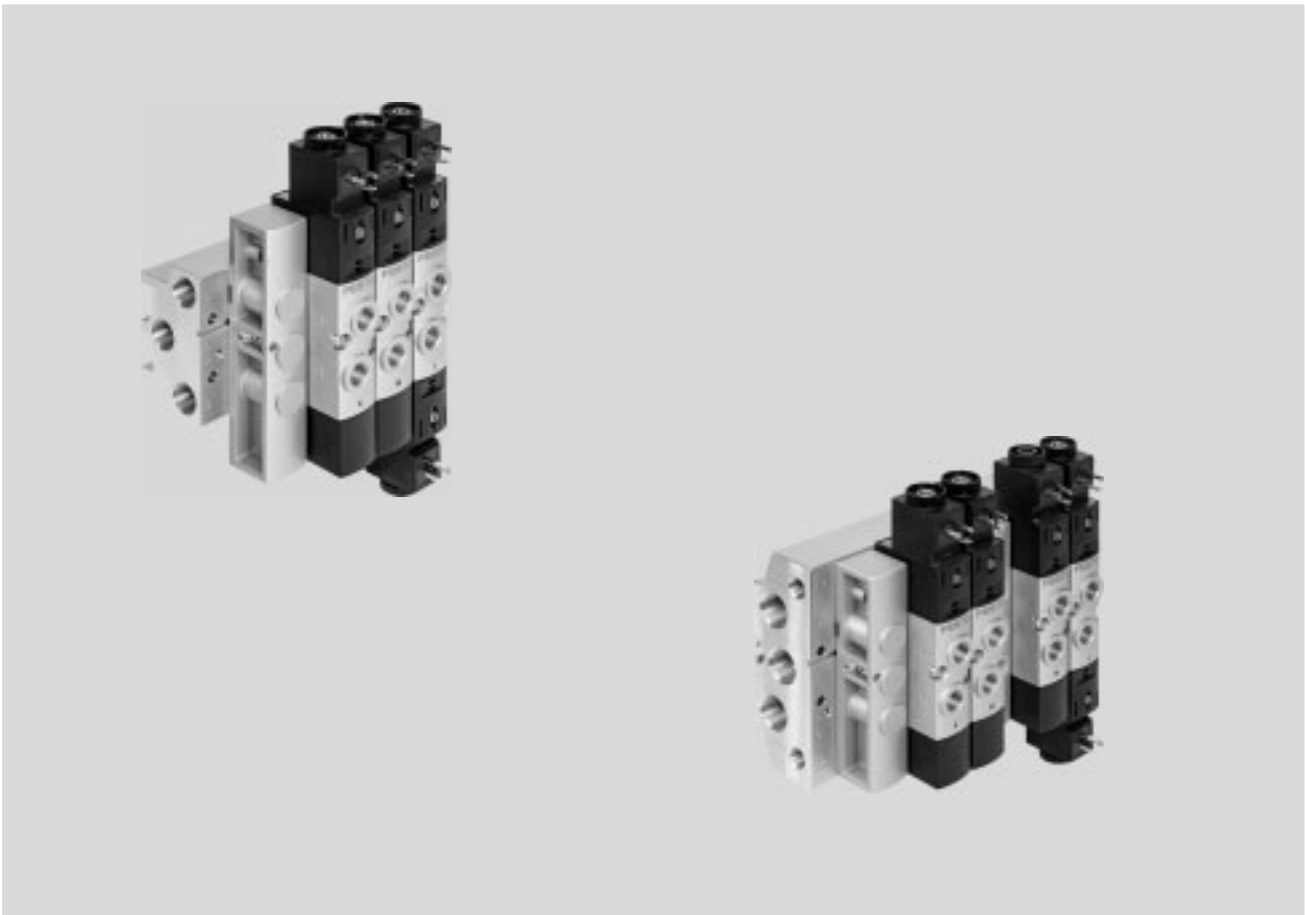


Solenoid valves VUVS/valve manifold VTUS



# Solenoid valves VUVS/valve manifold VTUS

Key features



### Innovative

- A reliable, robust valve with a long service life
- Flow rate up to 1300 l/min
- Low-cost universal valve with no performance limitations
- 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
- Durable thanks to tried and tested piston spools
- Reliable servicing thanks to valves that can be replaced quickly and easily

### Easy to install

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

### Valve manifold selection

#### Configurator

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

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

Ordering system for valve manifold VTUS

➔ Internet: vtus

#### 2D/3D CAD data

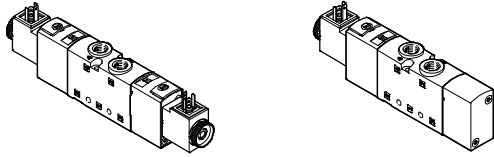
The CAD data for a configured valve manifold can be retrieved online using the configurator.

# Solenoid valves VUVS/valve manifold VTUS

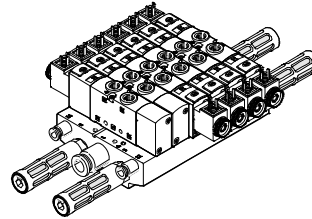
Key features

## Solenoid valves VUVS

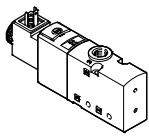
In-line valve VUVS as individual valve



Valve manifold VTUS



## Equipment options



- 3/2-, 5/2- and 5/3-way valves, with or without solenoid coil
- Width 20 (21 mm) and width 25 (26.5 mm)

All valves are equipped with a piston spool and patented sealing system to facilitate efficient sealing, a broad pressure range and a long service life.

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

## Valve functions

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

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

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

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

5/2-way valve, single solenoid:

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

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

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

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

- Creation of pressure zones (maximum 9 pressure zones in the case of manifold assemblies 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

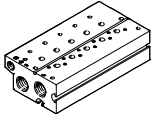
installation remain unchanged. For the standard manifold block, extension modules with two valve positions are available.

# Solenoid valves VUVS/valve manifold VTUS

Key features

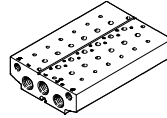
## Standard manifold block

For 3/2-way valves



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

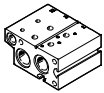
For 5/2- and 5/3-way valves



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

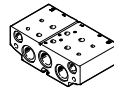
## Extension for standard manifold block

For 3/2-way valves



- Connection:  
width 20: G3/8  
width 25: G1/2
- Maximum two valve positions

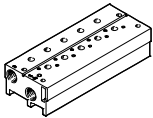
For 5/2- and 5/3-way valves



- Connection:  
width 20: G3/8  
width 25: G1/2
- Maximum two valve positions

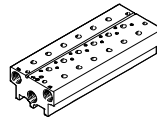
## Compact manifold block

For 3/2-way valves



- Connection:  
width 20: G1/4  
width 25: G3/8
- Maximum 10 valve positions

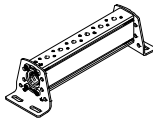
For 5/2- and 5/3-way valves



- Connection:  
width 20: G1/4  
width 25: G3/8
- Maximum 10 valve positions

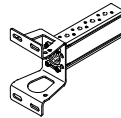
## Supply manifold

Mounting on both sides



- Connection:  
width 20: G3/8  
width 25: G1/2
- Maximum 10 valve positions

Mounting on one side



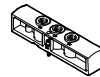
- Connection:  
width 20: G3/8  
width 25: G1/2
- Maximum 4 valve positions

## Blanking plate for unused valve position



For covering unused valve positions

## Supply plate



For additional air supply and exhaust via a valve position

## Separator for pressure zones



For creating pressure zones (maximum 9 pressure zones permitted)

## Note

A filter must be installed upstream of 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

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.

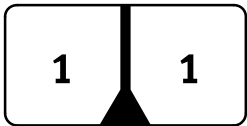
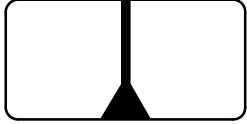
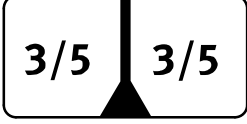
A pressure zone is created by isolating the internal ducts between the valve positions by means of an appropriate separator.

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)

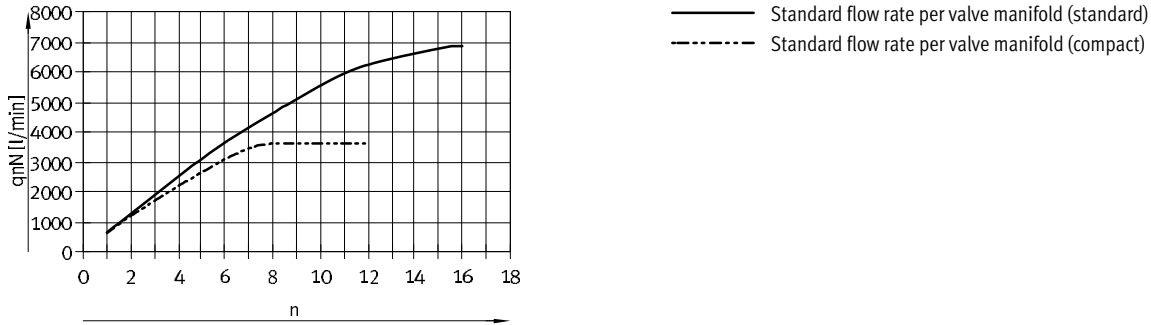
Duct separation	Description
	<p>The pressure zones can be freely configured with the VTUS. The following duct separations are possible:</p> <ul style="list-style-type: none"> <li>• Duct 1 closed</li> </ul>  <ul style="list-style-type: none"> <li>• Duct 1/3/5 closed</li> </ul>  <ul style="list-style-type: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

# Solenoid valves VUVS/valve manifold VTUS

Key features – Pneumatics

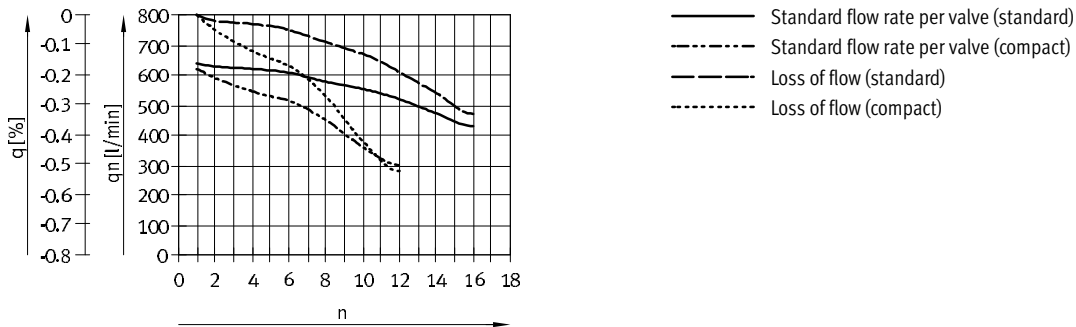
## Standard nominal flow rate $q_{nN}$ , with several valves $n$ switched simultaneously, width 20

For 3/2-way valves, valve manifold



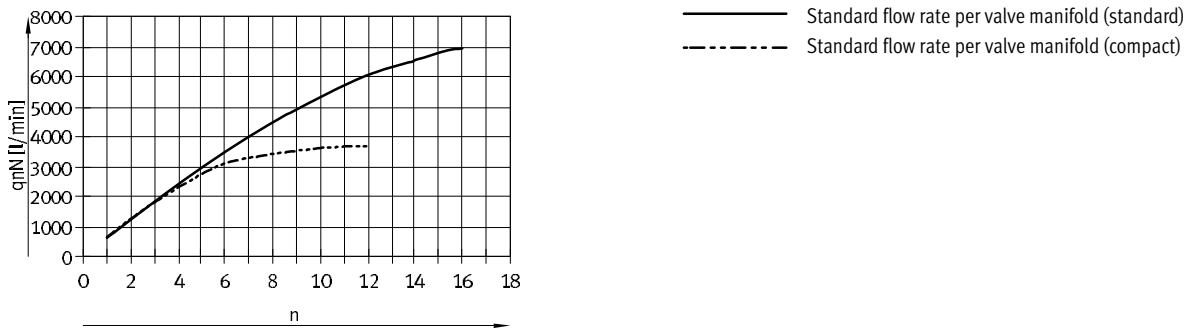
## Standard nominal flow rate $q_n$ , with several valves $n$ switched simultaneously, width 20

For 3/2-way valves, individual valve



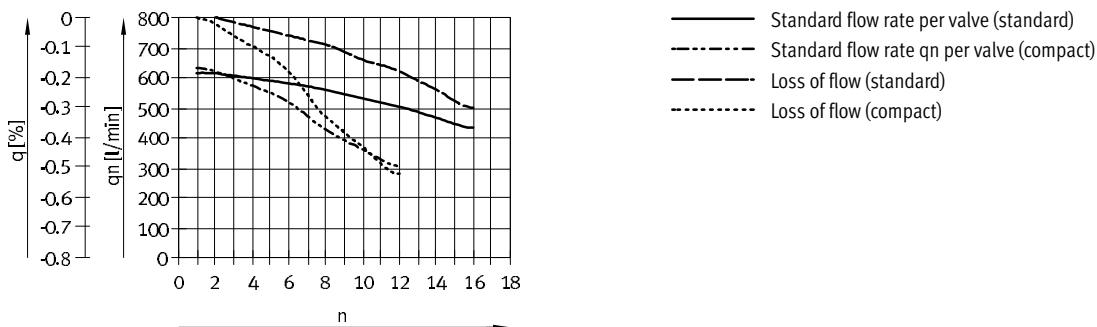
## Standard nominal flow rate $q_{nN}$ , with several valves $n$ switched simultaneously, width 20

For 5/2-way valves, valve manifold



## Standard nominal flow rate $q_n$ , with several valves $n$ switched simultaneously, width 20

For 5/2-way valves, individual valve

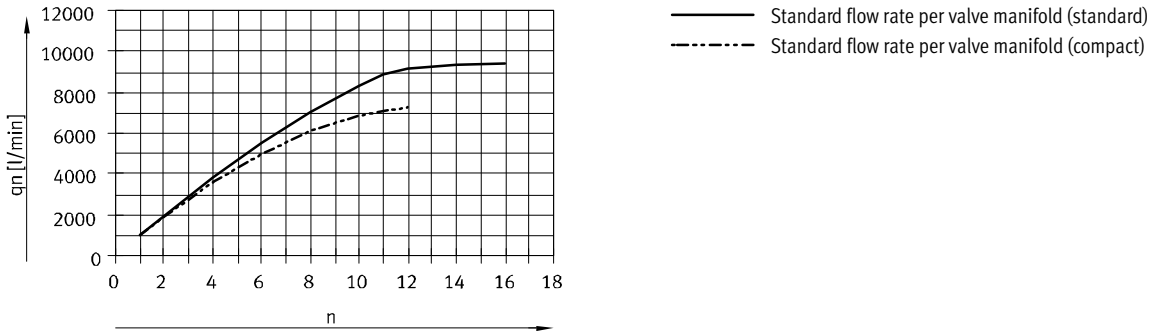


# Solenoid valves VUVS/valve manifold VTUS

Key features – Pneumatics

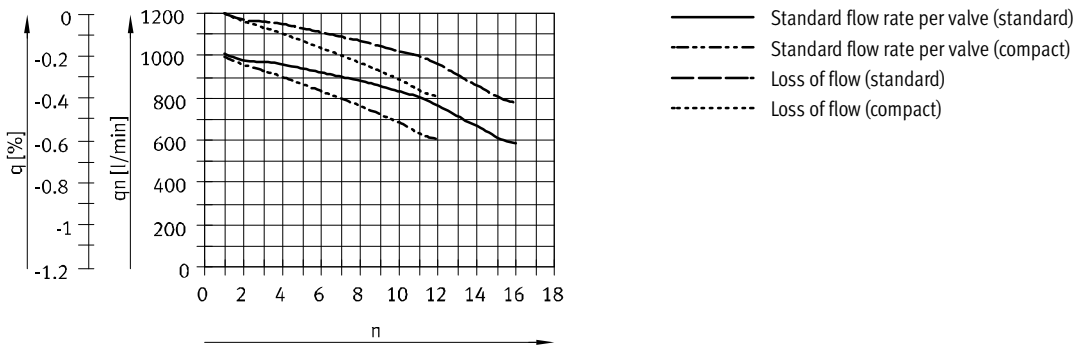
## Standard nominal flow rate $q_{nN}$ , with several valves $n$ switched simultaneously, width 25

For 3/2-way valves, valve manifold



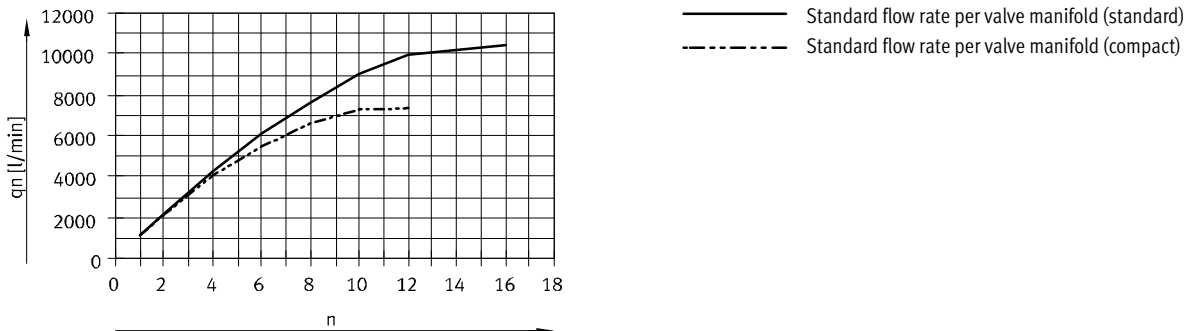
## Standard nominal flow rate $q_n$ , with several valves $n$ switched simultaneously, width 25

For 3/2-way valves, individual valve



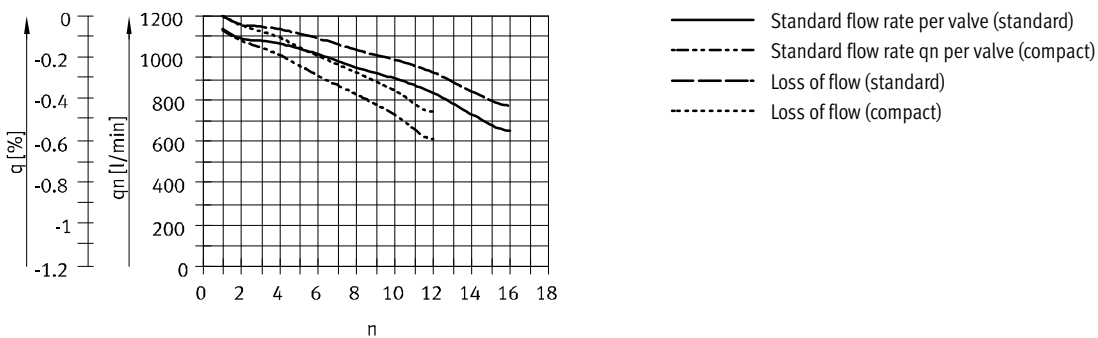
## Standard nominal flow rate $q_{nN}$ , with several valves $n$ switched simultaneously, width 25

For 5/2-way valves, valve manifold



## Standard nominal flow rate $q_n$ , with several valves $n$ switched simultaneously, width 25

For 5/2-way valves, individual valve




# Solenoid valves VUVS/valve manifold VTUS

Key features – Pneumatics

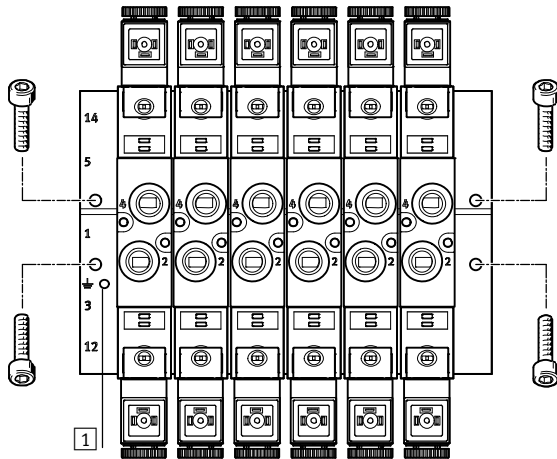
## Mounting valve manifold VTUS

Sturdy valve manifold owing to:

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

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

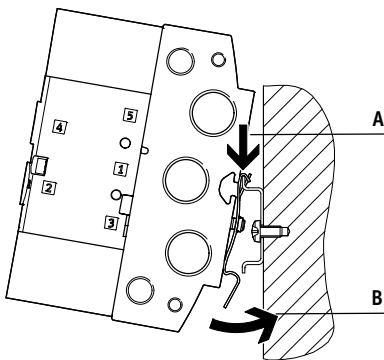
## Wall mounting



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


**1** Earth terminal

## H-rail mounting



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

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

 **Note**

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

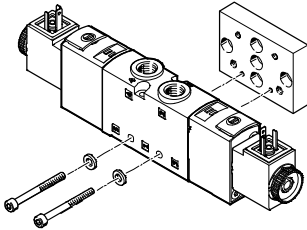


# Solenoid valves VUVS/valve manifold VTUS

Key features – Assembly

## Mounting individual valve VUVS

### Wall mounting

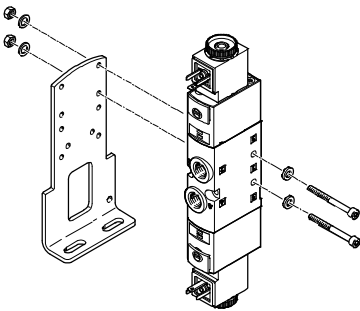


For mounting individual valves on a flat surface, e.g. aluminium profile systems.

