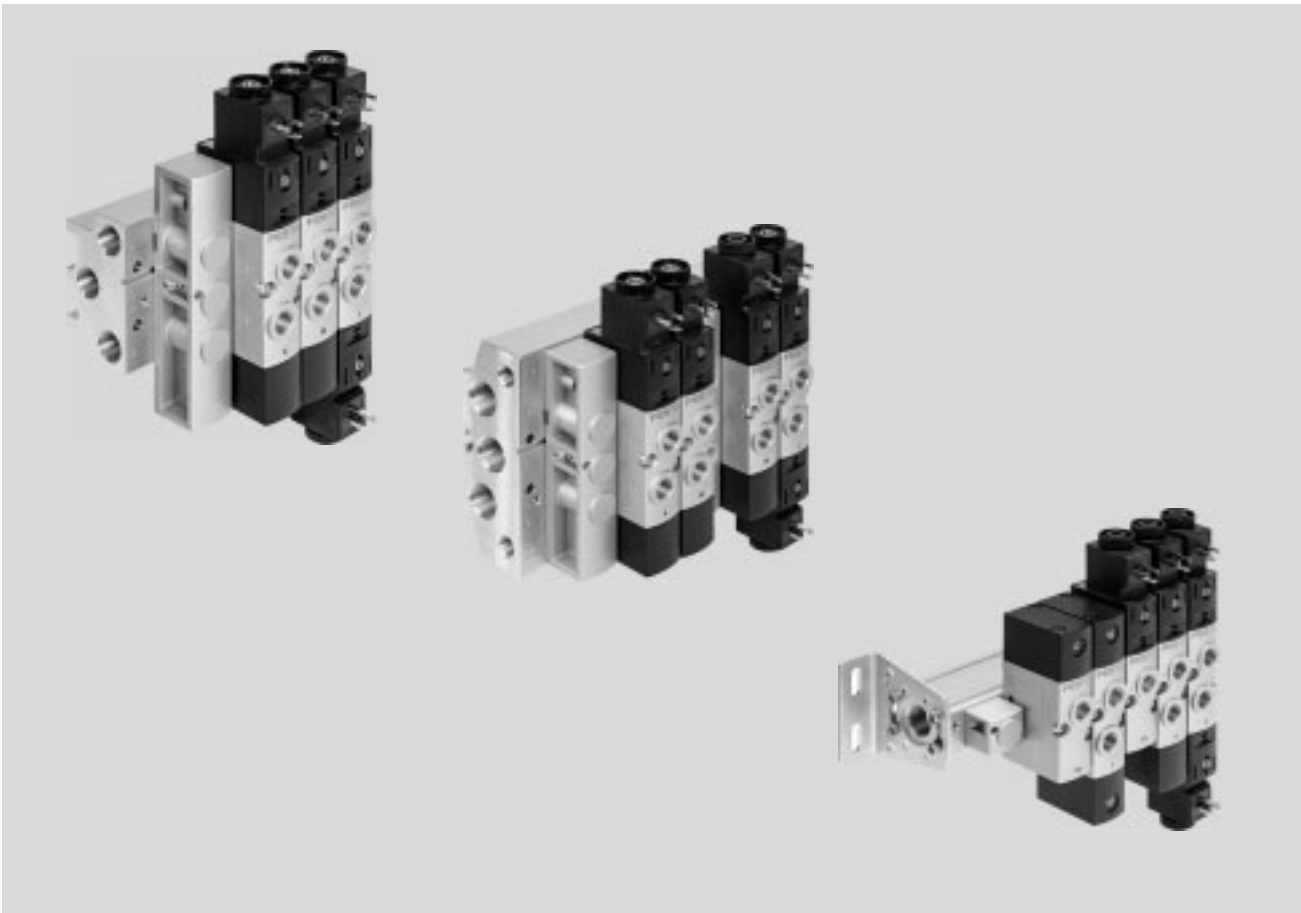


# Pneumatic valves VUWS/valve manifold VTUS



## Pneumatic valves VUWS/valve manifold VTUS

Key features – Pneumatics



### Innovative

- A reliable, heavy-duty valve with a long service life
- Flow rate up to 2300 l/min
- Low-cost universal valve with no performance limitations
- Wide range of valve functions
- Several sizes

### Versatile

- 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

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

### Valve manifold selection

#### Configurator

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

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

Ordering system for valve manifold VTUS

→ Internet: vtus

#### 2D/3D CAD data

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



New

Size 30

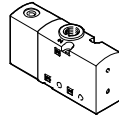
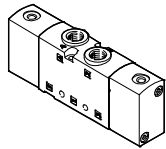
FESTO

# Pneumatic valves VUWS/valve manifold VTUS

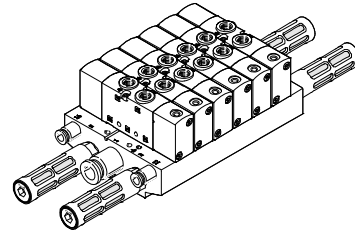
Key features

## Pneumatic valves VUWS

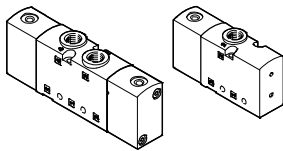
In-line valve VUWS as individual valve



Valve manifold VTUS



## Equipment options



- Size 20 (21 mm)
- Size 25 (26.5 mm)
- Size 30 (31 mm)
- 3/2-, 5/2- and 5/3-way valves
- In-line valves

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. Pneumatic valves VUWS have a sturdy design that enables them to be used in harsh environments.

Pneumatic valves VUWS are extremely well suited for controlling cylinders or compressed air networks for easy clamping and locking processes in semi-automatic assembly and manufacturing.

## Valve functions

3/2-way valve, normal position open, monostable:

- External pneumatic spring connection (M32U-E)
- Reset via pneumatic/mechanical spring
- Direction of flow reversible with return via mechanical spring or external pneumatic spring connection
- Dual-pressure operation possible
- If the external pneumatic spring connection is used as signal input, the result is a dominant bistable valve

3/2-way valve, normal position closed, monostable:

- External pneumatic spring connection (M32C-E)
- Reset via pneumatic/mechanical spring
- Direction of flow reversible with return via mechanical spring or external pneumatic spring connection
- Dual-pressure operation possible
- If the external pneumatic spring connection is used as signal input, the result is a dominant bistable valve

5/2-way valve, monostable:

- External pneumatic spring connection (M52-E)
- Reset via pneumatic/mechanical spring
- Direction of flow reversible with return via mechanical spring or external pneumatic spring connection

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

- Direction of flow reversible
- Reset via mechanical spring

5/2-way valve, bistable:

- Direction of flow reversible
- Can also be used as 3/2-way valve by closing one outlet port

## 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 a valve manifold with 16 valve positions)

## Design

### Valve replacement

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

This means that the valves can be easily replaced.

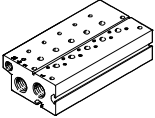
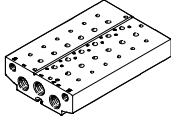
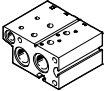
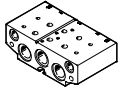
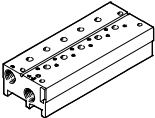
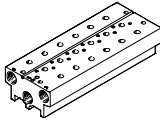
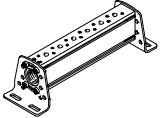
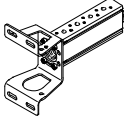

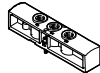

### Extension

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

remain unchanged. For the standard manifold block, extension modules with 2 valve positions are available.

# Pneumatic valves VUWS/valve manifold VTUS

Key features

<b>Standard manifold block</b> For 3/2-way valves		<b>For 5/2- and 5/3-way valves</b>	
	<ul style="list-style-type: none"> <li>• Connection: Size 20: G3/8 Size 25: G1/2 Size 30: G3/4</li> <li>• Maximum 10 valve positions</li> </ul>		<ul style="list-style-type: none"> <li>• Connection: Size 20: G3/8 Size 25: G1/2 Size 30: G3/4</li> <li>• Maximum 10 valve positions</li> </ul>
<b>Extension for standard manifold block</b> For 3/2-way valves		<b>For 5/2- and 5/3-way valves</b>	
	<ul style="list-style-type: none"> <li>• Connection: Size 20: G3/8 Size 25: G1/2 Size 30: G3/4</li> <li>• Maximum two valve positions</li> </ul>		<ul style="list-style-type: none"> <li>• Connection: Size 20: G3/8 Size 25: G1/2 Size 30: G3/4</li> <li>• Maximum two valve positions</li> </ul>
<b>Compact manifold block</b> For 3/2-way valves		<b>For 5/2- and 5/3-way valves</b>	
	<ul style="list-style-type: none"> <li>• Connection: Size 20: G1/4 Size 25: G3/8 Size 30: G1/2</li> <li>• Maximum 10 valve positions</li> </ul>		<ul style="list-style-type: none"> <li>• Connection: Size 20: G1/4 Size 25: G3/8 Size 30: G1/2</li> <li>• Maximum 10 valve positions</li> </ul>
<b>Supply manifold</b> Mounting on both sides		<b>Mounting on one side</b>	
	<ul style="list-style-type: none"> <li>• Connection: Size 20: G3/8 Size 25: G1/2 Size 30: G3/4</li> <li>• Maximum 10 valve positions</li> </ul>		<ul style="list-style-type: none"> <li>• Connection: Size 20: G3/8 Size 25: G1/2 Size 30: G3/4</li> <li>• Maximum 4 valve positions</li> </ul>
<b>Blanking plate for unused valve position</b> 	For covering unused valve positions	<b>Supply plate</b> 	For additional air supply and exhaust via a valve position
<b>Separator for pressure zones</b> 	For creating pressure zones (maximum 9 pressure zones permitted)		

 - Note

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

# Pneumatic valves VUWS/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.

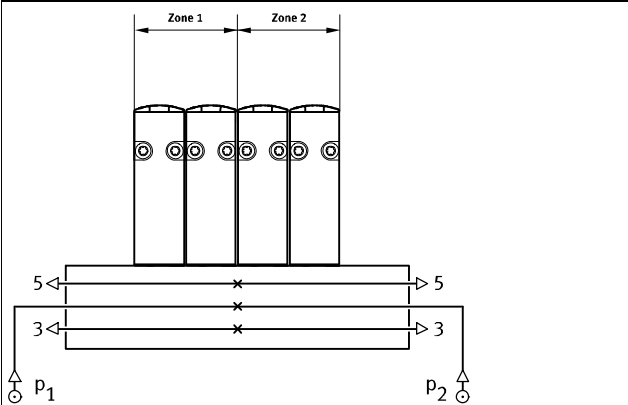
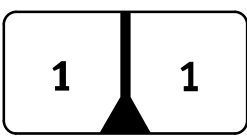
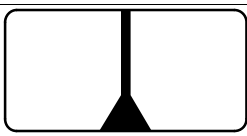
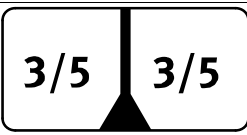
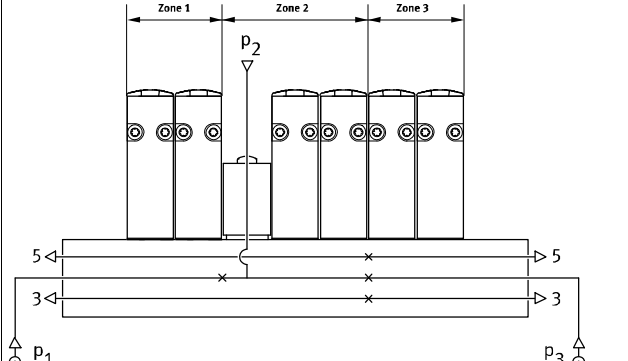
A pressure zone is created by isolating the internal ducts between the valve positions by means of an appropriate separator.

