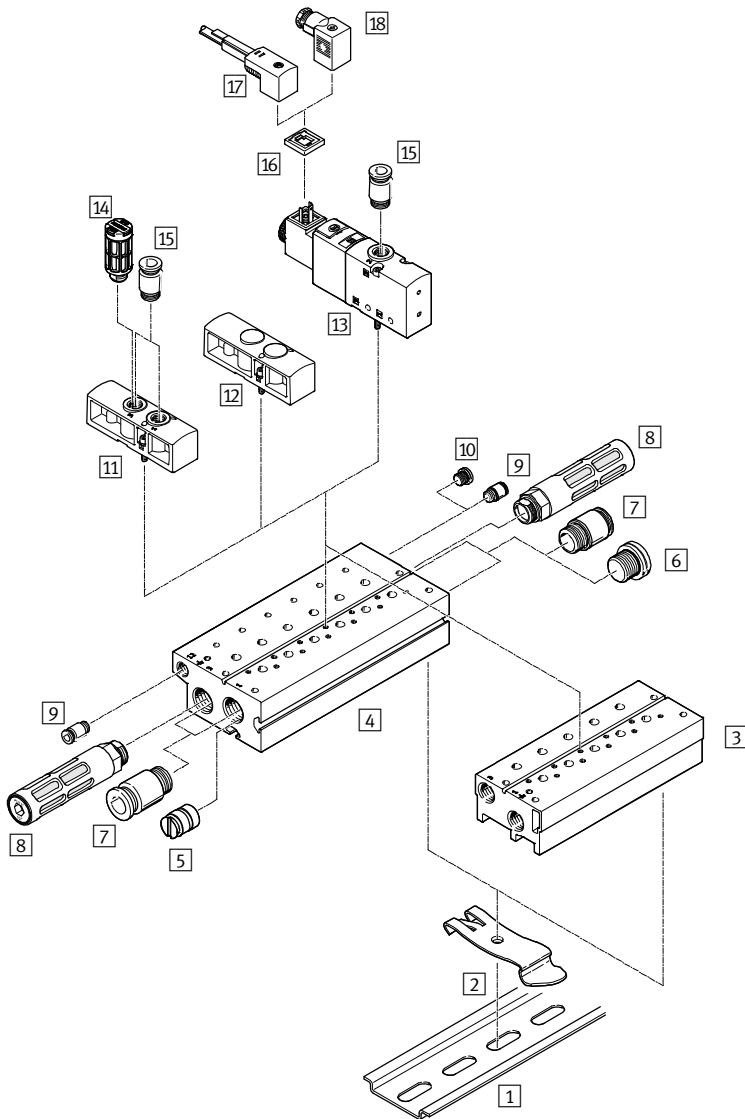
Valve	Order code for valves	Description	VUVS-LT			VUVS-L		
			Size			Size		
			25			20	25	30
5/2-way valve, single solenoid, mechanical spring								
	M52-M	Internal pilot air supply, not reversible	-	■	-	■	■	■
	M52-MZ	External pilot air supply, reversible	-	-	-	■	■	-
5/2-way valve, double solenoid								
	B52	Internal pilot air supply, not reversible	-	-	-	■	■	■
		Internal pilot air supply, not reversible	-	■	-	-	-	-
	B52-Z	External pilot air supply, reversible	-	-	-	■	■	-
5/3-way valve, mechanical spring, closed								
	P53C-M	Internal pilot air supply, not reversible	-	-	-	■	■	■
	P53C-MZ	External pilot air supply, reversible	-	-	-	■	■	-
5/3-way valve, mechanical spring, pressurised								
	P53U	Internal pilot air supply, not reversible	-	-	-	■	■	■
5/3-way valve, mechanical spring, exhausted								
	P53E	Internal pilot air supply, not reversible	-	-	-	■	■	■

Solenoid valves VUVS/valve manifold VTUS, NPT

Peripherals overview VUVS-L

FESTO

Manifold block for 3/2-way valves



Solenoid valves VUVS/valve manifold VTUS, NPT

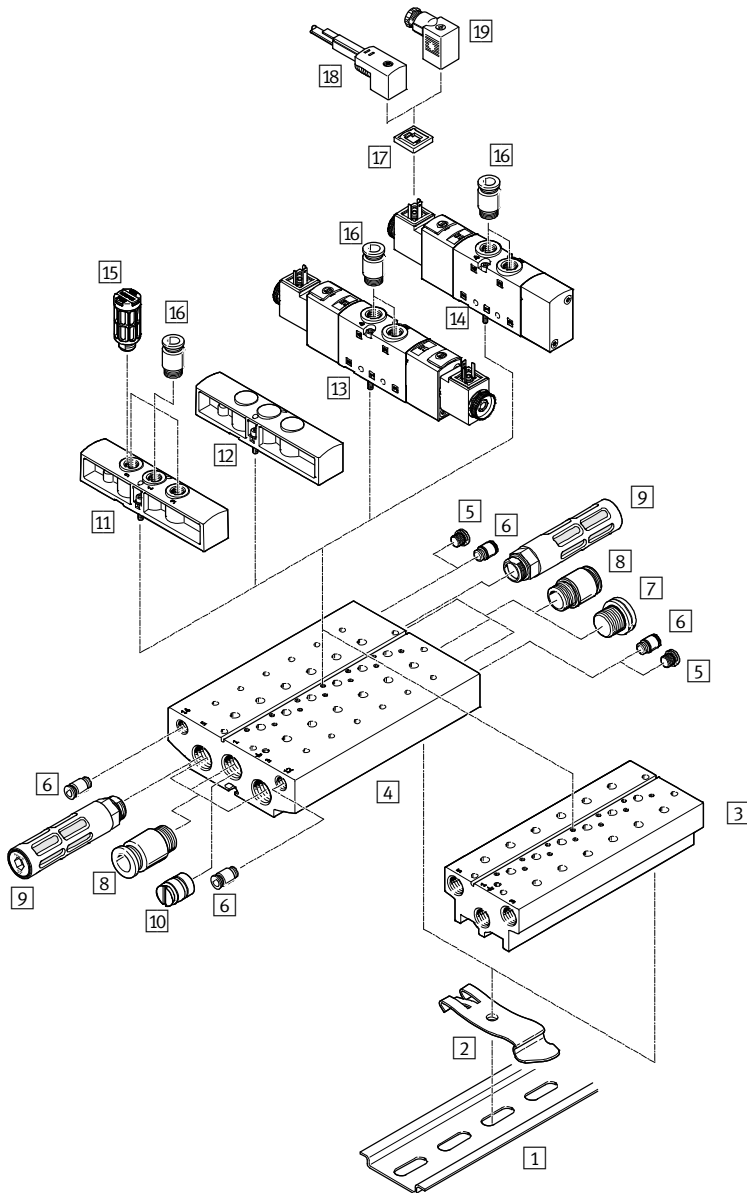
Peripherals overview VUVS-L

Name designation	Brief description	→ Page/Internet
1 H-rail	Mounting rail to EN 60715	–
2 H-rail mounting	For H-rail mounting	88/98/107
3 Compact manifold block	For 3/2-way valves, no port for external pilot air supply	84/95/104
4 Standard manifold block	For 3/2-way valves, with port 10/12 for external pilot air supply	84/95/104
5 Separator	For creating pressure zones in ports 1 and 3	88/98/107
6 Blanking plug	For ports 1 and 3, supply and exhaust ports	88/98/107
7 Push-in fitting	For ports 1 and 3, supply and exhaust ports	86/97/106
8 Silencer	For port 3, exhaust	87/98/107
9 Push-in fitting	For port 10/12, external pilot air supply, for standard manifold block only	86/97/106
10 Blanking plug	For port 10/12, external pilot air supply, for standard manifold block only	88/98/107
11 Supply plate	For additional air supply and exhaust via a valve position	85/96/105
12 Blanking plate	For covering unused valve positions	85/96/105
13 Solenoid valve	3/2-way valve (without solenoid coil)	50/61/73
14 Silencer	For port 3, exhaust	87/98/107
15 Push-in fitting	For ports 1 and 3, supply and exhaust ports with supply plate For port 2, working port, on the valve	86/97/106
16 Illuminating seal	For indicating the switching status	52/64/75
17 Plug socket with cable	For solenoid valves VUVS, type C, to DIN EN 175301-803	52/64/75
18 Plug socket	For solenoid valves VUVS, type C, to DIN EN 175301-803	52/63/74

Solenoid valves VUVS/valve manifold VTUS, NPT

Peripherals overview VUVS-LT, VUVS-L

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



Solenoid valves VUUS/valve manifold VTUS, NPT

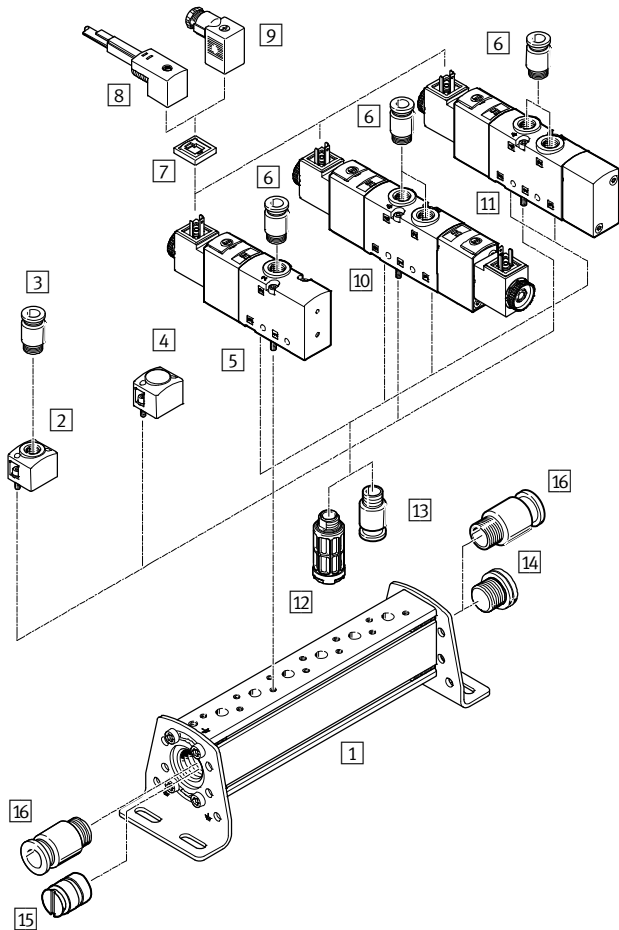
Peripherals overview VUUS-LT, VUUS-L

Name designation	Brief description	→ Page/Internet
1 H-rail	Mounting rail to EN 60715	-
2 H-rail mounting	For H-rail mounting	88/98/107
3 Compact manifold block	For 5/2- and 5/3-way valves, no port for external pilot air supply	84/95/104
4 Standard manifold block	For 5/2- and 5/3-way valves, with ports 12 and 14 for external pilot air supply	84/95/104
5 Blanking plug	For ports 12 and 14, external pilot air supply, for standard manifold block only	88/98/107
6 Push-in fitting	For ports 12 and 14, external pilot air supply, for standard manifold block only	86/97/106
7 Blanking plug	For ports 1, 3 and 5, supply and exhaust ports	88/98/107
8 Push-in fitting	For ports 1, 3 and 5, supply and exhaust ports	86/97/106
9 Silencer	For ports 3 and 5, exhaust	87/98/107
10 Separator	For creating pressure zones in ports 1, 3 and 5	88/98/107
11 Supply plate	For additional air supply and exhaust via a valve position	85/96/105
12 Blanking plate	For covering unused valve positions	85/96/105
13 Solenoid valve	5/3-way valve and 5/2-way valve, double solenoid (without solenoid coil)	83/50/61/73
14 Solenoid valve	5/2-way valve, single solenoid (without solenoid coil)	83/50/61/73
15 Silencer	For ports 3 and 5, exhaust	87/98/107
16 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	86/97/106
17 Illuminating seal	For indicating the switching status	52/64/75
18 Plug socket with cable	For solenoid valves VUUS, type C, to DIN EN 175301-803	52/64/75
19 Plug socket	For solenoid valves VUUS, type C, to DIN EN 175301-803	52/63/74

Solenoid valves VUVS/valve manifold VTUS, NPT

Peripherals overview VUVS-LT, VUVS-L


Supply manifold for mounting on both sides



Name designation	Brief description	→ Page/Internet
1 Supply manifold	For mounting on both sides Mounting bracket can be adjusted through $\pm 30^\circ$	84/95/104
2 Supply plate	For additional air supply via a valve position	85/96/105
3 Push-in fitting	For port 1	86/97/106
4 Blanking plate	For covering unused valve positions	85/96/105
5 Solenoid valve	3/2-way valve (without solenoid coil)	50/61/73
6 Push-in fitting	For ports 2, 4, working port	86/97/106
7 Illuminating seal	For indicating the switching status	52/64/75
8 Plug socket with cable	For solenoid valves VUVS, type C, to DIN EN 175301-803	52/64/75
9 Plug socket	For solenoid valves VUVS, type C, to DIN EN 175301-803	52/63/74
10 Solenoid valve	5/3-way valve and 5/2-way valve, double solenoid (without solenoid coil)	83/50/61/73
11 Solenoid valve	5/2-way valve, single solenoid (without solenoid coil)	83/50/61/73
12 Silencer	For ports 3 and 5, exhaust, on the valve	87/98/107
13 Push-in fitting	For ports 3 and 5, exhaust, on the valve	86/97/106
14 Blanking plug	For port 1, supply port	88/98/107
15 Separator	For creating pressure zones	88/98/107
16 Push-in fitting	For port 1, supply port	86/97/106

Valve manifold VTUS, NPT

Technical data – Valve manifold

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



General technical data		20	25	30
Size		20	25	30
Valve manifold configuration		Fixed grid		
Valve width	[mm]	21	26.5	31
Valve design	VUVS-L	Piston spool	Piston spool	Piston spool
	VUVS-LT	–	Disc seat	–
Electrical actuation		Individual connection		
Reset method for valves	VUVS-L	Pneumatic or mechanical spring		
	VUVS-LT	Mechanical spring		
Pilot air supply port		Internal or external		
Flow direction	VUVS-L	Reversible with restrictions		
	VUVS-LT	Non-reversible		
Suitable for vacuum	VUVS-L	Yes with external pilot air supply		
	VUVS-LT	No		
Non-overlapping	VUVS-L	Yes		
	VUVS-LT	No		
Sealing principle		Soft		
Max. no. of valve positions		16 (a maximum of 18 valve positions with extension for standard manifold block)		
Max. number of pressure zones		9		
Exhaust air function		With flow control		
Type of actuation		Electrical		
Nominal operating voltage	[V DC]	12, 24		
	[V AC]	24, 110, 120, 230, 240		
Standard nominal flow rate qnN	[l/min]	600 ... 700	1000 ... 1300	1600 ... 2300
Pilot air connection	Standard manifold block	12/14	1/8 NPT	1/8 NPT
	Compact manifold block	12/14	On the valve	On the valve
	Supply manifold	12/14	On the valve	On the valve
Pilot exhaust air port	82/84	UNF10/32		
Mounting position		Any		
Degree of protection		IP65, IP67		
		With plug socket, to IEC 60529		
Permissible voltage fluctuations	[%]	± 10		
Corrosion resistance class CRC ¹⁾		2		
Note on materials		RoHS compliant		
Information on materials - seals	VUVS-L	HNBR, NBR		
	VUVS-LT	–	HNBR, NBR, TPE-U(PU)	–

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

Valve manifold VTUS

Technical data – Valve manifold

ATEX	
ATEX category for gas	II 3G
Type of ignition protection for gas	Ex ec IIC T4 X Gc
ATEX category for dust	II 3D
Type of ignition protection for dust	Ex tc IIIC T115°C X Dc
Explosion ambient temperature [°C]	-10 ... +60
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)

Operating and environmental conditions		
Valve design	Piston spool	Disc 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 operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)	
Operating pressure		
With external pilot air [bar]	-0.9 ... +10	+1.5 ... +10 (B52)
With internal pilot air [bar]	+1.5 ... +10	+2.5 ... +10 (M52)
	+2.5 ... +10 (M32...-A, M32...-M, M52-A)	+1.5 ... +10 (B52)
		+2.5 ... +10 (M52)
Pilot pressure [bar]	1.5 ... 10 (B52)	1.5 ... 10 (B52)
	2.5 ... 10	2.5 ... 10 (M52)
Ambient temperature [°C]	-10 ... +60	
Temperature of medium [°C]	-10 ... +60	
Approval certificate	c UL us - Recognized (OL)	

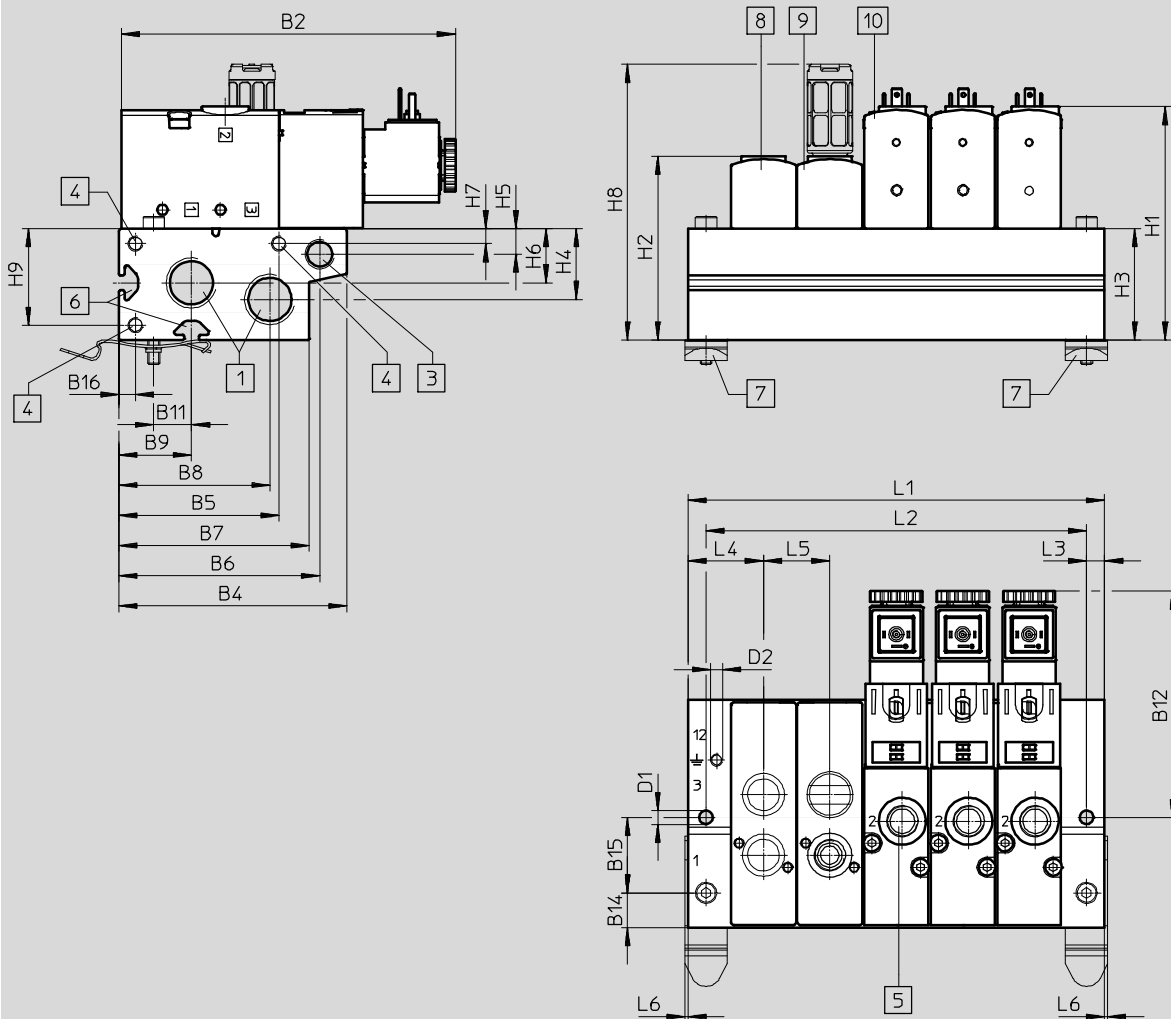
Valve manifold VTUS, NPT

Technical data – Valve manifold

Dimensions – Valve manifold

Download CAD data → www.festo.com

With 3/2-way valves, standard manifold block



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

Valve manifold VTUS, NPT

Technical data – Valve manifold

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

Type	D1 Ø	D2	H1	H2	H3	H4	H5	H6	H7	H8	H9	L3	L4	L5	L6
VTUS-20	4.5	M4x6.5	77.4	61	37	23.5	8.5	18	5	91.4	32	6	25	22	1
VTUS-25	5.5	M4x9	95.5	71	45	25	9	22	5	123.4	39	6	29.8	27.5	1
VTUS-30	4.5	M5x11	118	91	61	35	9	28.5	6.5	170.1	54.5	7.5	34	32	–

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

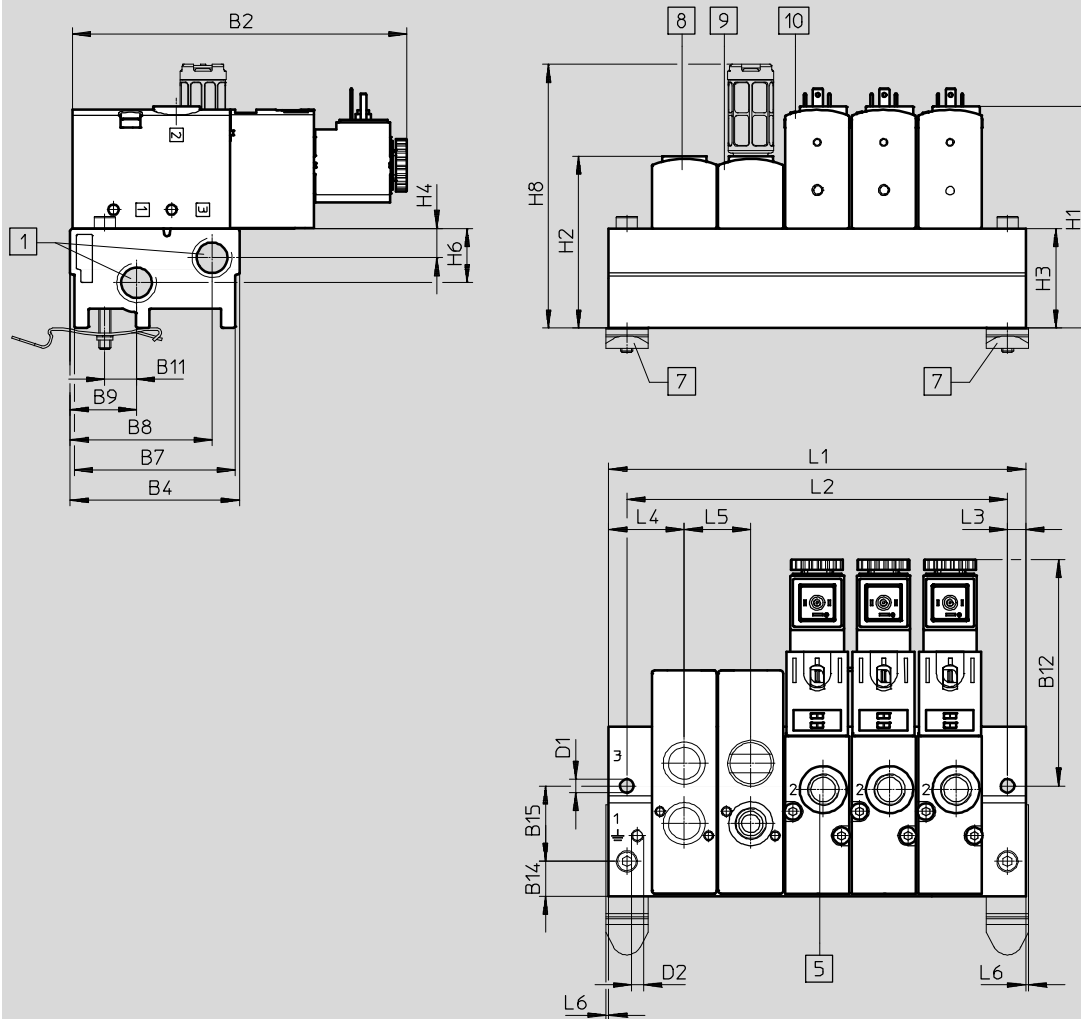
Valve manifold VTUS, NPT

Technical data – Valve manifold

Dimensions – Valve manifold

With 3/2-way valves, compact manifold block

Download CAD data → www.festo.com



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

Valve manifold VTUS, NPT

Technical data – Valve manifold

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

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

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

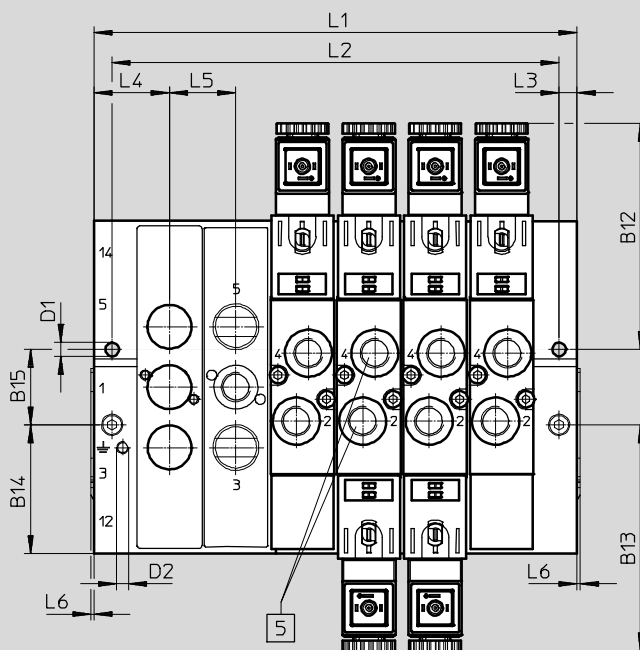
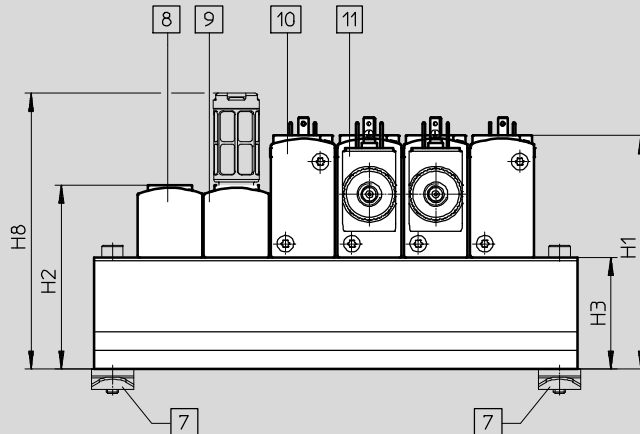
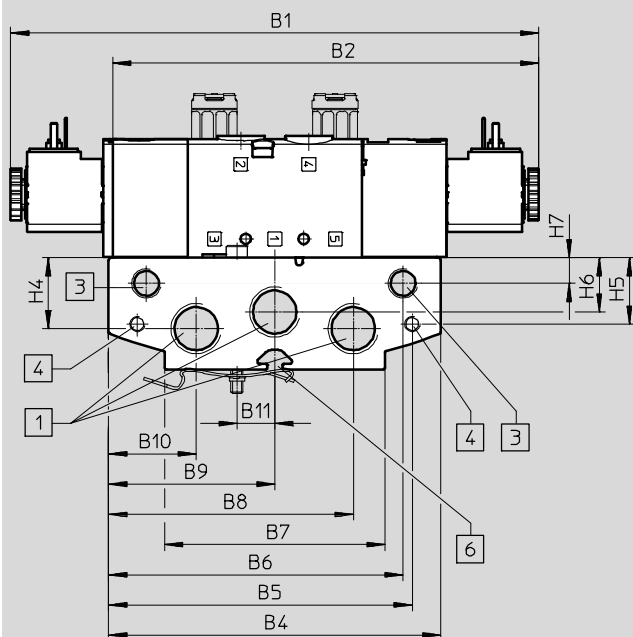
Valve manifold VTUS, NPT