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

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

### Mounting on a stand



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.

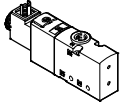
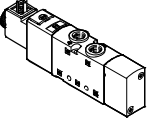
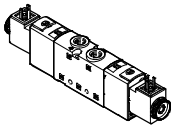
The relevant screw set is included when the foot mounting VAME-B10-...-A is ordered.

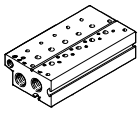

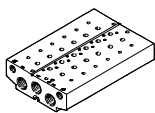

 **Note**

Further mounting options for foot mounting VAME-B10-...-A → p.62

# Solenoid valves VUVS

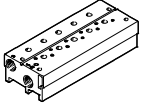
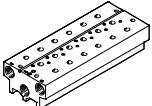
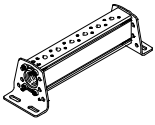
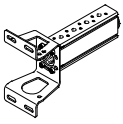
Product range overview

Valve	Width	Working port	Order code for valves and flow rate [l/min]							→ Page/ Internet
			M32C	M32U	M52	B52	P53C	P53U	P53E	
<b>3/2-way valve</b>										
	20	G1/8	■ 700	■ 700	-	-	-	-	-	32
	25	G1/4	■ 1000	■ 1000	-	-	-	-	-	42
<b>5/2-way valve</b>										
	20	G1/8	-	-	■ 700	■ 700	-	-	-	32
	25	G1/4	-	-	■ 1300	■ 1300	-	-	-	42
<b>5/3-way valve</b>										
	20	G1/8	-	-	-	-	■ 700	■ 600	■ 600	32
	25	G1/4	-	-	-	-	■ 1000	■ 1000	■ 1000	42

Design	Width	Description	→ Page/ Internet
<b>Manifold block for 3/2-way valves, standard</b>			
	20	VABM-B10-20EE-G38- ... P3	Connection G3/8
	25	VABM-B10-25EE-G12- ... P3	Connection G1/2
<b>Manifold block extension module for 3/2-way valves, standard</b>			
	20	VABM-B10-20EEE-G38- ... -P3	Connection G3/8
	25	VABM-B10-25EEE-G12- ... -P3	Connection G1/2
<b>Manifold block for 5/2- and 5/3-way valves, standard</b>			
	20	VABM-B10-20E-G38- ...	Connection G3/8
	25	VABM-B10-25E-G12- ...	Connection G1/2
<b>Manifold block extension module for 5/2- and 5/3-way valves, standard</b>			
	20	VABM-B10-20EEE-G38- ...	Connection G3/8
	25	VABM-B10-25EEE-G12- ...	Connection G1/2

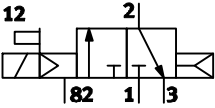
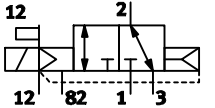
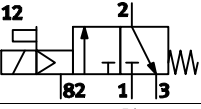
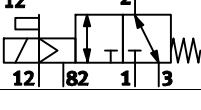
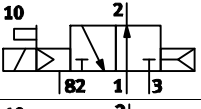
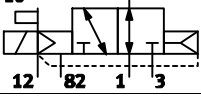
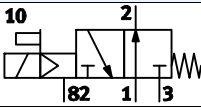
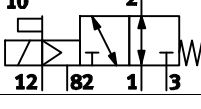
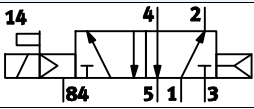
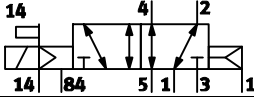
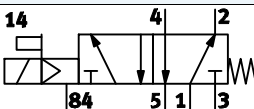
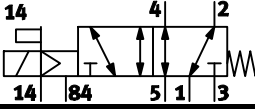
# Solenoid valves VUVS

Product range overview

Design	Width	Description	→ Page/ Internet
<b>Manifold block for 3/2-way valves, compact</b>			
	20	VABM-B10-20S-G14- ... P3	Connection G1/4 55
	25	VABM-B10-25S-G38- ... P3	Connection G3/8 68
<b>Manifold block for 5/2- and 5/3-way valves, compact</b>			
	20	VABM-B10-20S-G14- ...	Connection G1/4 55
	25	VABM-B10-25S-G38- ...	Connection G3/8 68
<b>Supply manifold, for mounting on both sides</b>			
	20	VABM-B10-20-G38- ... -P53	Connection G3/8 55
	25	VABM-B10-25-G12- ... -P53	Connection G1/2 68
<b>Supply manifold, for mounting on one side</b>			
	20	VABM-B10-20-G38- ... -P53-E	Connection G3/8 55
	25	VABM-B10-25-G12- ... -P53-E	Connection G1/2 68

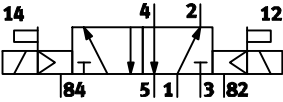
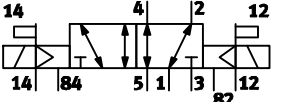
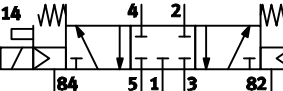
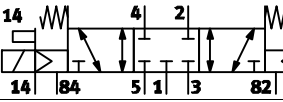
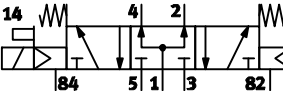
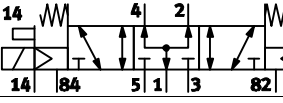
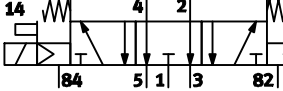
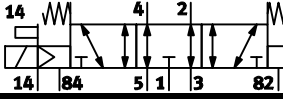
# Solenoid valves VUVS

Overview of valve functions

Valve	Order code for valves	Description	Width	
			20	25
<b>3/2-way valve, normally closed, pneumatic spring</b>				
	M32C	Internal pilot air supply, not reversible	■	■
		External pilot air supply, reversible	■	■
<b>3/2-way valve, normally closed, mechanical spring</b>				
	M32C	Internal pilot air supply, not reversible	■	■
		External pilot air supply, reversible	■	■
<b>3/2-way valve, normally open, pneumatic spring</b>				
	M32U	Internal pilot air supply, not reversible	■	■
		External pilot air supply, reversible	■	■
<b>3/2-way valve, normally open, mechanical spring</b>				
	M32U	Internal pilot air supply, not reversible	■	■
		External pilot air supply, reversible	■	■
<b>5/2-way valve, single solenoid, pneumatic spring</b>				
	M52	Internal pilot air supply, not reversible	■	■
		External pilot air supply, reversible	■	■
<b>5/2-way valve, single solenoid, mechanical spring</b>				
	M52	Internal pilot air supply, not reversible	■	■
		External pilot air supply, reversible	■	■

# Solenoid valves VUVS

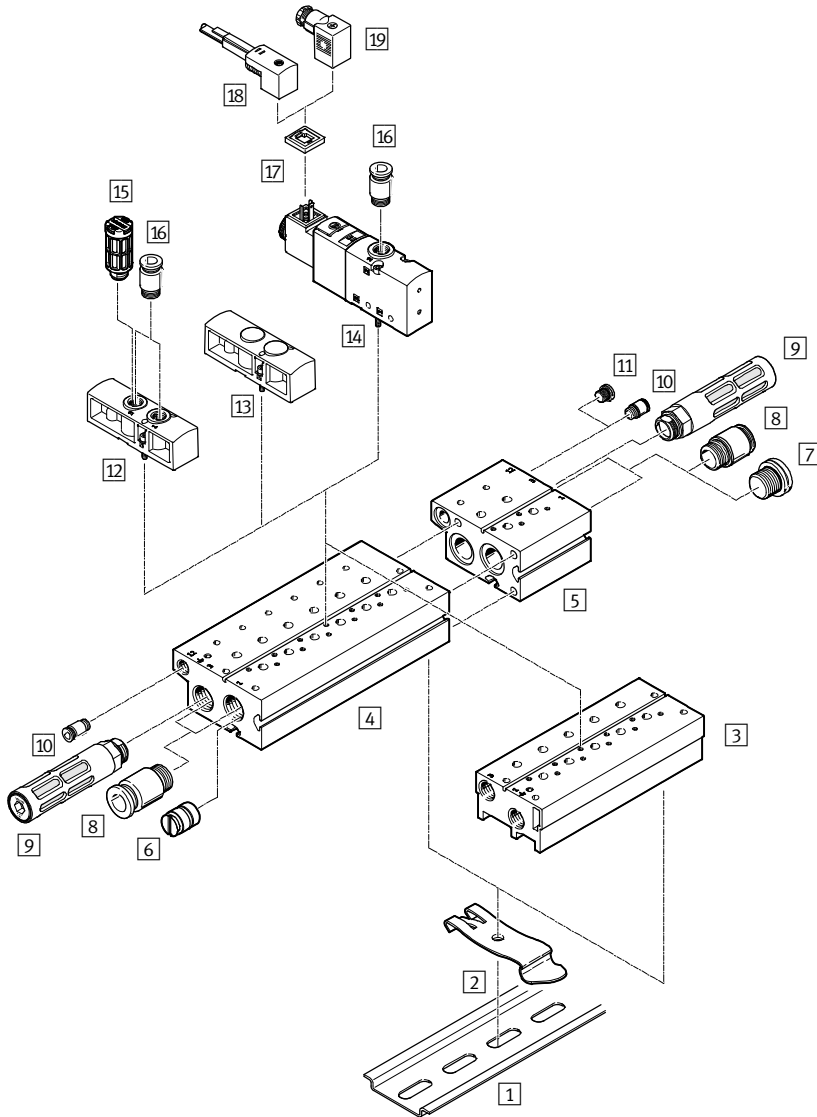
Overview of valve functions

Valve	Order code for valves	Description	Width	
			20	25
<b>5/2-way valve, double solenoid</b>				
	B52	Internal pilot air supply, not reversible	■	■
		External pilot air supply, reversible	■	■
<b>5/3-way valve, mechanical spring, closed</b>				
	P53C	Internal pilot air supply, not reversible	■	■
		External pilot air supply, reversible	■	■
<b>5/3-way valve, mechanical spring, pressurised</b>				
	P53U	Internal pilot air supply, not reversible	■	■
		External pilot air supply, reversible	■	■
<b>5/3-way valve, mechanical spring, exhausted</b>				
	P53E	Internal pilot air supply, not reversible	■	■
		External pilot air supply, reversible	■	■

# Solenoid valves VUVS/valve manifold VTUS

Peripherals overview

## Manifold block for 3/2-way valves



Name	Brief description	→ Page/Internet
1 H-rail	–	–
2 H-rail mounting	For H-rail mounting	67/80
3 Compact manifold block	For 3/2-way valves, no port for external pilot air supply	63/76
4 Standard manifold block	For 3/2-way valves, with port 10/12 for external pilot air supply	63/76
5 Extension module	For standard manifold block, with port 10/12 for external pilot air supply	63/76
6 Separator	For creating pressure zones in ports 1 and 3	67/80
7 Blanking plug	For ports 1 and 3, supply and exhaust ports	67/80
8 Push-in fitting	For ports 1 and 3, supply and exhaust ports	66/79
9 Silencer	For port 3, exhaust	67/80
10 Push-in fitting	For port 10/12, external pilot air supply, for standard manifold block only	66/79
11 Blanking plug	For port 10/12, external pilot air supply, for standard manifold block only	67/80
12 Supply plate	For additional air supply and exhaust via a valve position	65/78
13 Blanking plate	For covering unused valve positions	65/78
14 Solenoid valve	3/2-way valve, with solenoid coil	37/48

## Solenoid valves VUVS/valve manifold VTUS

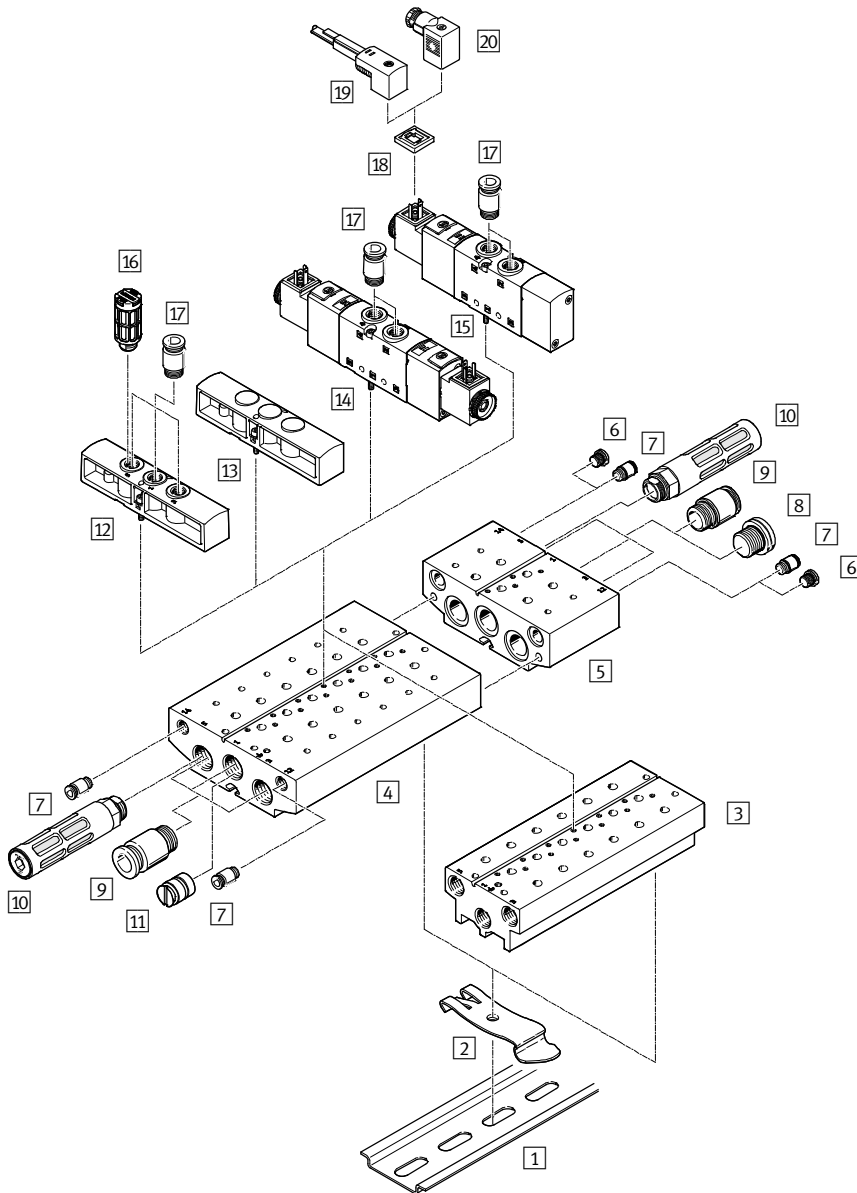
Peripherals overview

Name	Brief description	→ Page/Internet
15 Silencer	For port 3, exhaust	67/80
16 Push-in fitting	For ports 1 and 3, supply and exhaust ports with supply plate, For port 2, working port, on the valve	66/79
17 Illuminating seal	For indicating the switching status	40/52
18 Plug socket with cable	For solenoid valves VUVS	40/52
19 Plug socket	For solenoid valves VUVS	40/52

# Solenoid valves VUVS/valve manifold VTUS

Peripherals overview

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



Name	Brief description	→ Page/Internet
1 H-rail	–	–
2 H-rail mounting	For H-rail mounting	67/80
3 Compact manifold block	For 5/2- and 5/3-way valves, no port for external pilot air supply	63/76
4 Standard manifold block	For 5/2- and 5/3-way valves, with ports 12 and 14 for external pilot air supply	63/76
5 Extension module	For standard manifold block, with ports 12 and 14 for external pilot air supply	63/76
6 Blanking plug	For ports 12 and 14, external pilot air supply, for standard manifold block only	67/80
7 Push-in fitting	For ports 12 and 14, external pilot air supply, for standard manifold block only	66/79
8 Blanking plug	For ports 1, 3 and 5, supply and exhaust ports	67/80
9 Push-in fitting	For ports 1, 3 and 5, supply and exhaust ports	66/79
10 Silencer	For ports 3 and 5, exhaust	67/80
11 Separator	For creating pressure zones in ports 1, 3 and 5	67/80
12 Supply plate	For additional air supply and exhaust via a valve position	65/78



## Solenoid valves VUVS/valve manifold VTUS

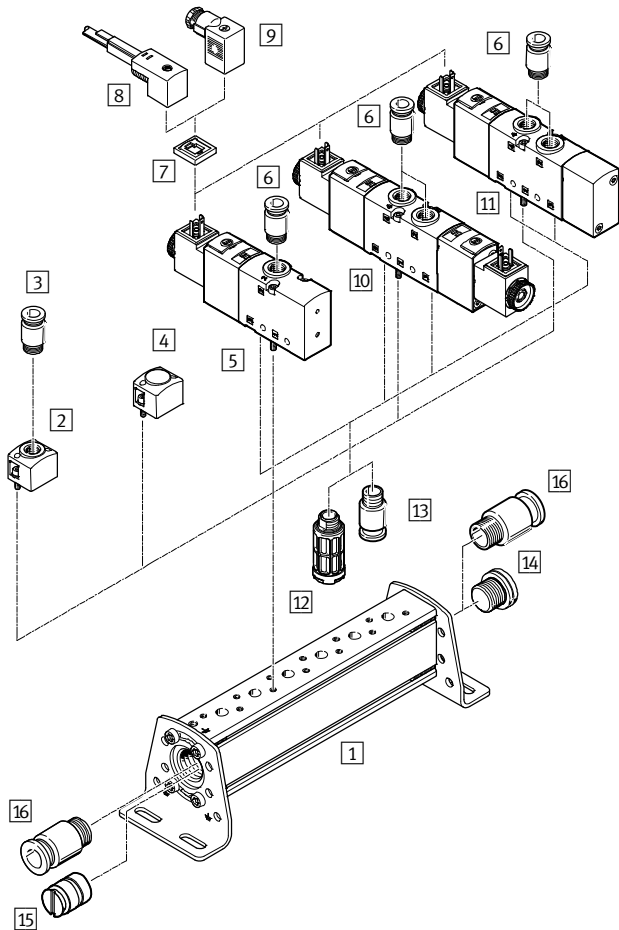
Peripherals overview

Name	Brief description	→ Page/Internet
13 Blanking plate	For covering unused valve positions	65/78
14 Solenoid valve	5/3-way valve and 5/2-way valve, double solenoid, with solenoid coil	38, 39/50, 51
15 Solenoid valve	5/2-way valve, single solenoid, with solenoid coil	38/50
16 Silencer	For ports 3 and 5, exhaust	67/80
17 Push-in fitting	For ports 1, 3 and 5, supply and exhaust ports with supply plate For ports 2 and 4, working port, on the valve	40/53
18 Illuminating seal	For indicating the switching status	40/52
19 Plug socket with cable	For solenoid valves VUVS	40/52
20 Plug socket	For solenoid valves VUVS	40/52