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

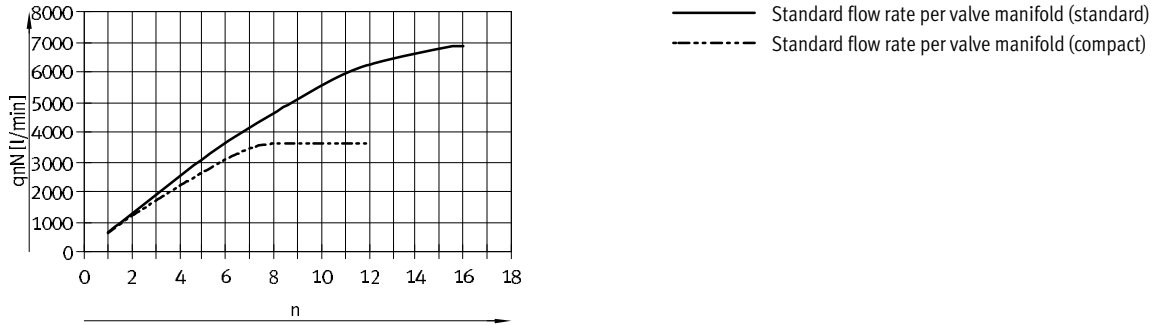
Duct separation	Description
	<p>The pressure zones can be freely configured with the VTUS. The following duct separations are possible:</p> <ul style="list-style-type: none"> <li>• Duct 1 closed </li> <li>• Duct 1/3/5 closed </li> <li>• Duct 3/5 closed </li> </ul>
	<p>The number of pressure zones with 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 2 valve positions between 2 separators. In the case of a maximum extension of 16 valve positions, a maximum of 9 pressure zones can be created.</p>

# Pneumatic valves VUWS/valve manifold VTUS

Key features – Pneumatics

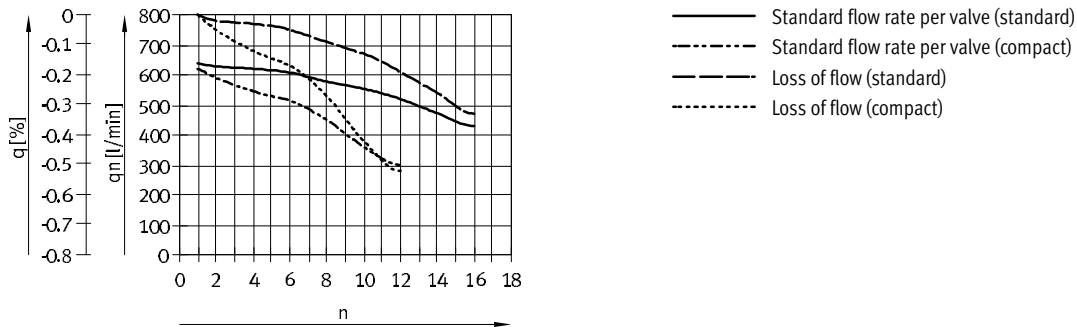
## Standard nominal flow rate $q_{nN}$ , with several valves $n$ switched simultaneously, size 20

For 3/2-way valves, valve manifold



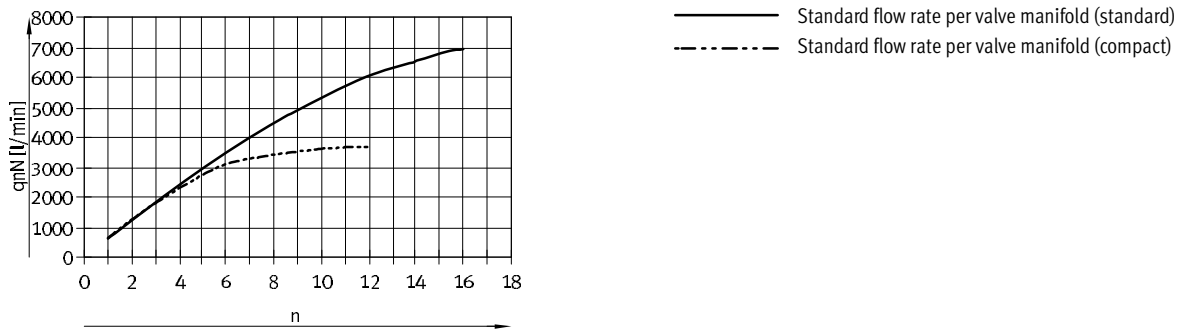
## Standard nominal flow rate $q_n$ , with several valves $n$ switched in parallel, size 20

For 3/2-way valves, individual valve



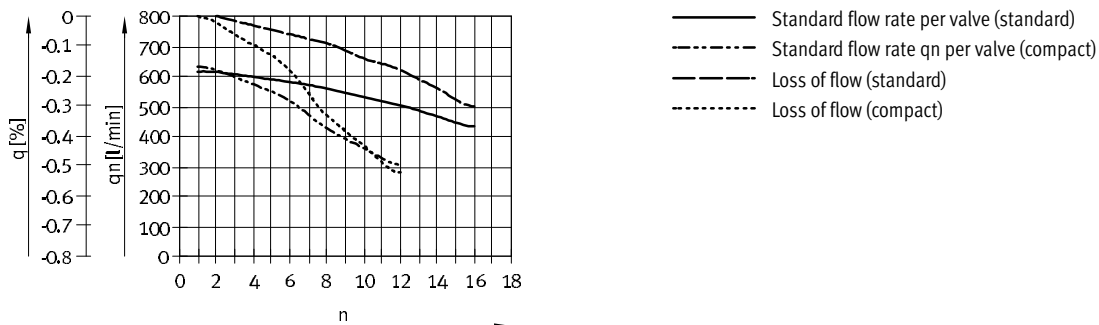
## Standard nominal flow rate $q_{nN}$ , with several valves $n$ switched in parallel, size 20

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



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

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

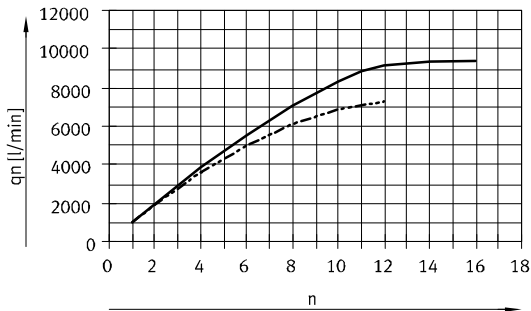


# Pneumatic valves VUWS/valve manifold VTUS

Key features – Pneumatics

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

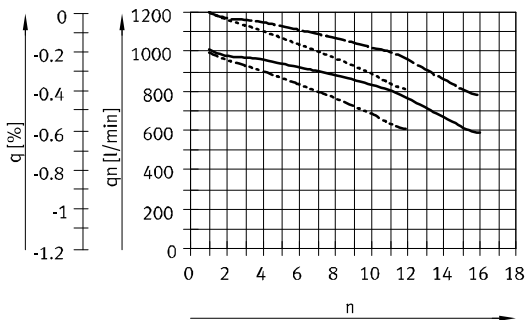
For 3/2-way valves, valve manifold



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

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

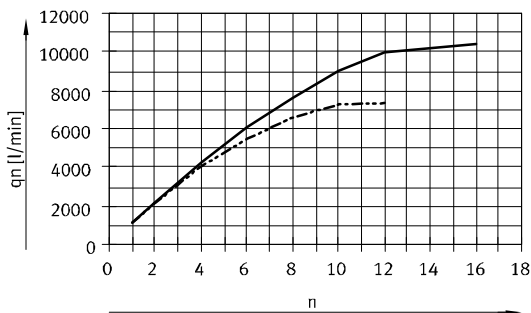
For 3/2-way valves, individual valve



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

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

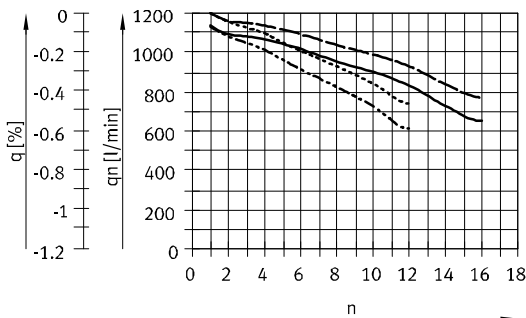
For 5/2- and 5/3-way valves, valve manifold



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

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

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



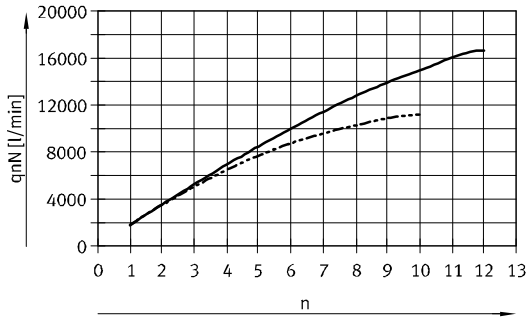
- Standard flow rate per valve (standard)
- - - Standard flow rate  $q_n$  per valve (compact)
- · - Loss of flow (standard)
- · · Loss of flow (compact)

# Pneumatic valves VUWS/valve manifold VTUS

Key features – Pneumatics

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

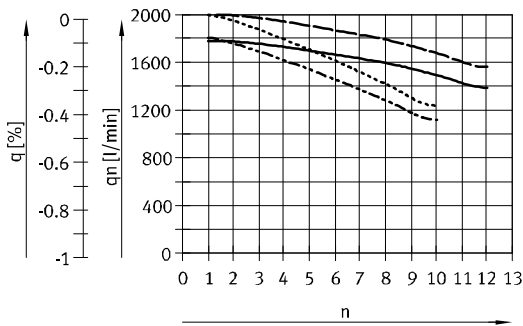
For 3/2-way valves, valve manifold



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

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

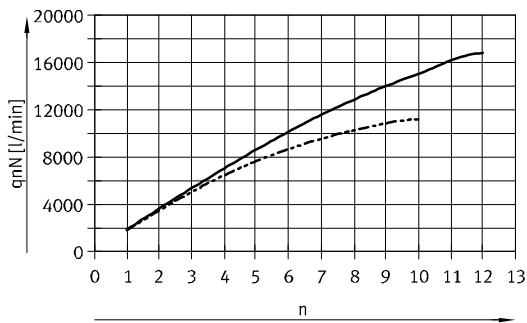
For 3/2-way valves, individual valve



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

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

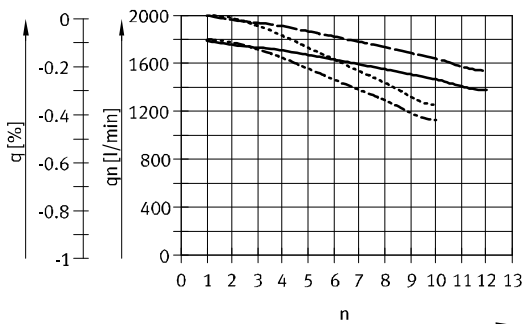
For 5/2- and 5/3-way valves, valve manifold



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

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

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



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



# Pneumatic valves VUWS/valve manifold VTUS

Key features – Assembly

## Mounting the valve manifold

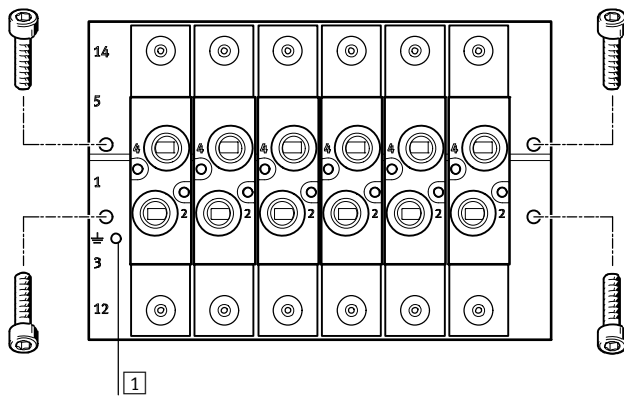
Sturdy valve manifold owing to:

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

 Note

Use the thread M4 (M5 for size 30) provided on the manifold block for earthing the valve manifold.