Technical data – Valve manifold

Dimensions – Valve manifold

Download CAD data → www.festo.com

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



- | | | | |
|--|--|---|---|
| <p>1 Ports 1, 3 and 5
(at both ends):
3/8 NPT for VTUS-20
1/2 NPT for VTUS-25
3/4 NPT for VTUS-30</p> <p>3 Ports 12 and 14
(at both ends):
1/8 NPT for VTUS-20
1/8 NPT for VTUS-25
1/8 NPT for VTUS-30</p> | <p>4 Thread for extension module:
M5x15.5 for VTUS-20
M5x18 for VTUS-25
M5x18 for VTUS-30</p> <p>5 Ports 2 and 4:
1/8 NPT for VTUS-20
1/4 NPT for VTUS-25
3/8 NPT for VTUS-30</p> <p>6 Profile slot IPM-08 system 8</p> | <p>7 H-rail mounting VAME-T-M4 for
VTUS-20
VAME-T-M5 for VTUS-25
VAME-T-M6 for VTUS-30</p> <p>8 Blanking plate</p> <p>9 Supply plate,
ports 1, 3 and 5:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30</p> | <p>10 5/2-way valve, single solenoid</p> <p>11 5/2-way valve, double solenoid, or 5/3-way valve</p> |
|--|--|---|---|

Valve manifold VTUS, NPT

Technical data – Valve manifold

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

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

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

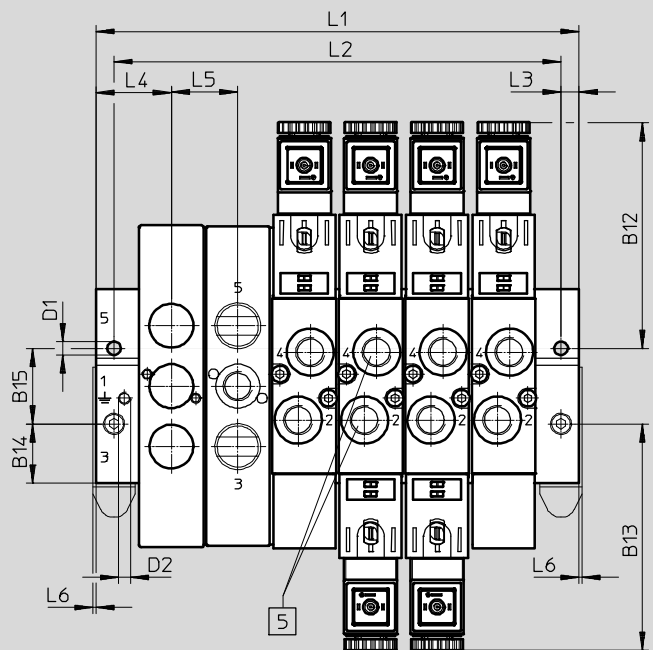
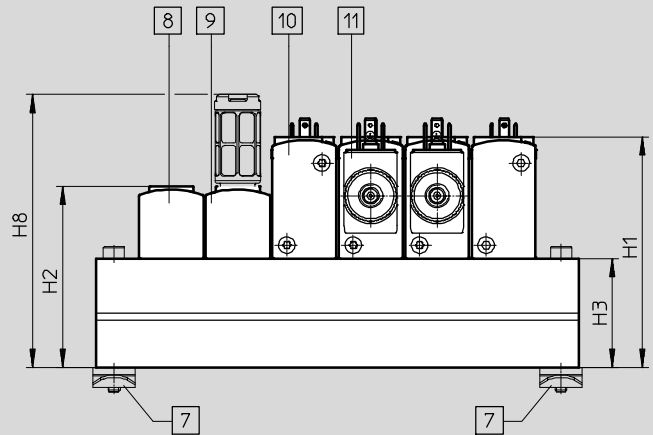
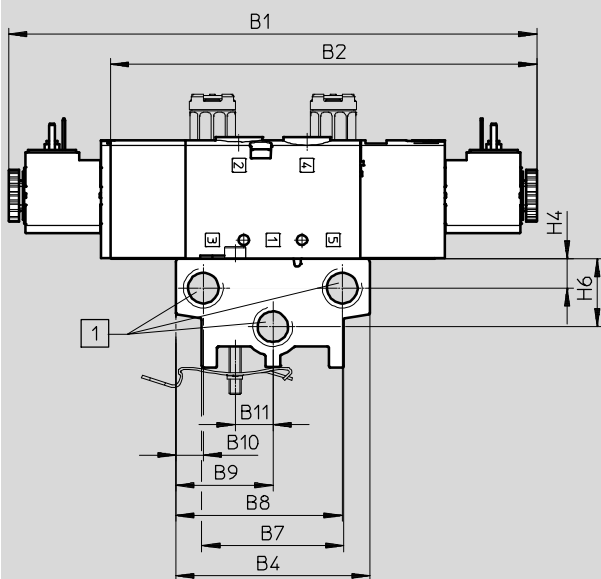
Valve manifold VTUS, NPT

Technical data – Valve manifold

Dimensions – Valve manifold

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

Download CAD data → www.festo.com



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

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

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

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

Valve manifold VTUS, NPT

Technical data – Valve manifold

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

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

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

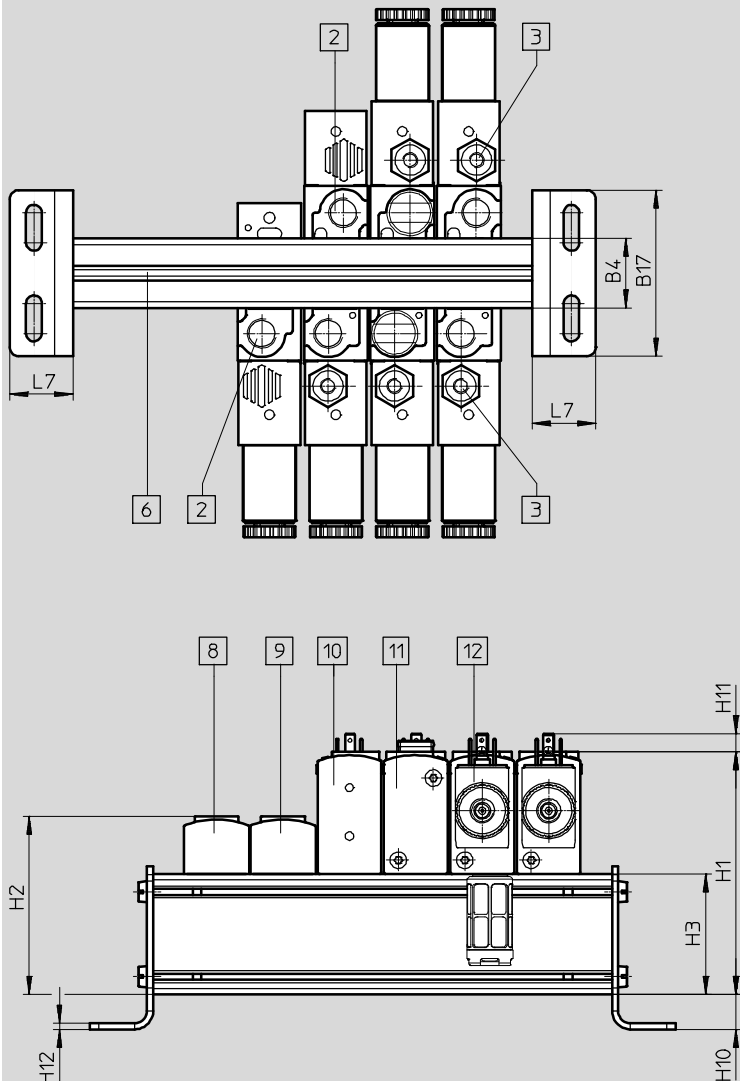
Valve manifold VTUS, NPT

Technical data – Valve manifold

Dimensions – Supply manifold

Download CAD data → www.festo.com

Mounting on both sides



- | | | | |
|--|--|---|--|
| <p>2 Ports 3 and 5:
1/8 NPT for VTUS-20
1/4 NPT for VTUS-25
3/4 NPT for VTUS-30</p> | <p>3 Port 12/14:
UNF 10/32 for VTUS-20
UNF 10/32 for VTUS-25
1/8 NPT for VTUS-30</p> <p>6 Profile slot IPM-08 system 8</p> | <p>8 Blanking plate</p> <p>9 Supply plate,
port 1:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30</p> | <p>10 3/2-way valve</p> <p>11 5/2-way valve, single solenoid</p> <p>12 5/2-way valve, double solenoid, or 5/3-way valve</p> |
|--|--|---|--|

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

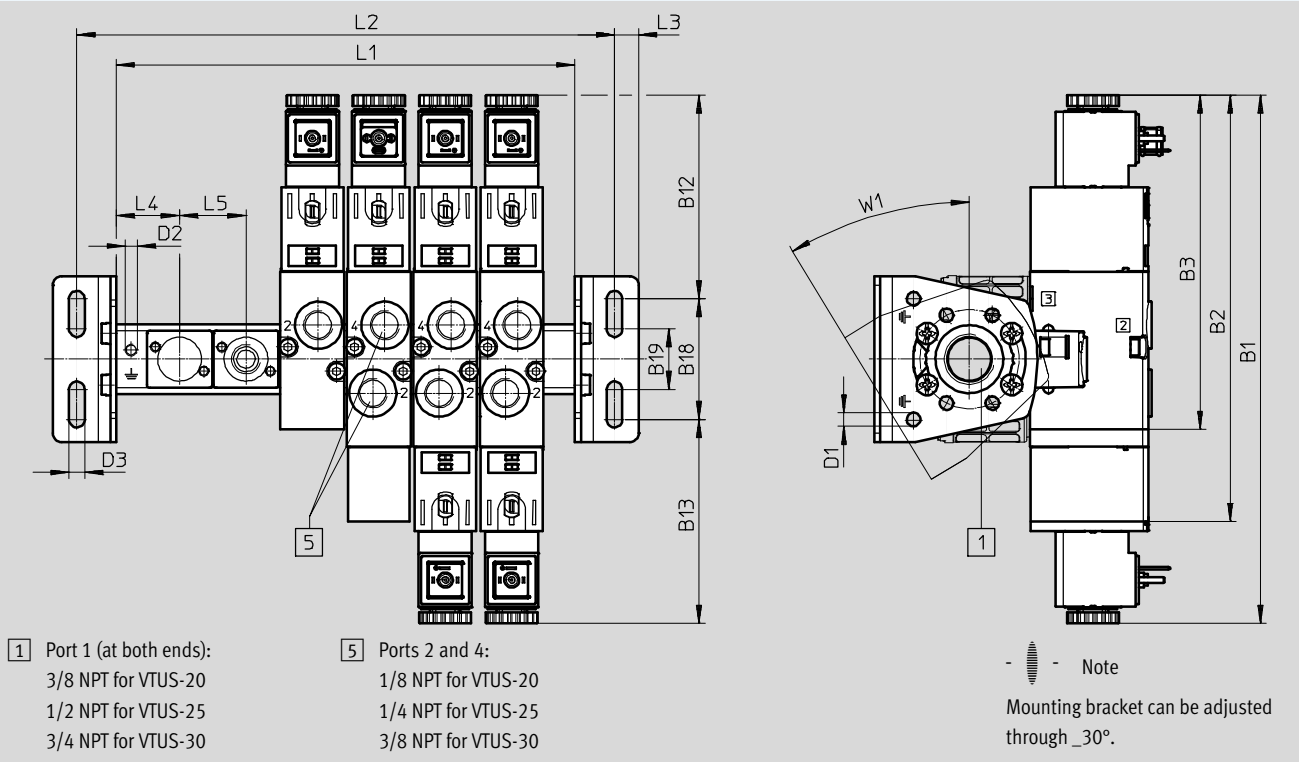
Valve manifold VTUS, NPT

Technical data – Valve manifold

Dimensions – Supply manifold

Download CAD data → www.festo.com

Mounting on both sides



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

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

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

Solenoid valves VUVS, NPT


Order code – Solenoid valves

VUVS	-	L							
Valve type									
In-line valve		L							
Design principle									
Piston spool with sealing cartridge									-
Poppet valve, soft seal									T
Size									
Valve width	21 mm								20
	26.5 mm								25
	31 mm								30
Valve functions									
3/2-way valve, normally closed									M32C
3/2-way valve, normally open									M32U
5/2-way valve, single-solenoid									M52
5/2-way valve, double-solenoid									B52
5/3-way valve, mid-position closed									P53C
5/3-way valve, mid-position pressurised									P53U
5/3-way valve, mid-position exhausted									P53E
Reset method									
Pneumatic spring for M52 and M32									A
Mechanical spring for M52 and M32									M
For B52 and P53									-
Pilot air supply									
Internal									-
External									Z
Manual override									
Non-detenting, detenting without accessories									D
Covered									S
Non-detenting									H

Version									
- Extended features									
S Core features									
Electrical accessories, valve									
- None									
+G Connector socket without LED									
EU certification									
- None									
EX2 II 3GD									
Degree of protection, electrical system									
- Standard									
S8 IP67									
Electrical connection									
- None									
A1 Connection pattern type A, to EN 175301									
C1 Connection pattern type C, to EN 175301									
B2 Connection pattern type B, industry standard									
Nominal operating voltage									
- None									
1 24 V DC									
1A 24 V AC									
3W 230/240 V AC									
5 12 V DC									
16B 110/120 V AC									
Valve pilot control interface									
F7 With 8 mm armature tube, short									
F8 With 8 mm armature tube, standard									
Exhaust port									
- Without fitting									
QN With fitting									
U1 Silencer with metal housing									
U3 Silencer with polymer housing									
U5 Silencer with sintered housing									
Pneumatic connection									
N18 1/8 NPT									
N14 1/4 NPT									
N38 3/8 NPT									
T532 Push-in connector 5/32"									
T14 Push-in connector 1/4"									
T516 Push-in connector 5/16"									
T38 Push-in connector 3/8"									
T12 Push-in connector 1/2"									

Solenoid valves VUVS-LT, size 25, NPT

Technical data

 Flow rate
Up to 1000 l/min (±20%)

 Valve width
26.5 mm

 Voltage
24 V DC



General technical data		
Valve function	5/2-way valve	
Order code for valves	M52	B52
Valve width [mm]	26.5	
Nominal size [mm]	6.6	
Design	Disc seat	
Flow direction	Non-reversible	
Pilot air supply port	Internal or external	
Type of control	Piloted	
Manual override	Non-detenting, detenting	
Non-overlapping	No	
Sealing principle	Soft	
Type of mounting	Optionally via through-hole or on manifold rail	
Standard nominal flow rate q _{nN} [l/min]	1000	1000
Type of actuation	Electrical	
Mounting position	Any	
Exhaust air function	With flow control	
Connection for venting hole	Not ducted	
b value	0.3	0.2
c value [l/sbar]	4.5	4.6
Pneumatic connection	1, 2, 3 4, 5	1/4 NPT 1/4 NPT
Pilot air port 12, 14	M5	M5
Pilot exhaust air port 82, 84	UNF10-32	UNF10-32
Corrosion resistance ¹⁾	2	

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

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

ATEX	
ATEX category for gas	II 3G
Type of ignition protection for gas	Ex ec IIC T4 X Gc
ATEX category for dust	II 3D
Type of ignition protection for dust	Ex tc IIIC T115°C X Dc
Explosion ambient temperature [°C]	-10 ... +60
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)

Solenoid valves VUVS-LT, size 25, NPT

Technical data

Technical data – 5/2-way valves			
Order code for valves		M52	B52
Normal position		–	–
Stable position		Monostable	Bistable
Reset method		Mechanical spring	–
Switching times	On	13	–
	Off	19	–
	Change-over	–	10
Switching time tolerance	[%]	±20	
Product weight excluding solenoid coil	[g]	299	310
Product weight including solenoid coil	[g]	351	415

Safety data			
Max. positive test pulse 0 signal	[µs]	2000	
Max. negative test pulse 1 signal	[µs]	3600	
Shock resistance		Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27	
Vibration resistance		Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6	

Operating and environmental conditions			
Order code for valves		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 operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)	
Operating pressure	[bar]	2.5 ... 10	1.5 ... 10
Pilot pressure	[bar]	2.5 ... 10	1.5 ... 10
Ambient temperature	[°C]	–10 ... +60	
Temperature of medium	[°C]	–10 ... +60	
Approval certificate		c UL us - Recognized(OL)	

Electrical data			
Electrical connection		Via solenoid coil	
Operating voltage	[V DC]	→ Internet: vacf	
Permissible voltage fluctuations	[%]		
Power	[W]		
Duty cycle ED	[%]		
Degree of protection to EN 60529			

Information on materials	
Housing	Die-cast aluminium (painted)
Seals	HNBR, NBR, TPE-U(PU)
Piston spool	Wrought aluminium alloy
Note on materials	RoHS compliant

Solenoid valves VUVS-LT, size 25, NPT

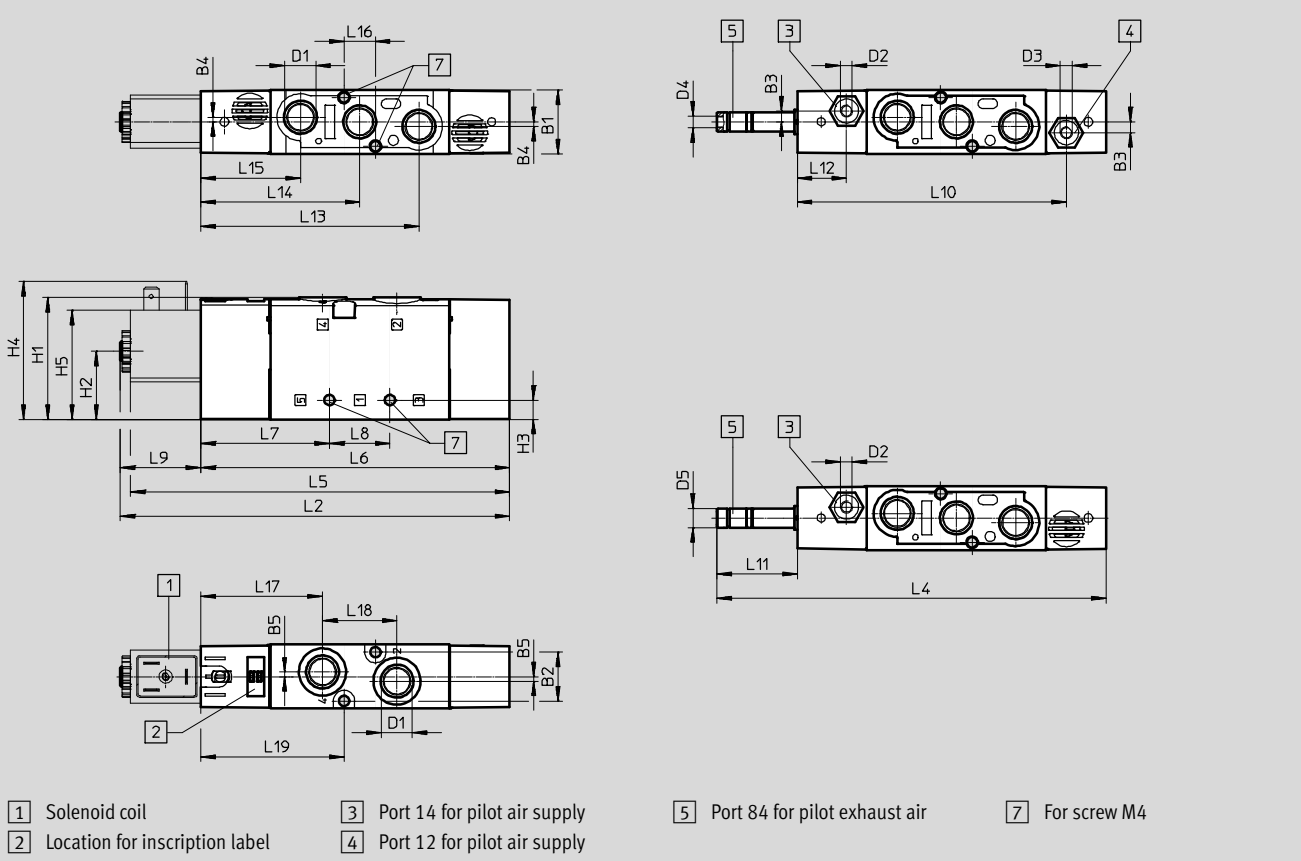
Technical data

Dimensions

Download CAD data → www.festo.com

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

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



Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5	H1	H2	H3	H4	H5
VUVS-LT25-M52-...MD-N14-...	26.5	20.2	-	1.9	1.9	G1/4	-	-	M5	8	50.5	28.2	8	57.2	45.2

Type	L2	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-LT25-M52-...MD-N14-...	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

Solenoid valves VUVS-LT, size 25, NPT

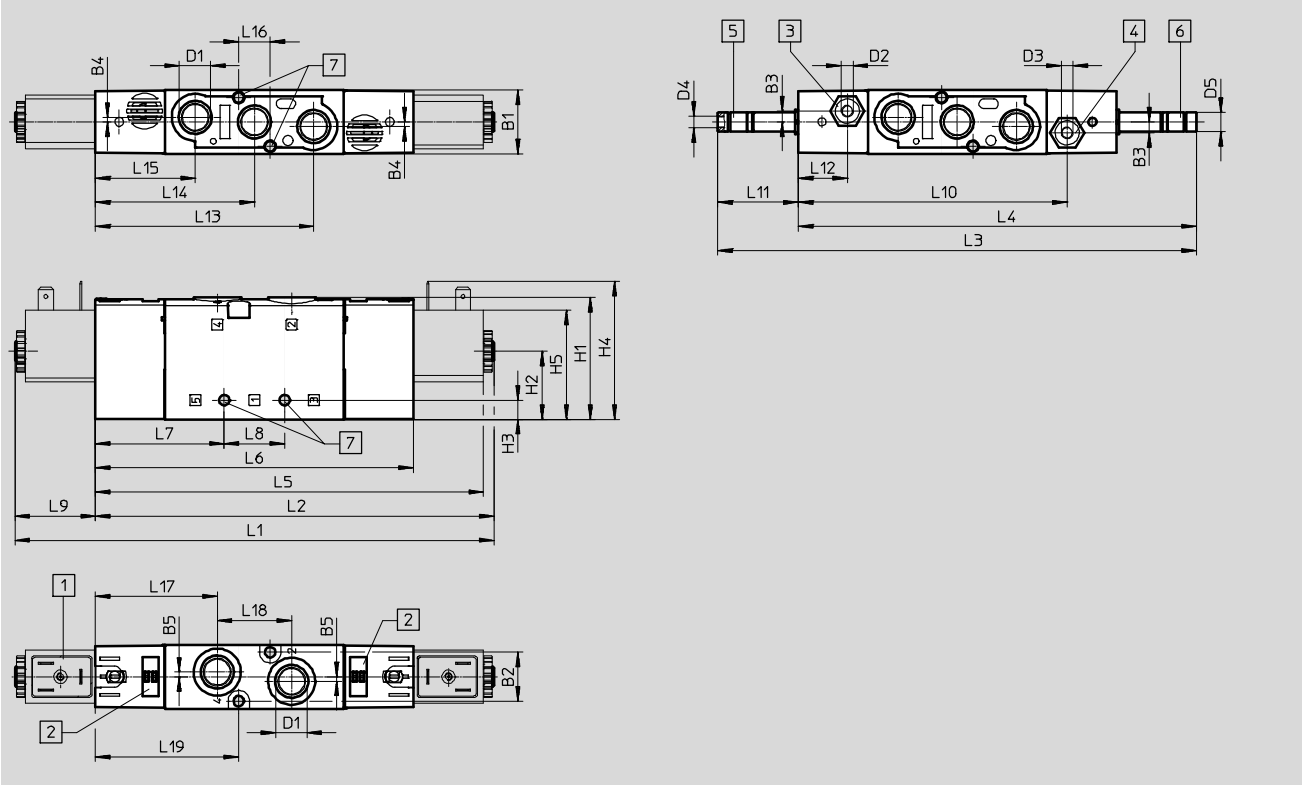
Technical data

Dimensions

Download CAD data → www.festo.com

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

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



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

Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5	H1	H2	H3	H4	H5
VUVS-LT25-B52-D-N14-...	26.5	20.2	-	1.9	1.9	G1/4	-	-	M5	8	50.5	28.2	8	57.2	45.2

Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
VUVS-LT25-B52-D-N14-...	200.3	166	198.2	164.9	160.6	131.6	53.3	25	33.3	-	33.3

Type	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-LT25-B52-D-N14-...	-	90.3	65.8	41.3	13	50.4	30.8	59.3

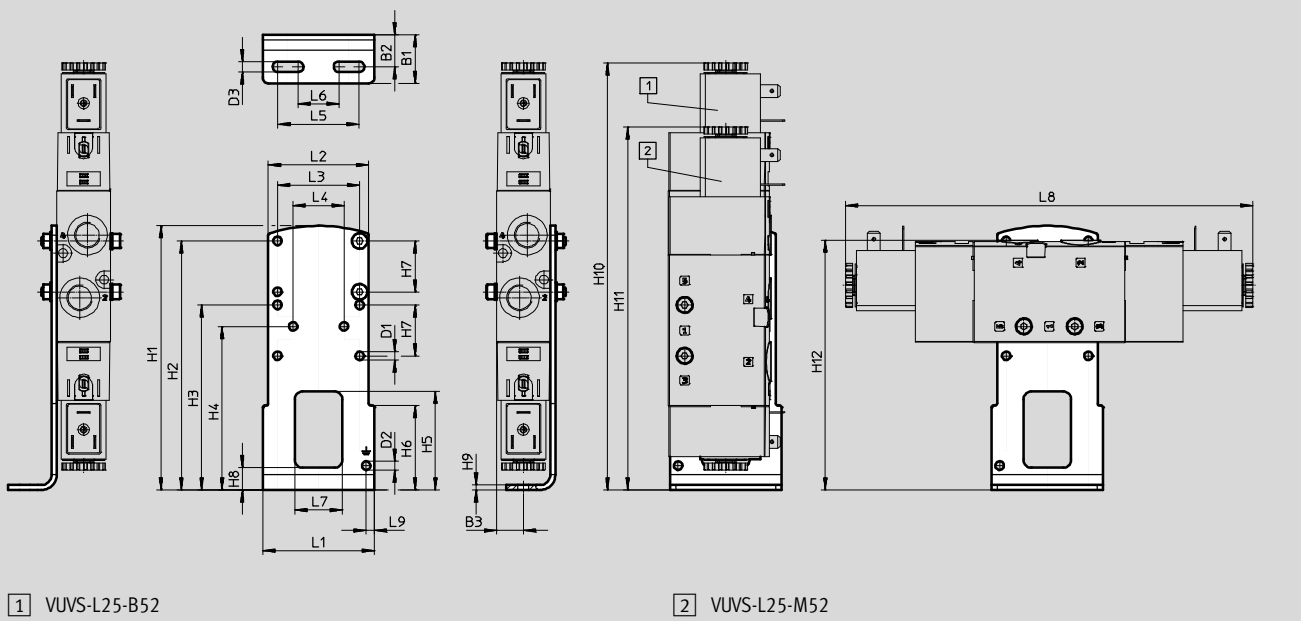
Solenoid valves VUVS-LT, size 25, NPT

Accessories

Dimensions

Download CAD data → www.festo.com

Foot mounting



Type		B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	H1	H2	H3	H4	H5
VAME-B10-25-A	VUVS-LT25-B52	24	15.8	13.3	4.2	4.2	5.2	130	122.5	91	80.5	48.5
	VUVS-LT25-M52											

Type		H6	H7	H8	H9	H10	H11	H12
VAME-B10-25-A	VUVS-LT25-B52	41.5	25	11	2.5	210	-	123
	VUVS-LT25-M52							

Type		L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-25-A	VUVS-LT25-B52	55	49.4	40.4	25	40	20	23.5	198.2	4.1
	VUVS-LT25-M52									

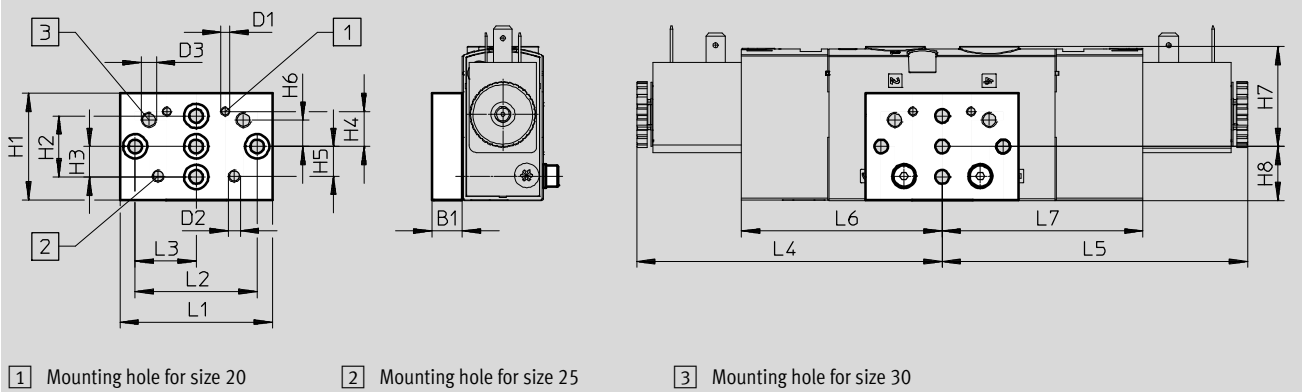
Solenoid valves VUVS-LT, size 25, NPT

Accessories

Dimensions

Download CAD data → www.festo.com

Wall mounting

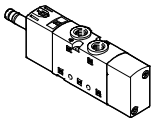
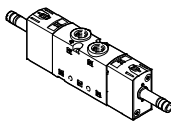





Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUVS-LT25-B52	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUVS-LT25-M52										

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

Solenoid valves VUVS-LT, size 25, NPT

Accessories

Ordering data				
	Code	Valve function	Part No.	Type
5/2-way valve without solenoid coil				
	Single solenoid			
	M52	Mechanical spring return, internal pilot air supply, direction of flow not reversible	8035220	VUVS-LT25-M52-MD-N14-F8
	Double solenoid			
	B52	Internal pilot air supply, direction of flow not reversible	8035222	VUVS-LT25-B52-D-N14-F8

Ordering data				
	Description		Part No.	Type
Solenoid coils for valves				
	Connection 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
Seal set				
	For solenoid valves in order to guarantee protection class IP67		8034609	VAMC-B10-B-B-S8
Cover cap				
	For manual override, non-detenting or covered		8028240	VAMC-B10-20-CH2



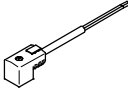

**New**

ATEX

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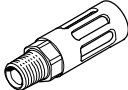

Solenoid valves VUVS-LT, size 25, NPT

Accessories

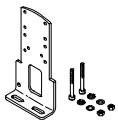
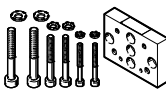
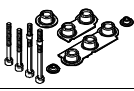

Ordering data						
Description					Part No.	Type
Plug socket						
	Connection pattern type C, to DIN EN 175301-803					
	3-pin, screw terminal	Cable fitting M12	0 ... 250 V AC/DC	IP65	539712	MSSD-EB-M12
		Cable fitting Pg7			151687	MSSD-EB
	4-pin, insulation displacement connector	Cable fitting M14	0 ... 250 V AC/DC	IP67	192745	MSSD-EB-S-M14
		3-pin, angled socket	Cable fitting M12	0 ... 24 V DC	IP65	570367
	Connection pattern type B, industry standard					
	3-pin, screw terminal	Cable fitting M16	0 ... 250 V AC/DC	IP65	539710	MSSD-F-M16
		Cable fitting Pg9			34431	MSSD-F
3-pin, insulation displacement connector	–	0 ... 250 V AC/DC	IP67	192746	MSSD-F-S-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						
	Connection pattern type C, to DIN EN 175301-803					
	Angled socket, 3-pin Cable, open end, 3-wire	24 V DC	LED	2.5 m	151688	KMEB-1-24-2,5-LED
				5 m	151689	KMEB-1-24-5-LED
				10 m	193457	KMEB-1-24-10-LED
	Cable, open end, 3-wire	230 V AC	–	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-wire	24 V DC	LED	2.5 m	30935	KMF-1-24DC-2.5-LED
				5 m	30937	KMF-1-24DC-5-LED
				10 m	193458	KMF-1-24-10-LED
Cable, open end, 3-wire	230 V AC	–	2.5 m	30936	KMF-1-230AC-2.5	
			5 m	30938	KMF-1-230AC-5	
Illuminating seal						
	Connection pattern type C, to DIN EN 175301-803	24 V DC		151717	MEB-LD-12-24DC	
		230 V AC		151718	MEB-LD-230AC	
	Connection pattern type B, industry standard	24 V DC		19143	MF-LD-12-24DC	
		230 V AC		19144	MF-LD-230AC	

Solenoid valves VUVS-LT, size 25, NPT

Accessories


Ordering data					
	Description		Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread 10-32 UNF for tubing O.D.	5/32 "	572312	QBM-10-32-UNF-5/32-I-U	10
	Connecting thread 1/4 NPT for tubing O.D.	1/4 "	572320	QB-1/4-1/4-I-U	10
		5/16 "	572321	QB-1/4-5/16-I-U	10
		3/8 "	572322	QB-1/4-3/8-I-U	10
Angled push-in fitting with external hex					
	Connecting thread 1/4 NPT for tubing O.D.	1/4 "	533295	QBL-1/4-1/4-U	10
		5/16 "	533296	QBL-1/4-5/16-U	10
		3/8 "	533297	QBL-1/4-3/8-U	5
Angled push-in fitting, long, with external hex					
	Connecting thread 1/4 NPT for tubing O.D.	1/4 "	564674	QBL-1/4-1/4-U	10
		5/16 "	564675	QBL-1/4-5/16-U	10
		3/8 "	564676	QBL-1/4-3/8-U	5
Silencers					
	With connecting thread NPT, metal design	1/4 NPT	12639	U-1/4-B-NPT	1
	With connecting thread NPT, sintered design, long	1/4 NPT	1206990	AMTE-M-LH-N14	20


1) Packaging unit


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

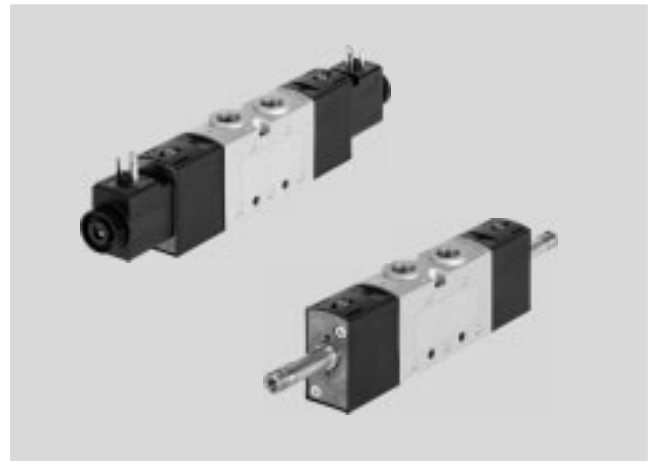
Solenoid valves VUVS-L, size 20, NPT

Technical data

-  Flow rate
Up to 700 l/min (±20%)

-  Valve width
21 mm

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



General technical data							
Valve function	3/2		5/2		5/3		
Order code for valves	M32C	M32U	M52	B52	P53C	P53U	P53E
Valve width [mm]	21						
Design	Piston spool						
Direction of flow	Reversible with external pilot air supply						
Pilot air supply	Internal or external						
Type of actuation	Pilot						
Manual override	Non-detenting, detenting						
Non-overlapping	Yes						
Sealing principle	Soft						
Type of mounting	Optionally via through-hole or on manifold rail						
Standard nominal flow rate q _N [l/min]	700					600	
Through-holes (nominal width) [mm]	5.7	5.7	5.7	5.7	5.0	4.8	4.5
b value	0.35						
c value [l/sbar]	2.9	2.9	2.9	2.9	2.9	2.5	2.5
Type of actuation	Electrical						
Mounting position	Any						
Exhaust air function	With flow control						
Pneumatic connection 1, 2, 4, 3, 5	1/8 NPT						
Pilot exhaust air port 82/84	UNF 10/32						
CRC ¹⁾	2						

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

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

ATEX	
ATEX category for gas	II 3G
Type of ignition protection for gas	Ex ec IIC T4 X Gc
ATEX category for dust	II 3D
Type of ignition protection for dust	Ex tc IIIC T115°C X Dc
Explosion ambient temperature [°C]	-10 ... +60
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)

Solenoid valves VUVS-L, size 20, NPT

FESTO

Technical data

Technical data – 3/2-way valves					
Order code for valves		M32C		M32U	
Normal position		Closed		Open	
Stable positions		Single solenoid		Single solenoid	
Reset method		Pneumatic spring	Mechanical spring	Pneumatic spring	Mechanical spring
Switching times	On	14	14	14	15
	Off	21	32	21	28
	Change-over	–	–	–	–
Switching time tolerance	[%]	±20			
Product weight excluding solenoid coil	[g]	138	136	138	136
Product weight including solenoid coil	[g]	172	170	172	170

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

Technical data – 5/3-way valves					
Order code for valves		P53C		P53U	P53E
Normal position/mid-position		Closed		Pressurised	Exhausted
Stable positions		Single solenoid			
Reset method		Mechanical spring			
Switching times	On	13	13	13	
	Off	42	42	44	
	Change-over	24	21	24	
Switching time tolerance	[%]	±20			
Product weight excluding solenoid coil	[g]	229	229	229	
Product weight including solenoid coil	[g]	263	263	263	

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

Solenoid valves VUVS-L, size 20, NPT

Technical data

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 operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)			
Operating pressure with internal pilot air supply [bar]	2.5 ... 10		1.5 ... 10	2.5 ... 10
Ambient temperature [°C]	-10 ... +60			
Temperature of medium [°C]	-10 ... +60			

Electrical data		
	With solenoid coil	Without solenoid coil
Electrical connection	Plug connector type C	Via solenoid coil
Operating voltage	[V DC] 12 and 24 ±10%	→ Internet: vacs
	[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	

Information on materials	
Housing	Die-cast aluminium
Seals	HNBR, NBR
Piston spool	Wrought aluminium alloy (P53 types: high-alloy stainless steel)
Note on materials	RoHS compliant

Solenoid valves VUVS-L, size 20, NPT

Technical data

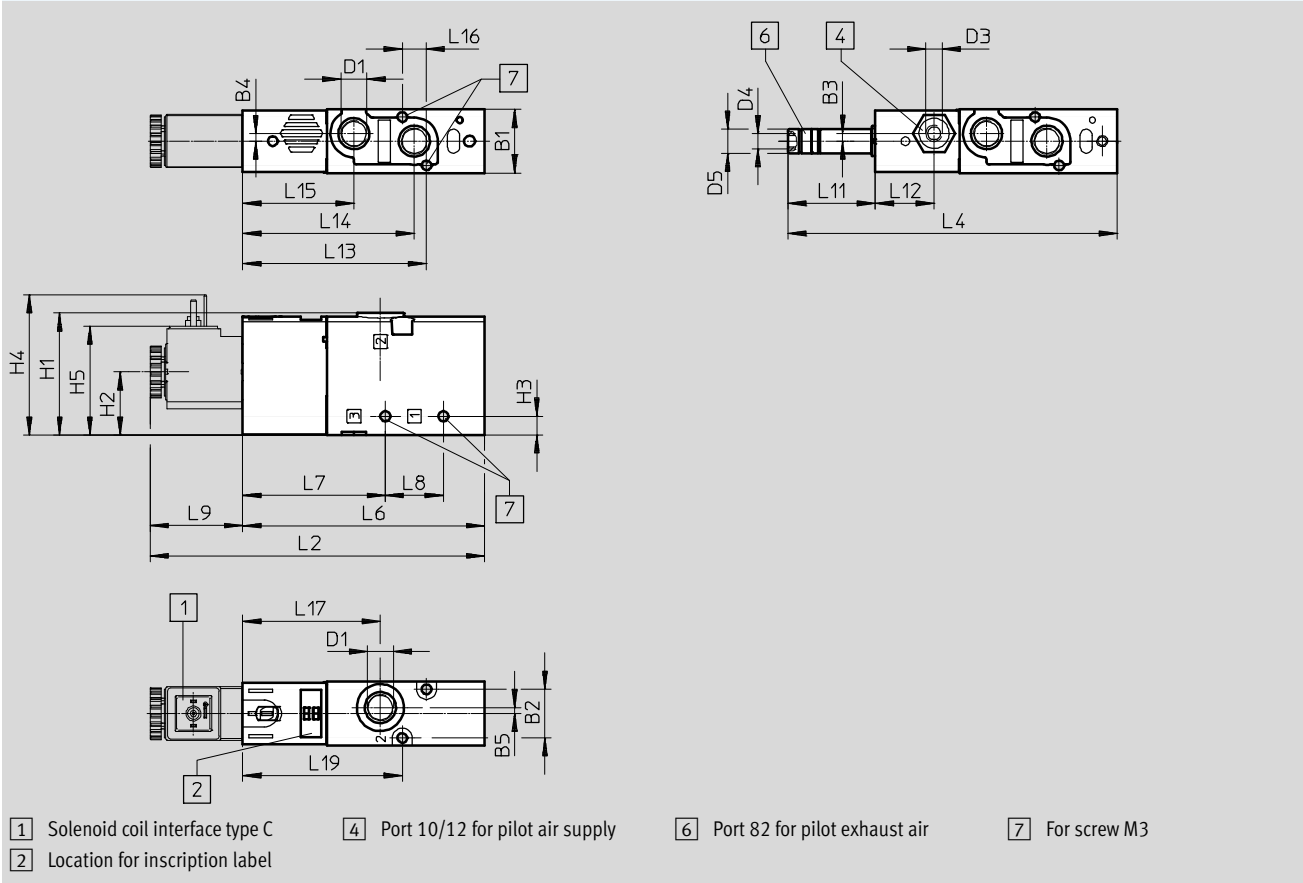


Dimensions

Download CAD data → www.festo.com

3/2-way valves, with solenoid coil

3/2-way valves, without solenoid coil



Type	B1	B2	B3	B4	B5	D1	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L20-M32-...D-N18-...	21.1	16.1	-	2.5	2	1/8 NPT	-	UNF 10/32	8	40	20.9	6.2	46.7	36.4

Type	L2	L4	L6	L7	L8	L9	L11	L12	L13	L14	L15	L16	L17	L19
VUVS-L20-M32-...D-N18-...	110.7	109.1	80.1	47.3	19.2	30.6	29	-	60.9	56.9	36.9	8	45.6	52.9

Solenoid valves VUVS-L, size 20, NPT

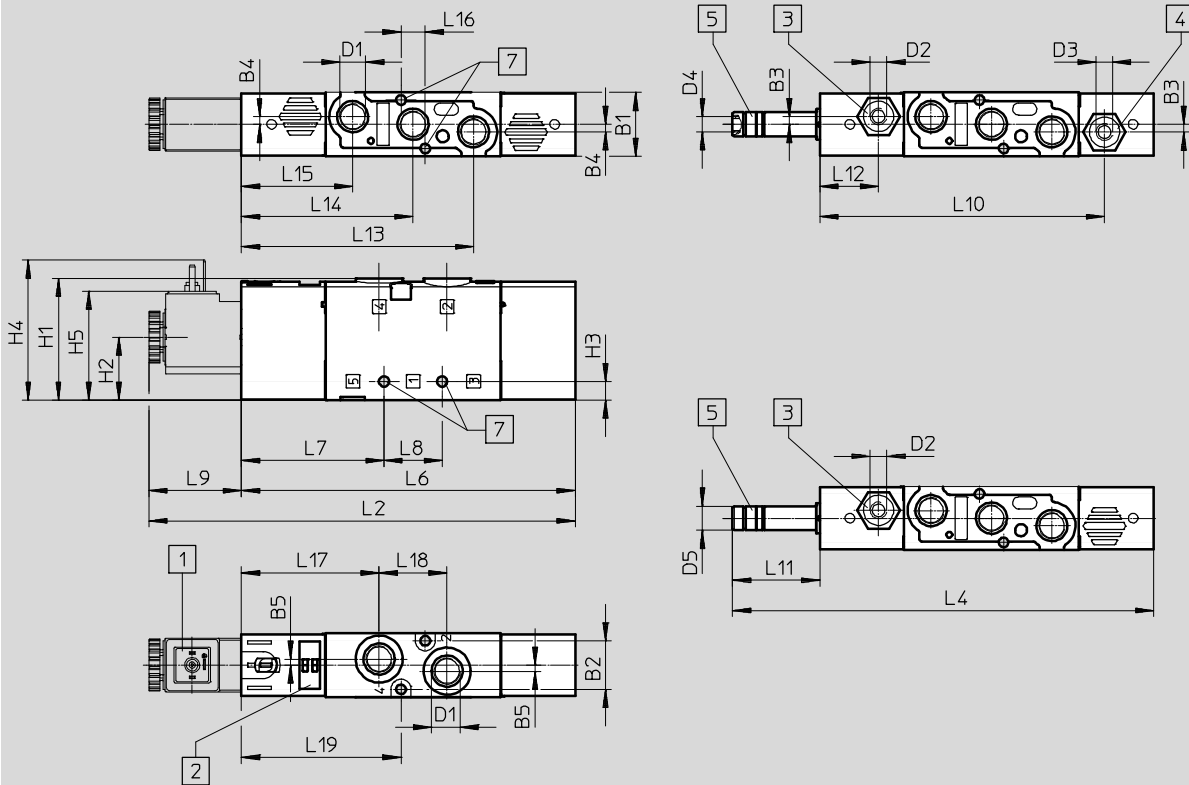
Technical data

Dimensions

Download CAD data → www.festo.com

5/2-way valves, with solenoid coil

5/2-way valves, without solenoid coil



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

Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L20-M52-...D-N18-...	21.1	16.1	-	2.5	2	1/8 NPT	-	-	UNF 10/32	8	40.4	20.9	6.2	46.7	36.4

Type	L2	L4	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-L20-M52-...D-N18-...	141.2	139.6	110.6	47.3	19.2	30.6	-	29	-	76.9	56.9	36.9	8	45.6	22.5	52.9

Solenoid valves VUVS-L, size 20, NPT

Technical data

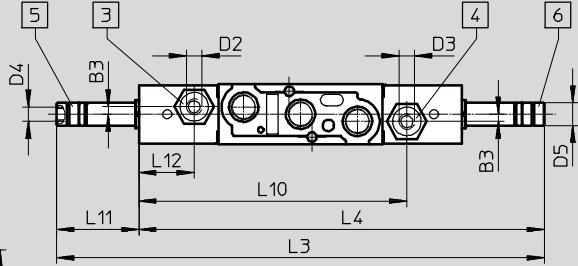
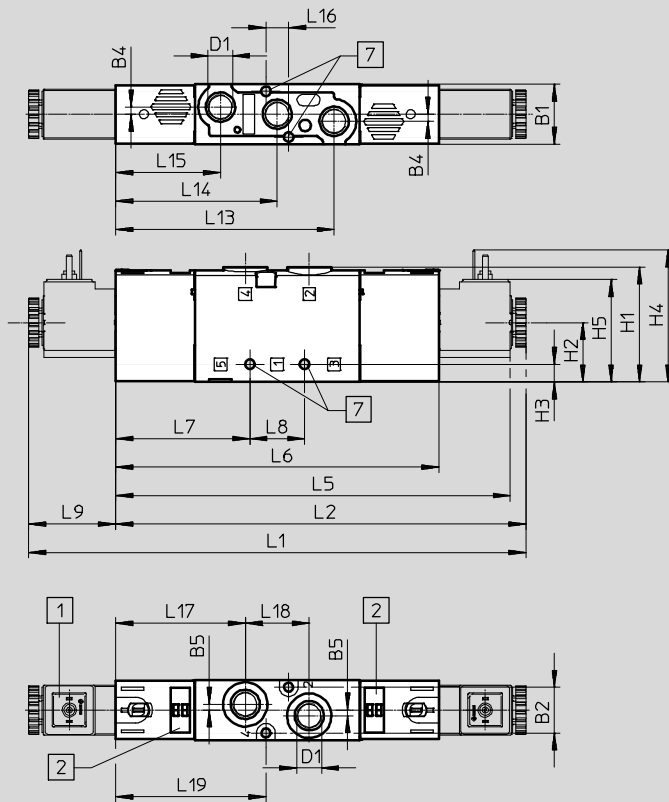


Dimensions

Download CAD data → www.festo.com

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

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



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

Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L20-P53-...-N18-...	21.1	16.1	-	2.5	2	1/8 NPT	-	-	UNF 10/32	8	40.4	20.9	6.2	46.7	36.4
VUVS-L20-B52-D-N18-...			-			1/8 NPT	-	-	UNF 10/32						

Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
VUVS-L20-P53-...-N18-...	174.9	144.3	171.7	142.7	139.1	113.7	47.3	19.2	30.6	-	29
VUVS-L20-B52-D-N18-...										-	

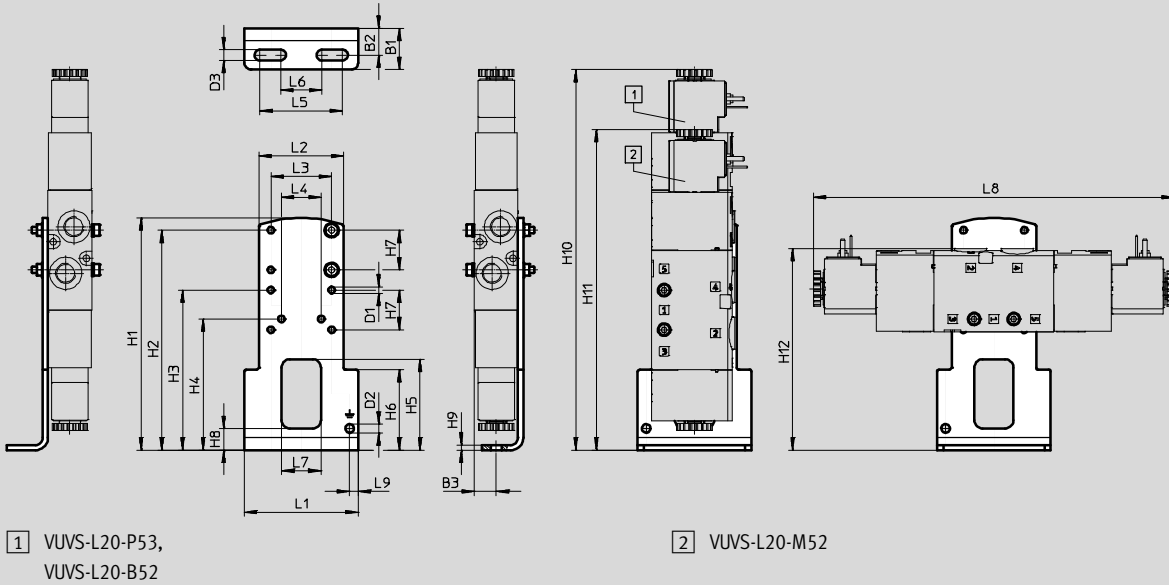
Type	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-L20-P53-...-N18-...	-	76.9	56.9	36.9	8	45.6	22.5	52.9
VUVS-L20-B52-D-N18-...	-							

Solenoid valves VUVS-L, size 20, NPT

Accessories

Dimensions

Foot mounting



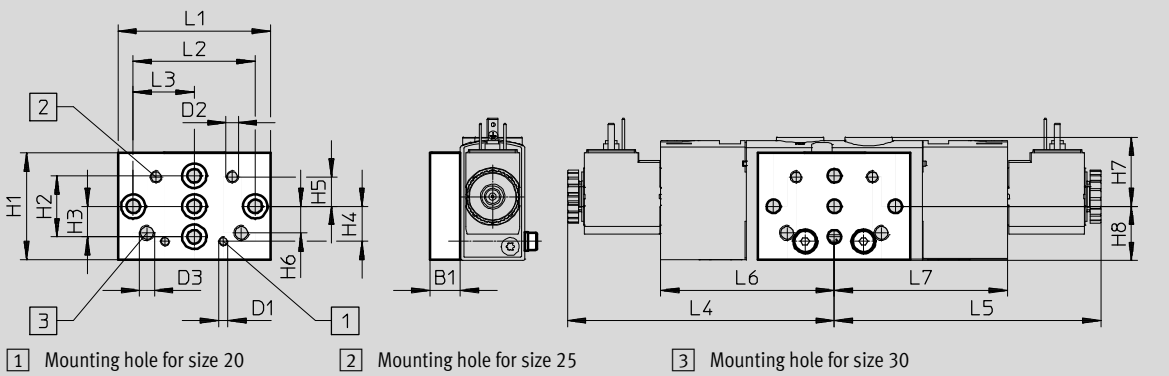
Type		B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	H1	H2	H3	H4	H5
VAME-B10-20-A	VUVS-L20-B52/P53	20	13.1	10.6	3.2	4.2	5.2	112.5	106.5	77.5	63.5	44
	VUVS-L20-M52											
	VUVS-L20-M32											

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

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

Dimensions

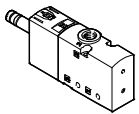
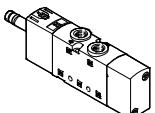
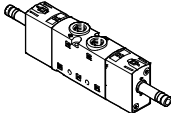
Wall mounting



Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6	H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-L20-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7	22.7	17.7	50	40	20	87.5	87.4	56.9	56.9
	VUVS-L20-M52																	53.7	-	-
	VUVS-L20-M32																	23.3	-	-

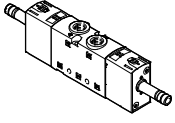
Solenoid valves VUVS-L, size 20, NPT

Accessories

Ordering data				
	Code	Valve function	Part No.	Type
3/2-way valve without solenoid coil				
	Single solenoid, closed			
	M32C-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575694	VUVS-L20-M32C-AD-N18-F7
	M32C-AZ	Pneumatic spring return, external pilot air supply, direction of flow reversible	8065570	VUVS-L20-M32C-AZD-N18-F7
	M32C-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575695	VUVS-L20-M32C-MD-N18-F7
	M32C-MZ	Mechanical spring return, external pilot air supply, direction of flow reversible	8065571	VUVS-L20-M32C-MZD-N18-F7
	Single solenoid, open			
	M32U-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575698	VUVS-L20-M32U-AD-N18-F7
	M32U-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575699	VUVS-L20-M32U-MD-N18-F7
5/2-way valve without solenoid coil				
	Single solenoid			
	M52-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575702	VUVS-L20-M52-AD-N18-F7
	M52-AZ	Pneumatic spring return, external pilot air supply, direction of flow reversible	8065574	VUVS-L20-M52-AZD-N18-F7
	M52-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575704	VUVS-L20-M52-MD-N18-F7
	M52-MZ	Mechanical spring return, external pilot air supply, direction of flow reversible	8065575	VUVS-L20-M52-MZD-N18-F7
	Double solenoid			
	B52	Internal pilot air supply, direction of flow not reversible	575706	VUVS-L20-B52-D-N18-F7
	B52-Z	External pilot air supply, direction of flow reversible	8065576	VUVS-L20-B52-ZD-N18-F7

Solenoid valves VUVS-L, size 20, NPT




Accessories



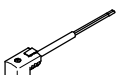

Ordering data				
	Code	Valve function	Part No.	Type
5/3-way valve without solenoid coil				
	Closed			
	P53C-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575708	VUVS-L20-P53C-MD-N18-F7
	P53C-MZ	Mechanical spring return, external pilot air supply, direction of flow reversible	8065577	VUVS-L20-P53C-MZD-N18-F7
	Exhausted			
	P53E	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575712	VUVS-L20-P53E-MD-N18-F7
Pressurised				
P53U	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575710	VUVS-L20-P53U-MD-N18-F7	

Solenoid valves VUVS-L, size 20, NPT

Accessories



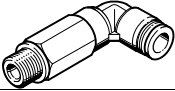
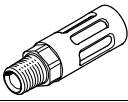

FESTO

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	
Seal set					
	For valves in order to guarantee protection class IP67		2643771	VAMC-B10-C-B-S8	
Cover cap					
	For manual override, non-detenting or covered		8028240	VAMC-B10-20-CH2	

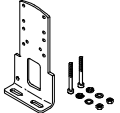
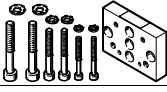
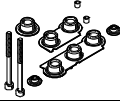

Ordering data								
Description		Part No.	Type					
Plug socket								
	Plug pattern type C, to DIN EN 175301-803	3-pin, screw terminal	Cable fitting M12	0 ... 250 V AC/DC	IP65	539712	MSSD-EB-M12	
			Cable fitting Pg7			151687	MSSD-EB	
	4-pin, insulation displacement connector	Cable fitting M14		0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

Solenoid valves VUVS-L, size 20, NPT

Accessories

Ordering data					
	Description		Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread 10-32 UNF for tubing O.D.	5/32 "	572312	QBM-10-32-UNF-5/32-I-U	10
	Connecting thread 1/8 NPT for tubing O.D.	5/32 "	572317	QB-1/8-5/32-I-U	10
		1/4 "	572318	QB-1/8-1/4-I-U	10
		5/16 "	572319	QB-1/8-5/16-I-U	10
Angled push-in fitting with external hex					
	Connecting thread 1/8 NPT for tubing O.D.	5/32 "	533290	QBL-1/8-5/32-U	10
		1/4 "	533292	QBL-1/8-1/4-U	10
		5/16 "	533293	QBL-1/8-5/16-U	10
Angled push-in fitting, long, with external hex					
	Connecting thread 1/8 NPT for tubing O.D.	5/32 "	564668	QBLL-1/8-5/32-U	10
		1/4 "	564670	QBLL-1/8-1/4-U	10
		5/16 "	564671	QBLL-1/8-5/16-U	10
Silencer					
	With connecting thread NPT (metal design)	1/8 NPT	12638	U-1/8-B-NPT	1
	With connecting thread NPT, sintered design, long	1/8 NPT	1206989	AMTE-M-LH-N18	20




1) Packaging unit

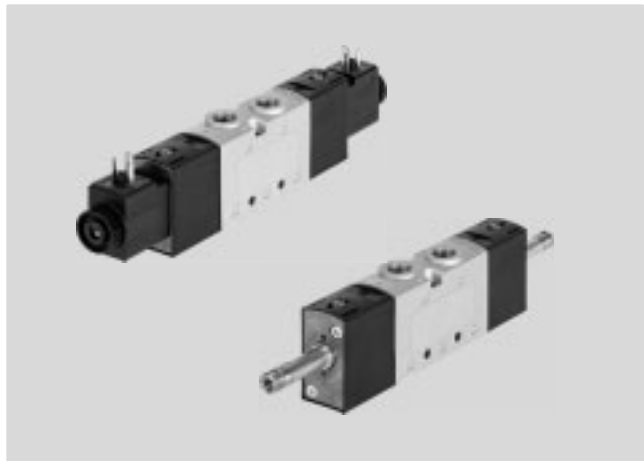
Ordering data				
Description		Weight [g]	Part No.	Type
Foot mounting				
	With screw set for attaching the valve to the foot mounting	97	576412	VAME-B10-20-A
Wall mounting				
	With screw set for attaching the valve to the wall mounting (for size 20, 25, 30)	53	576413	VAME-B10-20-W
Spare parts selection				
	Set comprising seals and screws	10	8026203	VAME-B10-20-MK
Inscription label				
	40 pieces in frame	-	565306	ASLR-C-E4

Solenoid valves VUVS-L, size 25, NPT

Technical data

FESTO

-  Flow rate
Up to 1300 l/min ($\pm 20\%$)
-  Valve width
26.5 mm
-  Voltage
12, 24 V DC
24, 110, 120, 230, 240 V AC



General technical data							
Valve function	3/2		5/2		5/3		
Order code for valves	M32C	M32U	M52	B52	P53C	P53U	P53E
Valve width [mm]	26.5						
Design	Piston spool						
Direction of flow	Reversible with external pilot air supply						
Pilot air supply	Internal or external						
Type of actuation	Piloted						
Manual override	Non-detenting, detenting						
Non-overlapping	Yes						
Sealing principle	Soft						
Type of mounting	Optionally via through-hole or on manifold rail						
Standard nominal flow rate q _{nN} [l/min]	1000		1300	1300	1200	1000	
Through-holes (nominal width) [mm]	6.3	6.3	6.9	6.9	6.5	6.3	6.3
b value	0.3	0.3	0.4	0.4	0.4	0.4	0.4
c value [l/sbar]	4.7, 4.8 ²⁾	4.2, 4.3 ²⁾	5.3	5.6	5.2	4.3	4.3
Type of actuation	Electrical						
Mounting position	Any						
Exhaust air function	With flow control						
Solenoid breather port	Not ducted						
Pneumatic connection 1, 2, 4, 3, 5	1/4 NPT						
Pilot exhaust air port 82/84	UNF 10/32						
CRC ¹⁾	2						

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

ATEX	
ATEX category for gas	II 3G
Type of ignition protection for gas	Ex ec IIC T4 X Gc
ATEX category for dust	II 3D
Type of ignition protection for dust	Ex tc IIIC T115°C X Dc
Explosion ambient temperature [°C]	-10 ... +60
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)

Solenoid valves VUVS-L, size 25, NPT

Technical data

Technical data – 3/2-way valves					
Order code for valves		M32C		M32U	
Normal position		Closed		Open	
Stable positions		Single solenoid		Single solenoid	
Reset method		Pneumatic spring	Mechanical spring	Pneumatic spring	Mechanical spring
Switching times	On	13	11	12	11
	Off	26	40	26	39
	Change-over	–	–	–	–
Switching time tolerance	[%]	±20			
Product weight excluding solenoid coil	[g]	244	244	244	244
Product weight including solenoid coil	[g]	297	297	297	297

Technical data – 5/2-way valves			
Order code for valves		M52	B52
Normal position		–	–
Stable positions		Single solenoid	Double solenoid
Reset method		Pneumatic spring	Mechanical spring
Switching times	On	19	12
	Off	35	47
	Change-over	–	–
Switching time tolerance	[%]	±20	
Product weight excluding solenoid coil	[g]	311	322
Product weight including solenoid coil	[g]	363	428

Technical data – 5/3-way valves				
Order code for valves		P53C	P53U	P53E
Normal position/mid-position		Closed	Pressurised	Exhausted
Stable positions		Single solenoid		
Reset method		Mechanical spring		
Switching times	On	13	14	14
	Off	42	48	48
	Change-over	26	25	25
Switching time tolerance	[%]	±20		
Product weight excluding solenoid coil	[g]	324	324	324
Product weight including solenoid coil	[g]	430	430	430

Safety data	
Max. positive test pulse 0 signal	[µs] 2000 (valves with VACF-B-...-1)
Max. negative test pulse 1 signal	[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 resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

Solenoid valves VUVS-L, size 25, NPT

Technical data

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 operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)			
Operating pressure with internal pilot air supply [bar]	2.5 ... 10		1.5 ... 10	2.5 ... 10
Ambient temperature [°C]	-10 ... +60			
Temperature of medium [°C]	-10 ... +60			

Electrical data		
Electrical connection	Via electrical solenoid coil	
Operating voltage	[V DC]	12, 24, 48 ±10%
	[V AC]	24, 48, 110, 120, 230, 240 ±10%
Duty cycle ED [%]	100	
Degree of protection to EN 60529	IP65 with plug socket	
Permissible voltage fluctuations [%]	10	

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

Solenoid valves VUVS-L, size 25, NPT

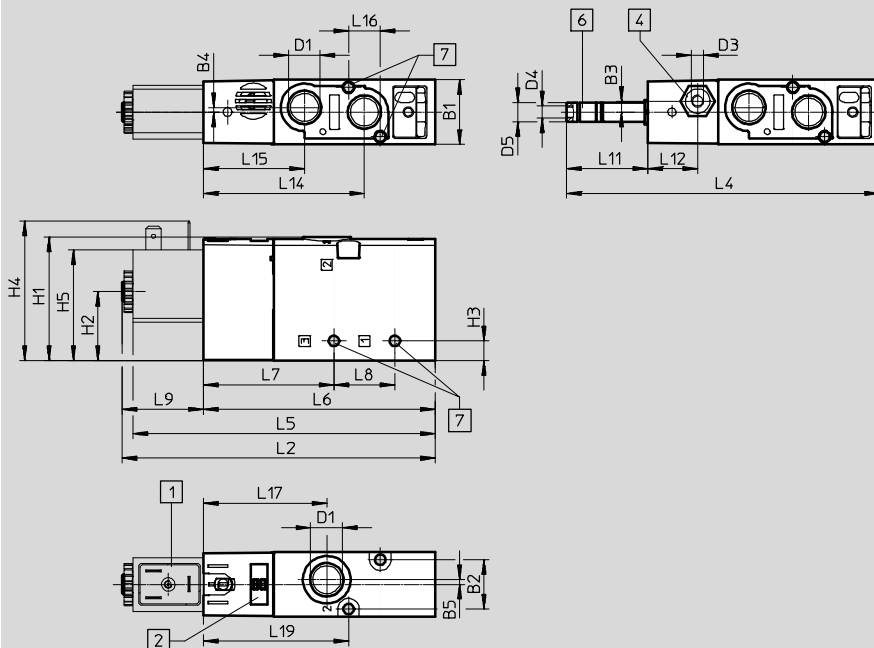
Technical data

Dimensions

Download CAD data → www.festo.com

3/2-way valves, with solenoid coil

3/2-way valves, without solenoid coil



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

Type	B1	B2	B3	B4	B5	D1	D3	D4	D5	H1	H2	H3	H4	H5
VUVS-L25-M32-...D-N14-...	26.5	20.2	-	1.9	1.9	1/4 NPT	-	UNF 10/32	8	50.5	28.2	8	57.2	45.2

Type	L2	L4	L5	L6	L7	L8	L9	L11	L12	L14	L15	L16	L17	L19
VUVS-L25-M32-...D-N14-...	129.2	128.1	123.8	94.8	53.3	25	34.4	33.3	-	65.8	41.3	13	50.4	59.3

Solenoid valves VUVS-L, size 25, NPT

Technical data

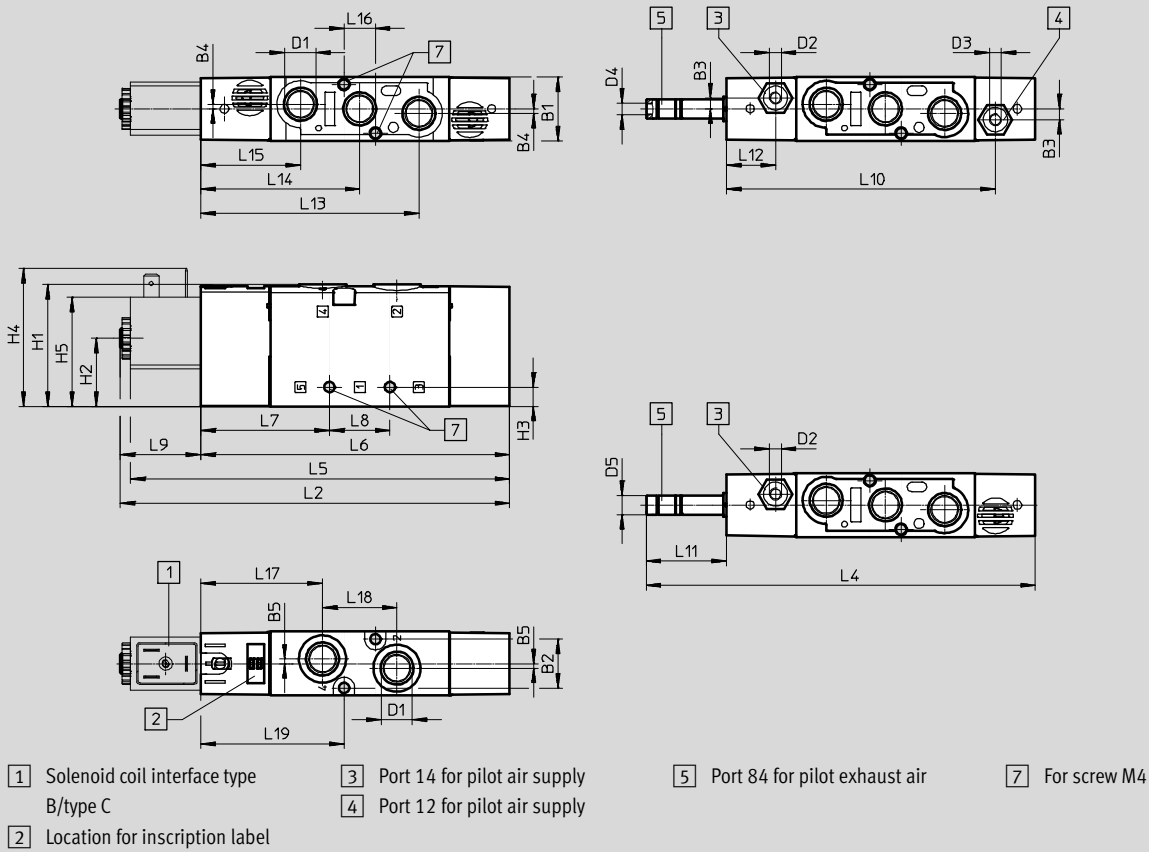


Dimensions

Download CAD data → www.festo.com

5/2-way valves, with solenoid coil

5/2-way valves, without solenoid coil



Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5	H1	H2	H3	H4	H5
VUVS-L25-M52-...D-N14-...	26.5	20.2	-	1.9	1.9	1/4 NPT	-	-	UNF 10/32	8	50.5	28.2	8	57.2	45.2

Type	L2	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-L25-M52-...D-N14-...	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

Solenoid valves VUVS-L, size 25, NPT

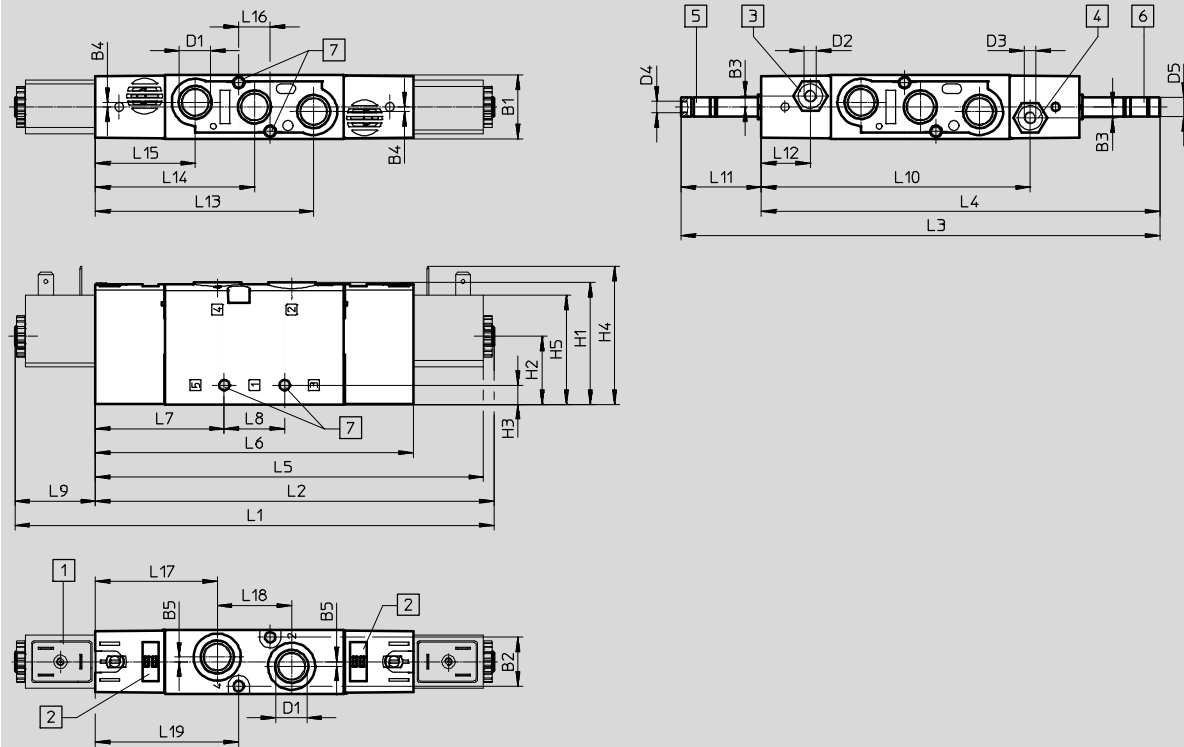
Technical data

Dimensions

Download CAD data → www.festo.com

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

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



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

Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5 ∅	H1	H2	H3	H4	H5
VUVS-L25-P53...-N14-...	26.5	20.2	-	1.9	1.9	1/4 NPT	-	-	UNF 10/32	8	50.5	28.2	8	57.2	45.2
VUVS-L25-B52-D-N14-...															

Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
VUVS-L25-P53...-N14-...	200.3	166	198.2	164.9	160.6	131.6	53.3	25	33.3	-	33.3
VUVS-L25-B52-D-N14-...											

Type	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-L25-P53...-N14-...	-	90.3	65.8	41.3	13	50.4	30.8	59.3
VUVS-L25-B52-D-N14-...								