# Solenoid valves VUVS/valve manifold VTUS

Peripherals overview

## Supply manifold for mounting on both sides

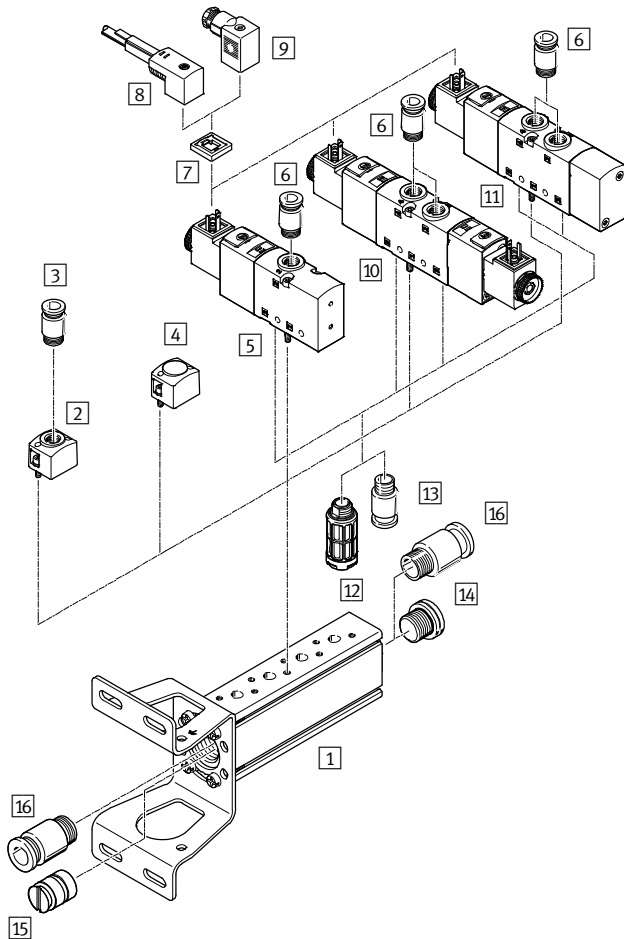


Name	Brief description	→ Page/Internet
1 Supply manifold	–	64/77
2 Supply plate	For additional air supply via a valve position	65/78
3 Push-in fitting	For port 1	40/53
4 Blanking plate	For covering unused valve positions	65/78
5 Solenoid valve	3/2-way valve, with solenoid coil	37/47
6 Push-in fitting	For ports 2, 4, working port	40/53
7 Illuminating seal	For indicating the switching status	40/52
8 Plug socket with cable	For solenoid valves VUVS	40/52
9 Plug socket	For solenoid valves VUVS	40/52
10 Solenoid valve	5/3-way valve and 5/2-way valve, double solenoid, with solenoid coil	38, 39/50, 51
11 Solenoid valve	5/2-way valve, single solenoid, with solenoid coil	38/50
12 Silencer	For ports 3 and 5, exhaust, on the valve	67/80
13 Push-in fitting	For ports 3 and 5, exhaust, on the valve	40/53
14 Blanking plug	For port 1, supply port	67/80
15 Separator	For creating pressure zones	67/80
16 Push-in fitting	For port 1, supply port	66/79

# Solenoid valves VUVS/valve manifold VTUS

Peripherals overview


## Supply manifold for mounting on one side




Name	Brief description	→ Page/Internet
1 Supply manifold	–	64/77
2 Supply plate	For additional air supply via a valve position	65/78
3 Push-in fitting	For port 1, supply port	66/79
4 Blanking plate	For covering unused valve positions	65/78
5 Solenoid valve	3/2-way valve, with solenoid coil	37/47
6 Push-in fitting	For ports 2 and 4, working port	40/53
7 Illuminating seal	For indicating the switching status	40/52
8 Plug socket with cable	For solenoid valves VUVS	40/52
9 Plug socket	For solenoid valves VUVS	40/52
10 Solenoid valve	5/3-way valve and 5/2-way valve, double solenoid, with solenoid coil	38, 39/50, 51
11 Solenoid valve	5/2-way valve, single solenoid, with solenoid coil	38/50
12 Silencer	For ports 3 and 5, exhaust, on the valve	67/80
13 Push-in fitting	For ports 3 and 5, on the valve	40/53
14 Blanking plug	For port 1, supply port	67/80
15 Separator	For creating pressure zones	67/80
16 Push-in fitting	For port 1, supply port	40/79

## Valve manifold VTUS

Technical data – Valve manifold

-  - Flow rate  
Width 20:  
up to 700 l/min  
Width 25:  
up to 1300 l/min

-  - Valve width  
Width 20: 21 mm  
Width 25: 26.5 mm



General technical data		
Valve manifold configuration		Fixed grid
Valve width		
Width 20	[mm]	21
Width 25	[mm]	26.5
Valve design		Piston spool valve
Electrical control		Individual connection
Reset method for valves		Pneumatic or mechanical spring
Pilot air supply		Internal or external
Direction of flow		Reversible with restrictions
Suitability for vacuum		Yes
Sealing principle		Soft
Max. number of valve positions		16 (a maximum of 18 valve positions with extension for standard manifold block)
Max. number of pressure zones		9
Exhaust air function		With flow control
Actuation type		Electrical
Nominal operating voltage	[V DC]	12, 24
	[V AC]	24, 110, 120, 230, 240
Standard nominal flow rate		
Width 20	[qnN]	600 ... 700
Width 25	[qnN]	1000 ... 1300
Pilot air port	12/14	M5
Pilot exhaust air port	82/84	M5
Mounting position		Any
Degree of protection		IP65 with plug socket, IP67 To IEC 60529
Permissible voltage fluctuations		± 10%
CRC <sup>1)</sup>		2 <sup>1)</sup>
Note on materials		RoHS-compliant
Information on materials for seals		HNBR, NBR

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

## Valve manifold VTUS

Technical data – Valve manifold

Operating and environmental conditions	
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]	-0.9 ... +10
Pilot pressure [bar]	1.5 ... 10
Ambient temperature [°C]	-10 ... +50
Temperature of medium [°C]	-10 ... +50
Storage temperature [°C]	-20 ... +60

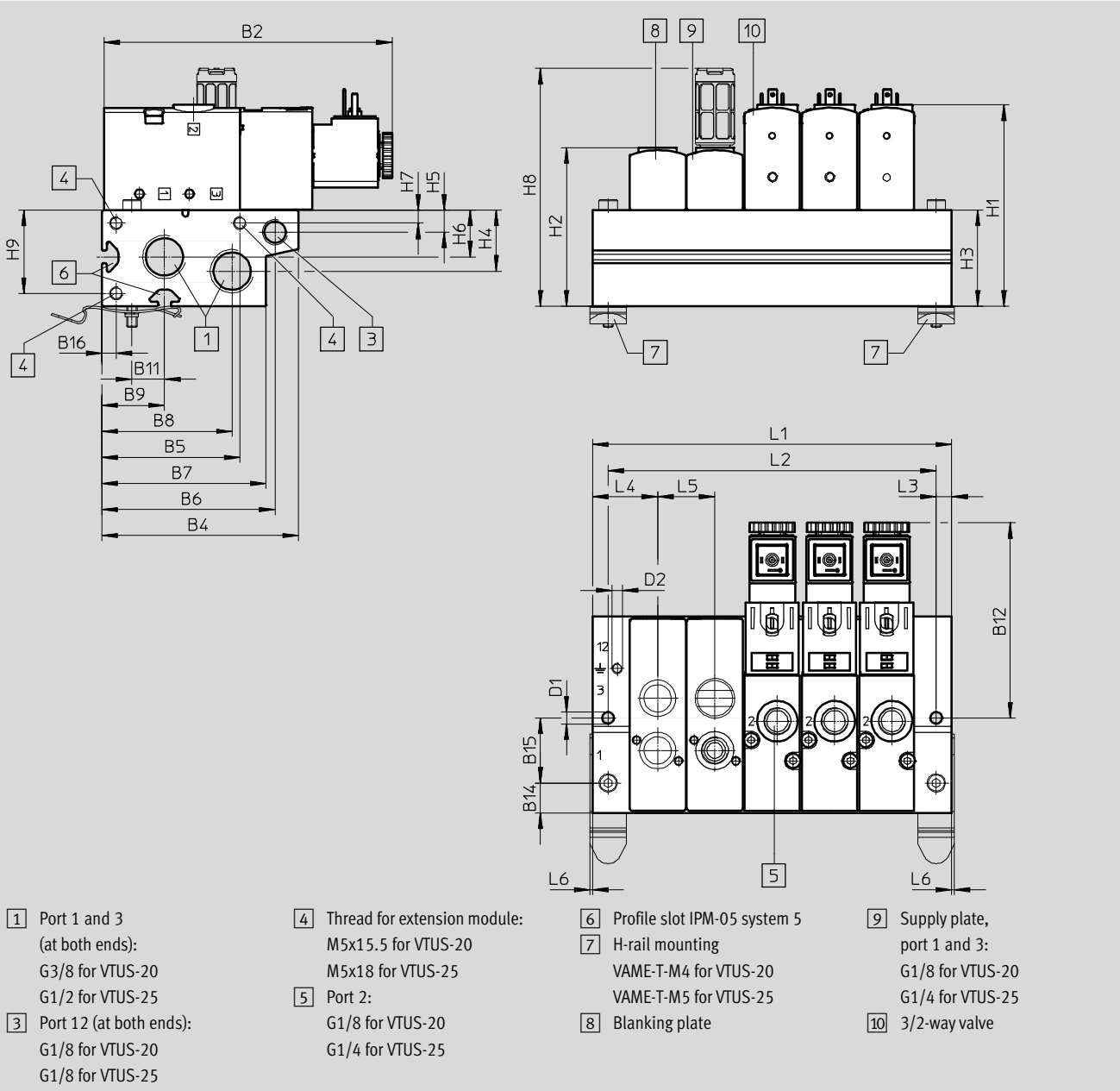
# Valve manifold VTUS

Technical data – Valve manifold

## Dimensions – Valve manifold

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

With 3/2-way valves, standard manifold block



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

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

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

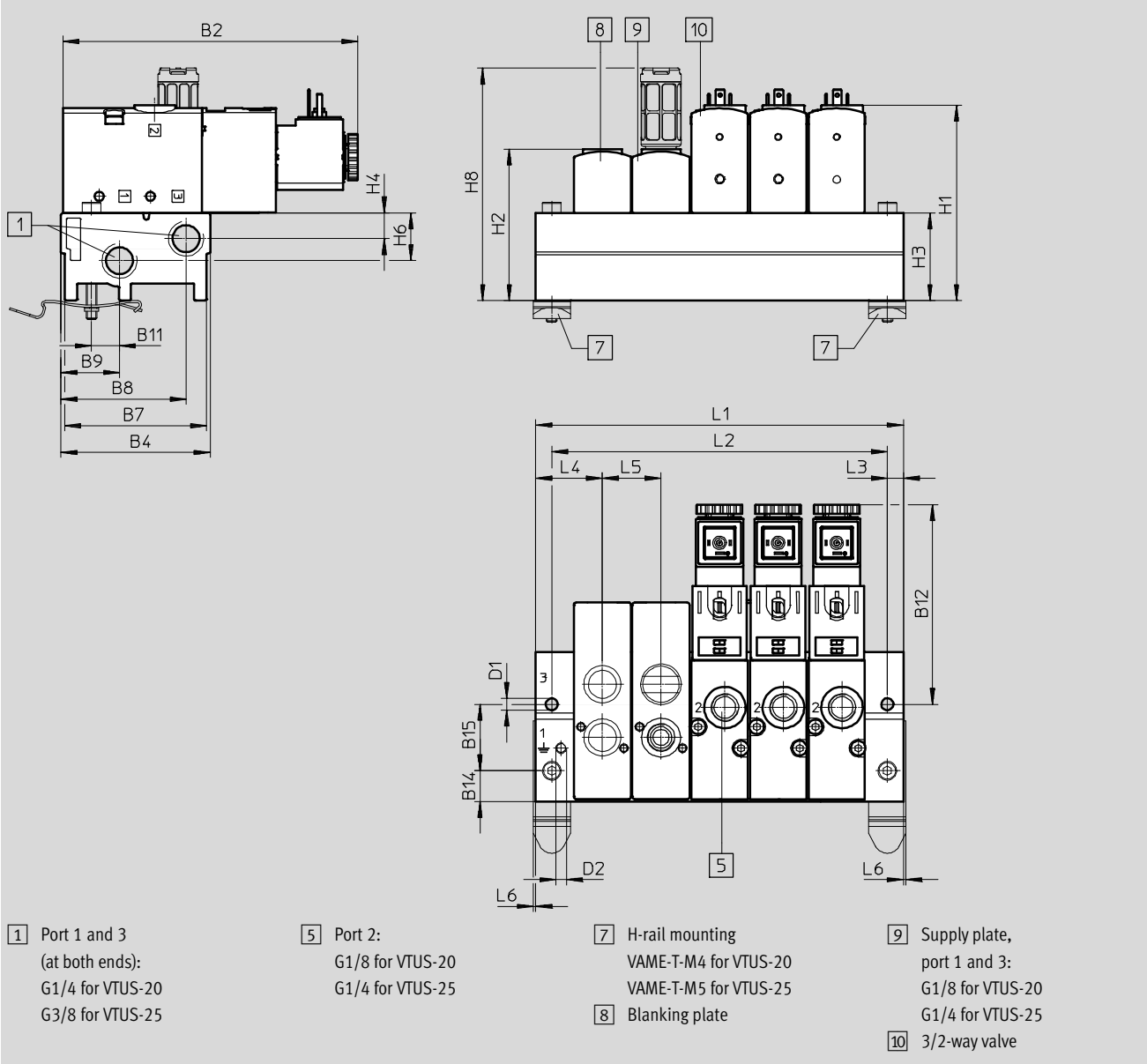
# Valve manifold VTUS

Technical data – Valve manifold

## Dimensions – Valve manifold

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

With 3/2-way valves, compact manifold block



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

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

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

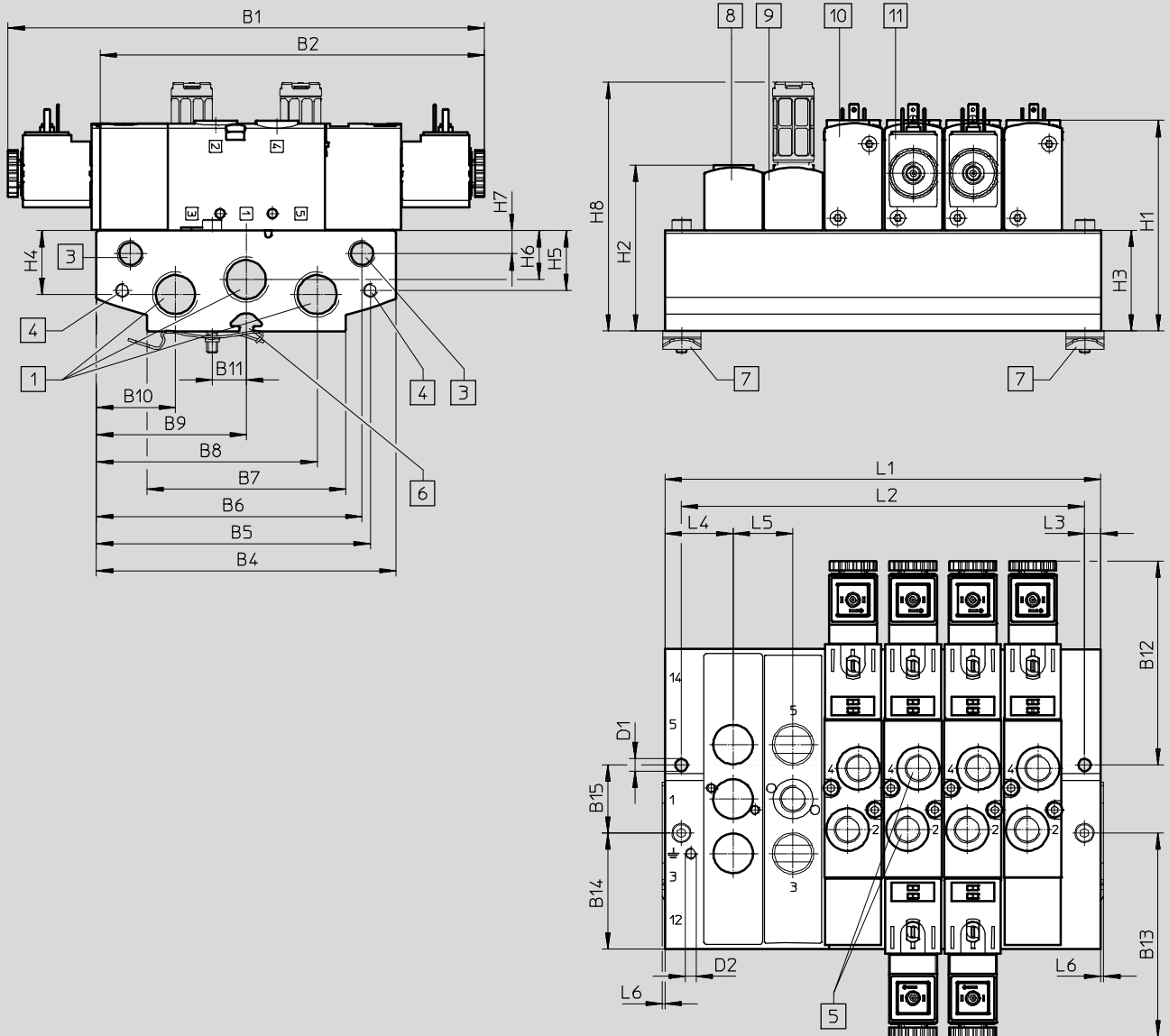
# Valve manifold VTUS

Technical data – Valve manifold

## Dimensions – Valve manifold

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

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



- |  |   |   |   |
|--|---|---|---|
| <p><b>1</b> Port 1, 3 and 5<br/>(at both ends):<br/>G3/8 for VTUS-20<br/>G1/2 for VTUS-25</p> <p><b>3</b> Port 12 and 14<br/>(at both ends):<br/>G1/8 for VTUS-20<br/>G1/8 for VTUS-25</p> | <p><b>4</b> Thread for extension module:<br/>M5x15.5 for VTUS-20<br/>M5-18 for VTUS-25</p> <p><b>5</b> Port 2 and 4:<br/>G1/8 for VTUS-20<br/>G1/4 for VTUS-25</p> <p><b>6</b> Profile slot IPM-05 system 5</p> | <p><b>7</b> H-rail mounting<br/>VAME-T-M4 for VTUS-20<br/>VAME-T-M5 for VTUS-25</p> <p><b>8</b> Blanking plate</p> <p><b>9</b> Supply plate,<br/>port 1, 3 and 5:<br/>G1/8 for VTUS-20<br/>G1/4 for VTUS-25</p> | <p><b>10</b> 5/2-way valve, single solenoid</p> <p><b>11</b> 5/2-way valve, double solenoid, or 5/3-way valve</p> |
|--|---|---|---|

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

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



## Valve manifold VTUS

Technical data – Valve manifold

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

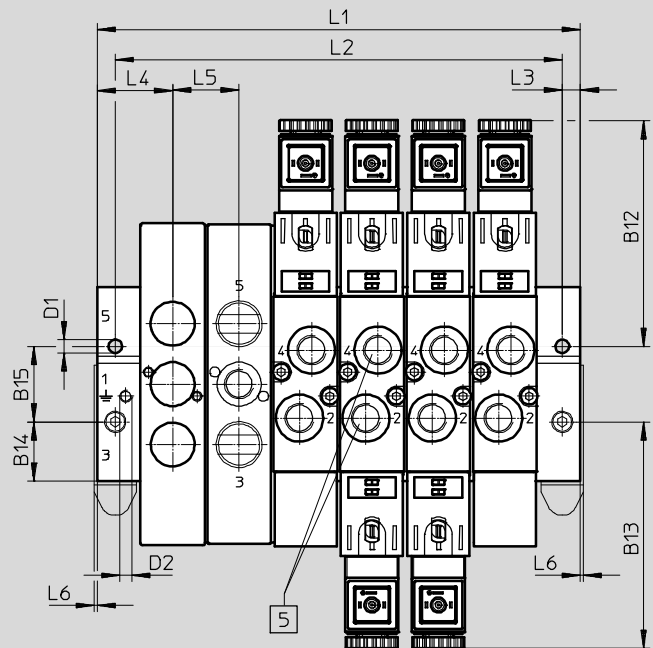
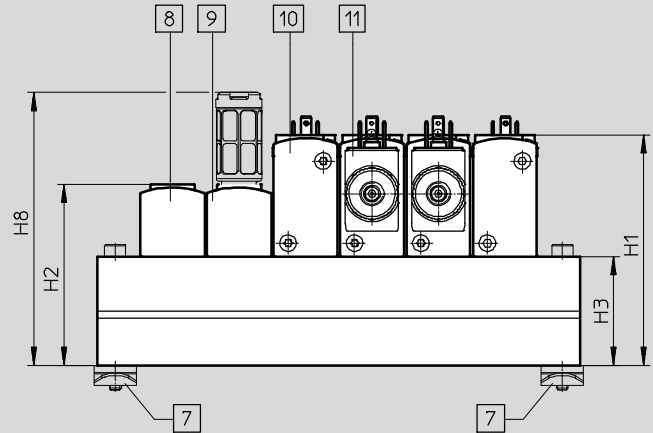
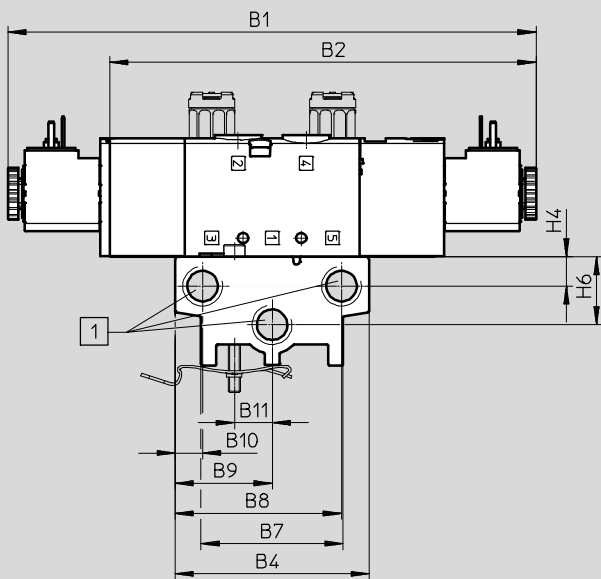
# Valve manifold VTUS