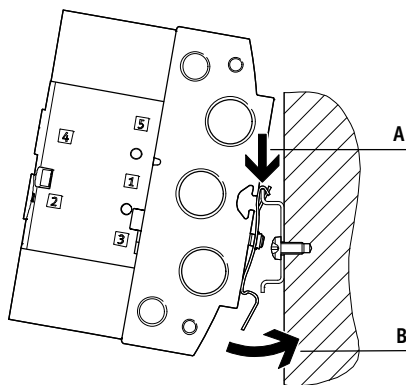
## Wall mounting



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

 Note

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

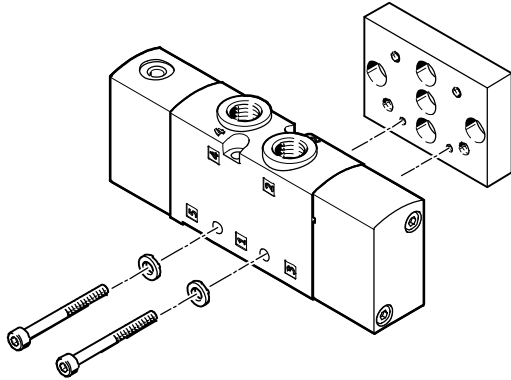
## Pneumatic valves VUWS/valve manifold VTUS

Key features – Assembly

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### Mounting individual valve VUWS

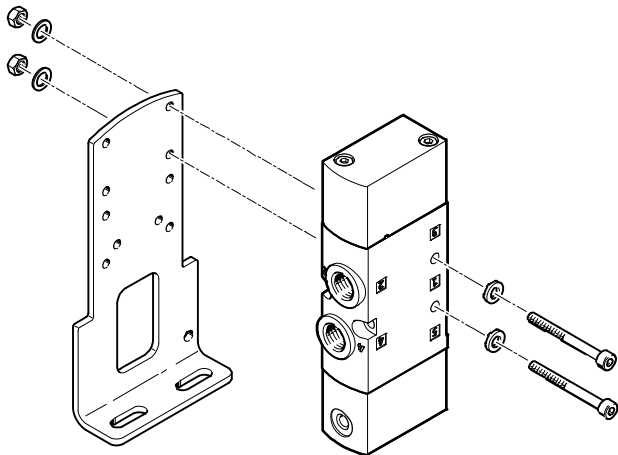
#### Wall mounting



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

The screw set required is included with the wall mounting VAME-B10-20-W. The wall mounting VAME-B10-20-W can be used for sizes 20, 25 and 30.

#### Foot mounting



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

The screw set required is included with the foot mounting VAME-B10-...-A.

 Note

Further mounting options for foot mounting VAME-B10-...-A  
➔ Technical data – Pneumatic valves, dimensions

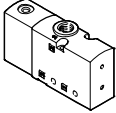
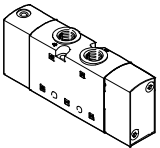
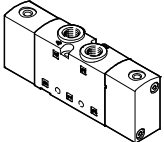


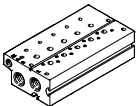

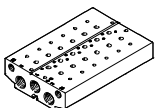
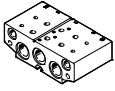
**New**  
Size 30

**FESTO**

# Pneumatic valves VUWS/valve manifold VTUS

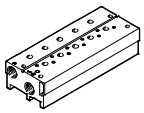
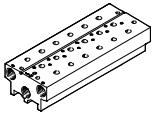
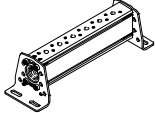
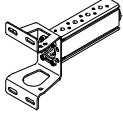
Product range overview

Design	Size	Working port	Order code for valves and flow rate [l/min]							→ Page/ Internet
			M32C	M32U	M52	B52	P53C	P53E	P53U	
<b>3/2-way valve</b>										
	20	G1/8	700	700	-	-	-	-	-	39
	25	G1/4	1000	1000	-	-	-	-	-	47
	30	G3/8	2300	2300	-	-	-	-	-	55
<b>5/2-way valve</b>										
	20	G1/8	-	-	700	700	-	-	-	39
	25	G1/4	-	-	1300	1300	-	-	-	47
	30	G3/8	-	-	2300	2300	-	-	-	55
<b>5/3-way valve</b>										
	20	G1/8	-	-	-	-	700	600	600	39
	25	G1/4	-	-	-	-	1200	1000	1000	47
	30	G3/8	-	-	-	-	2000	1600	1600	55

Design	Size	Description	→ Page/ Internet	
<b>Manifold block for 3/2-way valves, standard</b>				
	20	VABM-B10-20E-G38- ... -P3	Connection G3/8	65
	25	VABM-B10-25E-G12- ... -P3	Connection G1/2	78
	30	VABM-B10-30E-G34- ... -P3	Connection G3/4	91
<b>Manifold block extension module for 3/2-way valves, standard</b>				
	20	VABM-B10-20EEE-G38- ... -P3	Connection G3/8	65
	25	VABM-B10-25EEE-G12- ... -P3	Connection G1/2	78
	30	VABM-B10-30EEE-G34- ... -P3	Connection G3/4	91
<b>Manifold block for 5/2- and 5/3-way valves, standard</b>				
	20	VABM-B10-20E-G38- ...	Connection G3/8	65
	25	VABM-B10-25E-G12- ...	Connection G1/2	78
	30	VABM-B10-30E-G34- ...	Connection G3/4	91
<b>Manifold block extension module for 5/2- and 5/3-way valves, standard</b>				
	20	VABM-B10-20EEE-G38- ...	Connection G3/8	65
	25	VABM-B10-25EEE-G12- ...	Connection G1/2	78
	30	VABM-B10-30EEE-G34- ...	Connection G3/4	91

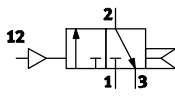
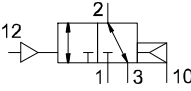
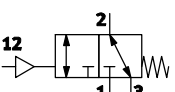
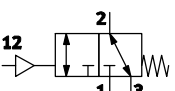
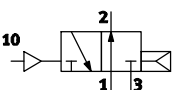
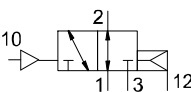
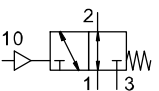
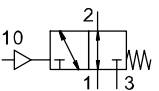
## Pneumatic valves VUWS/valve manifold VTUS

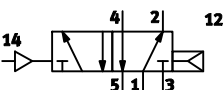
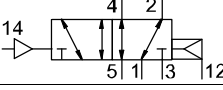
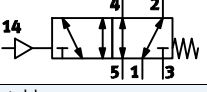
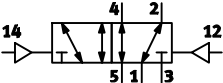
Product range overview

Design	Size	Description	→ Page/ Internet	
<b>Manifold block for 3/2-way valves, compact</b>				
	20	VABM-B10-20S-G14- ...-P3	Connection G1/4	65
	25	VABM-B10-25S-G38- ...-P3	Connection G3/8	78
	30	VABM-B10-30S-G12- ...-P3	Connection G1/2	91
<b>Manifold block for 5/2- and 5/3-way valves, compact</b>				
	20	VABM-B10-20S-G14- ...	Connection G1/4	65
	25	VABM-B10-25S-G38- ...	Connection G3/8	78
	30	VABM-B10-30S-G12- ...	Connection G1/2	91
<b>Supply manifold, for mounting on both sides</b>				
	20	VABM-B10-20-G38- ... -P53	Connection G3/8	66
	25	VABM-B10-25-G12- ... -P53	Connection G1/2	79
	30	VABM-B10-30-G34- ... -P53	Connection G3/4	92
<b>Supply manifold, for mounting on one side</b>				
	20	VABM-B10-20-G38- ... -P53-E	Connection G3/8	66
	25	VABM-B10-25-G12- ... -P53-E	Connection G1/2	79
	30	VABM-B10-30-G34- ... -P53-E	Connection G3/4	92

# Pneumatic valves VUWS

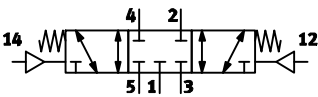
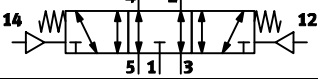
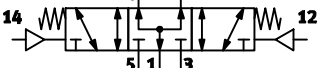
Valve function

3/2-way valves			
Order code for valves	Circuit symbol	Size	Description
3/2-way valves, NC, monostable			
M32C-A		20 25 30	<ul style="list-style-type: none"> <li>• Normally closed</li> <li>• Internal pneumatic spring supply</li> <li>• Direction of flow: not reversible</li> <li>• Reset: pneumatic spring</li> </ul>
M32C-E		20 25 30	<ul style="list-style-type: none"> <li>• Normally closed</li> <li>• External pneumatic spring supply</li> <li>• Direction of flow: reversible</li> <li>• Reset: pneumatic spring</li> </ul>
M32C-M		20	<ul style="list-style-type: none"> <li>• Normally closed</li> <li>• Direction of flow: reversible</li> <li>• Reset: mechanical spring, supported internally by pneumatic spring</li> </ul>
M32C-M		25 30	<ul style="list-style-type: none"> <li>• Normally closed</li> <li>• Direction of flow: reversible</li> <li>• Reset: mechanical spring</li> </ul>
3/2-way valve, NO, monostable			
M32U-A		20 25 30	<ul style="list-style-type: none"> <li>• Normally open</li> <li>• Internal pneumatic spring supply</li> <li>• Direction of flow: not reversible</li> <li>• Reset: pneumatic spring</li> </ul>
M32U-E		20 25 30	<ul style="list-style-type: none"> <li>• Normally open</li> <li>• External pneumatic spring supply</li> <li>• Direction of flow: reversible</li> <li>• Reset: pneumatic spring</li> </ul>
M32U-M		20	<ul style="list-style-type: none"> <li>• Normally open</li> <li>• Direction of flow: reversible</li> <li>• Reset: mechanical spring, supported internally by pneumatic spring</li> </ul>
M32U-M		25 30	<ul style="list-style-type: none"> <li>• Normally open</li> <li>• Direction of flow: reversible</li> <li>• Reset: mechanical spring</li> </ul>

5/2-way valves			
Order code for valves	Circuit symbol	Size	Description
5/2-way valve, monostable			
M52-A		20 25 30	<ul style="list-style-type: none"> <li>• Internal pneumatic spring supply</li> <li>• Direction of flow: not reversible</li> <li>• Reset: pneumatic spring</li> </ul>
M52-E		20 25 30	<ul style="list-style-type: none"> <li>• External pneumatic spring supply</li> <li>• Direction of flow: reversible</li> <li>• Reset: pneumatic spring</li> </ul>
M52-M		20 25 30	<ul style="list-style-type: none"> <li>• Direction of flow: reversible</li> <li>• Reset: mechanical spring</li> </ul>
5/2-way valve, bistable			
B52		20 25 30	<ul style="list-style-type: none"> <li>• Direction of flow: reversible</li> </ul>