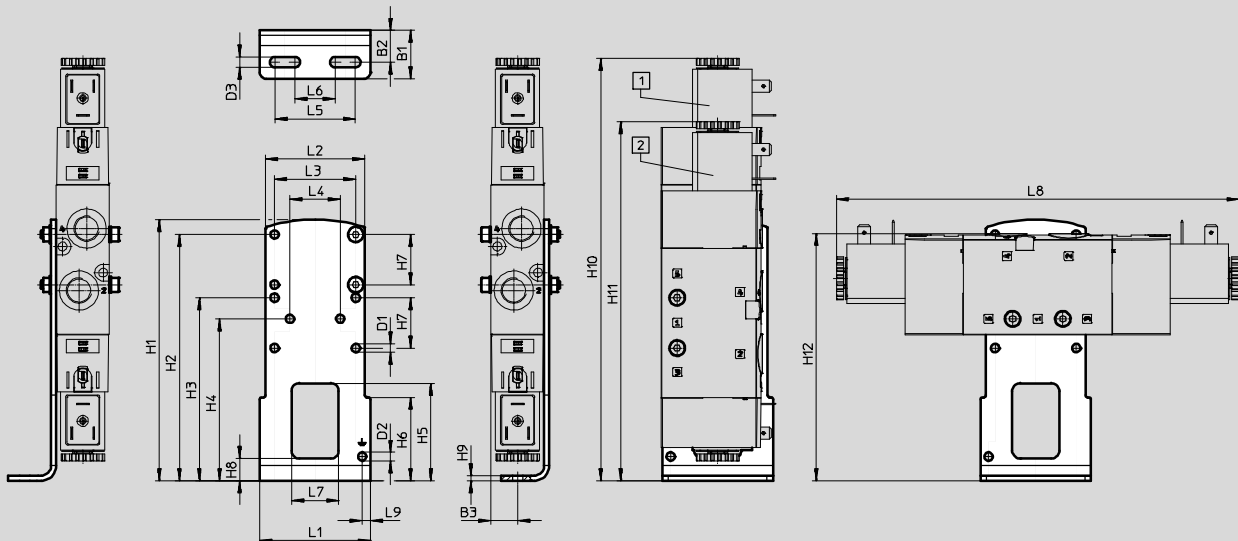
Solenoid valves VUVS-L, size 25, NPT

Technical data



Dimensions

Foot mounting



1) VUVS-L25-P53, VUVS-L25-B52

2) VUVS-L25-M52

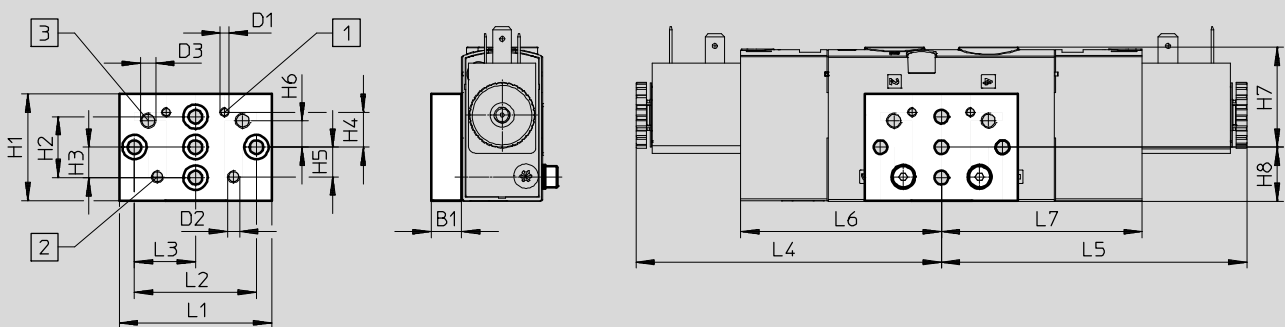
Type		B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	H1	H2	H3	H4	H5
VAME-B10-25-A	VUVS-L20-B52/P53	24	15.8	13.3	4.2	4.2	5.2	130	122.5	91	80.5	48.5
	VUVS-L20-M52											
	VUVS-L20-M32											

Type		H6	H7	H8	H9	H10	H11	H12
VAME-B10-25-A	VUVS-L20-B52/P53	41.5	25	11	2.5	210	-	123
	VUVS-L20-M52					-	178.7	
	VUVS-L20-M32					139	-	

Type		L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-25-A	VUVS-L20-B52/P53	55	49.4	40.4	25	40	20	23.5	198.2	4.1
	VUVS-L20-M52								161.1	
	VUVS-L20-M32								128.1	

Dimensions

Wall mounting



1) Mounting hole for size 20

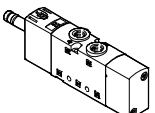
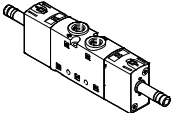
2) Mounting hole for size 25

3) Mounting hole for size 30

Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6	H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-L25-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7	32.8	17.7	50	40	20	100.2	100.2	65.8	65.8
	VUVS-L25-M52																62	-	-	
	VUVS-L25-M32																29	-	-	

Solenoid valves VUVS-L, size 25, NPT

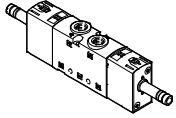
Accessories

Ordering data				
	Code	Valve function	Part No.	Type
3/2-way valve without solenoid coil				
	Single solenoid, closed			
	M32C-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575544	VUVS-L25-M32C-AD-N14-F8
	M32C-AZ	Pneumatic spring return, external pilot air supply, direction of flow reversible	578182	VUVS-L25-M32C-AZD-N14-F8
	M32C-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575545	VUVS-L25-M32C-MD-N14-F8
	M32C-MZ	Mechanical spring return, external pilot air supply, direction of flow reversible	578183	VUVS-L25-M32C-MZD-N14-F8
	Single solenoid, open			
	M32U-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575548	VUVS-L25-M32U-AD-N14-F8
	M32U-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575549	VUVS-L25-M32U-MD-N14-F8
5/2-way valve without solenoid coil				
	Single solenoid			
	M52-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575552	VUVS-L25-M52-AD-N14-F8
	M52-AZ	Pneumatic spring return, external pilot air supply, direction of flow reversible	578197	VUVS-L25-M52-AZD-N14-F8
	M52-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575554	VUVS-L25-M52-MD-N14-F8
	M52-MZ	Mechanical spring return, external pilot air supply, direction of flow reversible	578198	VUVS-L25-M52-MZD-N14-F8
	Double solenoid			
	B52	Internal pilot air supply, direction of flow not reversible	575556	VUVS-L25-B52-D-N14-F8
	B52-Z	External pilot air supply, direction of flow reversible	578199	VUVS-L25-B52-ZD-N14-F8

Solenoid valves VUVS-L, size 25, NPT

FESTO




Accessories



Ordering data				
	Code	Valve function	Part No.	Type
5/3-way valve without solenoid coil				
	Closed			
	P53C-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575558	VUVS-L25-P53C-MD-N14-F8
	P53C-MZ	Mechanical spring return, external pilot air supply, direction of flow reversible	578206	VUVS-L25-P53C-MZD-N14-F8
	Exhausted			
	P53E	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575562	VUVS-L25-P53E-MD-N14-F8
	Pressurised			
P53U	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575560	VUVS-L25-P53U-MD-N14-F8	

**New****FESTO**

Solenoid valves VUVS-L, size 25, NPT

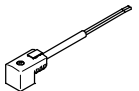

Accessories



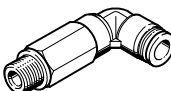
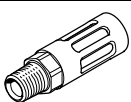

Ordering data				Part No.	Type
Solenoid coils for valves					
	Port pattern type C, to DIN EN 175301-803	12 V DC		8030810	VACF-B-C1-5
		24 V DC		8030811	VACF-B-C1-1
		48 V DC		8030812	VACF-B-C1-7
		24 V AC/50-60 Hz		8030813	VACF-B-C1-1A
		48 V AC/50-60 Hz		8030814	VACF-B-C1-7A
		110/120 V AC/50-60 Hz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

Ordering data						
Description				Part No.	Type	
Plug socket						
	Plug pattern type C, to DIN EN 175301-803					
	3-pin, screw terminal	Cable fitting M12	0 ... 250 V AC/DC	IP65	539712	MSSD-EB-M12
		Cable fitting Pg7			151687	MSSD-EB
	4-pin, insulation displacement connector	Cable fitting M14	0 ... 250 V AC/DC	IP67	192745	MSSD-EB-S-M14
	3-pin, angled socket	Cable fitting M12	0 ... 24 V DC	IP65	570367	MSSD-EB-M12-24VDC-SD-EX
	Plug pattern type B, industry standard					
	3-pin, screw terminal	Cable fitting M16	0 ... 250 V AC/DC	IP65	539710	MSSD-F-M16
		Cable fitting Pg9			34431	MSSD-F
3-pin, insulation displacement connector	–	0 ... 250 V AC/DC	IP67	192746	MSSD-F-S-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	

Solenoid valves VUVS-L, size 25, NPT

Accessories

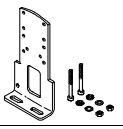
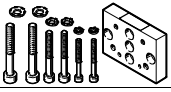
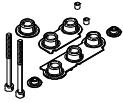

Ordering data					Part No.	Type
Plug socket with cable						
	Port pattern type C, to DIN EN 175301-803					
	Angled socket, 3-pin Cable, open end, 3-wire	24 V DC	LED	2.5 m	151688	KMEB-1-24-2,5-LED
				5 m	151689	KMEB-1-24-5-LED
				10 m	193457	KMEB-1-24-10-LED
		230 V AC	-	2.5 m	151690	KMEB-1-230AC-2,5
				5 m	151691	KMEB-1-230AC-5
	Port pattern type B, to DIN EN 175301-803					
	Angled socket, 3-pin Cable, open end, 3-wire	24 V DC	LED	2.5 m	30935	KMF-1-24DC-2,5-LED
				5 m	30937	KMF-1-24DC-5-LED
				10 m	193458	KMF-1-24-10-LED
		230 V AC	-	2.5 m	30936	KMF-1-230AC-2,5
				5 m	30938	KMF-1-230AC-5
Illuminating seal						
	Port pattern type C, to DIN EN 175301-803	24 V DC		151717	MEB-LD-12-24DC	
		230 V AC		151718	MEB-LD-230AC	
	Port pattern type B, to DIN EN 175301-803	24 V DC		19143	MF-LD-12-24DC	
		230 V AC		19144	MF-LD-230AC	

Ordering data					
	Description		Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread 10-32 UNF for tubing O.D.	5/32 "	572312	QBM-10-32-UNF-5/32-I-U	10
	Connecting thread 1/4 NPT for tubing O.D.	1/4 "	572320	QB-1/4-1/4-I-U	10
		5/16 "	572321	QB-1/4-5/16-I-U	10
		3/8 "	572322	QB-1/4-3/8-I-U	10
Angled push-in fitting with external hex					
	Connecting thread 1/4 NPT for tubing O.D.	1/4 "	533295	QBL-1/4-1/4-U	10
		5/16 "	533296	QBL-1/4-5/16-U	10
		3/8 "	533297	QBL-1/4-3/8-U	5
Angled push-in fitting, long, with external hex					
	Connecting thread 1/4 NPT for tubing O.D.	1/4 "	564674	QBLL-1/4-1/4-U	10
		5/16 "	564675	QBLL-1/4-5/16-U	10
		3/8 "	564676	QBLL-1/4-3/8-U	5
Silencer					
	With connecting thread NPT, metal design	1/4 NPT	12639	U-1/4-B-NPT	1
		With connecting thread NPT, sintered design, long	1/4 NPT	1206990	AMTE-M-LH-N14

1) Packaging unit




Solenoid valves VUVS-L, size 25, NPT

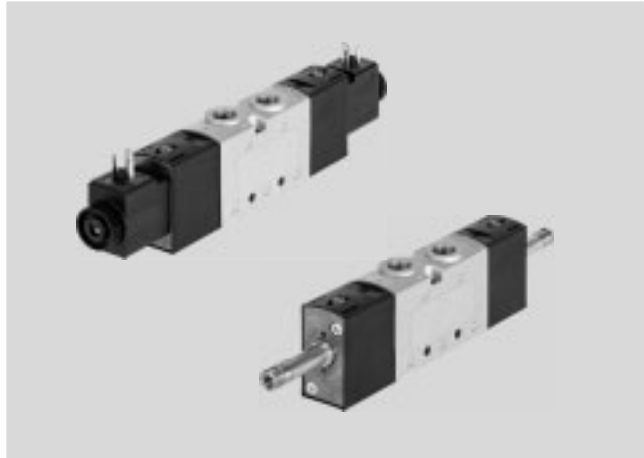
Accessories

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 (for size 20, 25, 30)	53	576413 VAME-B10-20-W
Spare parts selection			
	Set comprising seals and screws	12	8035636 VAME-B10-25-MK
Inscription label			
	40 pieces in frame	-	565306 ASLR-C-E4

Solenoid valves VUVS-L, size 30, NPT

Technical data

-  Flow rate
Up to 2300 l/min (±20%)
-  Valve width
31 mm
-  Voltage
12, 24 V DC
24, 110, 120, 230, 240 V AC



General technical data							
Valve function	3/2		5/2		5/3		
Order code for valves	M32C	M32U	M52	B52	P53C	P53U	P53E
Valve width [mm]	31						
Nominal width [mm]	9.4				8.9	8.1	
Design	Piston spool						
Direction of flow	Reversible with external pilot air supply						
Pilot air supply	Internal or external						
Type of actuation	Piloted						
Manual override	Non-detenting, detenting						
Non-overlapping	Yes						
Sealing principle	Soft						
Type of mounting	Optionally via through-hole or on manifold rail						
Standard nominal flow rate q _{nN} [l/min]	2300	2300	2300		2000	1600	1600
Type of actuation	Electrical						
Mounting position	Any						
Exhaust air function	With flow control						
Pneumatic connection	3/8 NPT						
1, 2, 4, 3, 5	UNF 10-32						
Pilot exhaust air port 82/84	UNF 10-32						
CRC ¹⁾	2						

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

ATEX	
ATEX category for gas	II 3G
Type of ignition protection for gas	Ex ec IIC T4 X Gc
ATEX category for dust	II 3D
Type of ignition protection for dust	Ex tc IIIC T115°C X Dc
Explosion ambient temperature [°C]	-10 ... +60
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)

Solenoid valves VUVS-L, size 30, NPT

Technical data

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

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

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

Safety data		
Max. positive test pulse 0 signal	[µs]	2000 (valves with VACF-B-...-1)
Max. negative test pulse 1 signal	[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 resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6	

Solenoid valves VUVS-L, size 30, NPT

Technical data

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 operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)			
Operating pressure with internal pilot air supply [bar]	2.5 ... 10		1.5 ... 10	2.5 ... 10
Operating pressure with external pilot air supply [bar]	-0.9 ... +10			
Pilot pressure [bar]	2.5 ... 10		1.5 ... 10	2.5 ... 10
Ambient temperature [°C]	-10 ... +60			
Temperature of medium [°C]	-10 ... +60			

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

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

Solenoid valves VUVS-L, size 30, NPT

Technical data

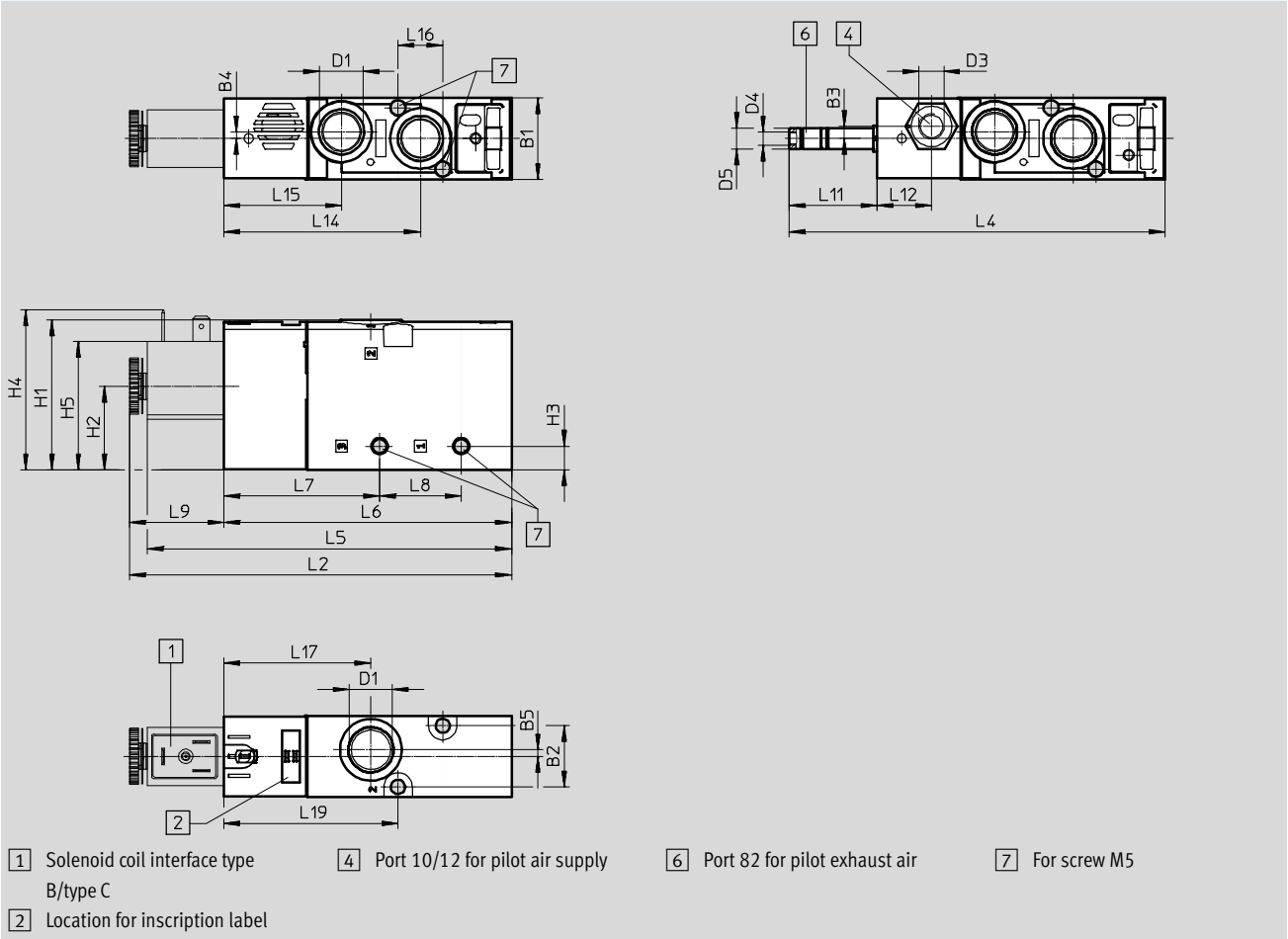


Dimensions

Download CAD data → www.festo.com

3/2-way valves, with solenoid coil

3/2-way valves, without solenoid coil



Type	B1	B2	B3	B4	B5	D1	D3	D4	D5	H1	H2	H3	H4	H5
VUVS-L30-M32...-...D-N38-...	31	23.3	-	2.5	2.5	3/8 NPT	-	UNF 10-32	8 ∅	57	31.8	9	63.7	51.6

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

Solenoid valves VUVS-L, size 30, NPT

Technical data

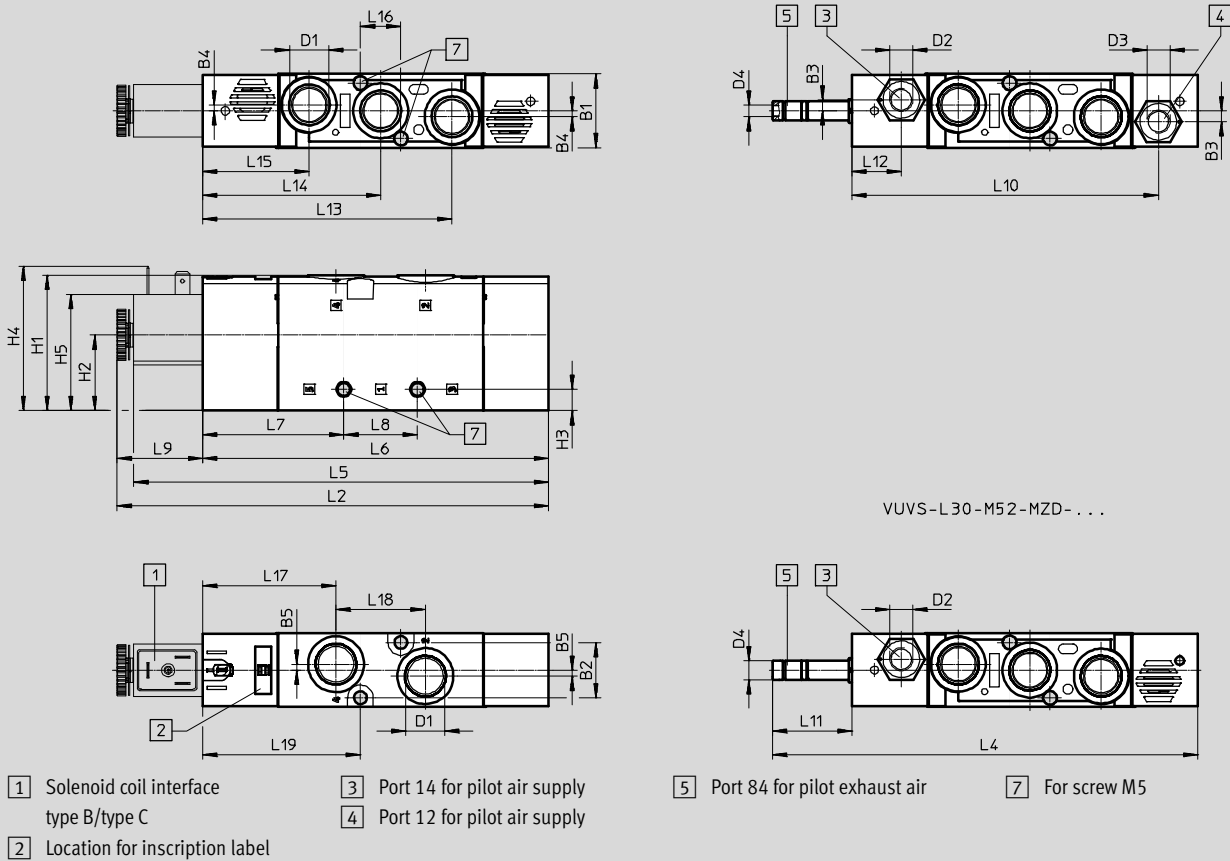


Dimensions

Download CAD data → www.festo.com

5/2-way valves, with solenoid coil

5/2-way valves, without solenoid coil



Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5	H1	H2	H3	H4	H5
VUVS-L30-M52-...D-G38-...	31	23.3	-	2.5	2.5	3/8 NPT	-	-	UNF 10/32	8	57	31.8	9	63.7	51.6

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

Solenoid valves VUVS-L, size 30, NPT

Technical data

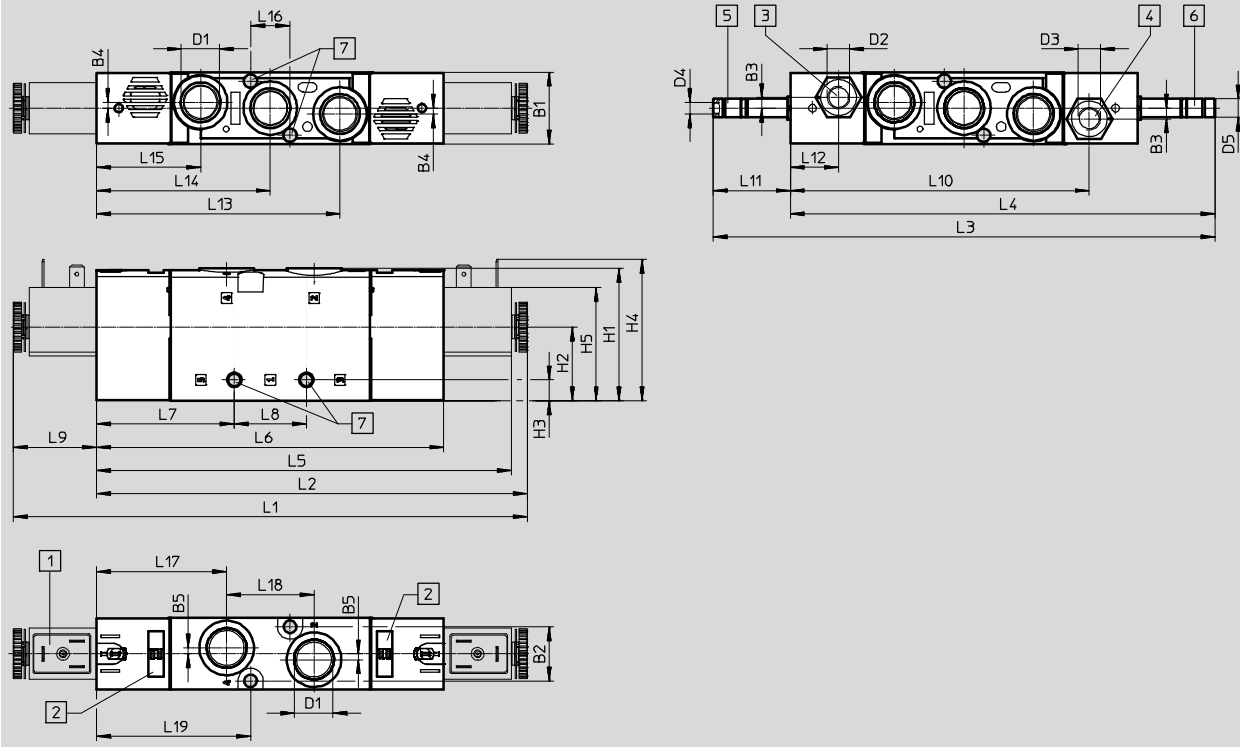
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Dimensions

Download CAD data → www.festo.com

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

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



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

Type	B1	B2	B4	B5	D1	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L30-P53...-MD-N38-F8	31	23.3	2.5	2.5	3/8 NPT	UNF 10-32	8	57	31.8	9	63.7	51.6
VUVS-L30-B52-D-N38-F8												

Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	L11
VUVS-L30-P53...-MD-N38-F8	220.3	185	216.2	182.9	179.6	149.6	59.3	31	35.4	33.3
VUVS-L30-B52-D-N38-F8										