Technical data – Valve manifold

## Dimensions – Valve manifold

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

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



- 1** Port 1, 3 and 5:  
G1/4 for VTUS-20  
G3/8 for VTUS-25
- 5** Port 2 and 4:  
G1/8 for VTUS-20  
G1/4 for VTUS-25
- 7** H-rail mounting  
VAME-T-M4 for VTUS-20  
VAME-T-M5 for VTUS-25
- 8** Blanking plate
- 9** Supply plate,  
port 1, 3 and 5:  
G1/8 for VTUS-20  
G1/4 for VTUS-25
- 10** 5/2-way valve, single solenoid
- 11** 5/2-way valve, double solenoid, or 5/3-way valve

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

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	112.1	6	29.8	27.5	1

## Valve manifold VTUS

Technical data – Valve manifold

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

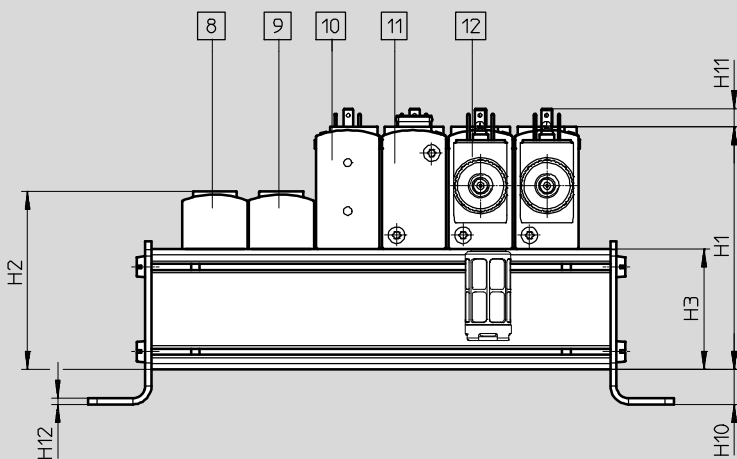
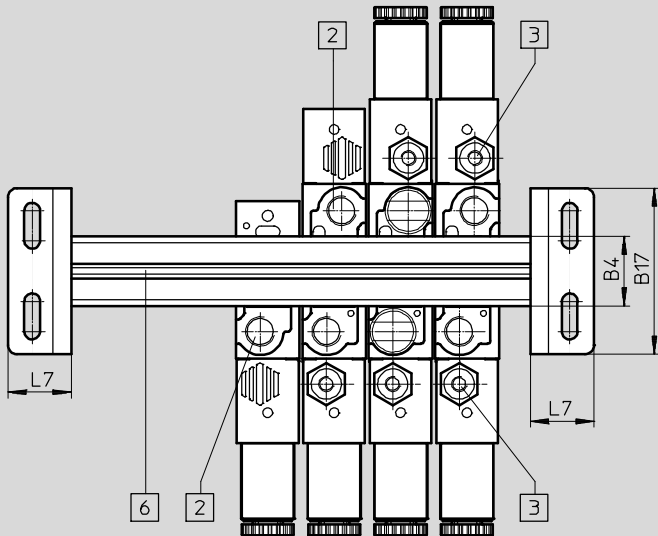
# Valve manifold VTUS

Technical data – Valve manifold

## Dimensions – Supply manifold

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

Mounting on both sides



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

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

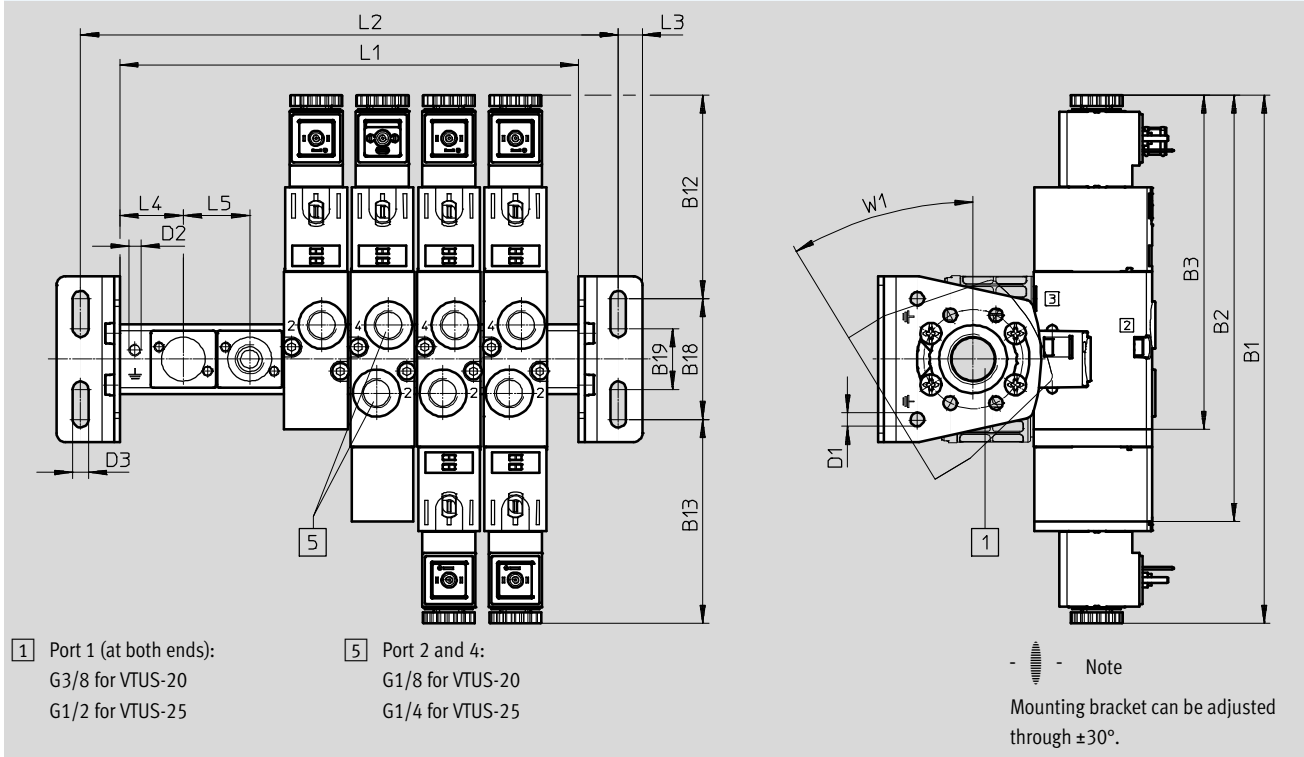
# Valve manifold VTUS

Technical data – Valve manifold

## Dimensions – Supply manifold

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

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°

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

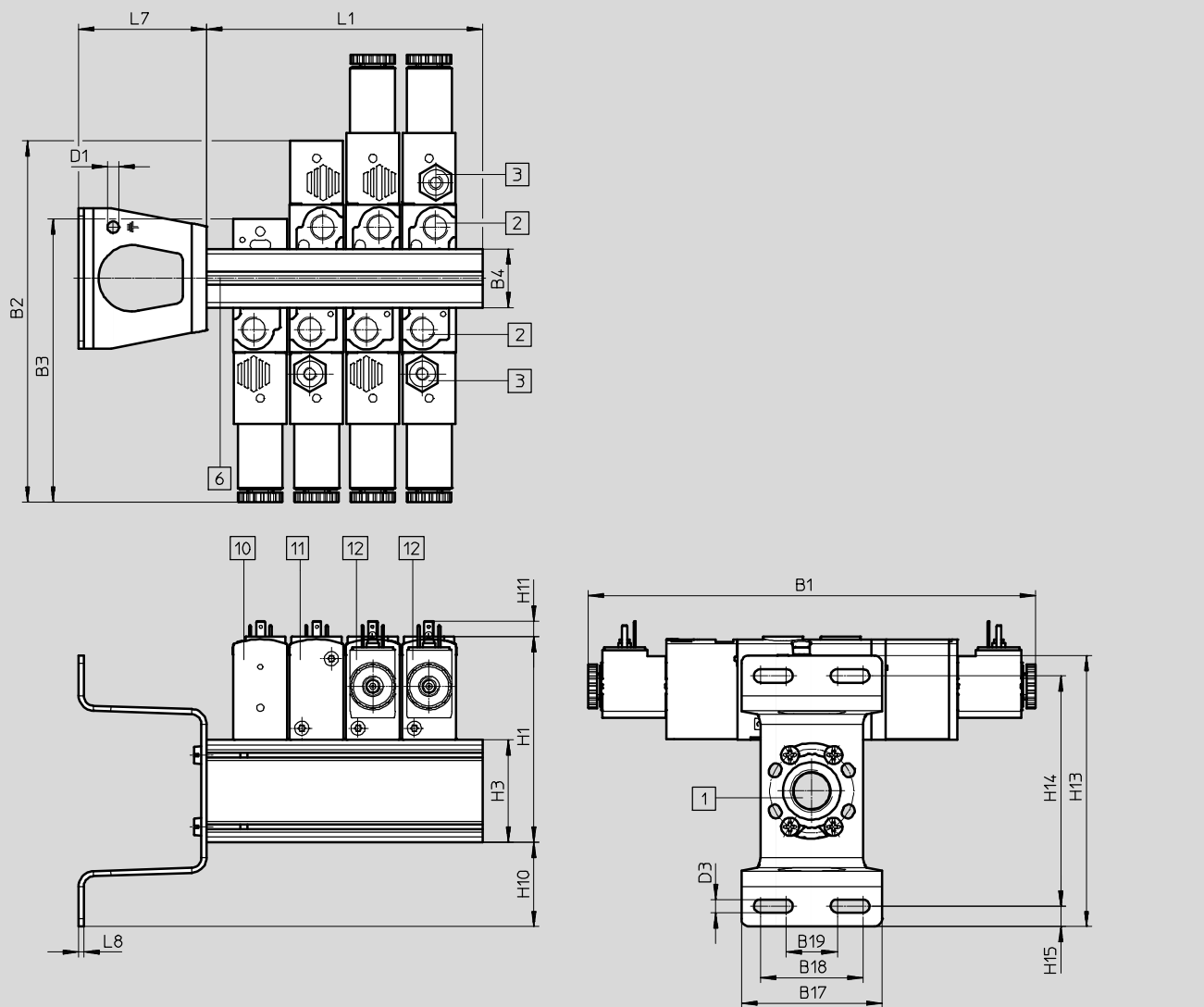
# Valve manifold VTUS

Technical data – Valve manifold

## Dimensions – Supply manifold

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

Mounting on one side



**1** Port 1 (at both ends):  
G3/8 for VTUS-20  
G1/2 for VTUS-25

**2** Port 3 and 5:  
G1/8 for VTUS-20  
G1/4 for VTUS-25

**3** Port 4

**6** Profile slot IPM-05 system 5

**10** 3/2-way valve

**11** 5/2-way valve, single-solenoid

Note  
Mounting bracket can be adjusted through ±30°.

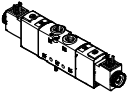
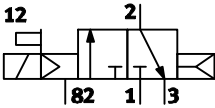
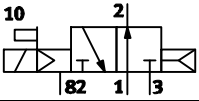
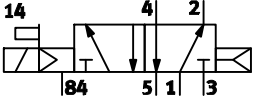
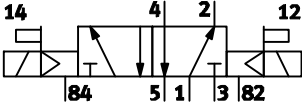
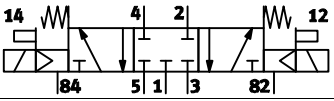
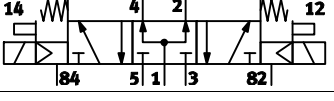
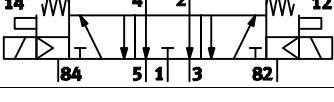
Type	B1	B2	B4	B17	B18	B19
VTUS-20	174.9	110.7	23	55	40	20
VTUS-25	200.3	129.2	28.7	80	60	35

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

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

# Solenoid valves VUVS




Order code – Solenoid valves

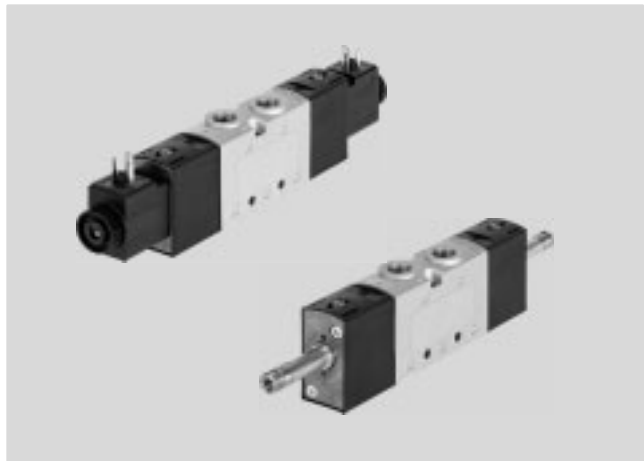
<b>VUVS</b>	-	<b>L</b>				
<b>Valve design</b>						
		<b>L</b>				
<b>Width</b>						
21 mm			<b>20</b>			
26.5 mm			<b>25</b>			
<b>Valve functions</b>						
					<b>M32C</b>	
					<b>M32U</b>	
					<b>M52</b>	
					<b>B52</b>	
					<b>P53C</b>	
					<b>P53U</b>	
					<b>P53E</b>	
<b>Type of reset</b>						
Pneumatic spring for M52 and M32					<b>A</b>	
Mechanical spring for M52 and M32					<b>M</b>	
For B52 and P53					-	
<b>Pilot air supply</b>						
Internal					-	
External					<b>Z</b>	

<b>Degree of protection for electrics</b>						
						- Standard
						<b>S8</b> IP67
<b>Electrical connection</b>						
						- None
						<b>C1</b> Port pattern type C, to EN 175 301
						<b>B2</b> Port pattern type B, Industry standard
<b>Nominal operating voltage</b>						
						- None
						<b>1</b> 24 V DC
						<b>1 A</b> 24 V AC
						<b>3W</b> 230/240 V AC
						<b>5</b> 12 V DC
						<b>16B</b> 110/120 V AC
<b>Valve pilot control interface</b>						
						<b>F7</b> With 8 mm armature tube, short
						<b>F8</b> With 8 mm armature tube, standard
<b>Exhaust</b>						
						- Without fitting
						<b>QN</b> With fitting
						<b>U1</b> Silencer with metal housing
						<b>U3</b> Silencer with polymer housing
<b>Pneumatic connection</b>						
						<b>G18</b> G1/8
						<b>G14</b> G1/4
						<b>Q4</b> Push-in connector 4 mm
						<b>Q6</b> Push-in connector 6 mm
						<b>Q8</b> Push-in connector 8 mm
						<b>Q10</b> Push-in connector 10 mm
<b>Manual override</b>						
						<b>D</b> Non-detenting, detenting without accessories
						<b>S</b> Covered
						<b>H</b> Non-detenting

## Solenoid valves VUVS

Technical data – Solenoid valves, width 20

-  Flow rate  
Up to 700 l/min
  
-  Valve width  
21 mm
  
-  Voltage  
12, 24 V DC  
24, 110, 120, 230, 240 V AC



General technical data							
Valve function	3/2		5/2		5/3		
Order code for valves	M32C	M32U	M52	B52	P53C	P53U	P53E
Valve width [mm]	21						
Design	Piston spool valve						
Direction of flow	Reversible with external pilot air supply						
Pilot air supply	Internal or external						
Type of pilot control	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 <sub>n</sub> N]	700		700	700	700	600	
Actuation type	Electric						
Mounting position	Any						
Exhaust air function	With flow control						
Pneumatic connection 1, 2, 4, 3, 5	G $\frac{1}{8}$						
Auxiliary pilot air port 12/14	M5						
Pilot exhaust air port 82/84	M5						
CRC <sup>1)</sup>	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.

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



## Solenoid valves VUVS

Technical data – Solenoid valves, width 20

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

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

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

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

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

# Solenoid valves VUVS

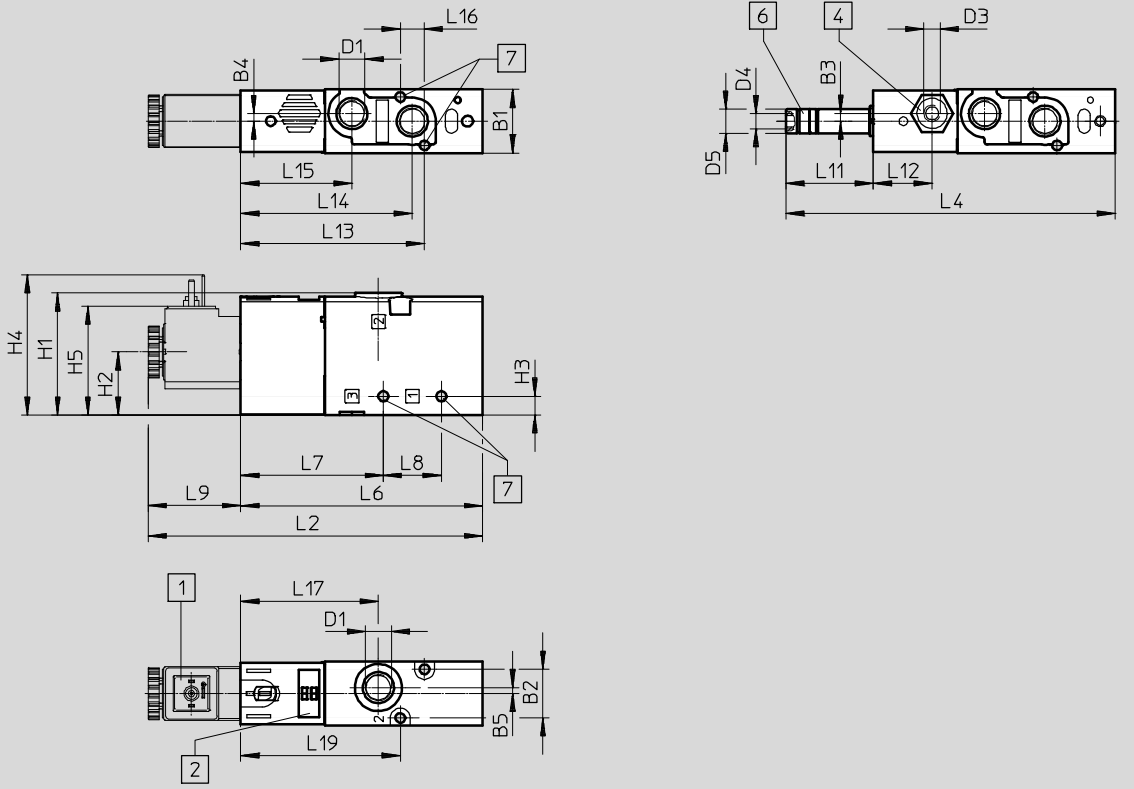
Technical data – Solenoid valves, width 20

**Dimensions**

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

3/2-way valves, with solenoid coil

3/2-way valves, without solenoid coil



- 1 Solenoid coil interface 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 M3