## Pneumatic valves VUWS

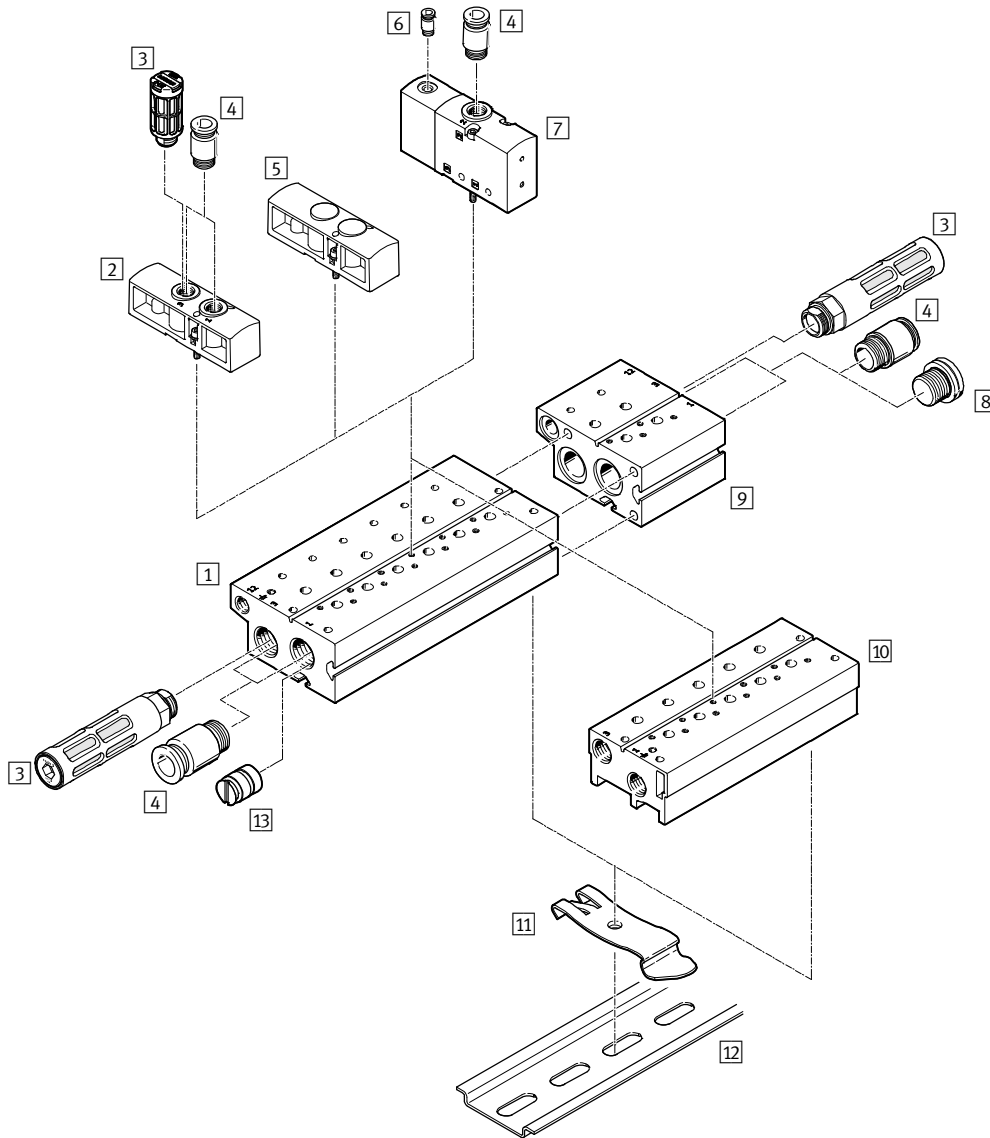
Valve function

5/3-way valves			
Order code for valves	Circuit symbol	Size	Description
5/3-way valve, mid-position closed			
P53C		20 25 30	<ul style="list-style-type: none"> <li>Direction of flow: reversible</li> </ul>
5/3-way valve, mid-position exhausted			
P53E		20 25 30	<ul style="list-style-type: none"> <li>Direction of flow: reversible</li> </ul>
5/3-way valve, mid-position pressurised			
P53U		20 25 30	<ul style="list-style-type: none"> <li>Direction of flow: reversible</li> </ul>

# Pneumatic valves VUWS/valve manifold VTUS

Peripherals overview

## Manifold block for 3/2-way valves

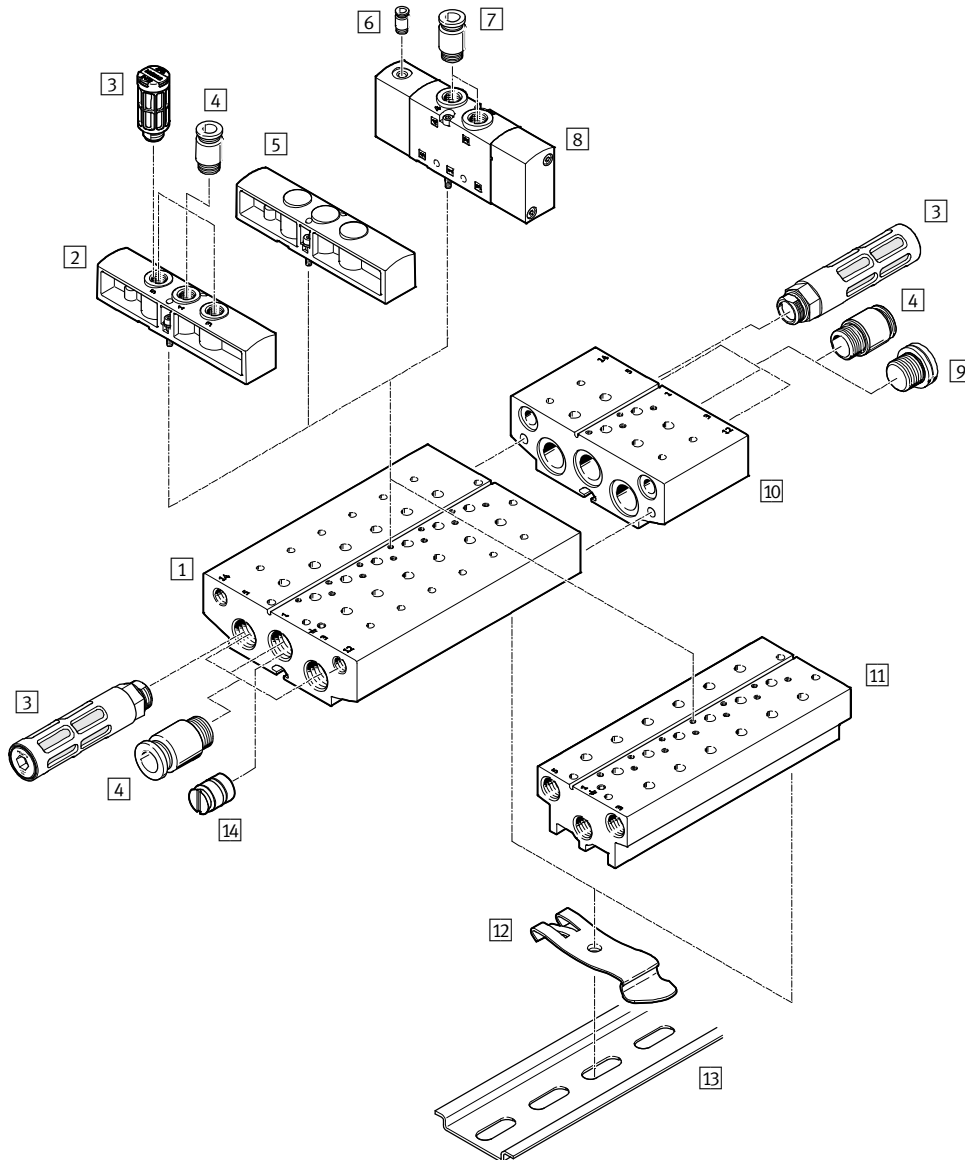


Accessories		
Description	Brief description	→ Page/Internet
1 Standard manifold block	For 3/2-way valves	65, 78, 91
2 Supply plate	For 3/2-way valves	67, 80, 93
3 Silencer	For exhaust ports (3)	69, 82, 95
4 Push-in fitting	For supply/exhaust ports (1, 3)	40, 48, 56
5 Blanking plate	VABB-B10-...	67, 80, 93
6 Push-in fitting	M5 for pilot air port	40, 48, 56
7 Pneumatic valve	3/2-way valve	39, 47, 55
8 Blanking plug	For supply/exhaust ports (1, 3)	69, 82, 95
9 Standard manifold block extension module	For 3/2-way valves	65, 78, 91
10 Compact manifold block	For 3/2-way valves	65, 78, 91
11 H-rail mounting	For mounting on standard H-rails	69, 82, 95
12 Standard H-rail	Mounting rail to EN 60715	-
13 Separator	For creating pressure zones (in duct 1 and/or 3)	69, 82, 95

# Pneumatic valves VUWS/valve manifold VTUS

Peripherals overview

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



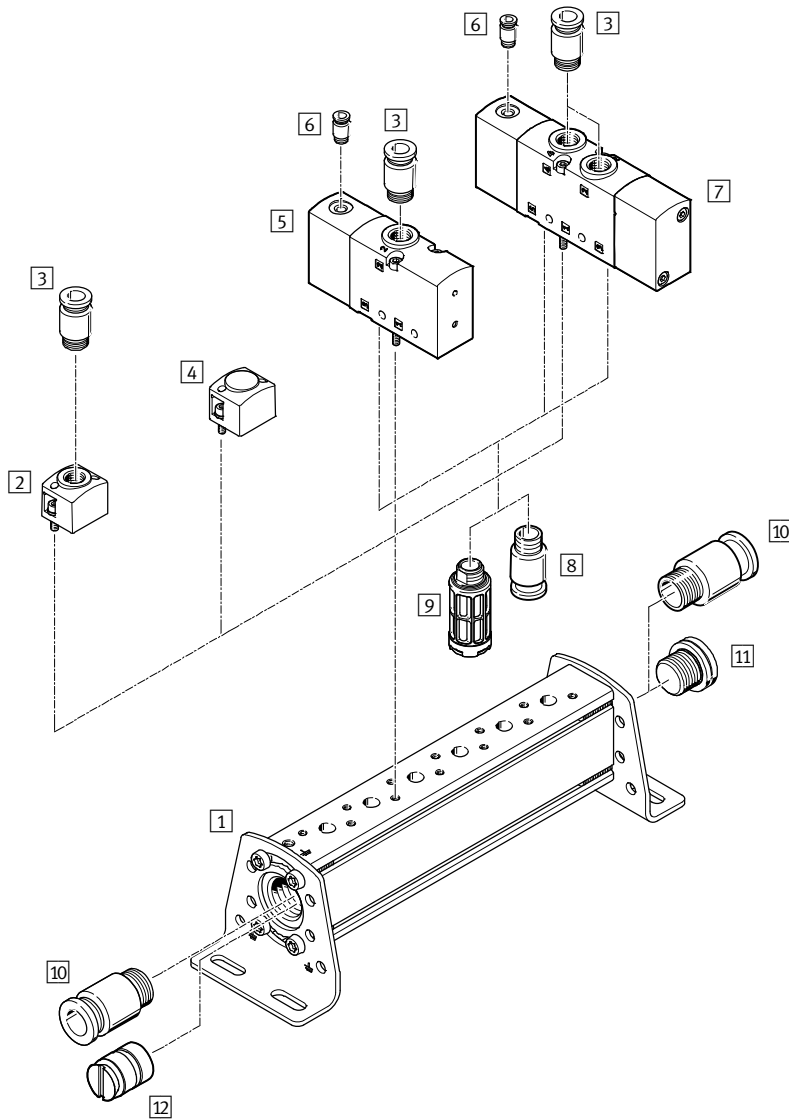
Accessories			
Description	Brief description	→ Page/Internet	
1	Standard manifold block	For 5/2- and 5/3-way valves	65, 78, 91
2	Supply plate	For 5/2- and 5/3-way valves	67, 80, 93
3	Silencer	For exhaust ports (5 and/or 3)	69, 82, 95
4	Push-in fitting	For supply/exhaust ports (1, 3, 5)	40, 48, 56
5	Blanking plate	VABB-B10-...	67, 80, 93
6	Push-in fitting	M5 for pilot air port	40, 48, 56
7	Push-in fitting	For working ports (2, 4)	40, 48, 56
8	Pneumatic valve	5/2-way, 5/3-way valve	39, 47, 55
9	Blanking plug	For supply/exhaust ports (1, 3, 5)	69, 82, 95
10	Standard manifold block extension module	For 5/2- and 5/3-way valves	65, 78, 91
11	Compact manifold block	For 5/2- and 5/3-way valves	65, 78, 91
12	H-rail mounting	For mounting on standard H-rails	69, 82, 95
13	Standard H-rail	Mounting rail to EN 60715	-
14	Separator	For creating pressure zones (in ducts 1, 3, 5)	69, 82, 95