Type	L13	L14	L15	L16	L17	L18	L19
VUVS-L30-P53...-MD-N38-F8	104.8	74.8	44.8	17	56	37.6	66.3
VUVS-L30-B52-D-N38-F8							

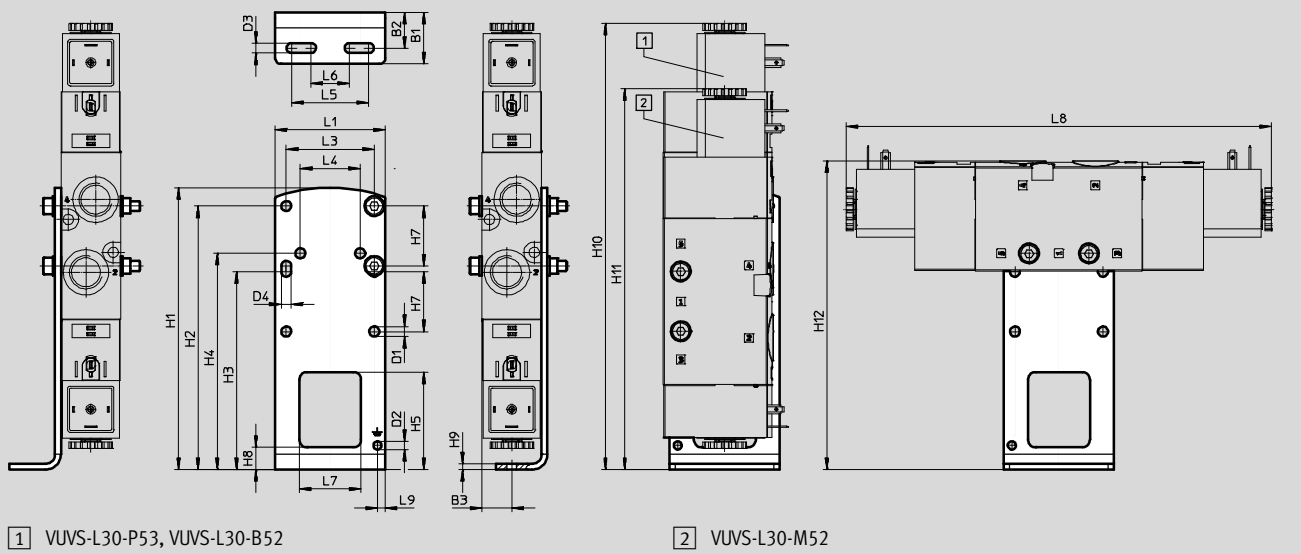
Solenoid valves VUVS-L, size 30, NPT

Accessories



Dimensions

Foot mounting



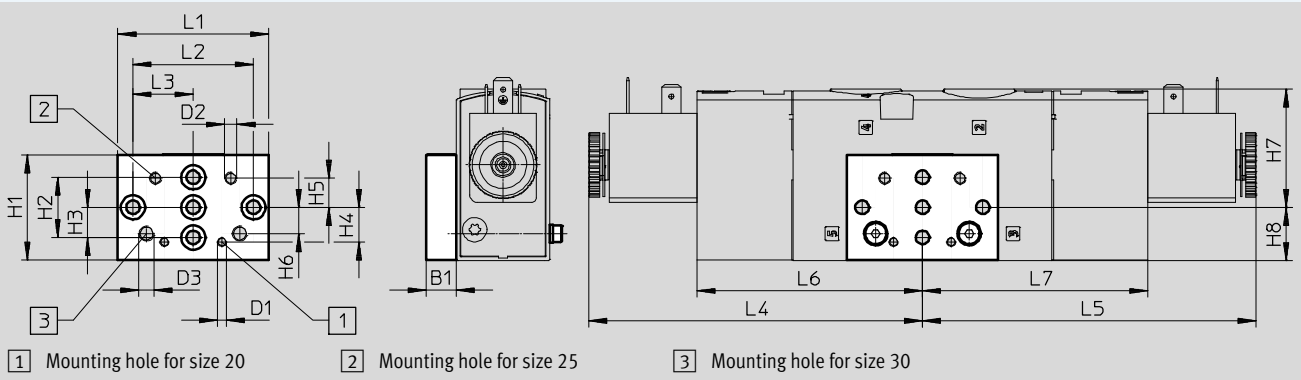
Type		B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	D4 Ø	H1	H2	H3	H4	H5
VAME-B10-30-A	VUVS-L30-B52/P53	26.8	18.5	15.5	5.2	4.2	5.2	5.2	146	136.5	102.5	112	50.5
	VUVS-L30-M52												
	VUVS-L30-M32												

Type		H6	H7	H8	H9	H10	H11	H12
VAME-B10-30-A	VUVS-L30-B52/P53	-	31	11.5	3	231.2	-	160
	VUVS-L30-M52					-	197.2	
	VUVS-L30-M32					155.7	-	

Type		L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-30-A	VUVS-L30-B52/P53	57	-	45.6	31	40	20	32	220.3	4.1
	VUVS-L30-M52								180.7	
	VUVS-L30-M32								144.9	

Dimensions

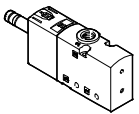
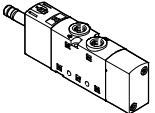
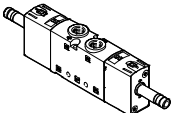
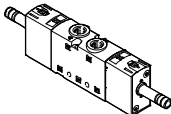
Wall mounting



Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6	H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-L30-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7	39.3	17.7	50	40	20	110.2	110.2	74.8	74.8
	VUVS-L30-M52																	70.5		-
	VUVS-L30-M32																	34.7		-

Solenoid valves VUVS-L, size 30, NPT




Accessories


Ordering data			
	Code	Valve function	Part No. Type
3/2-way valve without solenoid coil			
	Single solenoid, closed		
	M32C-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575637 VUVS-L30-M32C-AD-N38-F8
	M32C-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575638 VUVS-L30-M32C-MD-N38-F8
	Single solenoid, open		
	M32U-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575641 VUVS-L30-M32U-AD-N38-F8
M32U-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575642 VUVS-L30-M32U-MD-N38-F8	
5/2-way valve without solenoid coil			
	Single solenoid		
	M52-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575645 VUVS-L30-M52-AD-N38-F8
	M52-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575647 VUVS-L30-M52-MD-N38-F8
	Double solenoid		
	B52	Internal pilot air supply, direction of flow not reversible	575649 VUVS-L30-B52-D-N38-F8
5/3-way valve without solenoid coil			
	Closed		
	P53C	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575651 VUVS-L30-P53C-MD-N38-F8
	Exhausted		
	P53E	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575655 VUVS-L30-P53E-MD-N38-F8
	Pressurised		
P53U	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575653 VUVS-L30-P53U-MD-N38-F8	

Solenoid valves VUVS-L, size 30, NPT

Accessories

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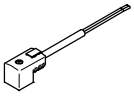

Ordering data				Part No.	Type
Solenoid coils for valves					
	Plug pattern type C, to DIN EN 175301-803	12 V DC		8030810	VACF-B-C1-5
		24 V DC		8030811	VACF-B-C1-1
		48 V DC		8030812	VACF-B-C1-7
		24 V AC/50-60 Hz		8030813	VACF-B-C1-1A
		48 V AC/50-60 Hz		8030814	VACF-B-C1-7A
		110/120 V AC/50-60 Hz		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 DIN 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
Seal set					
	For solenoid valves in order to guarantee protection class IP67			8034609	VAMC-B10-B-B-S8
				8034611	VAMC-B10-A-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 DIN EN 175301-803					
	3-pin, screw terminal	Cable fitting M12	0 ... 250 V AC/DC	IP65	539712	MSSD-EB-M12
		Cable fitting Pg7			151687	MSSD-EB
	4-pin, insulation displacement connector	Cable fitting M14	0 ... 250 V AC/DC	IP67	192745	MSSD-EB-S-M14
	3-pin, angled socket	Cable fitting M12	0 ... 24 V DC	IP65	570367	MSSD-EB-M12-24VDC-SD-EX
	Plug pattern type B, industry standard					
	3-pin, screw terminal	Cable fitting M16	0 ... 250 V AC/DC	IP65	539710	MSSD-F-M16
Cable fitting Pg9		34431			MSSD-F	
3-pin, insulation displacement connector	-	0 ... 250 V AC/DC	IP67	192746	MSSD-F-S-M16	

Solenoid valves VUVS-L, size 30, NPT



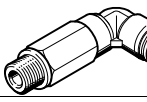
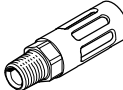

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Accessories

Ordering data							
Description				Part No.	Type		
Plug socket							
	Plug pattern type A, to DIN EN 175301-803						
	3-pin, angled socket	Cable fitting Pg7	0 ... 250 V AC/DC	IP65	34583	MSSDC	
	3-pin, angled socket	Cable fitting M16	0 ... 250 V AC/DC	IP65	539709	MSSD-C-M16	
	4-pin, angled socket	Cable connection insulation displacement connector	0 ... 250 V AC/DC	IP67	192748	SSD-C-S-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 DIN EN 175301-803						
	Angled socket, 3-pin Cable, open end, 3-wire	24 V DC	LED	2.5 m	151688	KMEB-1-24-2,5-LED	
				5 m	151689	KMEB-1-24-5-LED	
				10 m	193457	KMEB-1-24-10-LED	
		230 V AC	-	2.5 m	151690	KMEB-1-230AC-2,5	
				5 m	151691	KMEB-1-230AC-5	
	Plug pattern type B, industry standard						
	Angled socket, 3-pin Cable, open end, 3-wire	24 V DC	LED	2.5 m	30935	KMF-1-24DC-2.5-LED	
				5 m	30937	KMF-1-24DC-5-LED	
				10 m	193458	KMF-1-24-10-LED	
		230 V AC	-	2.5 m	30936	KMF-1-230AC-2.5	
				5 m	30938	KMF-1-230AC-5	
	Plug pattern type A, to DIN EN 175301-803						
	Angled socket, 3-pin Cable, open end, 3-wire	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	-	2.5 m	30932	KMC-1-230AC-2.5		
			5 m	30934	KMC-1-230AC-5		
Illuminating seal							
	Plug pattern type C, to DIN EN 175301-803		24 V DC		151717	MEB-LD-12-24DC	
			230 V AC		151718	MEB-LD-230AC	
	Plug pattern type B, industry standard		24 V DC		19143	MF-LD-12-24DC	
			230 V AC		19144	MF-LD-230AC	

Solenoid valves VUVS-L, size 30, NPT

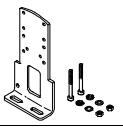
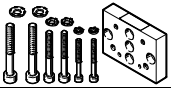
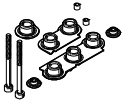

Accessories

Ordering data					
	Description		Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread 1/8 NPT for tubing O.D.	1/4 "	572318	QB-1/8-1/4-I-U	10
	Connecting thread 3/8 NPT for tubing O.D.	5/16 "	572323	QB-3/8-5/16-I-U	10
		3/8 "	572324	QB-3/8-3/8-I-U	10
		1/2 "	572325	QB-3/8-1/2-I-U	10
Angled push-in fitting with external hex					
	Connecting thread 3/8 NPT for tubing O.D.	5/16 "	533299	QBL-3/8-5/16-U	5
		3/8 "	533300	QBL-3/8-3/8-U	5
		1/2 "	533301	QBL-3/8-1/2-U	5
Angled push-in fitting, long, with external hex					
	Connecting thread 3/8 NPT for tubing O.D.	5/16 "	564679	QBLL-3/8-5/16-U	5
		3/8 "	564680	QBLL-3/8-3/8-U	5
		1/2 "	564681	QBLL-3/8-1/2-U	5
Silencer					
	With connecting thread NPT, metal design	3/8 NPT	12740	U-3/8-B-NPT	1
	With connecting thread NPT, sintered design, long	3/8 NPT	1205862	AMTE-M-LH-N38	10

1) Packaging unit

Solenoid valves VUVS-L, size 30, NPT

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 (for size 20, 25, 30)	53	576413	VAME-B10-20-W
Spare parts selection			
 Set comprising seals and screws	22	8035637	VAME-B10-30-MK
Inscription label			
 40 pieces in frame	-	565306	ASLR-C-E4

Solenoid valves VUVS/valve manifold VTUS, NPT


Order code – Manifold block

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

	-		-		-	
Connection						
	-	Standard mounting				
Port for valve function						
	-	Manifold block for 5/2- and 5/3-way valves				
	P3	Manifold block for 3/2-way valves				
	P53	Supply manifold				
Number of valve positions						
	2 ... 10	2 to 10				
Pneumatic connections 1, 3, 5						
N14	N1/4					
N38	N3/8					
N12	N1/2					
N34	N3/4					

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 20

 Flow rate
Up to 700 l/min



General technical data					
Valve function	Manifold block standard		Manifold block compact		Supply manifold On both sides
		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	10		10
Port 1	3/8 NPT	3/8 NPT	1/4 NPT	1/4 NPT	3/8 NPT
Port 3	3/8 NPT	3/8 NPT	1/4 NPT	1/4 NPT	–
Port 5	–	3/8 NPT	–	1/4 NPT	–
Port 12	1/8 NPT	1/8 NPT	–	–	–
Port 14	–	1/8 NPT	–	–	–
CRC ¹⁾	2 ¹⁾				

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

Weight [g]									
Valve positions	2	3	4	5	6	7	8	9	10
Manifold block for 3/2-way valves, standard									
VABM-B10-20E-...N38-...-P3	449	574	699	825	950	1075	1200	1326	1451
Manifold block for 5/2- and 5/3-way valves, standard									
VABM-B10-20E-...N38-...	680	866	1053	1239	1425	1612	1798	1985	2171
Manifold block for 3/2-way valves, compact									
VABM-B10-20S-...N14-...-P3	280	360	441	521	601	681	762	842	922
Manifold block for 5/2- and 5/3-way valves, compact									
VABM-B10-20S-...N14-...	344	439	535	630	726	821	917	1012	1108
Supply manifold for mounting on both sides									
VABM-B10-20-N38-...-P53	226	268	310	352	395	437	479	521	563

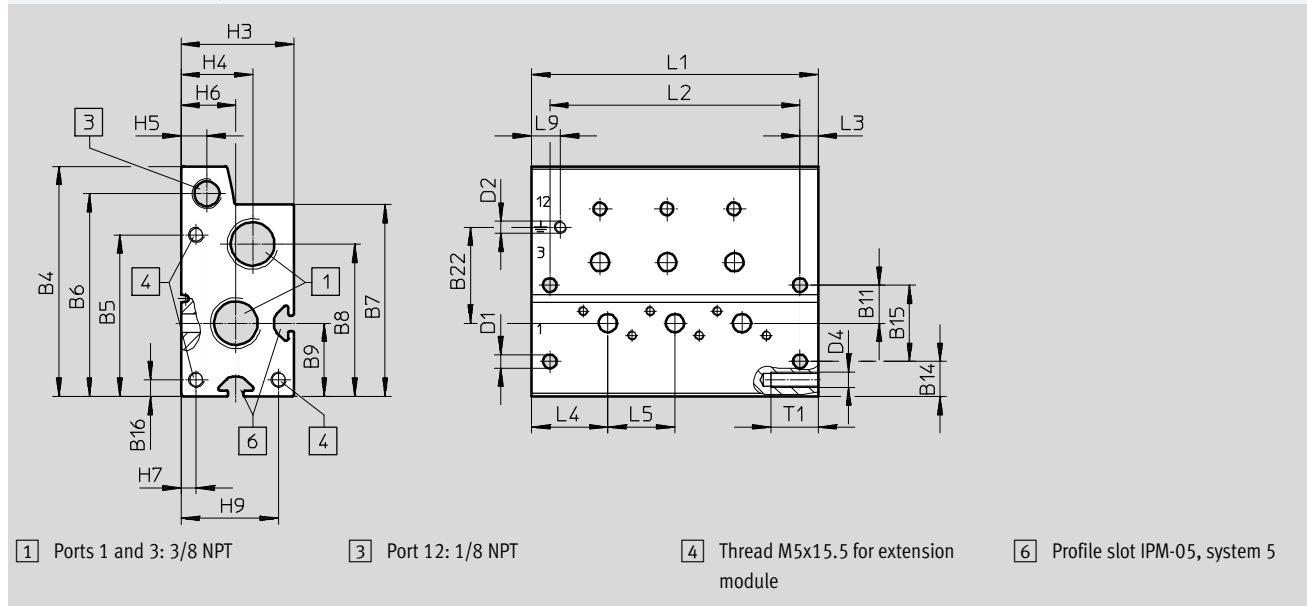
Information on materials	
Materials	Wrought aluminium alloy
Note on materials	RoHS compliant

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 20

Dimensions

Manifold block for 3/2-way valves, standard



Type	B4	B5	B6	B7	B8	B9	B11	B14	B15	B16	B22
VABM-B10-20E-...N38-...P3	75.5	53	66.5	63	50	24	12.5	11.5	25	5.5	31.5

Type	D1 Ø	D2	D4	H3	H4	H5	H6	H7	H9	L3	L4	L5	L9	T1
VABM-B10-20E-...N38-...P3	4.5	M4x6.5	M5	37	23.5	8.5	18	5	32	6	25	22	9.5	15.5

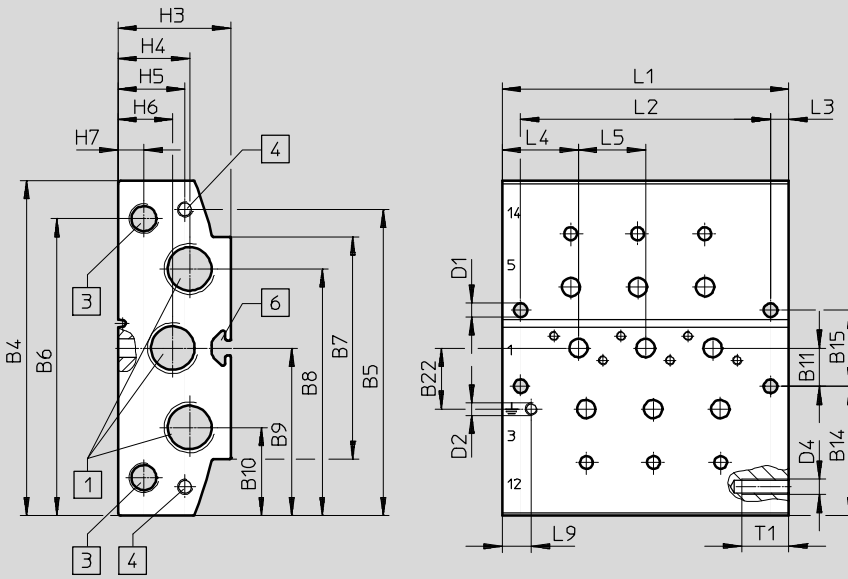
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	72	94	116	138	160	182	204	226	248
L2 [mm]	60	82	104	126	148	170	192	214	236

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 20

Dimensions

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



- 1 Ports 1, 3 and 5: 3/8 NPT
- 3 Ports 12 and 14: 1/8 NPT
- 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-...N38-...	110	100.5	97.5	73	81	55	29	12.5	42.5	25	20

Type	D1 Ø	D2	D4	H3	H4	H5	H6	H7	L3	L4	L5	L9	T1
VABM-B10-20E-...N38-...	4.5	M4x6.5	M5	37	23.5	22	18	8.5	6	25	22	9.5	15.5

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

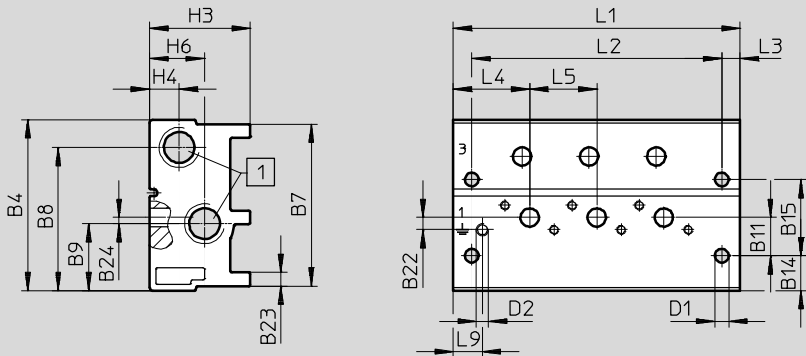
Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 20



Dimensions

Manifold block for 3/2-way valves, compact



1 Ports 1 and 3: 1/4 NPT

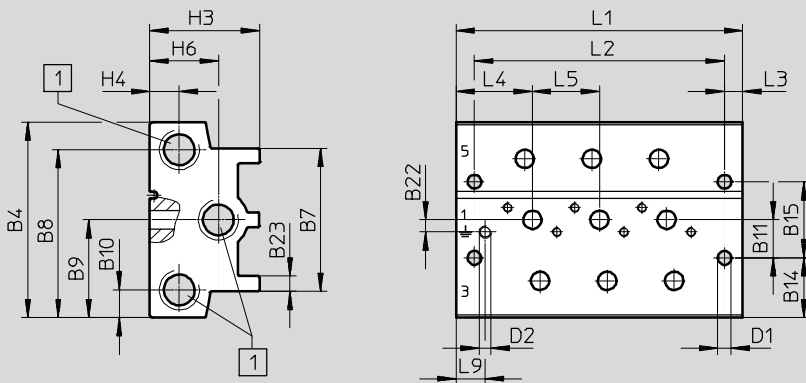
Type	B4	B7	B8	B9	B11	B14	B15	B22	B23	B24
VABM-B10-20S-...N14-...-P3	56.1	53.1	47	22	12.5	11.5	25	4	4.5	2

Type	D1 Ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-20S-...N14-...-P3	4.5	M4x6.5	33	9.7	18	6	25	22	9.5

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

Dimensions

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



1 Ports 1, 3 and 5: 1/4 NPT

Type	B4	B7	B8	B9	B10	B11	B14	B15	B22	B23
VABM-B10-20S-...N14-...	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-...N14-...	4.5	M4x6.5	36	9.7	22.5	6	25	22	9.5

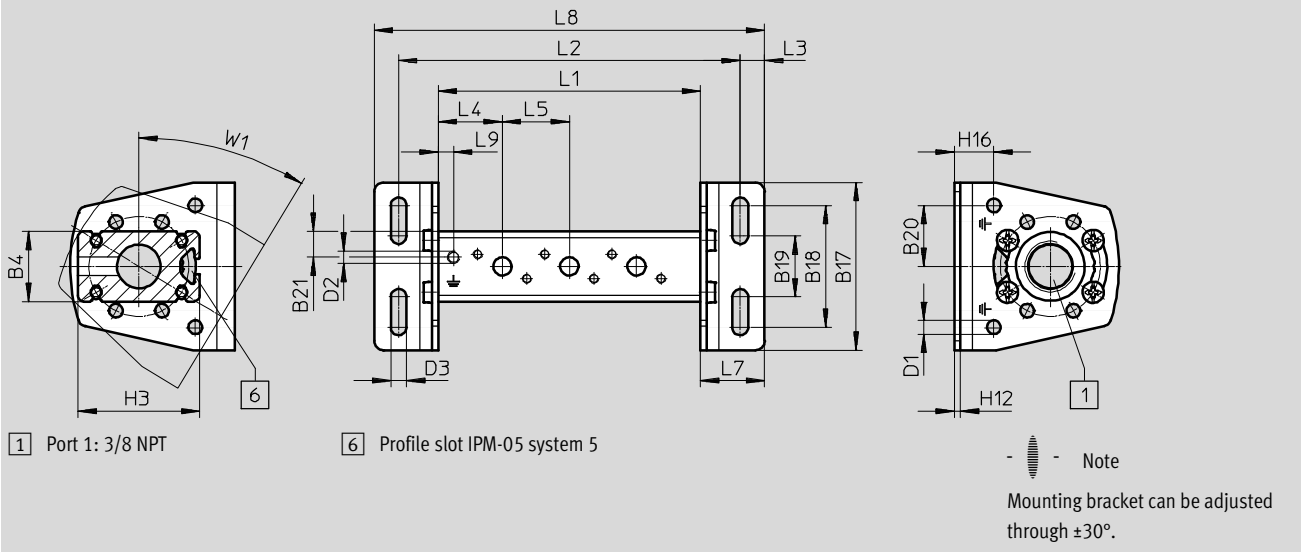
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	72	94	116	138	160	182	204	226	248
L2 [mm]	60	82	104	126	148	170	192	214	236

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 20

Dimensions

Supply manifold, mounting on both sides

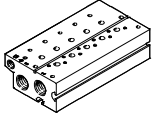

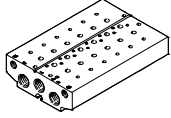

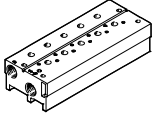

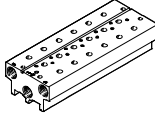

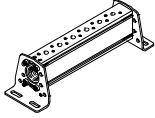



Type	B4	B17	B18	B19	B20	B21	D1 \varnothing	D2	D3 \varnothing	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-20-N38-...-P53	23	55	40	20	20	8.5	4.5	M4x6.5	5.2	40	2	13	8	21	22	21	5	30°

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

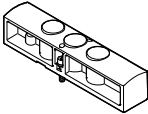
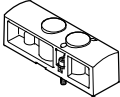