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

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

# Solenoid valves VUVS

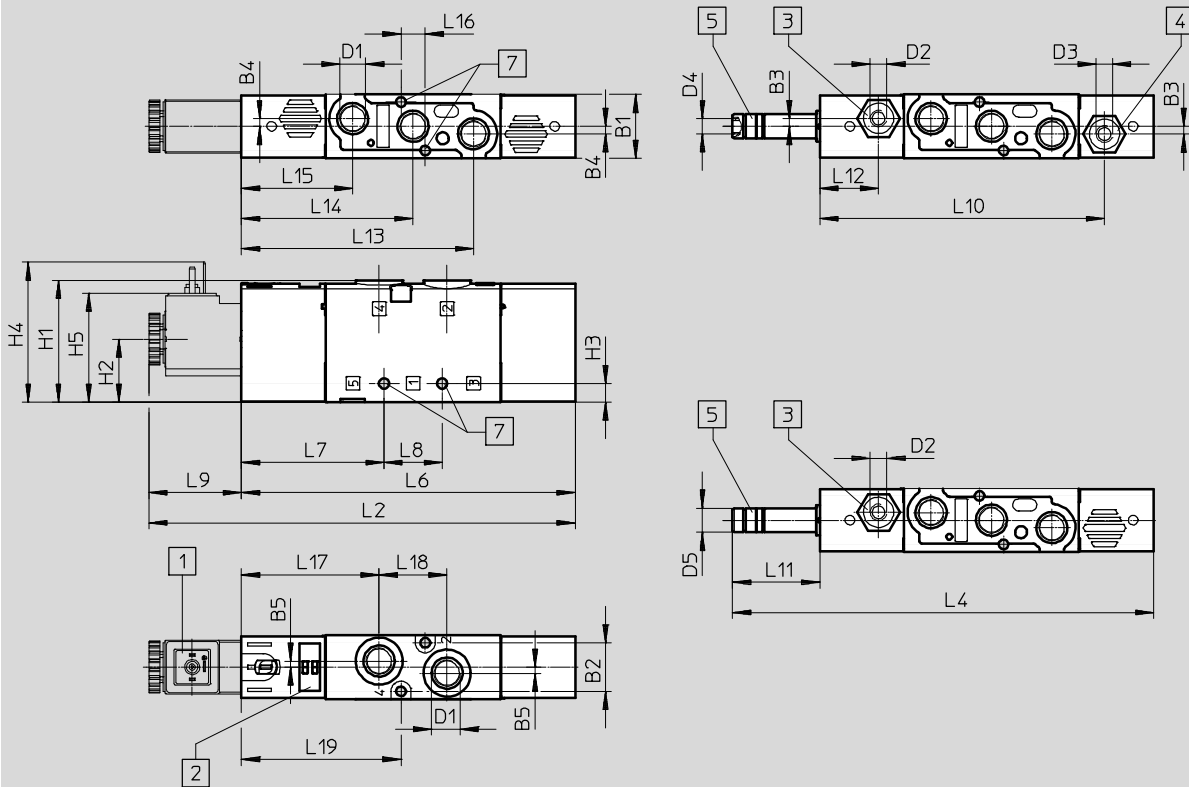
Technical data – Solenoid valves, width 20

## Dimensions

Download CAD data → [www.festo.com](http://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-G18-...	21.1	16.1	–	2.5	2	G1/8	–	–	M5	8	40.4	20.9	6.2	46.7	36.4
VUVS-L20-M52-...ZD-G18-...			2.6			G1/8	M5	M5	M5						

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

# Solenoid valves VUVS

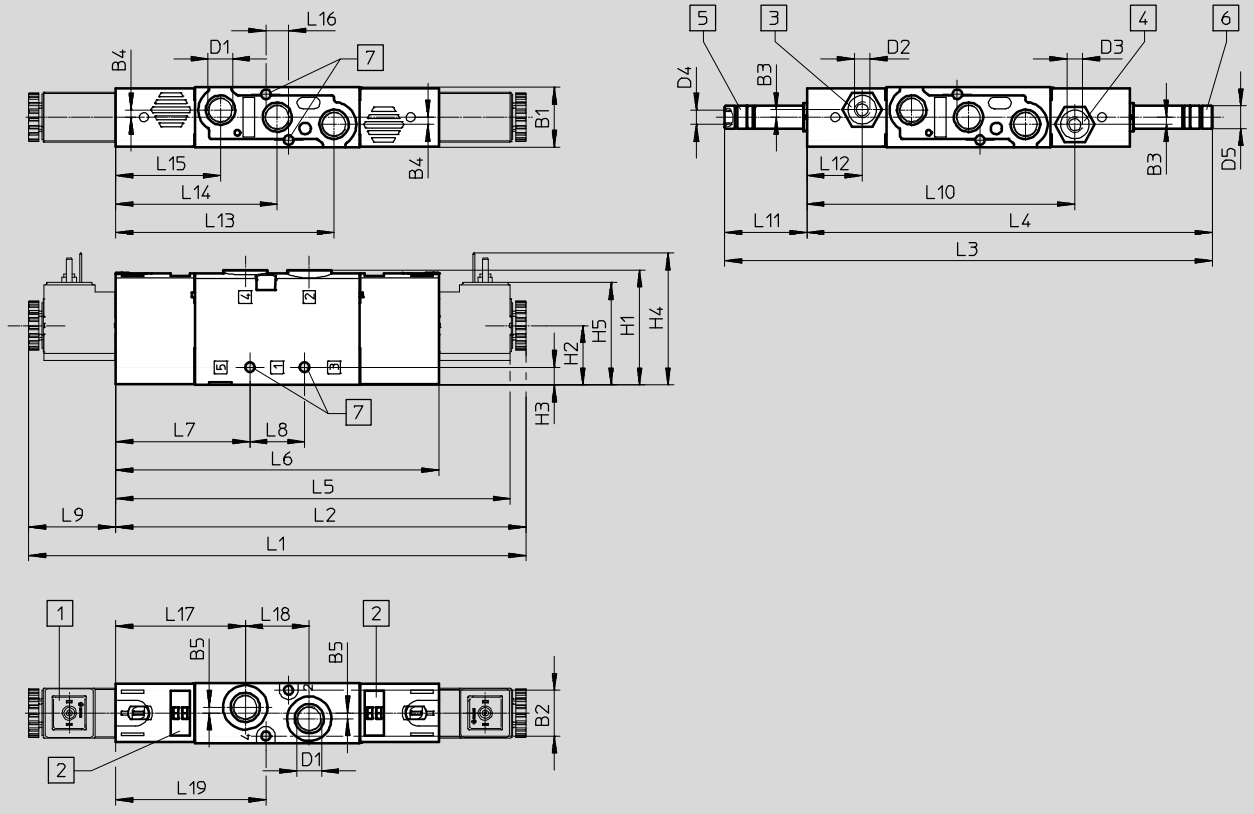
Technical data – Solenoid valves, width 20

**Dimensions**

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

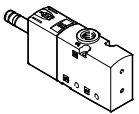
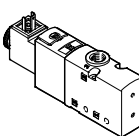
Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L20-P53-MD-G18-...	21.1	16.1	–	2.5	2	G1/8	–	–	M5	8	40.4	20.9	6.2	46.7	36.4
VUVS-L20-P53-MZD-G18-...			2.6			G1/8	M5	M5	M5						

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

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

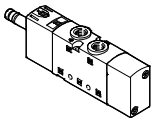
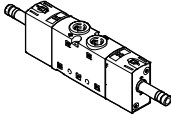
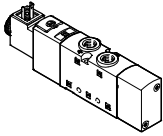
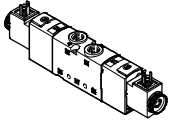
# Solenoid valves VUVS/valve manifold VTUS

Ordering data – Solenoid valves

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

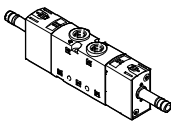
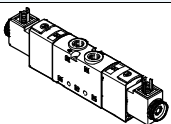
# Solenoid valves VUVS/valve manifold VTUS

Ordering data – Solenoid valves

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





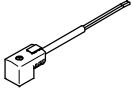

## Solenoid valves VUVS/valve manifold VTUS



Ordering data – Solenoid valves

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

# Solenoid valves VUVS/valve manifold VTUS

Ordering data – Solenoid valves

Ordering data				
	Valve function	Part No.	Type	
<b>Solenoid coils for valves</b>				
	12 V DC	8025331	VACS-C-C1-5	
	24 V DC	8025330	VACS-C-C1-1	
	48 V DC	8025336	VACS-C-C1-7	
	24 V AC/50-60 Hz	8025335	VACS-C-C1-1A	
	48 V AC	8025337	VACS-C-C1-7A	
	110/120 V AC/50-60 Hz	8025334	VACS-C-C1-16B	
	230/240 V AC/50-60 Hz	8025338	VACS-C-C1-3W	
<b>Seal set</b>				
	For valves in order to guarantee protection class IP67	2643771	VAMC-B10-C-B-S8	
<b>Cover cap</b>				
	For valves	8028240	VAMC-B10-20-CH2	
<b>Plug socket</b>				
	IP65, angled socket, square design, type C, 3-pin, to DIN EN 175301-803	539712	MSSD-EB-M12	
	IP67, angled socket, square design, type C, 3-pin, to DIN EN 175301-803	192745	MSSD-EB-S-M14	
<b>Plug socket with cable</b>				
	24 V, angled socket, type C, 3-pin, to DIN EN 175301-803, with LED	2.5	151688	KMEB-1-24-2,5-LED
		5	151689	KMEB-1-24-5-LED
		10	193457	KMEB-1-24-10-LED
	230 V, angled socket, type C, 3-pin, to DIN EN 175301-803, without switching status indication	2.5	151690	KMEB-1-230AC-2,5
		5	151691	KMEB-1-230AC-5
<b>Illuminating seal</b>				
	24 V DC, type C, to DIN EN 175301-803	151717	MEB-LD-12-24DC	
	230 V AC, type C, to DIN EN 175301-803	151718	MEB-LD-230AC	


Ordering data					
	Description		Part No.	Type	PU <sup>1)</sup>
<b>Push-in fitting with internal hex</b>					
	Connecting thread M5 for tubing O.D.	4 mm	153315	QSM-M5-4-I	10
	Connecting thread G1/8 for tubing O.D.	4 mm	186106	QS-G1/8-4-I	10
			133008	QS-G1/8-4-I-100	100
		6 mm	186107	QS-G1/8-6-I	10
			133009	QS-G1/8-6-I-100	100
		8 mm	186109	QS-G1/8-8-I	10
133010	QS-G1/8-8-I-100	100			
<b>Angled push-in fitting with external hex</b>					
	Connecting thread G1/8 for tubing O.D.	4 mm	186116	QSL-G1/8-4	10
			132048	QSL-G1/8-4-100	100
		6 mm	186117	QSL-G1/8-6	10
			132049	QSL-G1/8-6-100	100
		8 mm	186119	QSL-G1/8-8	10
132050	QSL-G1/8-8-50	50			

1) Packaging unit



## Solenoid valves VUVS/valve manifold VTUS


Ordering data – Solenoid valves


Ordering data					
	Description		Part No.	Type	PU <sup>1)</sup>
Angled push-in fitting, long, with external hex					
	Connecting thread G $\frac{1}{8}$ for tubing O.D.	4 mm	<b>186127</b>	<b>QSL-L-G1/8-4</b>	<b>10</b>
			<b>133015</b>	<b>QSL-L-G1/8-4-100</b>	<b>100</b>
		6 mm	<b>186128</b>	<b>QSL-L-G1/8-6</b>	<b>10</b>
			<b>133016</b>	<b>QSL-L-G1/8-6-100</b>	<b>100</b>
		8 mm	<b>186130</b>	<b>QSL-L-G1/8-8</b>	<b>10</b>
			<b>133017</b>	<b>QSL-L-G1/8-8-100</b>	<b>100</b>


1) Packaging unit

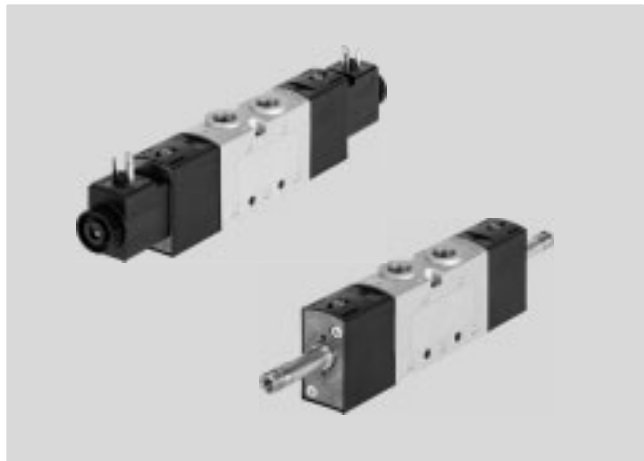
## Solenoid valves VUVS

Technical data – Solenoid valves, width 25

 Flow rate  
Up to 1300 l/min

 Valve width  
26.5 mm

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



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

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

## Solenoid valves VUVS

Technical data – Solenoid valves, width 25

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

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

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

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

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

# Solenoid valves VUVS

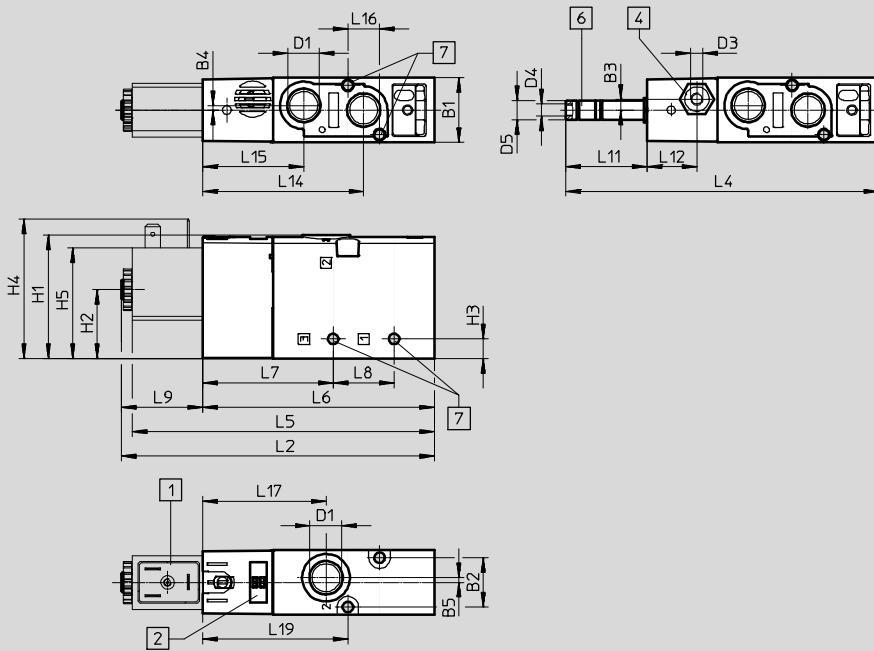
Technical data – Solenoid valves, width 25

**Dimensions**

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

3/2-way valves, with solenoid coil

3/2-way valves, without solenoid coil



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

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

Type	L2	L4	L5	L6	L7	L8	L9	L11	L12	L14	L15	L16	L17	L19
VUVS-L25-M32-...D-G18-...	129.2	128.1	123.8	94.8	53.3	25	34.4	33.3	–	65.8	41.3	13	50.4	59.3
VUVS-L25-M32-...ZD-G18-...									20.3					

# Solenoid valves VUVS

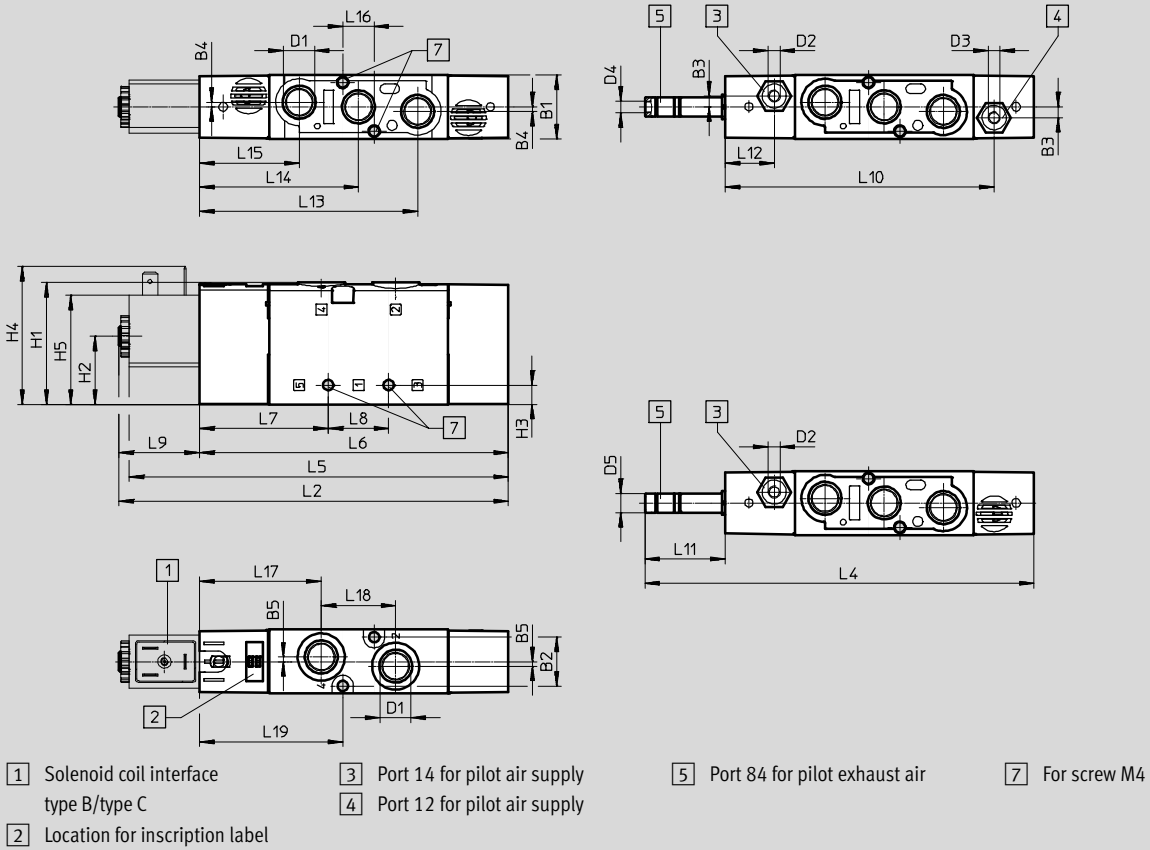
Technical data – Solenoid valves, width 25

## Dimensions

Download CAD data → [www.festo.com](http://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-G14-...	26.5	20.2	–	1.9	1.9	G1/4	–	–	M5	8	50.5	28.2	8	57.2	45.2
VUVS-L25-M52-...ZD-G14-...			4.5			G1/4	M5	M5	M5						

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

# Solenoid valves VUVS

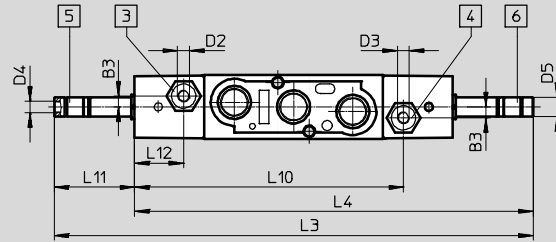
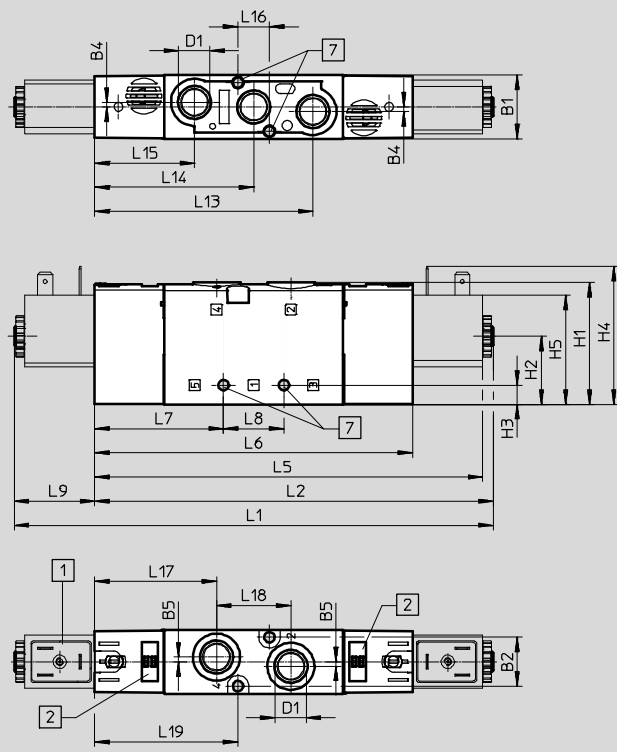
Technical data – Solenoid valves, width 25

## Dimensions

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

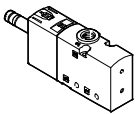
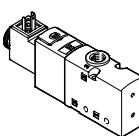
Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L25-P53-MD-G14-...	26.5	20.2	–	1.9	1.9	G1/4	–	–	M5	8	50.5	28.2	8	57.2	45.2
VUVS-L25-P53-MZD-G14-...			4.5				M5	M5							
VUVS-L25-B52-D-G14-...			–				–	–							
VUVS-L25-B52-ZD-G14-...			4.5				M5	M5							

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

Type	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-L25-P53-MD-G18-...	–	90.3	65.8	41.3	13	50.4	30.8	59.3
VUVS-L25-P53-MZD-G18-...	20.3							
VUVS-L25-B52-D-G14-...	–							
VUVS-L25-B52-ZD-G14-...	20.3							

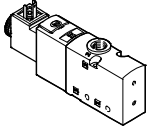
# Solenoid valves VUVS/valve manifold VTUS