# Pneumatic valves VUWS/valve manifold VTUS

Peripherals overview

## Supply manifold for mounting on both sides

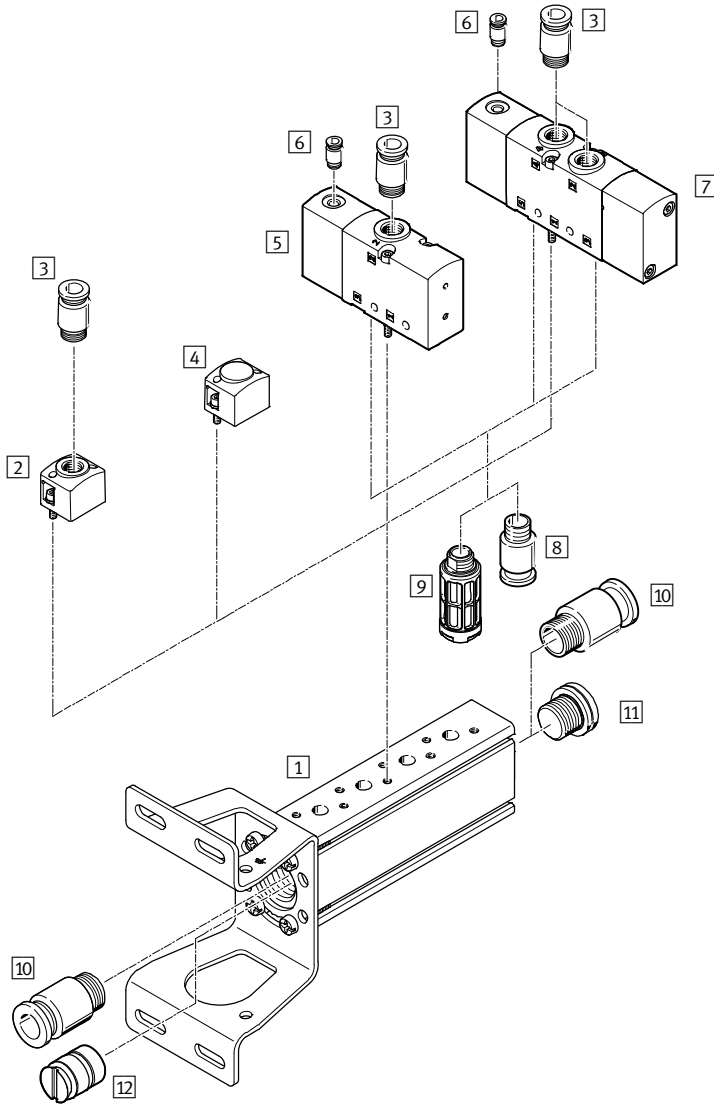


Accessories		
Description	Brief description	→ Page/Internet
1	Supply manifold For mounting on both sides Mounting bracket can be adjusted through $\pm 30^\circ$	66, 79, 92
2	Supply plate For supplying air (1) (VABF-B10-...-P1...)	67, 80, 93
3	Push-in fitting For supplying air (1) for working ports (2, 4)	40, 48, 56
4	Blanking plate VABB-B10-...	67, 80, 93
5	Pneumatic valve 3/2-way valve	39, 47, 55
6	Push-in fitting M5 for pilot air port	40, 48, 56
7	Pneumatic valve 5/2-way, 5/3-way valve	39, 47, 55
8	Push-in fitting For exhaust ports (3, 5)	40, 48, 56
9	Silencer For exhaust ports (3, 5)	69, 82, 95
10	Push-in fitting For supplying air (1)	68, 81, 94
11	Blanking plug For working port (duct 1)	69, 82, 95
12	Separator For creating pressure zones (in duct 1)	69, 82, 95

# Pneumatic valves VUWS/valve manifold VTUS

Peripherals overview



## Supply manifold for mounting on one side



Accessories		
Description	Brief description	→ Page/Internet
1 Supply manifold	For mounting on one side Mounting bracket can be adjusted through $\pm 30^\circ$	66, 79, 92
2 Supply plate	For supplying air (1) (VABF-B10-...-P1...)	67, 80, 93
3 Push-in fitting	For supplying air (1) for working ports (2, 4)	40, 48, 56
4 Blanking plate	VABB-B10-...	67, 80, 93
5 Pneumatic valve	3/2-way valve	39, 47, 55
6 Push-in fitting	M5 for pilot air port	40, 48, 56
7 Pneumatic valve	5/2-way, 5/3-way valve	39, 47, 55
8 Push-in fitting	For exhaust ports (3, 5)	40, 48, 56
9 Silencer	For exhaust ports (3, 5)	69, 82, 95
10 Push-in fitting	For supplying air (1)	68, 81, 94
11 Blanking plug	For working port (duct 1)	69, 82, 95
12 Separator	For creating pressure zones (in duct 1)	69, 82, 95

## Valve manifold VTUS

Technical data – Valve manifold

-  Flow rate
  - Size 20 – up to 700 l/min
  - Size 25 – up to 1300 l/min
  - Size 30 – up to 2300 l/min
  
-  Valve width
  - Size 20 – 21 mm
  - Size 25 – 26.5 mm
  - Size 30 – 31 mm



General technical data		
Valve manifold configuration		Fixed grid
Size 20	[mm]	21
Size 25	[mm]	26.5
Size 30	[mm]	31
Valve design		Piston spool
Reset method		Pneumatic or mechanical spring
Pneumatic spring		Internal or external
Direction of flow		Reversible with restrictions
Suitability for vacuum		Yes
Type of pilot control		Direct
Sealing principle		Soft
Max. no. of valve positions		16 (a maximum of 18 valve positions with extension for standard manifold block)
Max. number of pressure zones		9
Exhaust air function		With flow control
Type of actuation		Pneumatic
Standard nominal flow rate		
Size 20	[qnN]	600...700
Size 25	[qnN]	1000...1300
Size 30	[qnN]	1600...2300
Mounting position		Any
CRC <sup>1)</sup>		2 <sup>1)</sup>
Note on materials		RoHS compliant
Information on materials: seals		HNBR, NBR

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

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		
With external pilot air	[bar]	-0.9 ... +10
With internal pilot air	[bar]	+1.5 ... +10
Pilot pressure	[bar]	1.5 ... 10
Ambient temperature	[°C]	-10 ... +50
Temperature of medium	[°C]	-10 ... +50
Storage temperature	[°C]	-20 ... +60

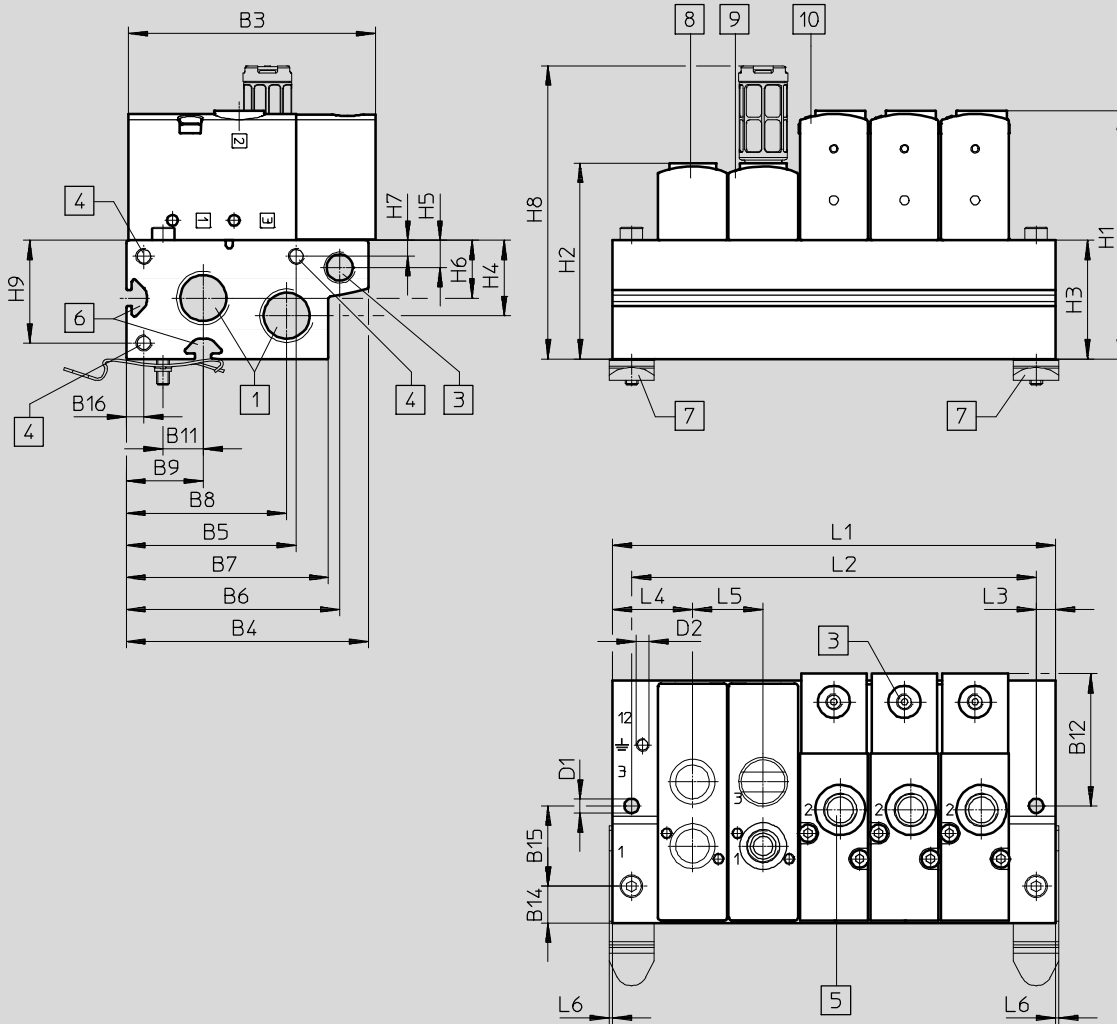
# Valve manifold VTUS

Technical data

## Dimensions

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

With 3/2-way valves, standard manifold rail



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

 Note

Port 12 on the manifold rail (number 3 in the dimensional drawing) is not used when equipped with pneumatic valves.