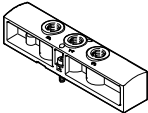

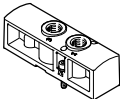



Solenoid valves VUVS/valve manifold VTUS, NPT

Ordering data – Manifold block, size 20

Ordering data – Manifold block				
Description	Valve positions	Part No.	Type	
Standard manifold block				
 <p>For 3/2-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3 and 14) at one end are included in the scope of delivery.</p>	2	576453	VABM-B10-20E-N38-2-P3	
	3	576454	VABM-B10-20E-N38-3-P3	
	4	576455	VABM-B10-20E-N38-4-P3	
	5	576456	VABM-B10-20E-N38-5-P3	
	6	576457	VABM-B10-20E-N38-6-P3	
	7	576458	VABM-B10-20E-N38-7-P3	
	8	576459	VABM-B10-20E-N38-8-P3	
	9	576460	VABM-B10-20E-N38-9-P3	
	10	576461	VABM-B10-20E-N38-10-P3	
	 <p>For 5/2- and 5/3-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) at one end are included in the scope of delivery.</p>	2	576351	VABM-B10-20E-N38-2
3		576352	VABM-B10-20E-N38-3	
4		576353	VABM-B10-20E-N38-4	
5		576354	VABM-B10-20E-N38-5	
6		576355	VABM-B10-20E-N38-6	
7		576356	VABM-B10-20E-N38-7	
8		576357	VABM-B10-20E-N38-8	
9		576358	VABM-B10-20E-N38-9	
10		576359	VABM-B10-20E-N38-10	
Compact manifold block				
 <p>For 3/2-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1 and 3) at one end are included in the scope of delivery.</p>	2	576477	VABM-B10-20S-N14-2-P3	
	3	576478	VABM-B10-20S-N14-3-P3	
	4	576479	VABM-B10-20S-N14-4-P3	
	5	576480	VABM-B10-20S-N14-5-P3	
	6	576481	VABM-B10-20S-N14-6-P3	
	7	576482	VABM-B10-20S-N14-7-P3	
	8	576483	VABM-B10-20S-N14-8-P3	
	9	576484	VABM-B10-20S-N14-9-P3	
	10	576485	VABM-B10-20S-N14-10-P3	
	 <p>For 5/2- and 5/3-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3 and 5) at one end are included in the scope of delivery.</p>	2	576429	VABM-B10-20S-N14-2
3		576430	VABM-B10-20S-N14-3	
4		576431	VABM-B10-20S-N14-4	
5		576432	VABM-B10-20S-N14-5	
6		576433	VABM-B10-20S-N14-6	
7		576434	VABM-B10-20S-N14-7	
8		576435	VABM-B10-20S-N14-8	
9		576436	VABM-B10-20S-N14-9	
10		576437	VABM-B10-20S-N14-10	
Supply manifold				
 <p>For mounting on both sides, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plug for sealing the supply port (1) at one end included in the scope of delivery.</p>	2	576375	VABM-B10-20-N38-2-P53	
	3	576376	VABM-B10-20-N38-3-P53	
	4	576377	VABM-B10-20-N38-4-P53	
	5	576378	VABM-B10-20-N38-5-P53	
	6	576379	VABM-B10-20-N38-6-P53	
	7	576380	VABM-B10-20-N38-7-P53	
	8	576381	VABM-B10-20-N38-8-P53	
	9	576382	VABM-B10-20-N38-9-P53	
	10	576383	VABM-B10-20-N38-10-P53	

Solenoid valves VUVS/valve manifold VTUS, NPT


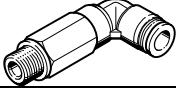
Accessories – Manifold block, size 20

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





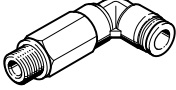

Solenoid valves VUVS/valve manifold VTUS, NPT

FESTO

Accessories – Manifold block, size 20

Ordering data					
	Description of NPT thread	Part No.	Type	PU ¹⁾	
Push-in fitting with internal hex socket					
	Connecting thread 1/8 NPT for tubing O.D.	5/32 "	572317	QB-1/8-5/32-I-U	10
		1/4 "	572318	QB-1/8-1/4-I-U	10
		5/16 "	572319	QB-1/8-5/16-I-U	10
	Connecting thread 1/4 NPT for tubing O.D.	5/16 "	572321	QB-1/4-5/16-I-U	10
		3/8 "	572322	QB-1/4-3/8-I-U	10
		1/2 "	567771	QB-1/4-1/2-U	10
	Connecting thread 3/8 NPT for tubing O.D.	5/16 "	572323	QB-3/8-5/16-I-U	10
		3/8 "	572324	QB-3/8-3/8-I-U	10
		1/2 "	572325	QB-3/8-1/2-I-U	10
Angled push-in fitting with external hex					
	Connecting thread 1/8 NPT for tubing O.D.	5/32 "	533290	QBL-1/8-5/32-U	10
		1/4 "	533292	QBL-1/8-1/4-U	10
		5/16 "	533293	QBL-1/8-5/16-U	10
	Connecting thread 1/4 NPT for tubing O.D.	5/16 "	533296	QBL-1/4-5/16-U	10
		3/8 "	533297	QBL-1/4-3/8-U	5
		1/2 "	567775	QBL-1/4-1/2-U	5
	Connecting thread 3/8 NPT for tubing O.D.	5/16 "	533299	QBL-3/8-5/16-U	5
		3/8 "	533300	QBL-3/8-3/8-U	5
		1/2 "	533301	QBL-3/8-1/2-U	5
Angled push-in fitting, long, with external hex					
	Connecting thread 1/8 NPT for tubing O.D.	5/32 "	564668	QBLL-1/8-5/32-U	10
		1/4 "	564670	QBLL-1/8-1/4-U	10
		5/16 "	564671	QBLL-1/8-5/16-U	10

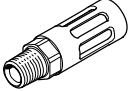

1) Packaging unit

Ordering data					
	Description of G thread	Part No.	Type	PU ¹⁾	
Push-in fitting with internal hex					
	Connecting thread G1/8 for tubing O.D. -  - Note Push-in fittings with G thread are only for supply plates.	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. -  - Note Push-in fittings with G thread are only for supply plates.	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. -  - Note Push-in fittings with G thread are only for supply plates.	4 mm	186127	QSLG-G1/8-4	10
			133015	QSLG-G1/8-4-100	100
		6 mm	186128	QSLG-G1/8-6	10
			133016	QSLG-G1/8-6-100	100
		8 mm	186130	QSLG-G1/8-8	10
			133017	QSLG-G1/8-8-100	100

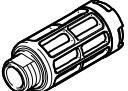

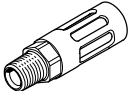



1) Packaging unit

Solenoid valves VUVS/valve manifold VTUS, NPT

Accessories – Manifold block, size 20

Ordering data					
	Description of NPT thread	Part No.	Type	PU ¹⁾	
Silencer					
	With connecting thread NPT, metal design	1/4 NPT	12639	U-1/4-B-NPT	1
		3/8 NPT	12740	U-3/8-B-NPT	1
	With connecting thread NPT, sintered design, long	1/4 NPT	1206990	AMTE-M-LH-N14	20
		3/8 NPT	1206991	AMTE-M-LH-N38	10

1) Packaging unit

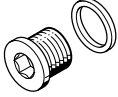



Ordering data					
	Description of G thread	Part No.	Type	PU ¹⁾	
Silencer					
	With connecting thread G, plastic design -  - Note Silencers with G thread are only for supply plates.	G1/8	2307	U-1/8	1
			534222	U-1/8-50	50
	With connecting thread G, metal design -  - Note Silencers with G thread are only for supply plates.	G1/8	6841	U-1/8-B	1
	With connecting thread G, sintered design, long -  - Note Silencers with G thread are only for supply plates.	G1/8	1205860	AMTE-M-LH-G18	20

1) Packaging unit

Solenoid valves VUVS/valve manifold VTUS, NPT

FESTO


Accessories – Manifold block, size 20

Ordering data					
	Description		Part No.	Type	PU ¹⁾
Blanking plug					
	With connecting thread NPT	1/8 NPT	173985	B-1/8-NPT	1
		1/4 NPT	174165	B-1/4-NPT	1
		3/8 NPT	174169	B-3/8-NPT	1
Separator					
	For creating pressure zones	G1/8 1/8 NPT	569995	VABD-8-B	1
		G1/4 1/4 NPT	569996	VABD-10-B	1
		G3/8 3/8 NPT	574483	VABD-14-B	1
H-rail mounting					
	For mounting the valve manifold on standard H-rail TH 35-7.5 or TH 35-15, to EN 60715		569998	VAME-T-M4	2
Inscription label					
	40 pieces in frame		565306	ASLR-C-E4	1

1) Packaging unit

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 25

 Flow rate
 Up to 1300 l/min



General technical data					
	Manifold block standard		Manifold block compact		Supply manifold on both sides
For valves	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
Maximum number of valve positions	10	10	10	10	10
Port 1	1/2 NPT	1/2 NPT	3/8 NPT	3/8 NPT	1/2 NPT
Port 3	1/2 NPT	1/2 NPT	3/8 NPT	3/8 NPT	–
Port 5	–	1/2 NPT	–	3/8 NPT	–
Port 12	1/8 NPT	1/8 NPT	–	–	–
Port 14	–	1/8 NPT	–	–	–
CRC ¹⁾	2 ¹⁾				

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

Weight [g]									
Valve positions	2	3	4	5	6	7	8	9	10
Manifold block for 3/2-way valves, standard									
VABM-B10-25E-...N12-...-P3	729	963	1197	1431	1665	1899	2133	2367	2601
Manifold block for 5/2- and 5/3-way valves, standard									
VABM-B10-25E-...N12-...	932	1229	1526	1823	2120	2417	2714	3011	3308
Manifold block for 3/2-way valves, compact									
VABM-B10-25S-...N38-...-P3	371	490	609	728	847	966	1085	1204	1323
Manifold block for 5/2- and 5/3-way valves, compact									
VABM-B10-25S-...N38-...	440	581	722	863	1004	1145	1286	1427	1568
Supply manifold for mounting on both sides									
VABM-B10-25-...N12-...-P53	260	342	424	506	588	670	752	834	916

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

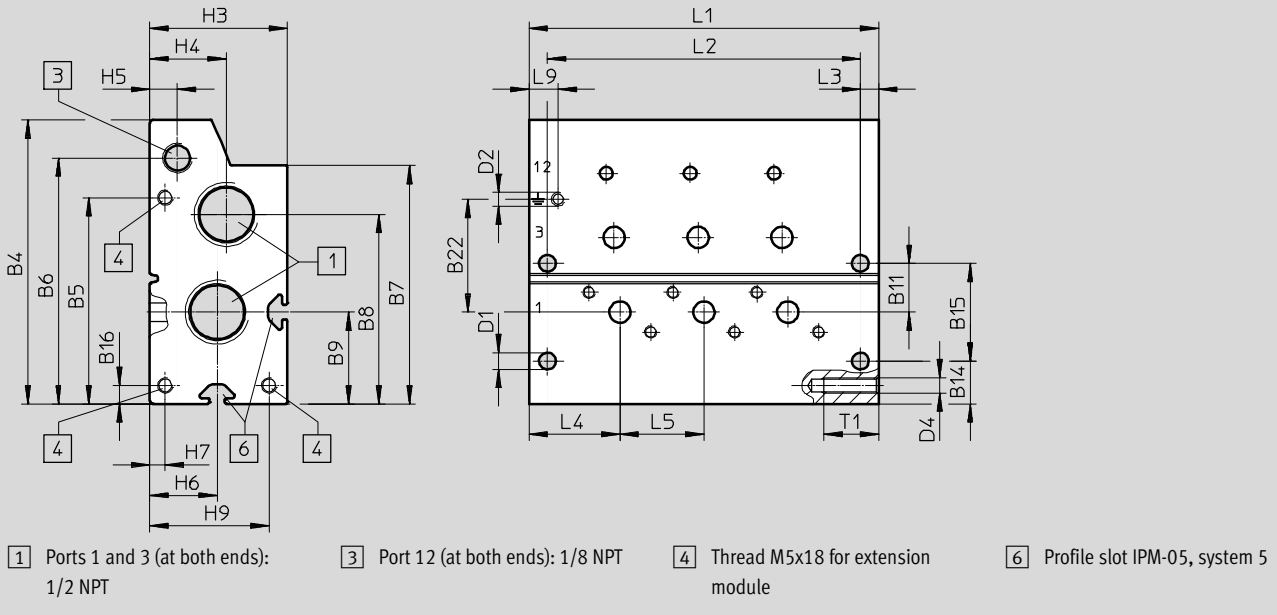
Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 25



Dimensions

Manifold block for 3/2-way valves, standard



Type	B4	B5	B6	B7	B8	B9	B11	B14	B15	B16	B22
VABM-B10-25-E-...N12-...-P3	93	67.5	80.5	78	62	30	16	14	32	6	37

Type	D1 Ø	D2	D4	H3	H4	H5	H6	H7	H9	L3	L4	L5	L9	T1
VABM-B10-25-E-...N12-...-P3	5.5	M4x9	M5	45	25	9	22	5	39	6	29.8	27.5	9.5	18

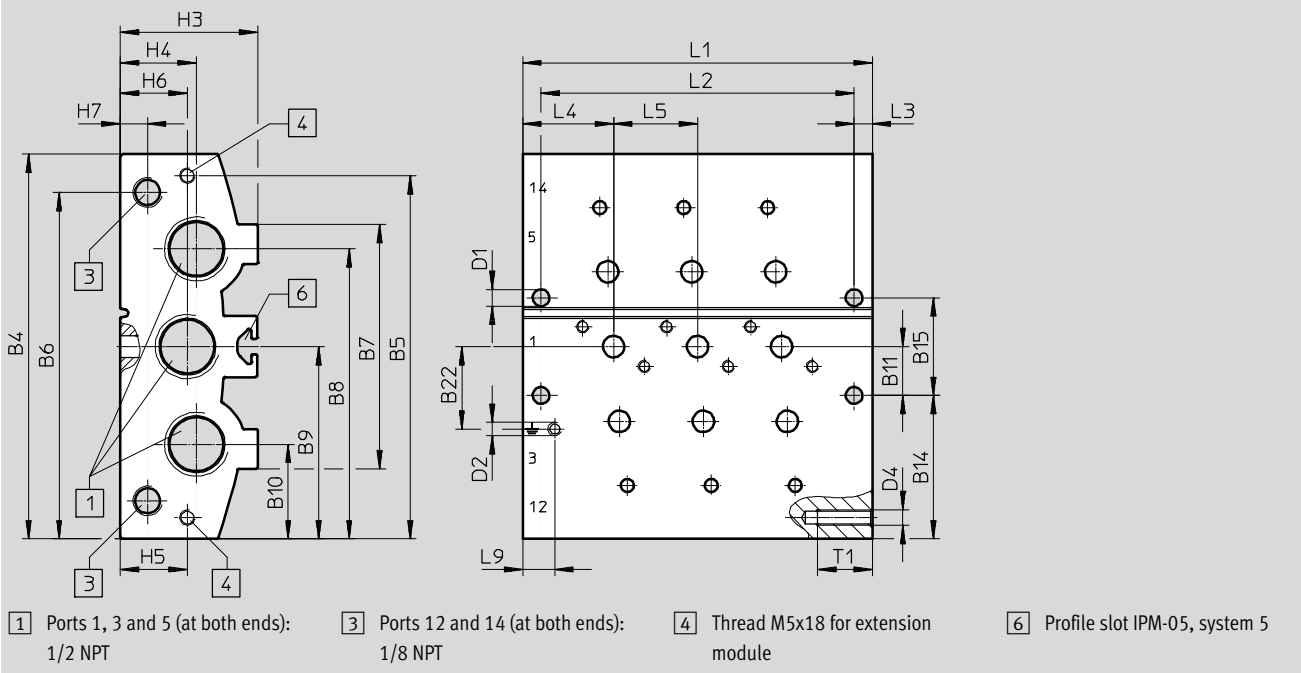
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 25

Dimensions

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



Type	B4	B5	B6	B7	B8	B9	B10	B11	B14	B15	B22
VABM-B10-25E-...-N12-...	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-...-N12-...	5.5	M4x9	M5	45	25	22	22	9	6	29.8	27.5	10.5	18

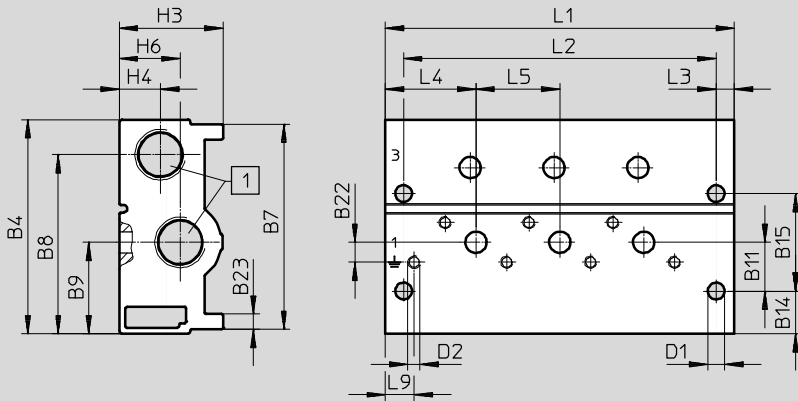
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 25

Dimensions

Manifold block for 3/2-way valves, compact



1 Ports 1 and 3 (at both ends):
3/8 NPT

Type	B4	B7	B8	B9	B11	B14	B15	B22	B23
VABM-B10-25S-...N38-...-P3	70.3	67.3	58.8	30	16	14	32	6.5	5

Type	D1 Ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-25S-...N38-...-P3	5.5	M4x9	34	13.5	20	6	29.8	27.5	9.5

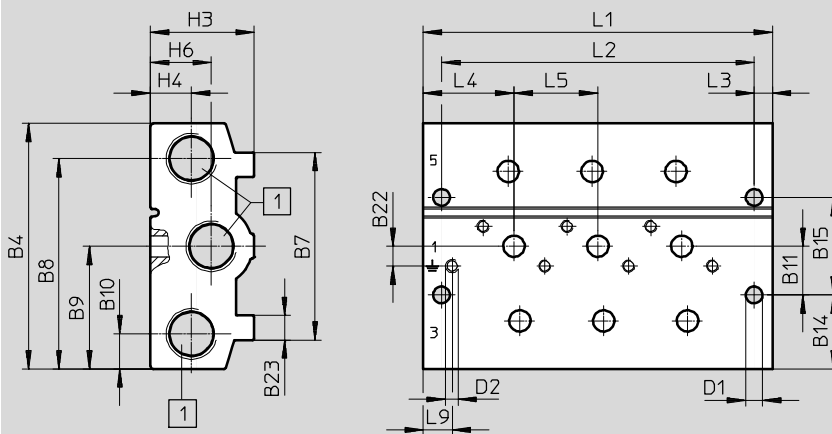
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 25

Dimensions

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



1 Ports 1, 3 and 5 (at both ends):
3/8 NPT

Type	B4	B7	B8	B9	B10	B11	B14	B15	B22	B23
VABM-B10-25S-...N38-...	80.5	61.5	69	40.3	11.5	16	24.3	32	6.5	8

Type	D1 Ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-25S-...N38-...	5.5	M4x9	34	13.5	20	6	29.8	27.5	9.5

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

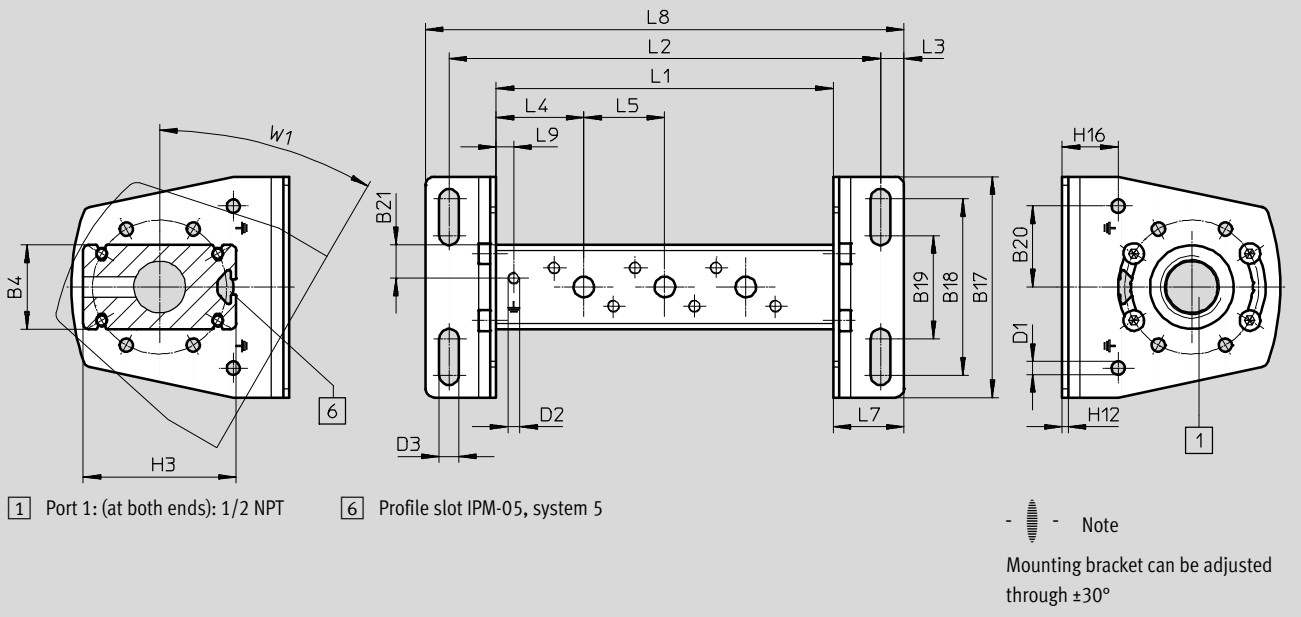
Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 25



Dimensions

Supply manifold, mounting on both sides

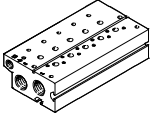

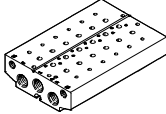

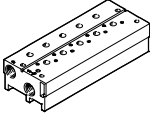

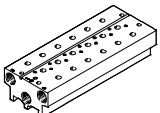

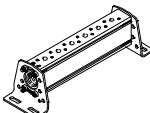



Type	B4	B17	B18	B19	B20	B21	D1 \varnothing	D2	D3 \varnothing	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-25-N12-...-P53	28.7	75	60	35	27.5	11.4	4.5	M4x9	6.6	52	2	19	8	29.8	27.5	24	6	30

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

Solenoid valves VUVS/valve manifold VTUS, NPT

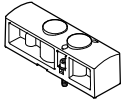
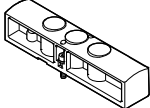

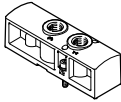

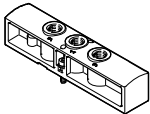



Ordering data – Manifold block, size 25

Ordering data				
Description	Valve positions	Part No.	Type	
Standard manifold block				
 <p>For 3/2-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3 and 14) at one end are included in the scope of delivery.</p>	2	8026288	VABM-B10-25E-N12-2-P3	
	3	8026289	VABM-B10-25E-N12-3-P3	
	4	8026290	VABM-B10-25E-N12-4-P3	
	5	8026291	VABM-B10-25E-N12-5-P3	
	6	8026292	VABM-B10-25E-N12-6-P3	
	7	8026293	VABM-B10-25E-N12-7-P3	
	8	8026294	VABM-B10-25E-N12-8-P3	
	9	8026295	VABM-B10-25E-N12-9-P3	
	10	8026296	VABM-B10-25E-N12-10-P3	
	 <p>For 5/2- and 5/3-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) at one end are included in the scope of delivery.</p>	2	8026252	VABM-B10-25E-N12-2
3		8026253	VABM-B10-25E-N12-3	
4		8026254	VABM-B10-25E-N12-4	
5		8026255	VABM-B10-25E-N12-5	
6		8026256	VABM-B10-25E-N12-6	
7		8026257	VABM-B10-25E-N12-7	
8		8026258	VABM-B10-25E-N12-8	
9		8026259	VABM-B10-25E-N12-9	
10		8026260	VABM-B10-25E-N12-10	
Compact manifold block				
 <p>For 3/2-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1 and 3) at one end are included in the scope of delivery.</p>	2	8026306	VABM-B10-25S-N38-2-P3	
	3	8026307	VABM-B10-25S-N38-3-P3	
	4	8026308	VABM-B10-25S-N38-4-P3	
	5	8026309	VABM-B10-25S-N38-5-P3	
	6	8026310	VABM-B10-25S-N38-6-P3	
	7	8026311	VABM-B10-25S-N38-7-P3	
	8	8026312	VABM-B10-25S-N38-8-P3	
	9	8026313	VABM-B10-25S-N38-9-P3	
	10	8026314	VABM-B10-25S-N38-10-P3	
	 <p>For 5/2- and 5/3-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3 and 5) at one end are included in the scope of delivery.</p>	2	8026270	VABM-B10-25S-N38-2
3		8026271	VABM-B10-25S-N38-3	
4		8026272	VABM-B10-25S-N38-4	
5		8026273	VABM-B10-25S-N38-5	
6		8026274	VABM-B10-25S-N38-6	
7		8026275	VABM-B10-25S-N38-7	
8		8026276	VABM-B10-25S-N38-8	
9		8026277	VABM-B10-25S-N38-9	
10		8026278	VABM-B10-25S-N38-10	
Supply manifold				
 <p>For mounting on both sides, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plug for sealing the supply port (1) at one end included in the scope of delivery.</p>	2	8026228	VABM-B10-25-N12-2-P53	
	3	8026229	VABM-B10-25-N12-3-P53	
	4	8026230	VABM-B10-25-N12-4-P53	
	5	8026231	VABM-B10-25-N12-5-P53	
	6	8026232	VABM-B10-25-N12-6-P53	
	7	8026233	VABM-B10-25-N12-7-P53	
	8	8026234	VABM-B10-25-N12-8-P53	
	9	8026235	VABM-B10-25-N12-9-P53	
	10	8026236	VABM-B10-25-N12-10-P53	

Solenoid valves VUVS/valve manifold VTUS, NPT




FESTO

Accessories – Manifold block, size 25





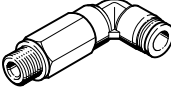

Ordering data			
Description	Weight [g]	Part No.	Type
Blanking plate			
 For valve position on manifold block for 3/2-way valves	84	8026210	VABB-B10-25-E-P3
 For valve position on manifold block for 5/2-, 5/3-way valves	117	8026209	VABB-B10-25-E
 For valve position on supply manifold	28	8026208	VABB-B10-25-A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

Solenoid valves VUVS/valve manifold VTUS, NPT

Accessories – Manifold block, size 25

Ordering data					
	Description of NPT thread		Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread 1/8 NPT for tubing O.D.	1/4 "	572318	QB-1/8-1/4-I-U	10
	Connecting thread 3/8 NPT for tubing O.D.	5/16 "	572323	QB-3/8-5/16-I-U	10
		3/8 "	572324	QB-3/8-3/8-I-U	10
		1/2 "	572325	QB-3/8-1/2-I-U	10
	Connecting thread 1/2 NPT for tubing O.D.	1/2 "	572326	QB-1/2-1/2-I-U	10
Push-in fitting with external hex					
	Connecting thread 1/2 NPT for tubing O.D.	3/8 "	533283	QB-1/2-3/8-U	5
Angled push-in fitting with external hex					
	Connecting thread 3/8 NPT for tubing O.D.	5/16 "	533299	QBL-3/8-5/16-U	5
		3/8 "	533300	QBL-3/8-3/8-U	5
		1/2 "	533301	QBL-3/8-1/2-U	5
	Connecting thread 1/2 NPT for tubing O.D.	3/8 "	533302	QBL-1/2-3/8-U	5
		1/2 "	533303	QBL-1/2-1/2-U	5

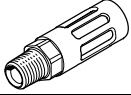

1) Packaging unit

Ordering data					
	Description of G thread		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
	-  - Note Push-in fittings with G thread are only for supply plates.				
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	
-  - Note Push-in fittings with G thread are only for supply plates.					
Angled push-in fitting, long, with external hex					
	Connecting thread G1/4 for tubing O.D.	6 mm	186129	QSL-G1/4-6	10
		8 mm	186131	QSL-G1/4-8	10
		10 mm	186133	QSL-G1/4-10	10
	-  - Note Push-in fittings with G thread are only for supply plates.				