Ordering data – Solenoid valves

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

## Solenoid valves VUVS/valve manifold VTUS

Ordering data – Solenoid valves

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



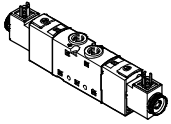
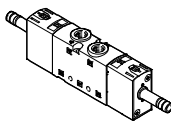
## Solenoid valves VUVS/valve manifold VTUS

Ordering data – Solenoid valves

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

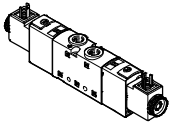
## Solenoid valves VUVS/valve manifold VTUS

Ordering data – Solenoid valves

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




## Solenoid valves VUVS/valve manifold VTUS


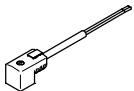

Ordering data – Solenoid valves

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

# Solenoid valves VUVS/valve manifold VTUS




Ordering data – Solenoid valves

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

Ordering data				Part No.	Type	
<b>Plug socket</b>						
	Port pattern type C, to EN 175301-803					
	Angled socket, 3-pin	230 V AC	IP65	539712	MSSD-EB-M12	
	Angled socket, 4-pin		IP67	192745	MSSD-EB-S-M14	
	Port pattern type B, to EN 175301-803					
	Angled socket, 3-pin	230 V AC	IP65	539710	MSSD-F-M16	
	Angled socket, 4-pin		IP67	192746	MSSD-F-S-M16	
<b>Plug socket with cable</b>						
	Port pattern type C, to 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
	Angled socket, 3-pin Cable, open end, 3-wire	230 V AC	–	2.5 m	151690	KMEB-1-230AC-2,5
				5 m	151691	KMEB-1-230AC-5
	Port pattern type B, to EN 175301-803					
	Angled socket, 3-pin Cable, open end, 3-wire	24 V DC	LED	2.5 m	30935	KMF-1-24DC-2.5-LED
				5 m	30937	KMF-1-24DC-5-LED
				10 m	193458	KMF-1-24-10-LED
	Angled socket, 3-pin Cable, open end, 3-wire	230 V AC	–	2.5 m	30936	KMF-1-230AC-2.5
				5 m	30938	KMF-1-230AC-5
<b>Illuminating seal</b>						
	Port pattern type C, to DIN EN 175301-803	24 V DC		151717	MEB-LD-12-24DC	
		230 V AC		151718	MEB-LD-230AC	
	Port pattern type B, to DIN EN 175301-803	24 V DC		19143	MF-LD-12-24DC	
		230 V AC		19144	MF-LD-230AC	

## Solenoid valves VUVS/valve manifold VTUS

Ordering data – Solenoid valves

Ordering data					
	Description	Part No.	Type	PU <sup>1)</sup>	
<b>Push-in fitting with internal hex</b>					
	Connecting thread M5 for tubing O.D.	4 mm	<b>153315</b>	<b>QSM-M5-4-I</b>	<b>10</b>
	Connecting thread G $\frac{1}{4}$ for tubing O.D.	6 mm	<b>186108</b>	<b>QS-G1/4-6-I</b>	<b>10</b>
		8 mm	<b>186110</b>	<b>QS-G1/4-8-I</b>	<b>10</b>
		10 mm	<b>186112</b>	<b>QS-G1/4-10-I</b>	<b>10</b>
<b>Angled push-in fitting with external hex</b>					
	Connecting thread G $\frac{1}{4}$ for tubing O.D.	6 mm	<b>186118</b>	<b>QSL-G1/4-6</b>	<b>10</b>
			<b>132051</b>	<b>QSL-G1/4-6-100</b>	<b>100</b>
	8 mm	<b>186120</b>	<b>QSL-G1/4-8</b>	<b>10</b>	
		<b>132052</b>	<b>QSL-G1/4-8-50</b>	<b>50</b>	
	10 mm	<b>186122</b>	<b>QSL-G1/4-10</b>	<b>10</b>	
		<b>132053</b>	<b>QSL-G1/4-10-50</b>	<b>50</b>	
<b>Angled push-in fitting, long, with external hex</b>					
	Connecting thread G $\frac{1}{4}$ for tubing O.D.	6 mm	<b>186129</b>	<b>QSL-L-G1/4-6</b>	<b>10</b>
		8 mm	<b>186131</b>	<b>QSL-L-G1/4-8</b>	<b>10</b>
		10 mm	<b>186133</b>	<b>QSL-L-G1/4-10</b>	<b>10</b>

1) Packaging unit

## Solenoid valves VUVS/valve manifold VTUS


Order code – Manifold block

<b>VABM</b>	-	<b>B10</b>	-		-
Valve manifold parts					
Manifold block		<b>VABM</b>			
Valve series					
VUVS		<b>B10</b>			
Valve width					
21 mm				<b>20</b>	
26.5 mm				<b>25</b>	
Connection type					
Supply manifold					-
Manifold block compact					<b>S</b>
Manifold block standard					<b>E</b>
Extension module for standard manifold block					<b>EEE</b>

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

# Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, width 20

 Flow rate  
 Up to 700 l/min



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

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

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

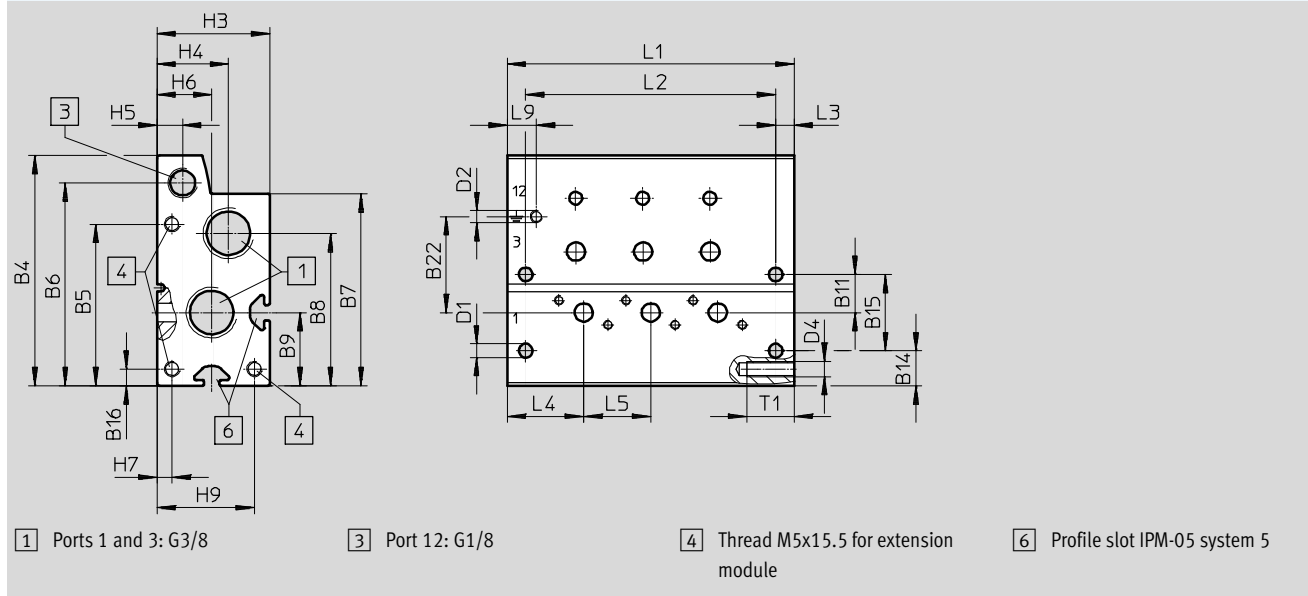
# Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, width 20

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

## Dimensions

Manifold block for 3/2-way valves, standard



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

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

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

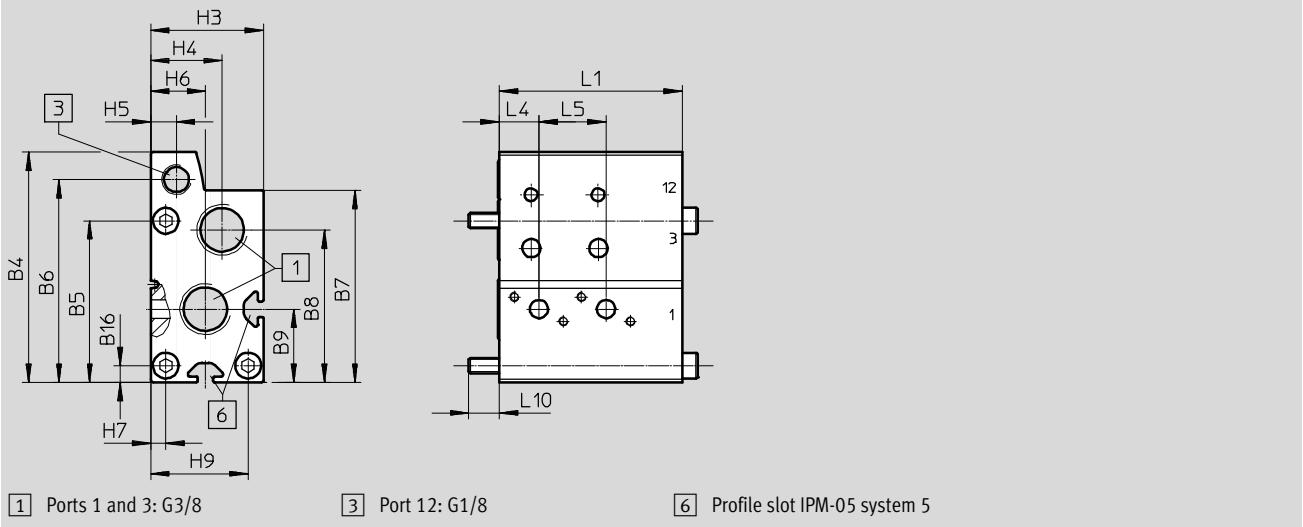


# Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, width 20

## Dimensions

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



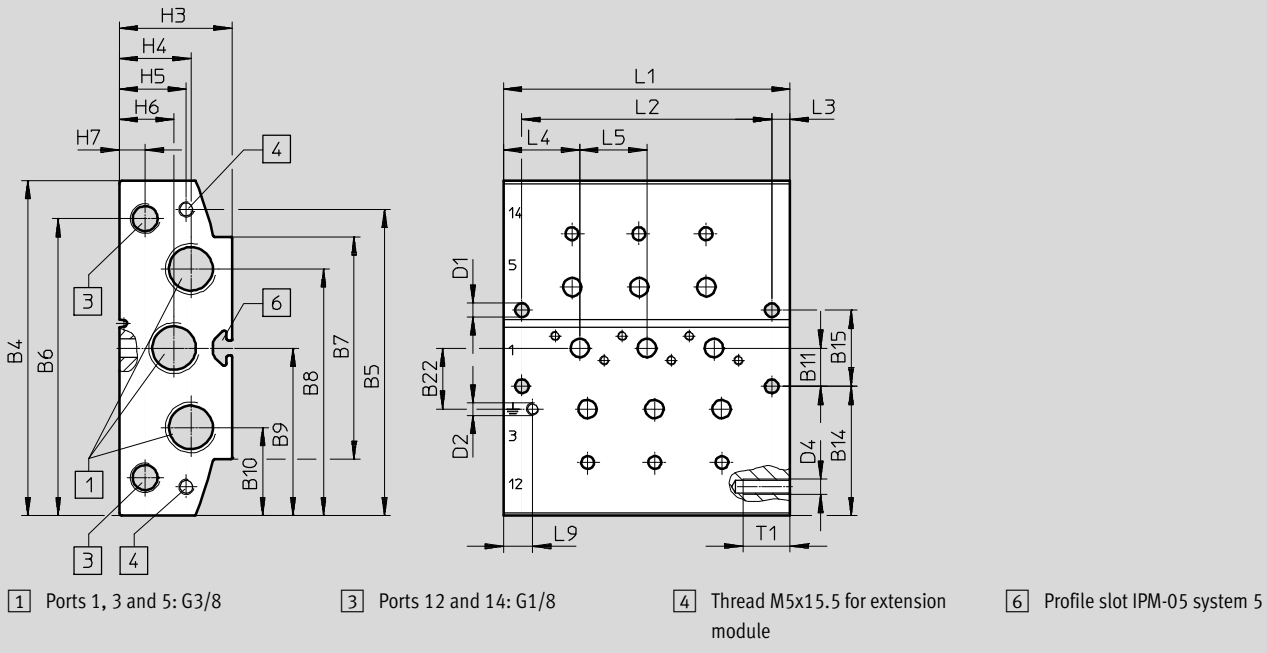
Type	B4	B7	B6	B7	B8	B9	B16	H3	H4	H5	H6	H7	H9	L1	L4	L5	L10
VABM-B10-20EEE-G38-2-P3	75.5	53	66.5	63	50	24	5.5	37	23.5	8.5	18	5	32	60	25	22	10

# Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, width 20

## 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-B10-20E-...G38-...	110	100.5	97.5	73	81	55	29	12.5	42.5	25	20

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

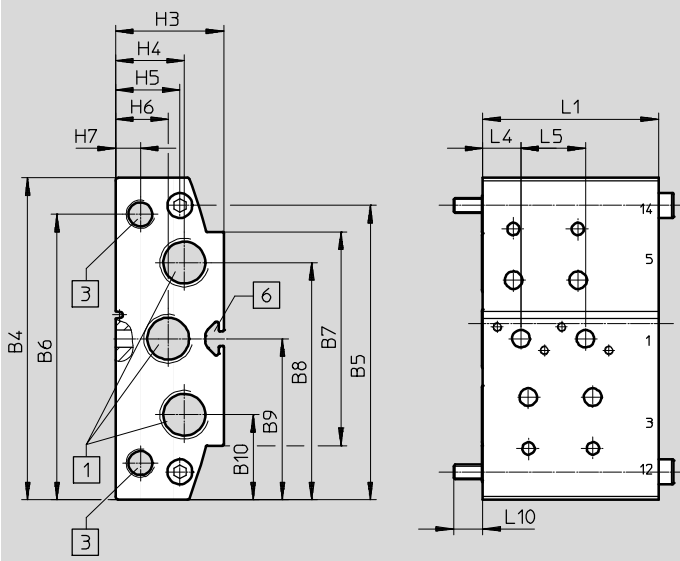
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	72	94	116	138	160	182	204	226	248
L2 [mm]	60	82	104	126	148	170	192	214	236

# Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, width 20

## Dimensions

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



1 Ports 1, 3 and 5: G3/8

3 Ports 12 and 14: G1/8

6 Profile slot IPM-05 system 5

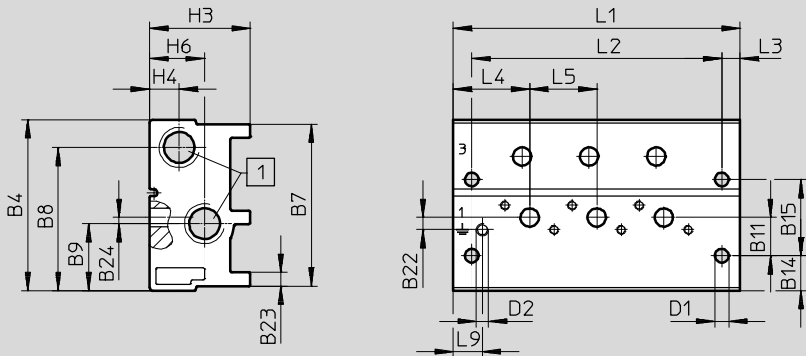
Type	B4	B5	B6	B7	B8	B9	B10	H3	H4	H5	H6	H7	L1	L4	L5	L10
VABM-B10-20EEE-G38-2	110	100.5	97.5	73	81	55	29	37	23.5	22	18	8.5	60	13	22	10

# Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, width 20

## Dimensions

Manifold block for 3/2-way valves, compact



1 Ports 1 and 3: G1/4

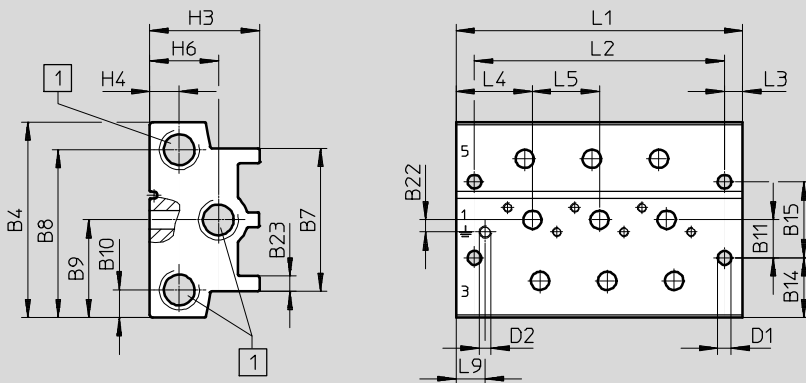
Type	B4	B7	B8	B9	B11	B14	B15	B22	B23	B24
VABM-B10-20S-...G14-...-P3	56.1	53.1	47	22	12.5	11.5	25	4	4.5	2

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

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

## Dimensions

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



1 Ports 1, 3 and 5: G1/4

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

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

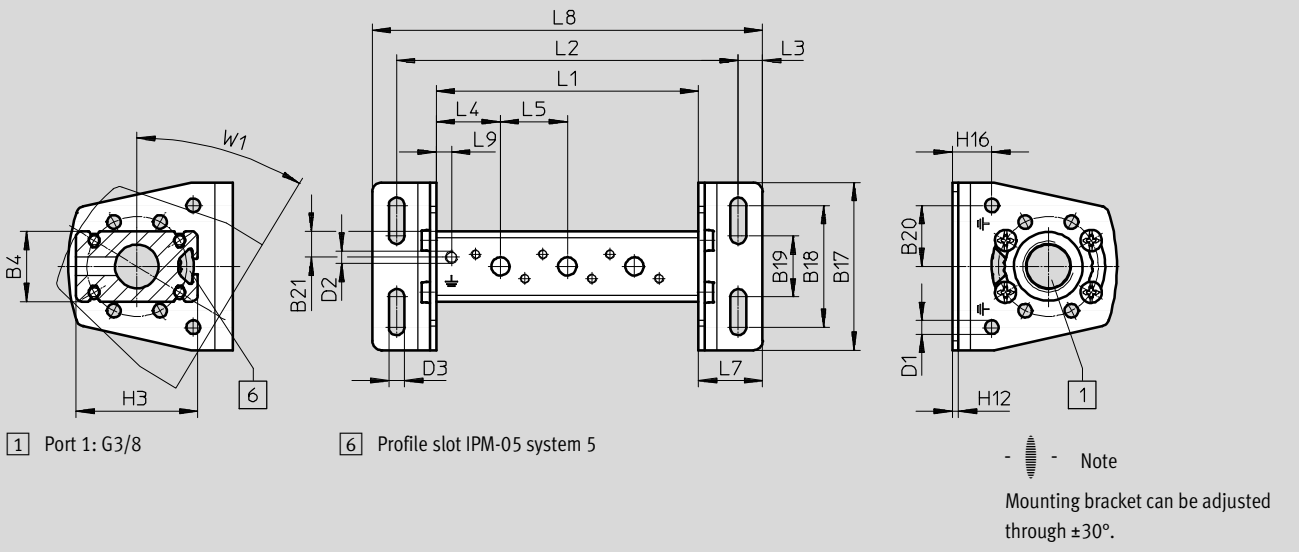
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	72	94	116	138	160	182	204	226	248
L2 [mm]	60	82	104	126	148	170	192	214	236

# Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, width 20

## Dimensions

Supply manifold, mounting on both sides

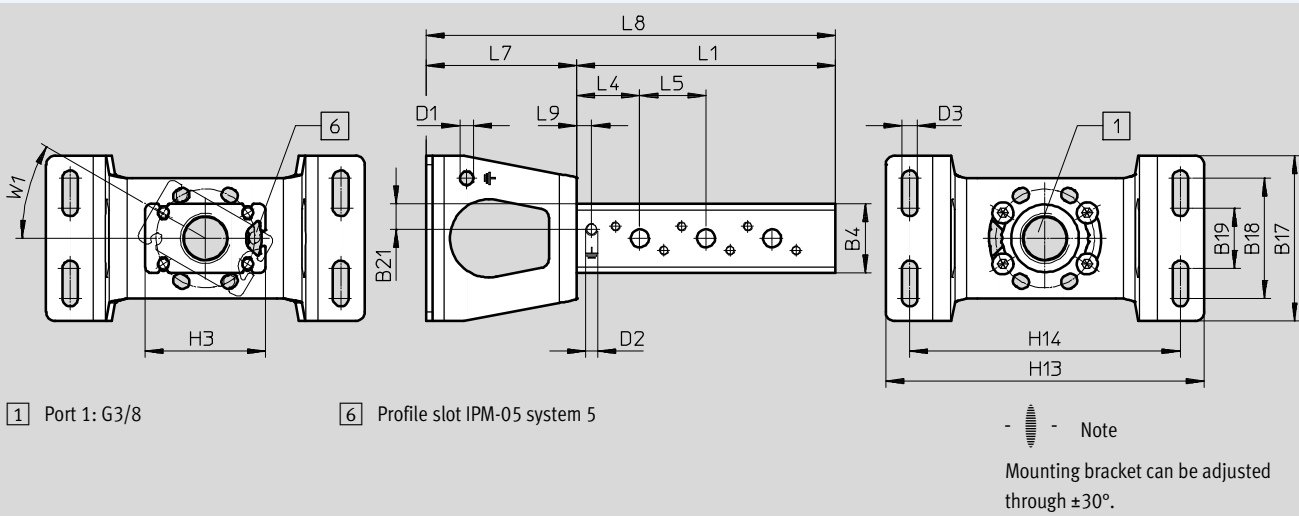


Type	B4	B17	B18	B19	B20	B21	D1 $\varnothing$	D2	D3 $\varnothing$	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-20-G38-...-P53	23	55	40	20	20	8.5	4.5	M4x6.5	5.2	40	2	13	8	21	22	21	5	30°