## Valve manifold VTUS

Technical data

Type	B3	B4	B5	B6	B7	B8	B9	B11	B12	B14	B15	B16
VTUS-20	77	75.5	53	66.5	63	50	24	12.5	41.2	11.5	25	5.5
VTUS-25	92	93	67.5	80.5	78	62	30	16	–	14	32	6
VTUS-30	109.2	108.2	79	93.2	94.7	75.7	36.2	19	55.5	17.2	38	6.5

Type	D1 Ø	D2	H1	H2	H3	H4	H5	H6	H7	H8	H9	L3	L4	L5	L6
VTUS-20	4.5	M4x6.5	77.4	61	37	23.5	8.5	18	5	91.4	32	6	25	22	1
VTUS-25	5.5	M4x9	95.5	71	45	25	9	22	5	123.4	39	6	29.8	27.5	1
VTUS-30	6.3	M5x11	118	91	61	35	9	28.5	6.5	170.1	54.5	7.2	34	32	–

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

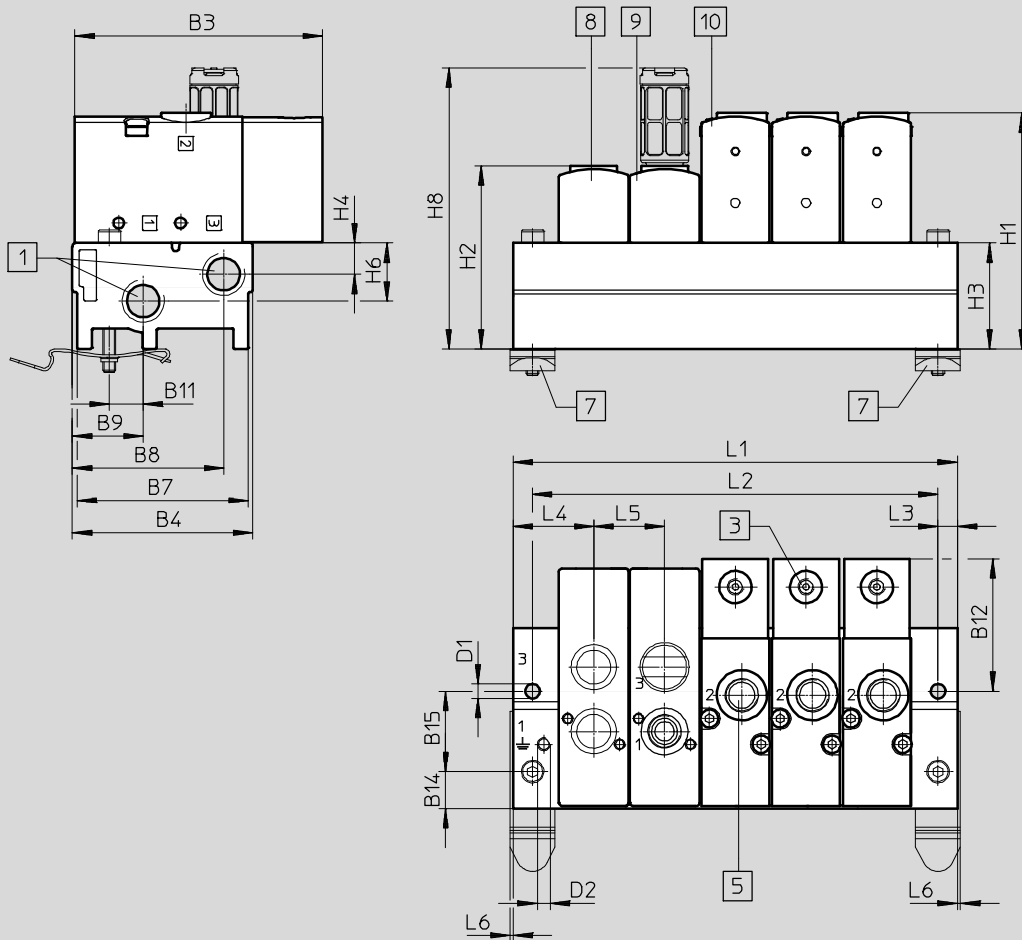
# Valve manifold VTUS

Technical data – Valve manifold

## Dimensions – Valve manifold

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

With 3/2-way valves, compact manifold rail



- 1 Ports 1 and 3 (at both ends):  
G1/4 for VTUS 20  
G3/8 for VTUS 25  
G1/2 for VTUS 30
- 3 Port 10 and 12 on the valve:  
M5 for VTUS 20,  
M5 for VTUS 25,  
G1/8 for VTUS 30

- 5 Port 2:  
G1/8 for VTUS 20  
G1/4 for VTUS 25  
G3/8 for VTUS 30
- 7 H-rail mounting VAME-T-M4 for VTUS 20  
VAME-T-M5 for VTUS 25  
VAME-T-M6 for VTUS 30

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

- 10 Pneumatic valve, monostable, 3/2

## Valve manifold VTUS

Technical data – Valve manifold

Type	B3	B4	B7	B8	B9	B11	B12	B14	B15
VTUS-20	77	56.1	53.1	47	22	10.5	41.2	11.5	25
VTUS-25	92	70.3	67.3	58.8	30	16	47	14	32
VTUS-30	109.2	83	80	69.4	36	19	55.5	17	38

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

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

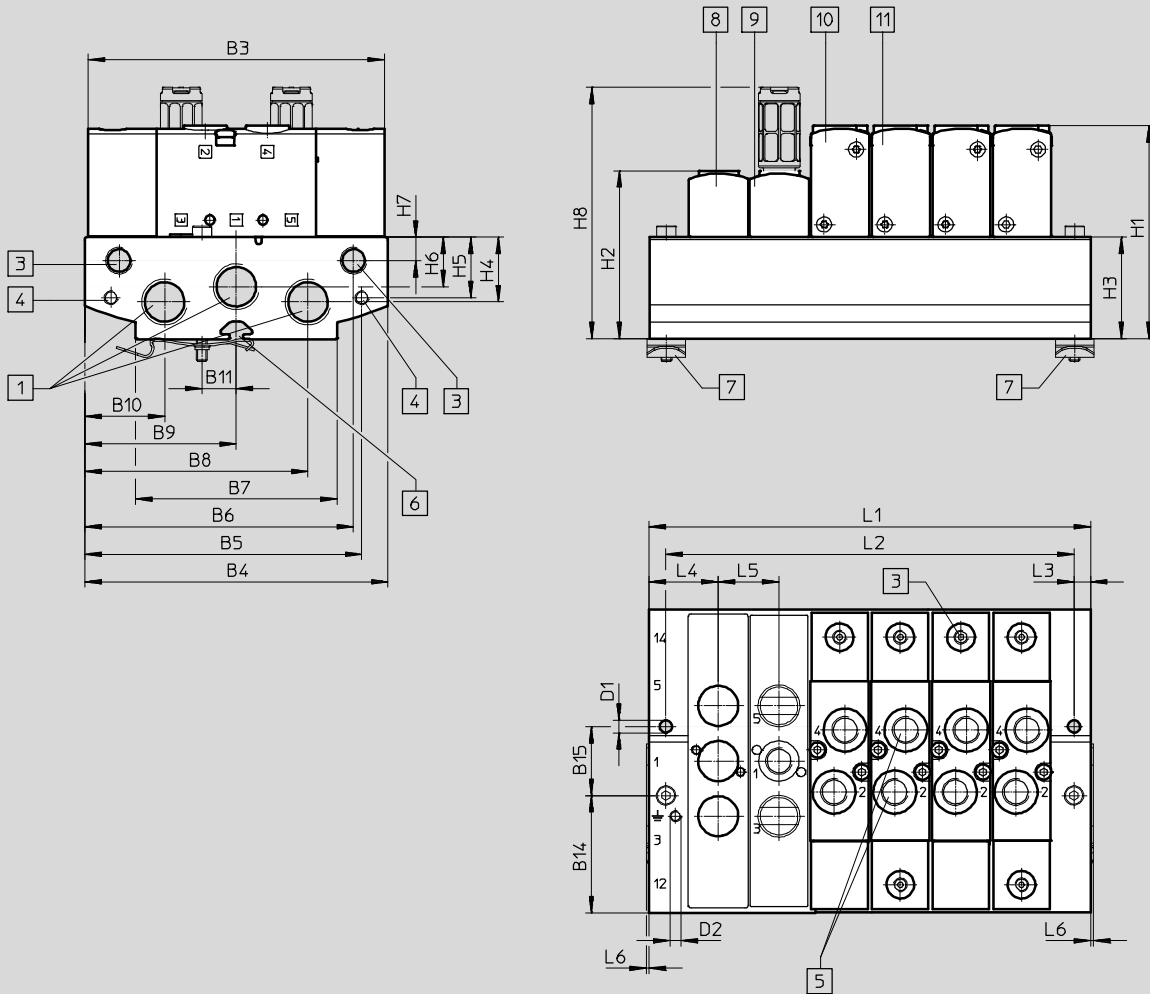
# Valve manifold VTUS

Technical data – Valve manifold

## Dimensions – Valve manifold

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

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



- |   |  |  |   |
|---|--|--|---|
| <p><b>1</b> Ports 1, 3 and 5 (at both ends):<br/>G3/8 for VTUS 20<br/>G1/2 for VTUS 25<br/>G3/4 for VTUS 30</p> <p><b>3</b> Port 12 and 14 on the manifold block at both ends:<br/>G1/8<br/>Port 12 and 14 on the valve:<br/>M5 for VTUS 20,<br/>M5 for VTUS 25,<br/>G1/8 for VTUS 30</p> | <p><b>4</b> Thread for extension module:<br/>M5x15.5 for VTUS 20<br/>M5x18 for VTUS 25<br/>M5x18 for VTUS 30</p> <p><b>5</b> Ports 2 and 4: G1/8 for VTUS 20<br/>G1/4 for VTUS 25<br/>G3/8 for VTUS 30</p> | <p><b>6</b> Profile slot IPM-05, system 5</p> <p><b>7</b> H-rail mounting VAME-T-M4 for VTUS 20<br/>VAME-T-M5 for VTUS 25<br/>VAME-T-M6 for VTUS 30</p> <p><b>8</b> Blanking plate</p> | <p><b>9</b> Supply plate, ports 1, 3 and 5:<br/>G1/8 for VTUS 20<br/>G1/4 for VTUS 25<br/>G3/8 for VTUS 30</p> <p><b>10</b> Pneumatic valve, monostable, 5/2</p> <p><b>11</b> Pneumatic valve, bistable, 5/2, 5/3</p> |
|---|--|--|---|

 Note

Port 12 on the manifold rail (number 3 in the dimensional drawing) is not used when equipped with pneumatic valves.



## Valve manifold VTUS

Technical data – Valve manifold

Type	B3	B4	B5	B6	B7	B8	B9	B10	B11	B14	B15
VTUS-20	107.4	110	100.5	97.5	73	81	55	29	12.5	42.5	25
VTUS-25	126	126	119	113.5	80	95	63	31	16	47	32
VTUS-30	149	144	137	129	104	111.5	72	32.5	19	53	38