1) Packaging unit

Solenoid valves VUVS/valve manifold VTUS, NPT

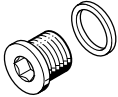

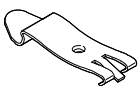

Accessories – Manifold block, size 25

Ordering data					
Description of NPT thread		Part No.	Type	PU ¹⁾	
Silencer					
	With connecting thread NPT, metal design	3/8 NPT	12740	U-3/8-B-NPT	1
		1/2 NPT	12741	U-1/2-B-NPT	1
	With connecting thread NPT, sintered design, long	3/8 NPT	1206991	AMTE-M-LH-N38	20
		1/2 NPT	1206992	AMTE-M-LH-N12	10

1) Packaging unit

Ordering data					
Description of G thread		Part No.	Type	PU ¹⁾	
Silencer					
	With connecting thread G, plastic design	G1/4	2316	U-1/4	1
			534223	U-1/4-20	20
 - Note Silencers with G thread are only for supply plates.					
	With connecting thread G, sintered design, long	G1/4	1205861	AMTE-M-LH-G14	20
			 - Note Silencers with G thread are only for supply plates.		


1) Packaging unit

Ordering data					
Description		Part No.	Type	PU ¹⁾	
Blanking plug					
	With connecting thread NPT	1/8 NPT	173985	B-1/8-NPT	1
		3/8 NPT	174169	B-3/8-NPT	1
		1/2 NPT	31785	B-1/2-NPT	1
Separator					
	For creating pressure zones for port	G1/8	569995	VABD-8-B	1
		1/8 NPT			
		G1/4	569996	VABD-10-B	1
		1/4 NPT			
		G3/8	574483	VABD-14-B	1
		3/8 NPT			
H-rail mounting					
	For size 25, for mounting on standard H-rails TH 35-7.5 or TH 35-15 to EN 60715	2636436	VAME-T-M5	2	
Inscription label					
	40 pieces in frame	565306	ASLR-C-E4	1	

1) Packaging unit

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 30

 Flow rate
 Up to 2300 l/min



General technical data					
Valve function	Manifold block standard		Manifold block compact		Supply manifold On both sides
		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	10		10
Port 1	3/4 NPT	3/4 NPT	1/2 NPT	1/2 NPT	3/4 NPT
Port 3	3/4 NPT	3/4 NPT	1/2 NPT	1/2 NPT	–
Port 5	–	3/4 NPT	–	1/2 NPT	–
Port 12	1/8 NPT	1/8 NPT	–	–	–
Port 14	–	1/8 NPT	–	–	–
CRC ¹⁾	2 ¹⁾				

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

Weight [g]									
Valve positions	2	3	4	5	6	7	8	9	10
Manifold block for 3/2-way valves, standard									
VABM-B10-30E-N34-...-P3	1411	1828	2245	2662	3079	3496	3913	4330	4747
Manifold block for 5/2- and 5/3-way valves, standard									
VABM-B10-30E-N34-...	1722	2213	2703	3194	3684	4175	4665	5156	5646
Manifold block for 3/2-way valves, compact									
VABM-B10-30S-N12-...-P3	652	872	1093	1313	1533	1753	1973	2193	2413
Manifold block for 5/2- and 5/3-way valves, compact									
VABM-B10-30S-N12-...	759	1013	1267	1522	1776	2030	2285	2539	2793
Supply manifold for mounting on both sides									
VABM-B10-30-N34-...-P53	818	977	1135	1293	1452	1610	1768	1927	2085

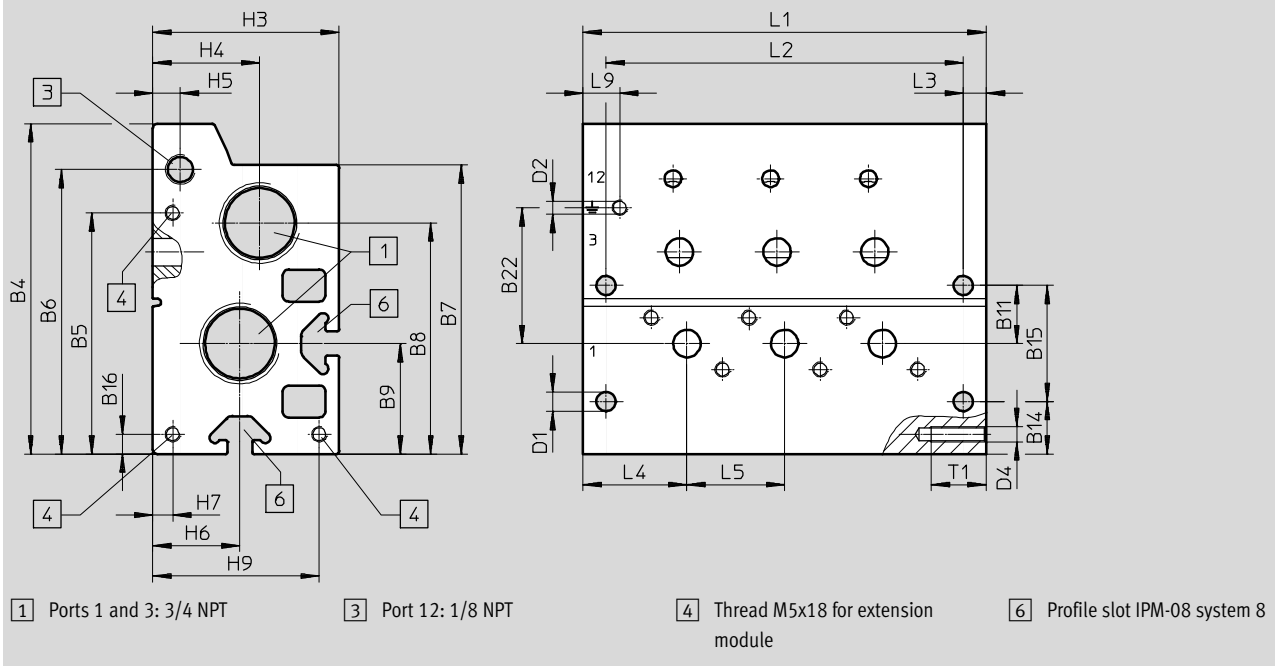
Information on materials	
Materials	Wrought aluminium alloy
Note on materials	RoHS-compliant

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 30

Dimensions

Manifold block for 3/2-way valves, standard



Type	B4	B5	B6	B7	B8	B9	B11	B14	B15	B16	B22
VABM-B10-30E-N34-...-P3	108.2	79	93.2	94.7	75.7	36.2	19	17.2	38	6.5	44.5

Type	D1 Ø	D2	D4	H3	H4	H5	H6	H7	H9	L3	L4	L5	L9	T1
VABM-B10-30E-N34-...-P3	6.3	M5x11	M5	61	35	9	28.5	6.5	54.5	7.5	34	32	12	18

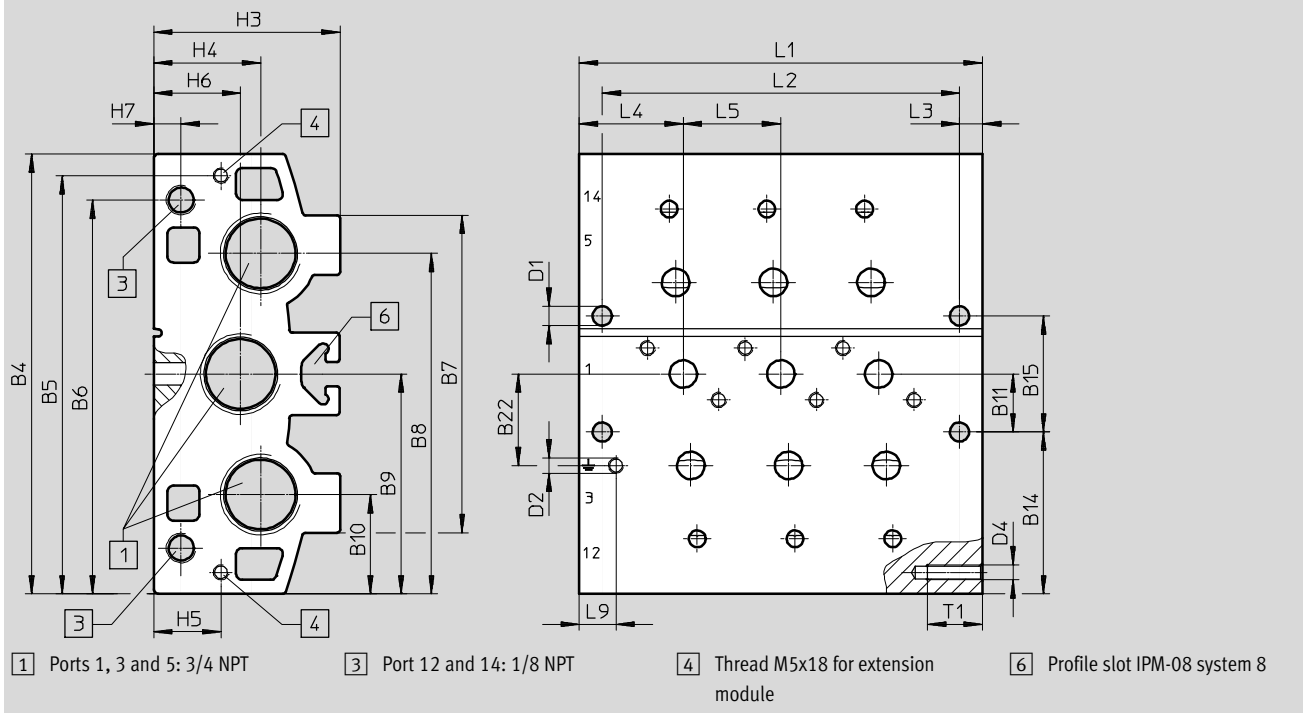
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	100	132	164	196	228	260	292	324	356
L2 [mm]	85	117	149	181	213	245	277	309	341

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 30

Dimensions

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



Type	B4	B5	B6	B7	B8	B9	B10	B11	B14	B15	B22
VABM-B10-30E-N34-...	144	137	129	104	111.5	72	32.5	19	53	38	30

Type	D1 Ø	D2	D4	H3	H4	H5	H6	H7	L3	L4	L5	L9	T1
VABM-B10-30E-N34-...	6.3	M5x11	M5	61	35	22	28.5	9	7.5	34	32	12	18

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

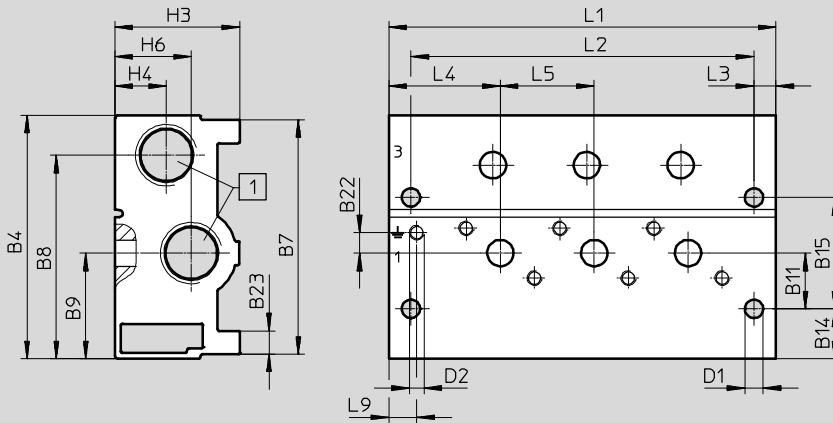
Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 30



Dimensions

Manifold block for 3/2-way valves, compact



1 Ports 1 and 3: 1/2 NPT

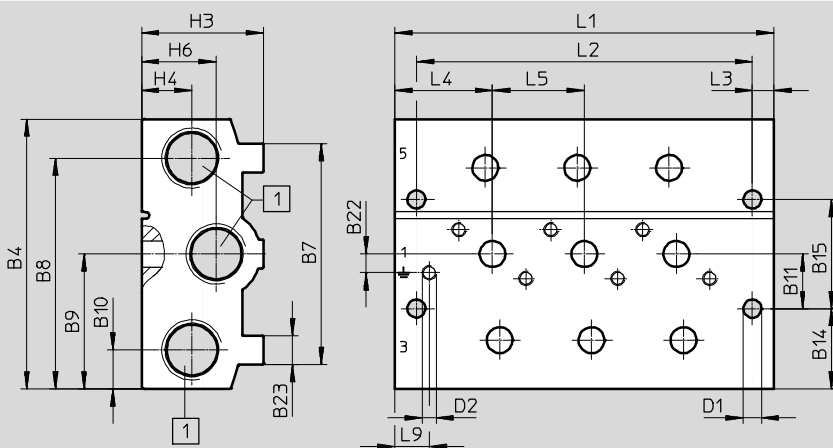
Type	B4	B7	B8	B9	B11	B14	B15	B22	B23
VABM-B10-30S-N12-...-P3	83	80	69.4	36	19	17	38	7	8

Type	D1 Ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-30S-N12-...-P3	6.3	M5x11	42.5	17.5	26	7.5	38	32	12

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

Dimensions

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



1 Ports 1, 3 and 5: 1/2 NPT

Type	B4	B7	B8	B9	B10	B11	B14	B15	B22	B23
VABM-B10-30S-N12-...	94	77	80.4	47	13.6	19	28	38	6.5	10

Type	D1 Ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-30S-N12-...	6.3	M5x11	42.5	17.5	26	7.5	34	32	12

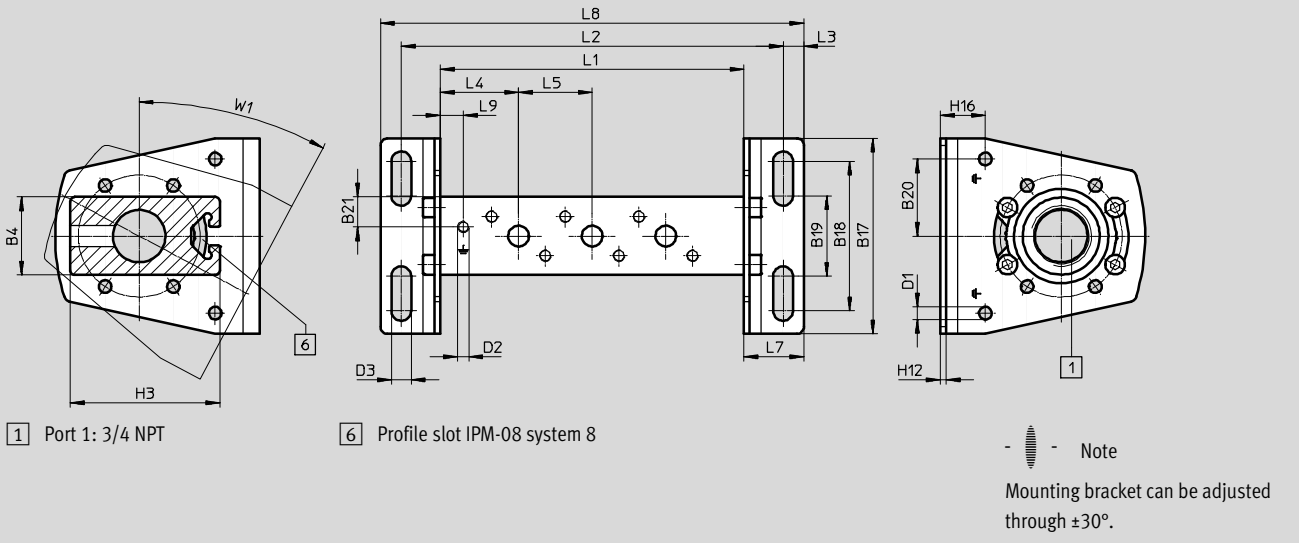
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	100	132	164	196	228	260	292	324	356
L2 [mm]	85	117	149	181	213	245	277	309	341

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 30

Dimensions

Supply manifold, mounting on both sides

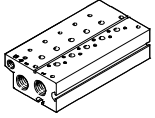

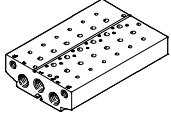

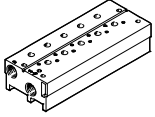

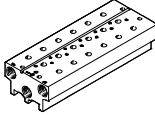

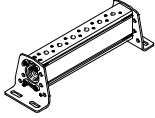



Type	B4	B17	B18	B19	B20	B21	D1 \varnothing	D2	D3 \varnothing	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-30-N34-...-P53	34	85	65	35	33.5	13	5.5	M5x11	8.6	65	2.5	19.5	9	34	32	26	10	30°

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

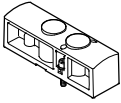
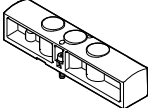

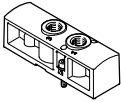

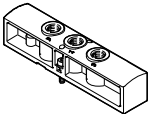



Solenoid valves VUVS/valve manifold VTUS, NPT

Ordering data – Manifold block, size 30

Ordering data – Manifold block				
Description	Valve positions	Part No.	Type	
Standard manifold block				
 <p>For 3/2-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3 and 14) at one end are included in the scope of delivery.</p>	2	8026404	VABM-B10-30E-N34-2-P3	
	3	8026405	VABM-B10-30E-N34-3-P3	
	4	8026406	VABM-B10-30E-N34-4-P3	
	5	8026407	VABM-B10-30E-N34-5-P3	
	6	8026408	VABM-B10-30E-N34-6-P3	
	7	8026409	VABM-B10-30E-N34-7-P3	
	8	8026410	VABM-B10-30E-N34-8-P3	
	9	8026411	VABM-B10-30E-N34-9-P3	
	10	8026412	VABM-B10-30E-N34-10-P3	
	 <p>For 5/2- and 5/3-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) at one end are included in the scope of delivery.</p>	2	8026368	VABM-B10-30E-N34-2
3		8026369	VABM-B10-30E-N34-3	
4		8026370	VABM-B10-30E-N34-4	
5		8026371	VABM-B10-30E-N34-5	
6		8026372	VABM-B10-30E-N34-6	
7		8026373	VABM-B10-30E-N34-7	
8		8026374	VABM-B10-30E-N34-8	
9		8026375	VABM-B10-30E-N34-9	
10		8026376	VABM-B10-30E-N34-10	
Compact manifold block				
 <p>For 3/2-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1 and 3) at one end are included in the scope of delivery.</p>	2	8026422	VABM-B10-30S-N12-2-P3	
	3	8026423	VABM-B10-30S-N12-3-P3	
	4	8026424	VABM-B10-30S-N12-4-P3	
	5	8026425	VABM-B10-30S-N12-5-P3	
	6	8026426	VABM-B10-30S-N12-6-P3	
	7	8026427	VABM-B10-30S-N12-7-P3	
	8	8026428	VABM-B10-30S-N12-8-P3	
	9	8026429	VABM-B10-30S-N12-9-P3	
	10	8026430	VABM-B10-30S-N12-10-P3	
	 <p>For 5/2- and 5/3-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3 and 5) at one end are included in the scope of delivery.</p>	2	8026386	VABM-B10-30S-N12-2
3		8026387	VABM-B10-30S-N12-3	
4		8026388	VABM-B10-30S-N12-4	
5		8026389	VABM-B10-30S-N12-5	
6		8026390	VABM-B10-30S-N12-6	
7		8026391	VABM-B10-30S-N12-7	
8		8026392	VABM-B10-30S-N12-8	
9		8026393	VABM-B10-30S-N12-9	
10		8026394	VABM-B10-30S-N12-10	
Supply manifold				
 <p>For mounting on both sides, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plug for sealing the supply port (1) at one end included in the scope of delivery.</p>	2	8026347	VABM-B10-30-N34-2-P53	
	3	8026348	VABM-B10-30-N34-3-P53	
	4	8026349	VABM-B10-30-N34-4-P53	
	5	8026350	VABM-B10-30-N34-5-P53	
	6	8026351	VABM-B10-30-N34-6-P53	
	7	8026352	VABM-B10-30-N34-7-P53	
	8	8026353	VABM-B10-30-N34-8-P53	
	9	8026354	VABM-B10-30-N34-9-P53	
	10	8026355	VABM-B10-30-N34-10-P53	

Solenoid valves VUVS/valve manifold VTUS, NPT





Accessories – Manifold block, size 30

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





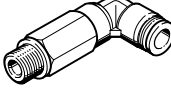

Solenoid valves VUVS/valve manifold VTUS, NPT

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Accessories – Manifold block, size 30

Ordering data					
	Description of NPT thread	Part No.	Type	PU ¹⁾	
Push-in fitting with internal hex					
	Connecting thread 1/8 NPT for tubing O.D.	1/4 "	572318	QB-1/8-1/4-I-U	10
	Connecting thread 1/2 NPT for tubing O.D.	1/2 "	572326	QB-1/2-1/2-I-U	10
Push-in fitting with external hex					
	Connecting thread 1/2 NPT for tubing O.D.	3/8 "	533283	QB-1/2-3/8-U	5
Angled push-in fitting with external hex					
	Connecting thread 1/2 NPT for tubing O.D.	3/8 "	533302	QBL-1/2-3/8-U	5
		1/2 "	533303	QBL-1/2-1/2-U	5
Barbed fitting with external hex					
	Connecting thread 3/4 NPT for tubing I.D. Aluminium design	19 mm	564848	N-3/4-P-19-NPT	1

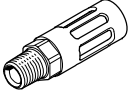

1) Packaging unit

Ordering data					
	Description of G thread	Part No.	Type	PU ¹⁾	
Push-in fitting with internal hex					
	Connecting thread G3/8 for tubing O.D. -  - Note Push-in fittings with G thread are only for supply plates.	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. -  - Note Push-in fittings with G thread are only for supply plates.	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. -  - Note Push-in fittings with G thread are only for supply plates.	8 mm	186132	QSL-G3/8-8	10
		10 mm	186134	QSL-G3/8-10	10
		12 mm	186135	QSL-G3/8-12	10

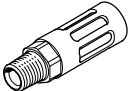



1) Packaging unit

Solenoid valves VUVS/valve manifold VTUS, NPT

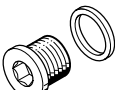

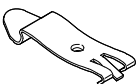

Accessories – Manifold block, size 30

Ordering data					
	Description of NPT thread	Part No.	Type	PU ¹⁾	
Silencer					
	With connecting thread NPT, metal design	3/8 NPT	12740	U-3/8-B-NPT	1
		1/2 NPT	12741	U-1/2-B-NPT	1
		3/4 NPT	566823	U-3/4-B-NPT	1
	With connecting thread NPT, sintered design, long	1/2 NPT	1206992	AMTE-M-LH-N12	10

1) Packaging unit

Ordering data					
	Description of G thread	Part No.	Type	PU ¹⁾	
Silencer					
	With connecting thread G, metal design -  - Note Silencers with G thread are only for supply plates.	G3/8	6843	U-3/8-B	1
			With connecting thread G, sintered design, long -  - Note Silencers with G thread are only for supply plates.	3/8 NPT	1206991

1) Packaging unit

Ordering data					
	Description	Part No.	Type	PU ¹⁾	
Blanking plug					
	With connecting thread NPT	1/8 NPT	173985	B-1/8-NPT	1
		1/2 NPT	31785	B-1/2-NPT	1
		3/4 NPT	31786	B-3/4-NPT	1
Separator					
	For creating pressure zones	G1/8	569995	VABD-8-B	1
		1/8 NPT			
		G1/2	8022483	VABD-17.5-B	1
		1/2 NPT			
		G3/4	8022484	VABD-22.7-B	1
		3/4 NPT			
H-rail mounting					
	For size 30, for mounting on standard H-rails TH 35-7.5 or TH 35-15 to EN 60715	3488412	VAME-T-M6	2	
Inscription label					
	40 pieces in frame	565306	ASLR-C-E4	1	

1) Packaging unit