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

## Dimensions

Supply manifold, mounting on one side



Type	B4	B17	B18	B19	B21	D1 $\varnothing$	D2	D3 $\varnothing$	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-20-G38-2-P53-E	23	55	40	20	8.5	4.5	M4x6.5	5.2	40	106	90	21	22	50	5	30°

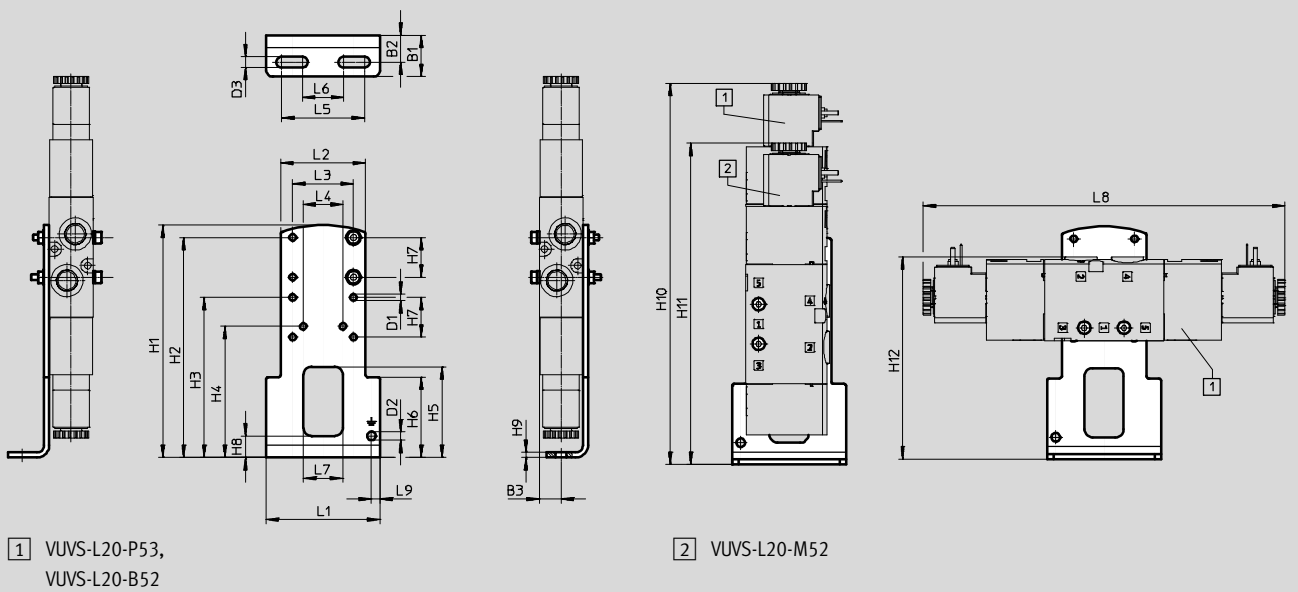
Valve positions	2	3	4
L1 [mm]	64	86	108
L8 [mm]	114	136	158

# Manifold block VABM

Technical data – Manifold block, width 20

## Dimensions

### Foot mounting



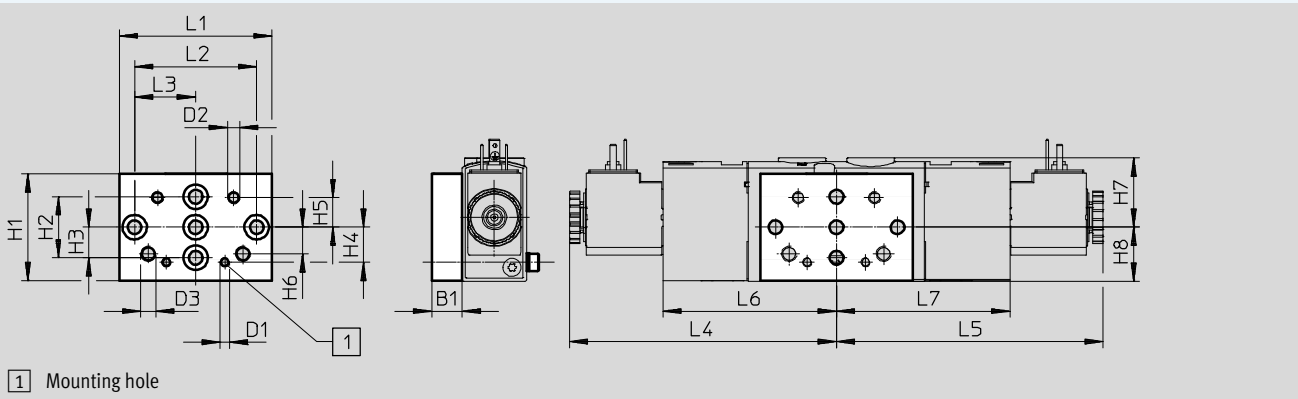
Type		B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	H1	H2	H3	H4	H5
VAME-B10-20-A	VUVS-L20-B52/P53	20	13.1	10.6	3.2	4.2	5.2	112.5	106.5	77.5	63.5	44
	VUVS-L20-M52											
	VUVS-L20-M32											

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					-	155.4	
	VUVS-L20-M32					102.2	-	

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								141.2	
	VUVS-L20-M32								110.7	

## Dimensions

### Wall mounting

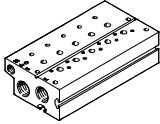
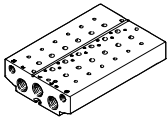

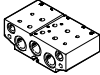
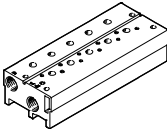
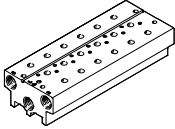


1 Mounting hole

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	56.8
	VUVS-L20-M52																-	-	53.8	-
	VUVS-L20-M32																-	-	23.3	-

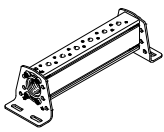
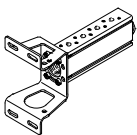
## Solenoid valves VUVS/valve manifold VTUS

Accessories – Manifold block, width 20

Ordering data – Manifold block				
Description	Valve positions	Part No.	Type	
<b>Standard manifold block</b>				
	For 3/2-way valves, incl. seals and screws for valve assembly	2	576441	VABM-B10-20E-G38-2-P3
		3	576442	VABM-B10-20E-G38-3-P3
		4	576443	VABM-B10-20E-G38-4-P3
		5	576444	VABM-B10-20E-G38-5-P3
		6	576445	VABM-B10-20E-G38-6-P3
		7	576446	VABM-B10-20E-G38-7-P3
		8	576447	VABM-B10-20E-G38-8-P3
		9	576448	VABM-B10-20E-G38-9-P3
		10	576449	VABM-B10-20E-G38-10-P3
		For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly	2	576339
		3	576340	VABM-B10-20E-G38-3
		4	576341	VABM-B10-20E-G38-4
		5	576342	VABM-B10-20E-G38-5
		6	576343	VABM-B10-20E-G38-6
		7	576344	VABM-B10-20E-G38-7
		8	576345	VABM-B10-20E-G38-8
		9	576346	VABM-B10-20E-G38-9
		10	576347	VABM-B10-20E-G38-10
<b>Manifold block, extension module for standard manifold block</b>				
	For 3/2-way valves, incl. seals and screws for valve assembly	2	576490	VABM-B10-20EEE-G38-2-P3
	For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly	2	576489	VABM-B10-20EEE-G38-2
<b>Compact manifold block</b>				
	For 3/2-way valves, incl. seals and screws for valve assembly	2	576465	VABM-B10-20S-G14-2-P3
		3	576466	VABM-B10-20S-G14-3-P3
		4	576467	VABM-B10-20S-G14-4-P3
		5	576468	VABM-B10-20S-G14-5-P3
		6	576469	VABM-B10-20S-G14-6-P3
		7	576470	VABM-B10-20S-G14-7-P3
		8	576471	VABM-B10-20S-G14-8-P3
		9	576472	VABM-B10-20S-G14-9-P3
		10	576473	VABM-B10-20S-G14-10-P3
		For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly	2	576417
		3	576418	VABM-B10-20S-G14-3
		4	576419	VABM-B10-20S-G14-4
		5	576420	VABM-B10-20S-G14-5
		6	576421	VABM-B10-20S-G14-6
		7	576422	VABM-B10-20S-G14-7
		8	576423	VABM-B10-20S-G14-8
		9	576424	VABM-B10-20S-G14-9
		10	576425	VABM-B10-20S-G14-10

## Solenoid valves VUVS/valve manifold VTUS

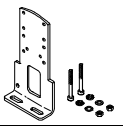
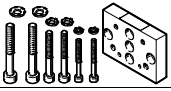
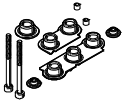
Accessories – Manifold block, width 20

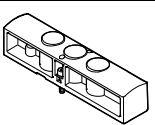
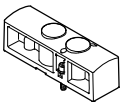

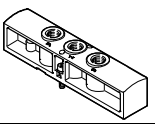
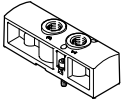

Ordering data			
Description	Valve positions	Part No.	Type
Supply manifold			
 <p>For mounting on both sides, incl. seals and screws for valve assembly</p>	2	<b>576363</b>	<b>VABM-B10-20-G38-2-P53</b>
	3	<b>576364</b>	<b>VABM-B10-20-G38-3-P53</b>
	4	<b>576365</b>	<b>VABM-B10-20-G38-4-P53</b>
	5	<b>576366</b>	<b>VABM-B10-20-G38-5-P53</b>
	6	<b>576367</b>	<b>VABM-B10-20-G38-6-P53</b>
	7	<b>576368</b>	<b>VABM-B10-20-G38-7-P53</b>
	8	<b>576369</b>	<b>VABM-B10-20-G38-8-P53</b>
	9	<b>576370</b>	<b>VABM-B10-20-G38-9-P53</b>
	10	<b>576371</b>	<b>VABM-B10-20-G38-10-P53</b>
	 <p>For mounting on one side, incl. seals and screws for valve assembly</p>	2	<b>576414</b>
3		<b>576415</b>	<b>VABM-B10-20-G38-3-P53-E</b>
4		<b>576416</b>	<b>VABM-B10-20-G38-4-P53-E</b>



## Solenoid valves VUVS/valve manifold VTUS





Accessories – Manifold block, width 20

Ordering data			
Description	Weight [g]	Part No.	Type
<b>Foot mounting</b>			
 With screw set for mounting the valve on the foot mounting	97	<b>576412</b>	<b>VAME-B10-20-A</b>
<b>Wall mounting</b>			
 With screw set for mounting the valve on the wall mounting	53	<b>576413</b>	<b>VAME-B10-20-W</b>
<b>Spare parts selection</b>			
 Set comprising seals and screws	10	<b>8026203</b>	<b>VAME-B10-20-MK</b>

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

## Solenoid valves VUVS/valve manifold VTUS





Accessories – Manifold block, width 20

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

1) Packaging unit

## Solenoid valves VUVS/valve manifold VTUS


Accessories – Manifold block, width 20

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

1) Packaging unit

# Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, width 25

 Flow rate  
Up to 1300 l/min



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

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

Weight [g]									
Valve positions	2	3	4	5	6	7	8	9	10
Manifold block for 3/2-way valves, standard									
VABM-B10-25E-...G12-...-P3	726	960	1194	1428	1662	1896	2130	2364	2598
Manifold block, extension module for 3/2-way valves, standard									
VABM-B10-25EEE-G12-2-P3	340	–	–	–	–	–	–	–	–
Manifold block for 5/2- and 5/3-way valves, standard									
VABM-B10-25E-...G12-...	927	1224	1521	1818	2115	2412	2709	3006	3303
Manifold block, extension module for 5/2- and 5/3-way valves, standard									
VABM-B10-25EEE-G12-2	258	–	–	–	–	–	–	–	–
Manifold block for 3/2-way valves, compact									
VABM-B10-25S-...G38-...-P3	369	488	607	726	845	964	1083	1202	1321
Manifold block for 5/2- and 5/3-way valves, compact									
VABM-B10-25S-...G38-...	438	579	720	861	1002	1143	1284	1425	1566
Supply manifold for mounting on both sides									
VABM-B10-25-G38-...-P53	258	340	422	504	586	668	750	832	914
Supply manifold for mounting on one side									
VABM-B10-20-G38-2-P53-E	258	340	422	–	–	–	–	–	–

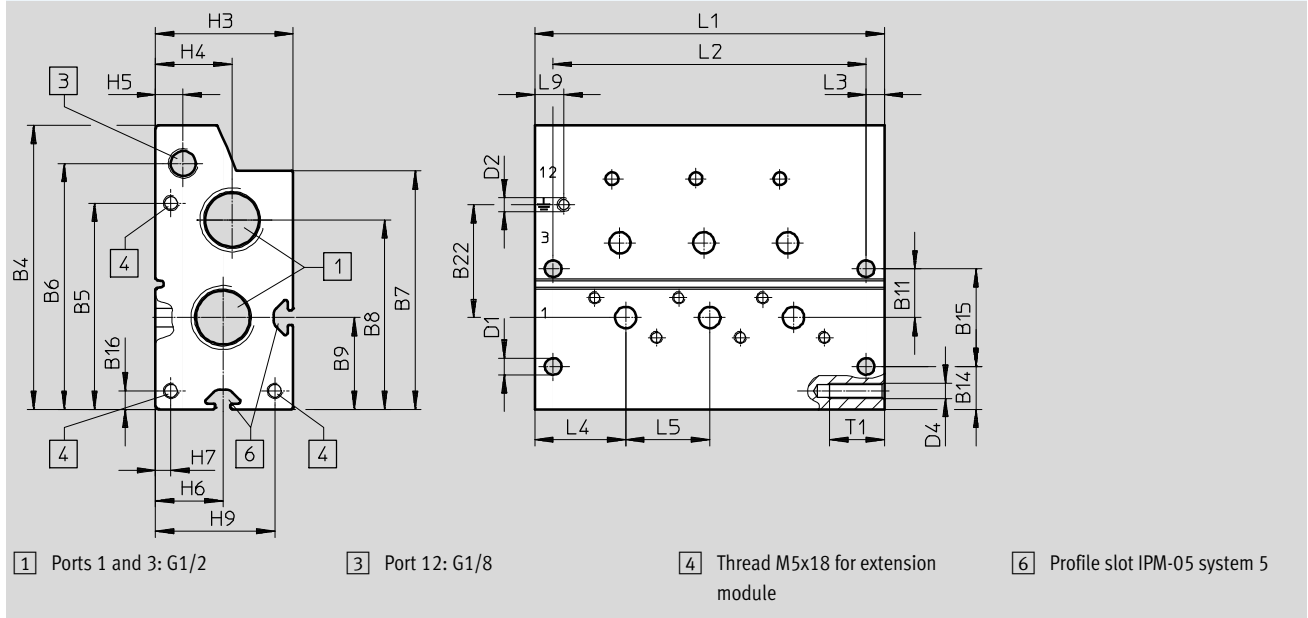
# Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, width 25

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

## Dimensions

Manifold block for 3/2-way valves, standard



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

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

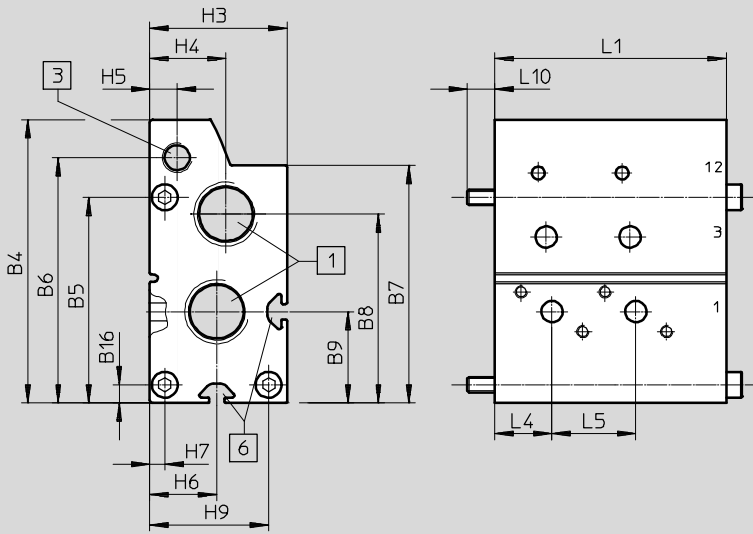
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

# Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, width 25

## Dimensions

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



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

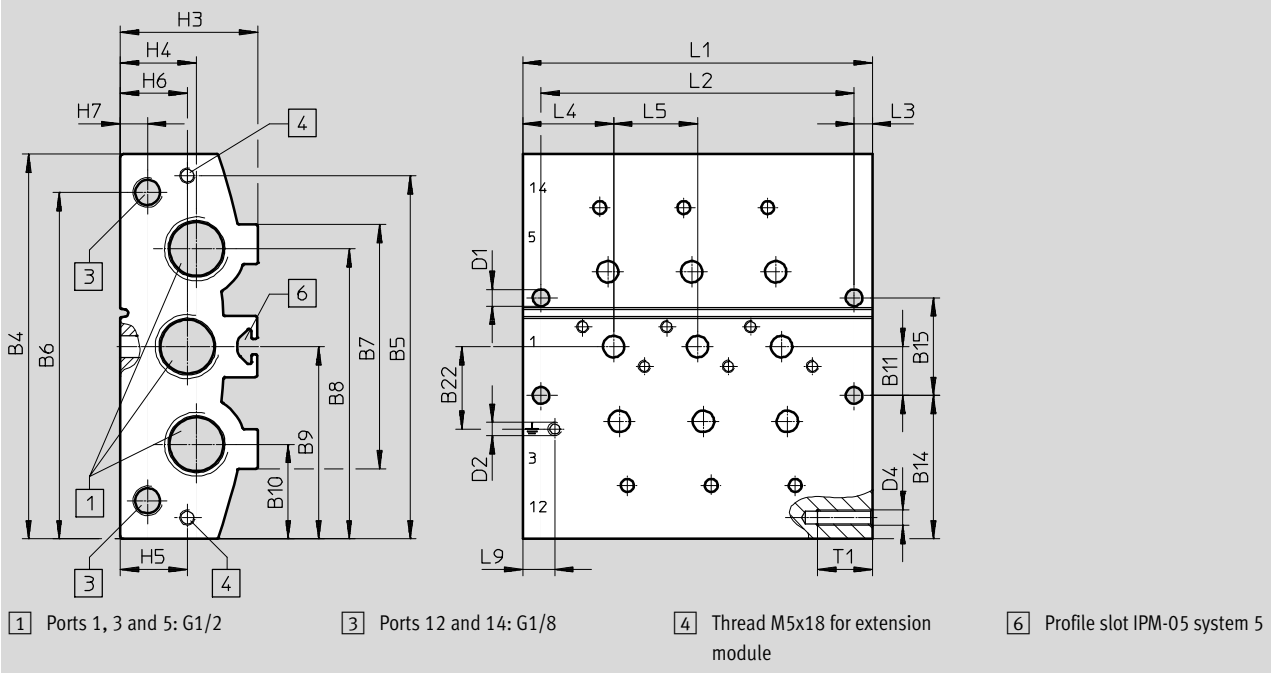
Type	B4	B5	B6	B7	B8	B9	B16	H3	H4	H5	H6	H7	H9	L4	L5	L10	L1
VABM-B10-25EEE-G12-2-P3	93	67.5	80.5	78	62	30	6	45	25	9	22	5	39	18.8	27.5	9	76

# Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, width 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-...G12-...	126	119	113.5	80	95	63	31	16	47	32	27