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

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

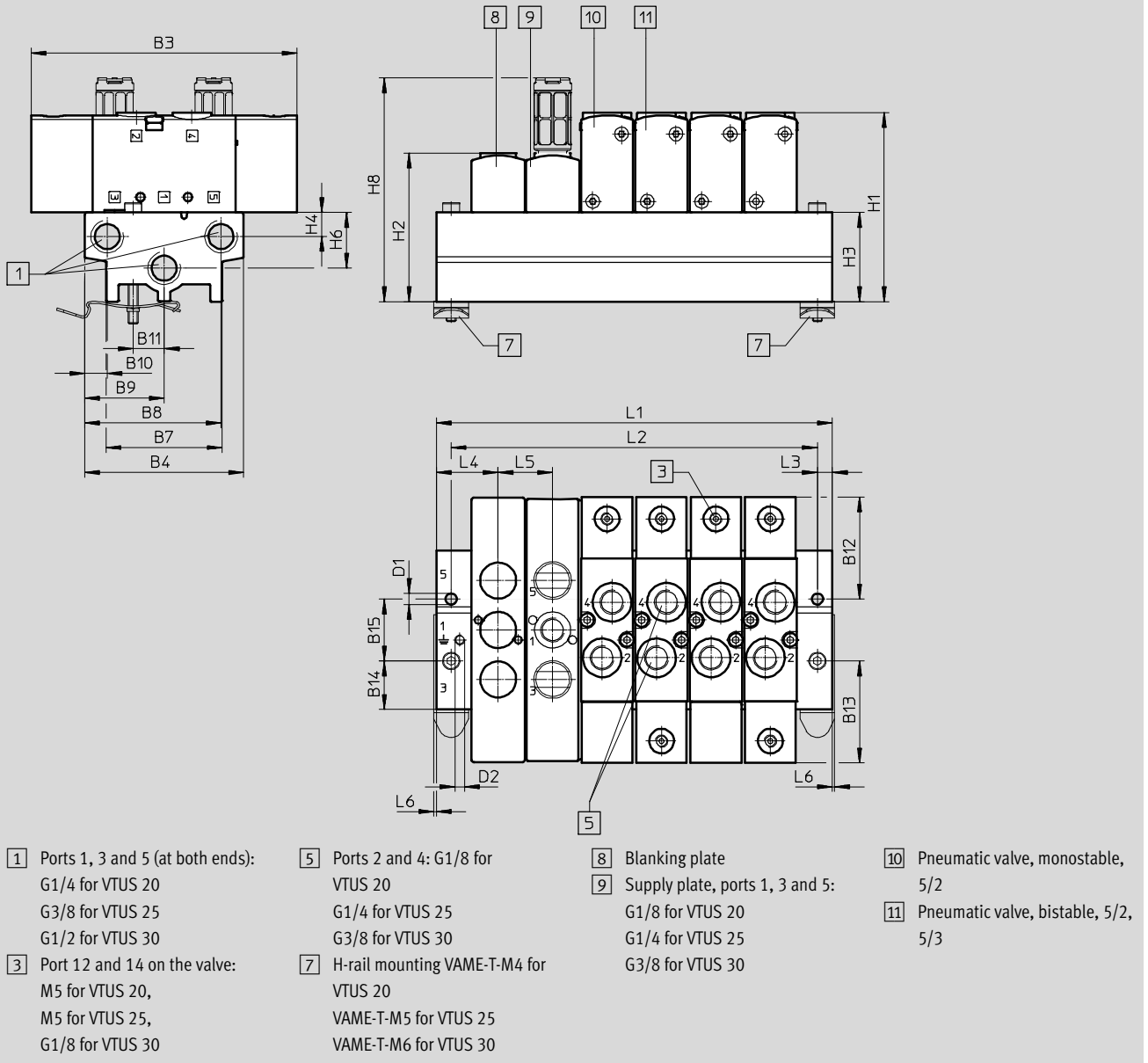
# Valve manifold VTUS

Technical data – Valve manifold

## Dimensions – Valve manifold

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

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



## Valve manifold VTUS

Technical data – Valve manifold

Type	B3	B4	B7	B8	B9	B10	B11	B12	B13	B14	B15
VTUS-20	107.4	64.2	47	55.1	32.1	9.1	12.5	41.2	41.2	19.6	25
VTUS-25	126	80.5	61.5	69	40.3	11.5	16	47	47	24.3	32
VTUS-30	149	94	77	80.4	47	13.6	19	55.5	55.5	28	38

Type	D1 Ø	D2	H1	H2	H3	H4	H6	H8	L3	L4	L5	L6
VTUS-20	4.5	M4x6.5	76.4	60	36	9.7	22.5	90.4	6	25	22	1
VTUS-25	5.5	M4x9	84.5	60	34	13.5	20	112.1	6	29.8	27.5	1
VTUS-30	6.3	M5x11	99.5	72.5	42.5	17.5	26	151.6	7.5	34	32	-

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

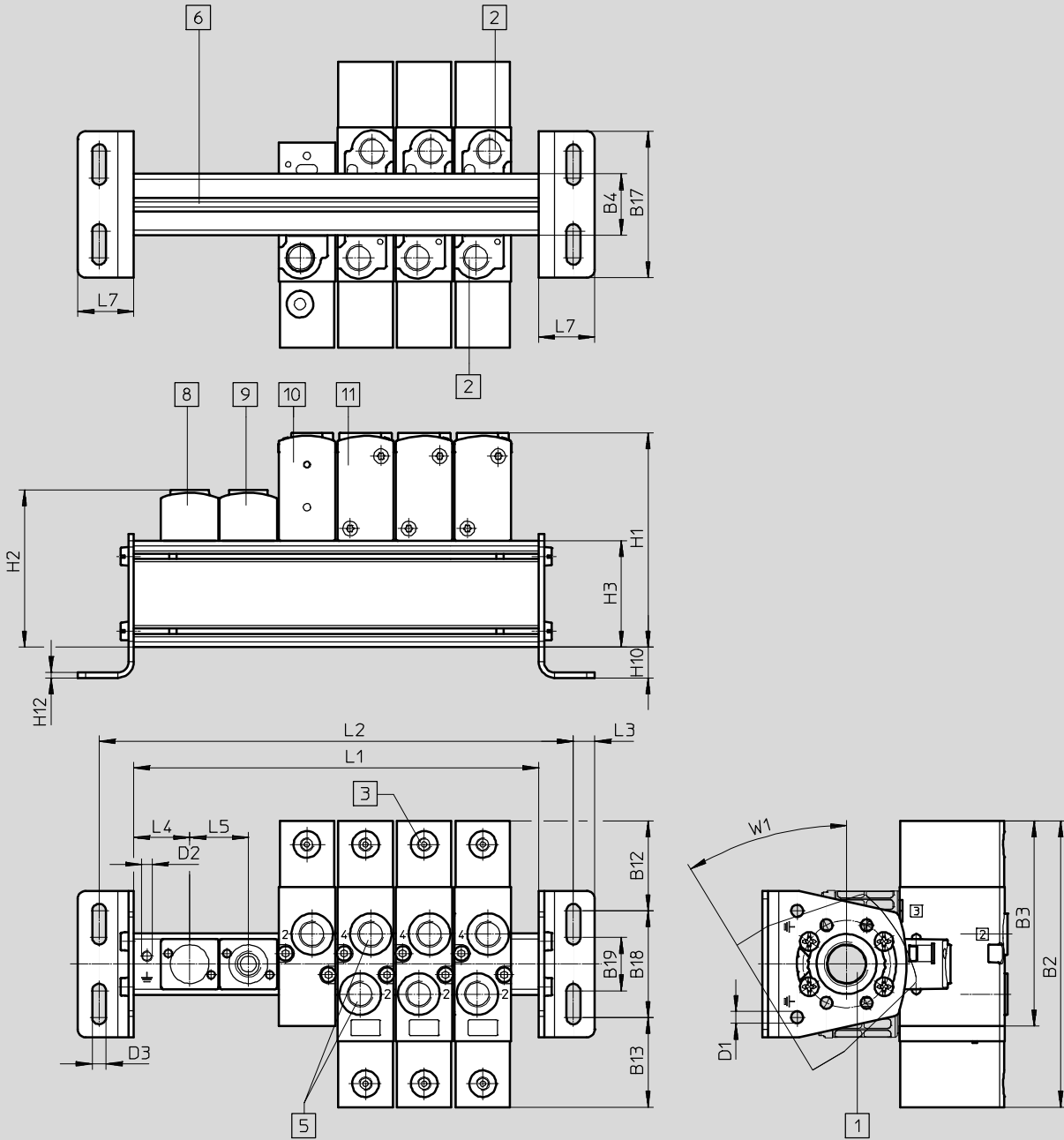
# Valve manifold VTUS

Technical data – Valve manifold


## Dimensions – Supply manifold

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

Mounting on both sides



- |   |   |   |
|---|---|---|
| <p><b>1</b> Port 1 (at both ends):<br/>G3/8 for VTUS 20<br/>G1/2 for VTUS 25<br/>G3/4 for VTUS 30</p> <p><b>2</b> Ports 3 and 5: G1/8 for VTUS 20<br/>G1/4 for VTUS 25<br/>G3/8 for VTUS 30</p> | <p><b>3</b> Port 12 and 14 on the valve:<br/>M5 for VTUS 20,<br/>M5 for VTUS 25,<br/>G1/8 for VTUS 30</p> <p><b>5</b> Ports 2 and 4:<br/>G1/8 for VTUS 20<br/>G1/4 for VTUS 25<br/>G3/8 for VTUS 30</p> <p><b>6</b> Profile slot IPM-05, system 5</p> | <p><b>8</b> Blanking plate</p> <p><b>9</b> Supply plate, port 1:<br/>G1/8 for VTUS 20,<br/>G1/4 for VTUS 25<br/>G3/8 for VTUS 30</p> <p><b>10</b> Pneumatic valve, monostable,<br/>3/2</p> <p><b>11</b> Pneumatic valve, bistable, 5/2,<br/>5/3</p> |
|---|---|---|

 Note  
Mounting bracket can be adjusted through ±30°

## Valve manifold VTUS

Technical data – Valve manifold

Type	B2	B3	B4	B12	B13	B17	B18	B19	H1	H2	H3
VTUS-20	107.4	77	23	33.7	33.7	55	40	20	80.4	59	40
VTUS-25	126	92	28.7	33	33	75	60	35	102.5	78	52
VTUS-30	149	109.2	34	42	42	85	65	35	122	95	65

Type	H10	H12	D1 Ø	D2	D3 Ø	L3	L4	L5	L7	W1
VTUS-20	11.5	2	4.5	M4x6.5	5.2	9	21	22	22	31.3°
VTUS-25	18	2	4.5	M4x9	6.6	8	29.8	27.5	24	30°
VTUS-30	17.5	2.5	5.5	M5x11	8.6	9	34	32	26	28°

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	156.5	174	201.5	229	256.5	284	311.5	339
VTUS-30	L1 [mm]	100	132	164	196	228	260	292	324	356
	L2 [mm]	134	166	198	230	262	294	326	358	390