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

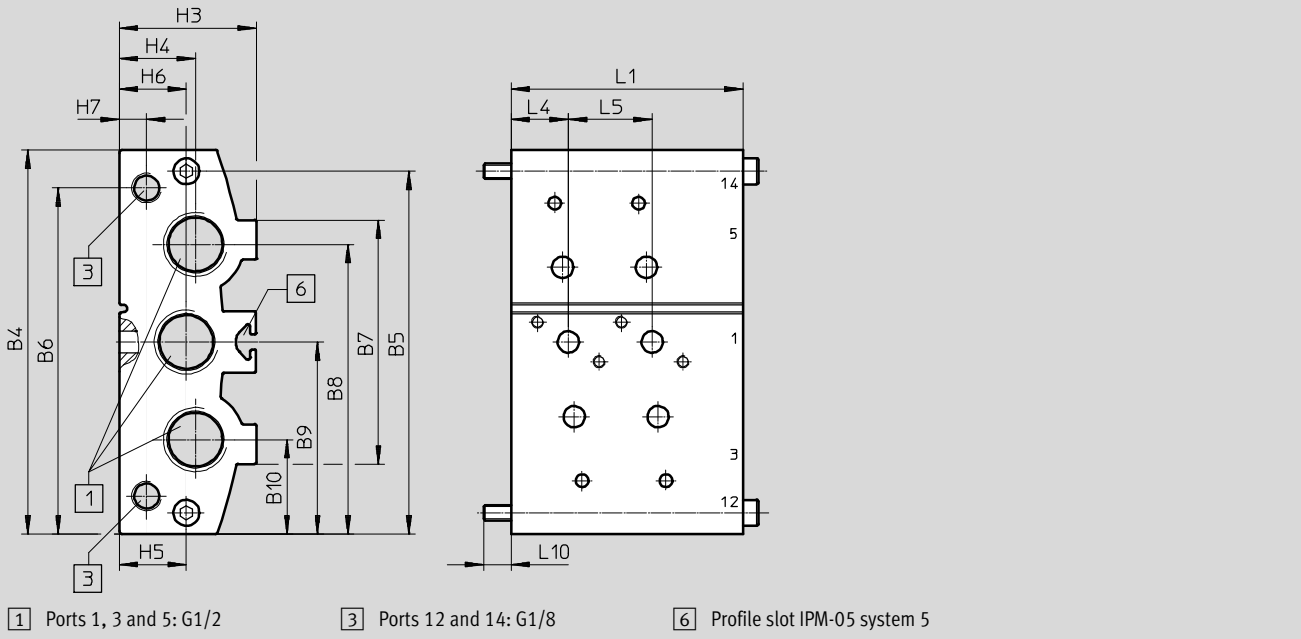
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

# Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, width 25

## Dimensions

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



Type	B4	B5	B6	B7	B8	B9	B10	H3	H4	H5	H6	H7	L1	L4	L5	L10
VABM-B10-20EEE-G12-2	110	100.5	97.5	73	81	55	29	37	23.5	22	18	8.5	60	13	22	10

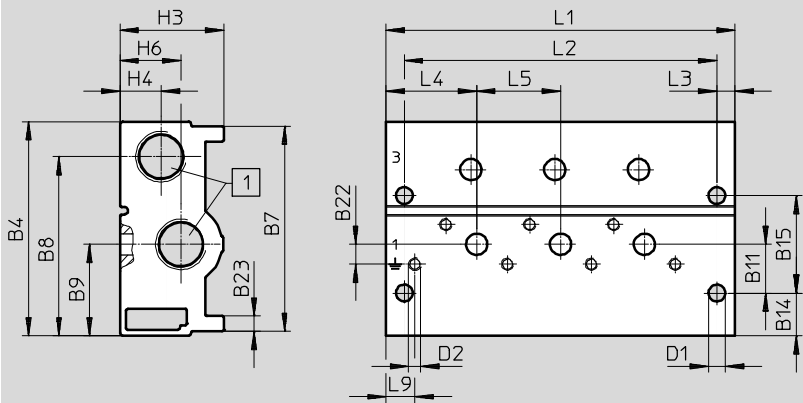


# Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, width 25

## Dimensions

Manifold block for 3/2-way valves, compact



1 Ports 1 and 3: G3/8

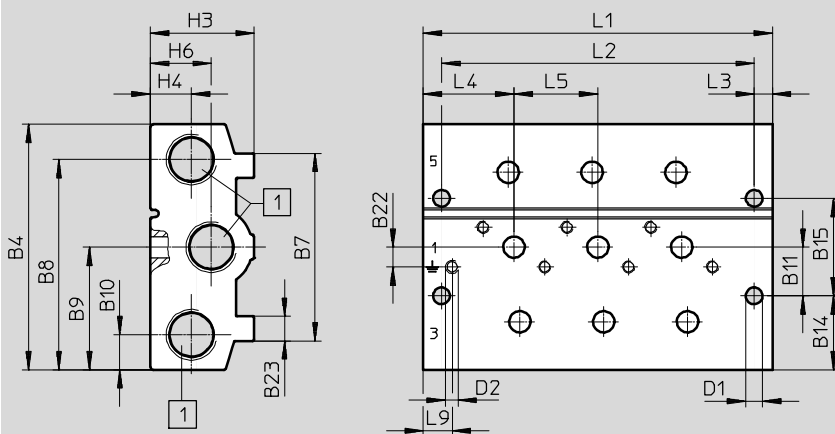
Type	B4	B7	B8	B9	B11	B14	B15	B22	B23
VABM-B10-25S-...G38-...-P3	70.3	67.3	58.8	30	16	14	32	6.5	5

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

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

## Dimensions

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



1 Ports 1, 3 and 5: G3/8

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

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

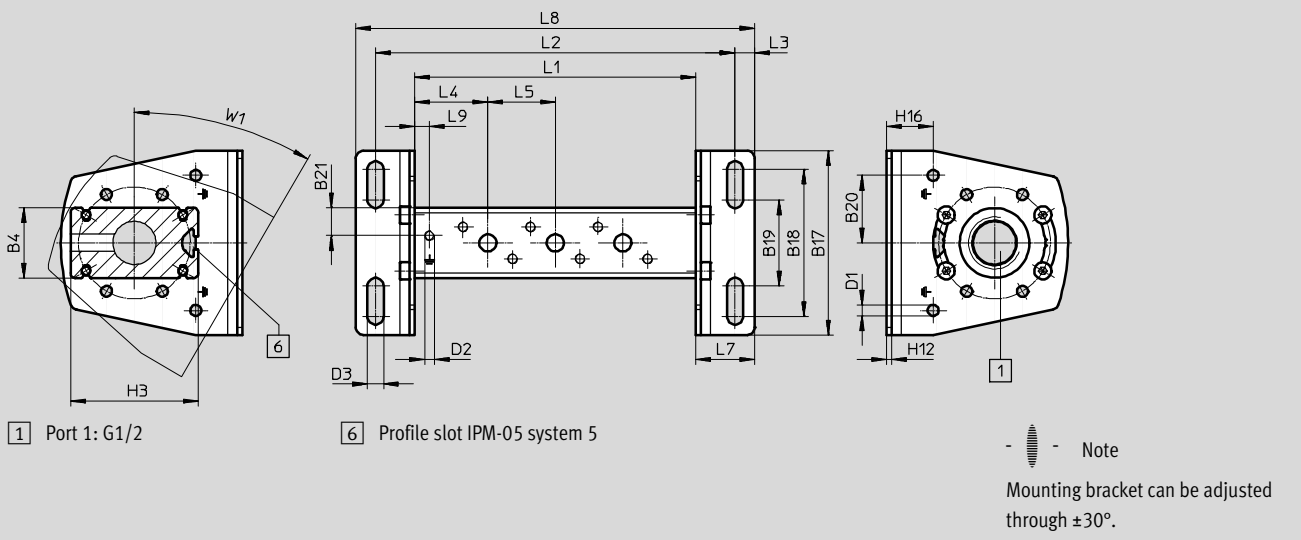
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

# Solenoid valves VUVS/valve manifold VTUS

Technical data – Manifold block, width 25

## Dimensions

Supply manifold, mounting on both sides



1 Port 1: G1/2

6 Profile slot IPM-05 system 5

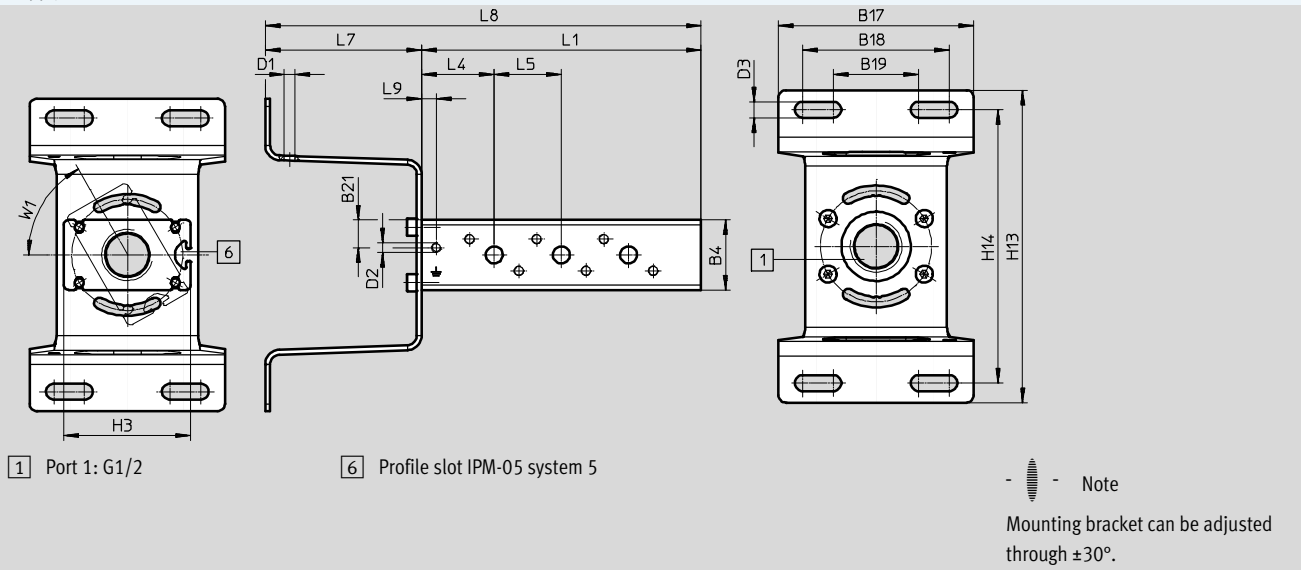
Note  
Mounting bracket can be adjusted through  $\pm 30^\circ$ .

Type	B4	B17	B18	B19	B20	B21	D1 $\varnothing$	D2	D3 $\varnothing$	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-25-G12-...-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

## Dimensions

Supply manifold, mounting on one side



1 Port 1: G1/2

6 Profile slot IPM-05 system 5

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

Type	B4	B17	B18	B19	B21	D1 $\varnothing$	D2	D3 $\varnothing$	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-25-G12-...-P53-E	28.7	80	60	35	11.4	4.5	M4x9	6.6	52	128	112	29.8	27.5	64	6	30°

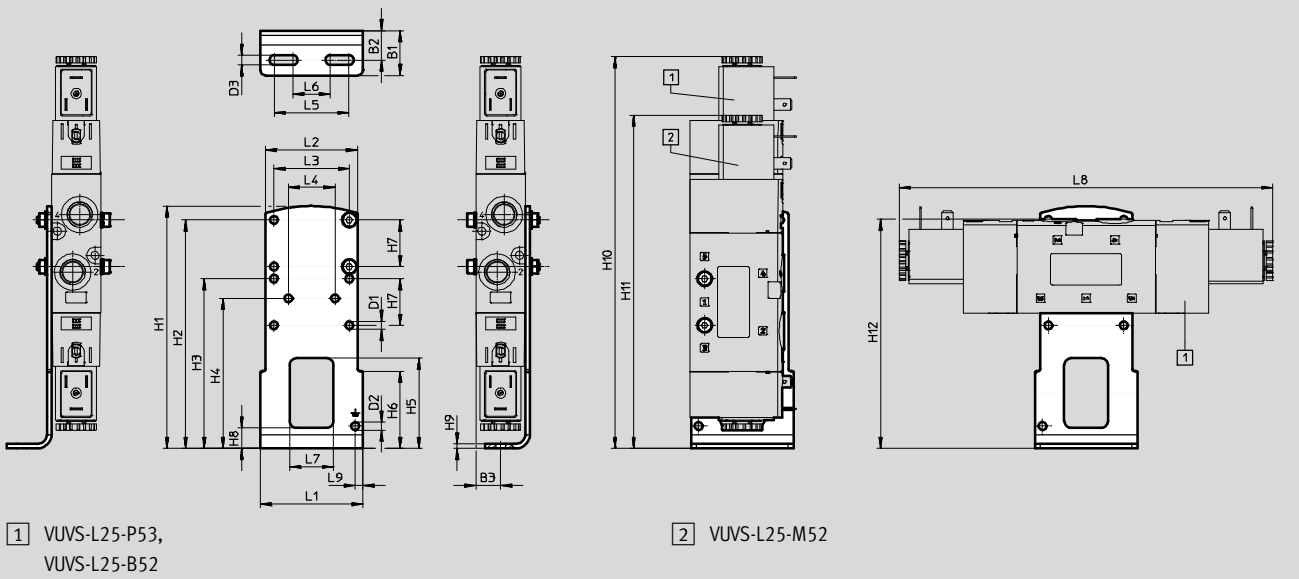
Valve positions	2	3	4
L1 [mm]	87	114.5	142
L8 [mm]	151	178.5	206

# Manifold block VABM

Technical data – Manifold block, width 25

## Dimensions

Foot mounting



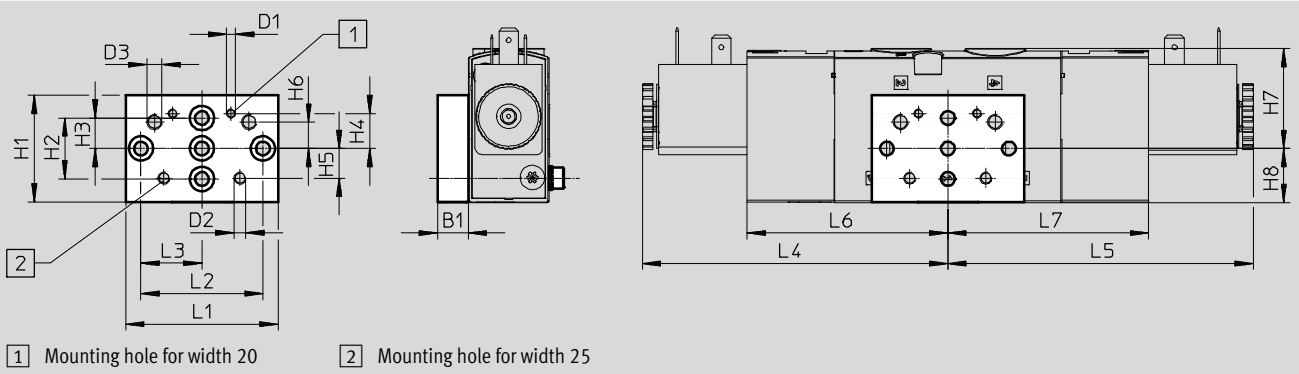
Type		B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	H1	H2	H3	H4	H5
VAME-B10-25-A	VUVS-L20-B52/P53	24	15.8	13.3	4.2	4.2	5.2	130	122.5	91	80.5	48.5
	VUVS-L20-M52											
	VUVS-L20-M32											

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

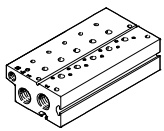
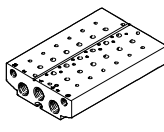

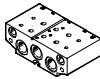
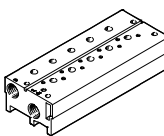
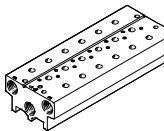
Wall mounting



Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6	H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-25-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	100	65.8	65.8
	VUVS-L25-M52																–	–	62	–
	VUVS-L25-M32																–	–	29	–

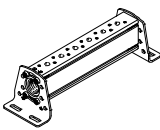
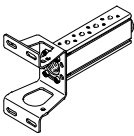
# Solenoid valves VUVS/valve manifold VTUS

Accessories – Manifold block, width 25

Ordering data – Manifold block				
Description	Valve positions	Part No.	Type	
<b>Standard manifold block</b>				
	For 3/2-way valves, incl. seals and screws for valve assembly	2	8026279	VABM-B10-25E-G12-2-P3
		3	8026280	VABM-B10-25E-G12-3-P3
		4	8026281	VABM-B10-25E-G12-4-P3
		5	8026282	VABM-B10-25E-G12-5-P3
		6	8026283	VABM-B10-25E-G12-6-P3
		7	8026284	VABM-B10-25E-G12-7-P3
		8	8026285	VABM-B10-25E-G12-8-P3
		9	8026286	VABM-B10-25E-G12-9-P3
		10	8026287	VABM-B10-25E-G12-10-P3
		For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly	2	8026243
		3	8026244	VABM-B10-25E-G12-3
		4	8026245	VABM-B10-25E-G12-4
		5	8026246	VABM-B10-25E-G12-5
		6	8026247	VABM-B10-25E-G12-6
		7	8026248	VABM-B10-25E-G12-7
		8	8026249	VABM-B10-25E-G12-8
		9	8026250	VABM-B10-25E-G12-9
		10	8026251	VABM-B10-25E-G12-10
<b>Manifold block, extension module for standard manifold block</b>				
	For 3/2-way valves, incl. seals and screws for valve assembly	2	8026316	VABM-B10-25EEE-G12-2-P3
	For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly	2	8026315	VABM-B10-25EEE-G12-2
<b>Compact manifold block</b>				
	For 3/2-way valves, incl. seals and screws for valve assembly	2	8026297	VABM-B10-25S-G38-2-P3
		3	8026298	VABM-B10-25S-G38-3-P3
		4	8026299	VABM-B10-25S-G38-4-P3
		5	8026300	VABM-B10-25S-G38-5-P3
		6	8026301	VABM-B10-25S-G38-6-P3
		7	8026302	VABM-B10-25S-G38-7-P3
		8	8026303	VABM-B10-25S-G38-8-P3
		9	8026304	VABM-B10-25S-G38-9-P3
		10	8026305	VABM-B10-25S-G38-10-P3
		For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly	2	8026261
		3	8026262	VABM-B10-25S-G38-3
		4	8026263	VABM-B10-25S-G38-4
		5	8026264	VABM-B10-25S-G38-5
		6	8026265	VABM-B10-25S-G38-6
		7	8026266	VABM-B10-25S-G38-7
		8	8026267	VABM-B10-25S-G38-8
		9	8026268	VABM-B10-25S-G38-9
		10	8026269	VABM-B10-25S-G38-10

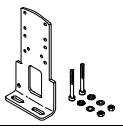
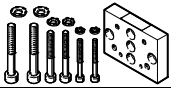
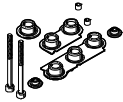
## Solenoid valves VUVS/valve manifold VTUS

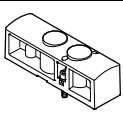
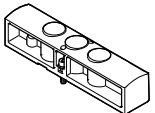

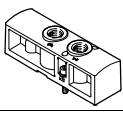
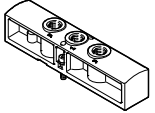

Accessories – Manifold block, width 25

Ordering data			
Description	Valve positions	Part No.	Type
Supply manifold			
 <p>For mounting on both sides, incl. seals and screws for valve assembly</p>	2	8026219	VABM-B10-25-G12-2-P53
	3	8026220	VABM-B10-25-G12-3-P53
	4	8026221	VABM-B10-25-G12-4-P53
	5	8026222	VABM-B10-25-G12-5-P53
	6	8026223	VABM-B10-25-G12-6-P53
	7	8026224	VABM-B10-25-G12-7-P53
	8	8026225	VABM-B10-25-G12-8-P53
	9	8026226	VABM-B10-25-G12-9-P53
	10	8026227	VABM-B10-25-G12-10-P53
	 <p>For mounting on one side, incl. seals and screws for valve assembly</p>	2	8026237
3		8026238	VABM-B10-25-G12-3-P53-E
4		8026239	VABM-B10-25-G12-4-P53-E

## Solenoid valves VUVS/valve manifold VTUS





Accessories – Manifold block, width 25

Ordering data			
Description	Weight [g]	Part No.	Type
<b>Foot mounting</b>			
 With screw set for mounting the valve on the foot mounting	130	<b>2293485</b>	<b>VAME-B10-25-A</b>
<b>Wall mounting</b>			
 With screw set for mounting the valve on the wall mounting	53	<b>576413</b>	<b>VAME-B10-20-W</b>
<b>Spare parts selection</b>			
 Set comprising seals and screws	12	<b>8035636</b>	<b>VAME-B10-25-MK</b>

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

## Solenoid valves VUVS/valve manifold VTUS





Accessories – Manifold block, width 25

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

1) Packaging unit

## Solenoid valves VUVS/valve manifold VTUS

Accessories – Manifold block, width 25

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

1) Packaging unit