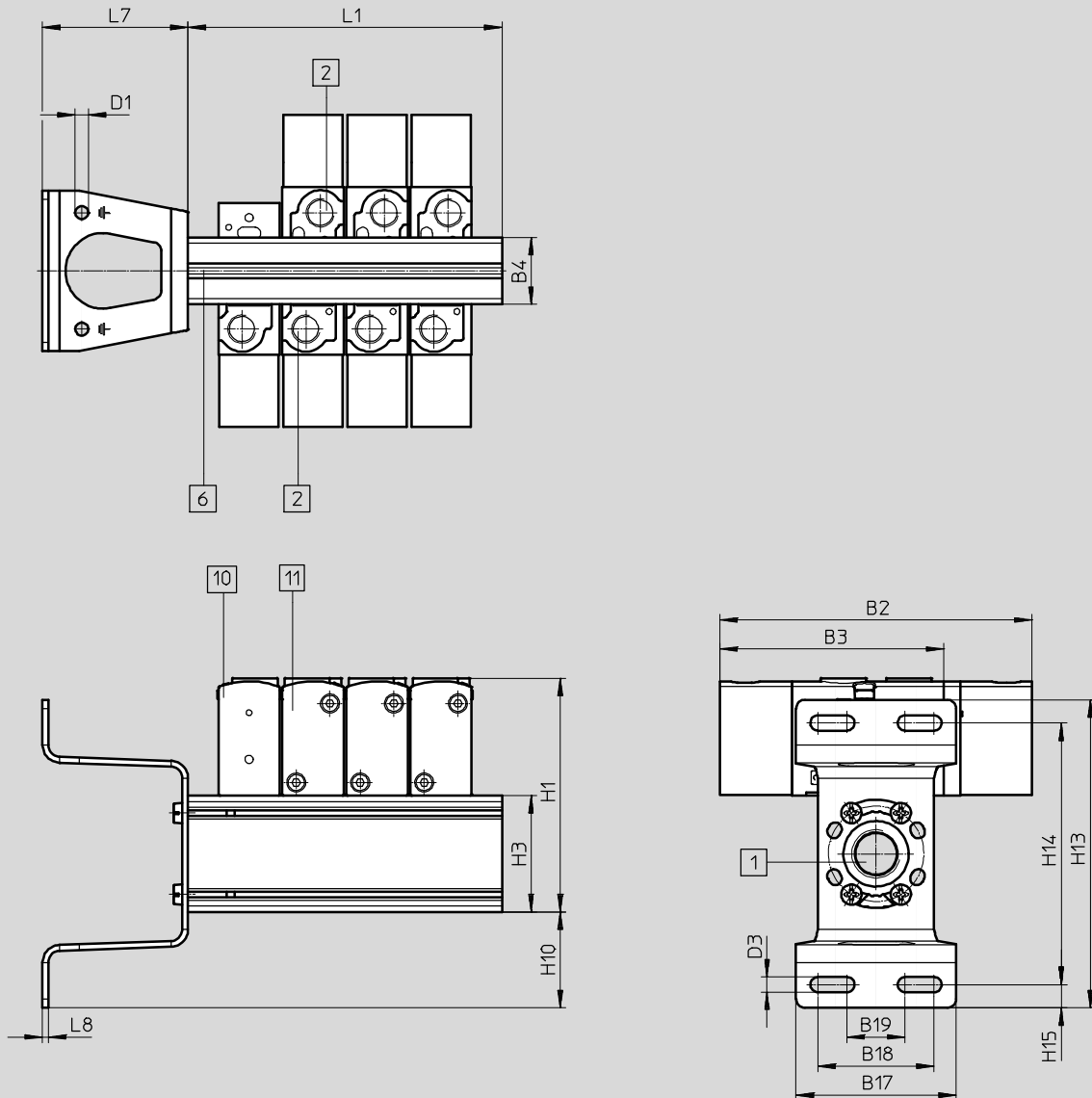
# Valve manifold VTUS

Technical data – Valve manifold

## Dimensions – Supply manifold

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

Mounting on one side




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

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

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

**10** Pneumatic valve, monostable, 5/2

**11** Pneumatic valve, bistable, 5/2, 5/3

 Note  
Mounting bracket can be adjusted through ±30°

## Valve manifold VTUS

Technical data – Valve manifold

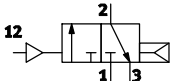
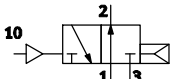
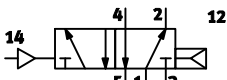
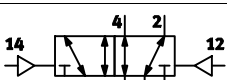
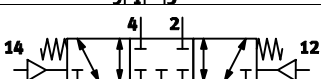
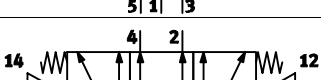
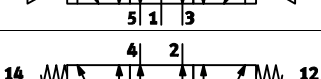
Type	B2	B3	B4	B17	B18	B19
VTUS-20	107.4	77	23	55	40	20
VTUS-25	126	92	28.7	80	60	35
VTUS-30	149	109.2	34	85	65	35

Type	D1 Ø	D3 Ø	H1	H3	H10	H13	H14	H15	L7	L8
VTUS-20	4.5	5.2	80.4	40	33	107	89	8	50	2
VTUS-25	4.5	6.6	102.5	52	38	128	112	8	64	2
VTUS-30	5.5	8.6	122	65	38	146	128	9	74	2.5

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

## Pneumatic valves VUWS

Order code – Pneumatic valves

<b>VUWS</b>	-	<b>L</b>	
<b>Valve design</b>			
In-line, individual valve		<b>L</b>	
<b>Valve width</b>			
21 mm			<b>20</b>
26.5 mm			<b>25</b>
31 mm			<b>30</b>
<b>Valve functions</b>			
			<b>M32C<sup>1)</sup></b>
			<b>M32U<sup>1)</sup></b>
			<b>M52<sup>1)</sup></b>
			<b>B52</b>
			<b>P53C</b>
			<b>P53U</b>
			<b>P53E</b>


1) The circuit diagram is a symbolic representation. In the case of M32C, for example, the order code is possible only in combination with -A, -E, -M.

<b>Exhausting</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>	Thread G 1/8
<b>G14</b>	Thread G 1/4
<b>G38</b>	Thread G 3/8
<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>Q12</b>	Push-in connector 12 mm
<b>Reset method</b>	
-	None (for bistable valves)
<b>A</b>	Pneumatic spring
<b>E</b>	Pneumatic spring, external
<b>M</b>	Mechanical spring



## Pneumatic valves VUWS

Technical data – Pneumatic valves, size 20

 - Flow rate  
Up to 700 l/min

 - Valve width  
21 mm



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						
Pneumatic spring supply	Internal or external (external: identified by E in type code)						
Type of piloting	Direct						
Manual override (MO)	None						
Direction of flow	Reversible with restrictions (not reversible: identified by A in type code)						
Non-overlapping	Yes						
Sealing principle	Soft						
Type of mounting	Optionally via through-holes <sup>1)</sup> or on manifold rail						
Standard nominal flow rate [qnN]	700		700		700	600	600
Through-holes (nominal width) [mm]	5.7		5.7		5.0	4.8	4.5
Product weight [g]	145		178/190 <sup>2)</sup>		211	207	207
Type of actuation	Pneumatic						
Mounting position	Any						
Exhaust air function	With flow control						
Venting hole	Not ducted						
Pneumatic connection 1, 2, 4, 3, 5	G1/8						
Pneumatic spring connection 12/14, 10	M5						

1) If several valves are to be screwed together via the through-holes to form a block, a minimum distance of 0.3 mm must be ensured by placing spacer discs between them.

2) With external pneumatic spring: 190 g, with internal pneumatic spring or mechanical spring: 178 g

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 (supported internally by pneumatic spring)	Pneumatic spring
					Mechanical spring (supported internally by pneumatic spring)
Switching times	On	7	10	7	10
	Off	15	28	15	28
	Change-over	–	–	–	–

# Pneumatic valves VUWS

Technical data – Pneumatic valves, size 20

Technical data – 5/2-way valves				
Order code for valves		M52		B52
Stable position		Monostable		Bistable
Reset method		Pneumatic spring	Mechanical spring	–
Switching times	On	13	7	–
	Off	26	39	–
	Change-over	–	–	6

Technical data – 5/3-way valves				
Order code for valves		P53C	P53U	P53E
Stable position		Monostable		
Reset method		Mechanical spring		
Switching times	On	10	10	10
	Off	44	43	46
	Change-over	26	21	21

Safety characteristics	
Note on forced checking procedure	Min. 1/week
Resistance to shocks	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Vibration resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

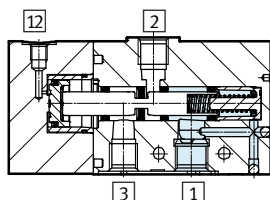
Operating and environmental conditions						
Valve function	M32 ... A M32 ... M	M32C-E M32U-E	M52-A	M52-E M52-M	B52	P53
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)					
Operating pressure [bar]	2.5 ... 10	–0.9 ... +10	2.5 ... 10	–0.9 ... +10	–0.9 ... +10	–0.9 ... +10
Pilot pressure [bar]	2.5 ... 10	2.5 ... 10	2.5 ... 10	2.5 ... 10	1.5 ... 10	2.5 ... 10
Ambient temperature [°C]	–10 ... +60					
Temperature of medium [°C]	–10 ... +60					
Corrosion resistance class 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.

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

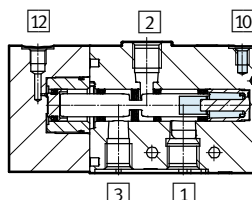
## Special features of pneumatic 3/2-way valves

Reset: mechanical spring



- Internal pneumatic spring
- Faster switch-off time
  - In the case of dual-pressure operation, the higher pressure must always be present at port 1
  - Pressure on port 2 not permitted

Reset: pneumatic spring



- External pneumatic spring
- Can be used as a bistable valve
  - Signal pressure depends on the pressure of the pneumatic spring
  - No impairment of the switching function caused by vacuum
  - Pressure is permitted on port 2

# Pneumatic valves VUWS

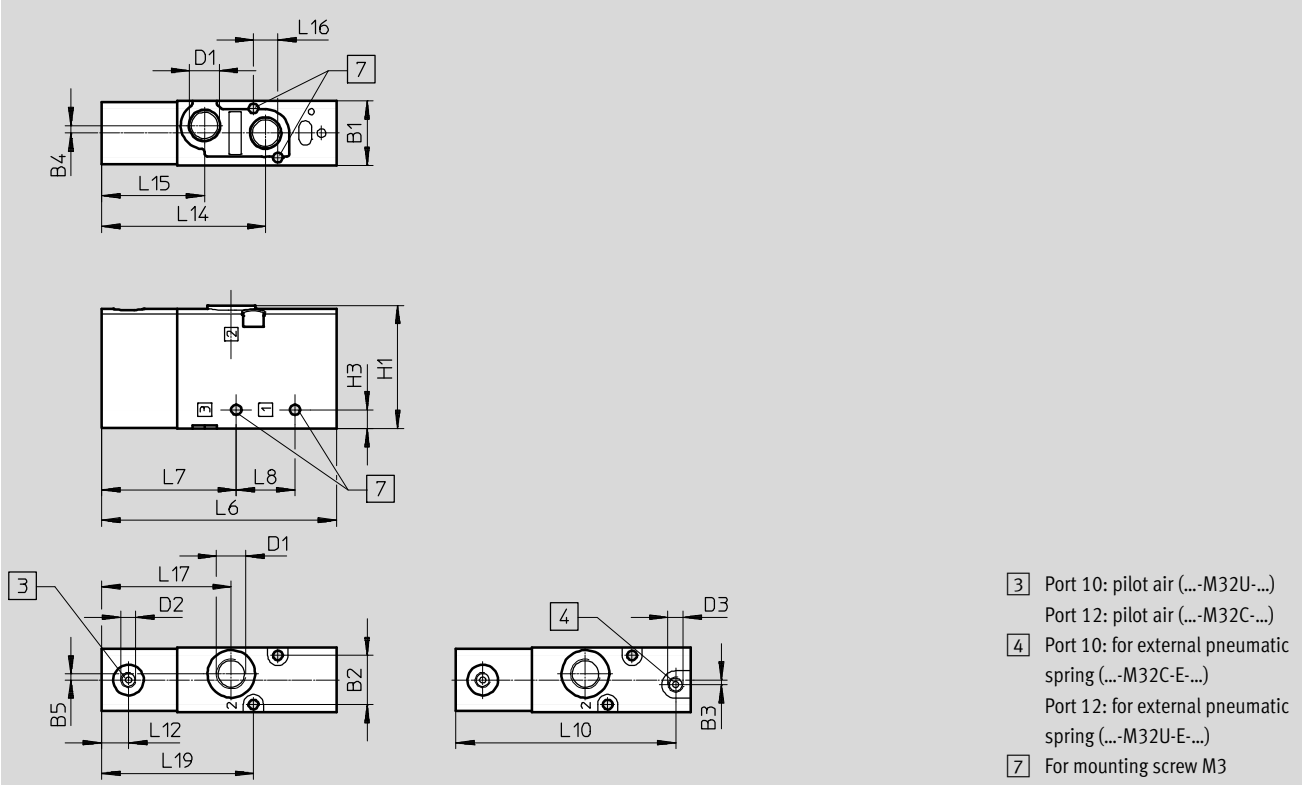
Technical data – Pneumatic valves, size 20

## Dimensions

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

3/2-way valve, normally closed/open

3/2-way valve, normally closed/open, external pilot air



Type	B1	B2	B3	B4	B5	D1	D2	D3	H1	H3
VUWS-L20-M32C-...-G18	21.1	16.1	-	2.5	2	G1/8	M5	-	40.4	6.2
VUWS-L20-M32U-...-G18			-					-		
VUWS-L20-M32C-E-...-G18			1.5					M5		
VUWS-L20-M32U-E-...-G18			1.5					M5		

Type	L6	L7	L8	L10	L12	L14	L15	L16	L17	L19
VUWS-L20-M32C-...-G18	77	44.1	19.2	-	8.8	53.7	33.7	8	42.5	49.7
VUWS-L20-M32U-...-G18				-						
VUWS-L20-M32C-E-...-G18				72						
VUWS-L20-M32U-E-...-G18				72						

# Pneumatic valves VUWS

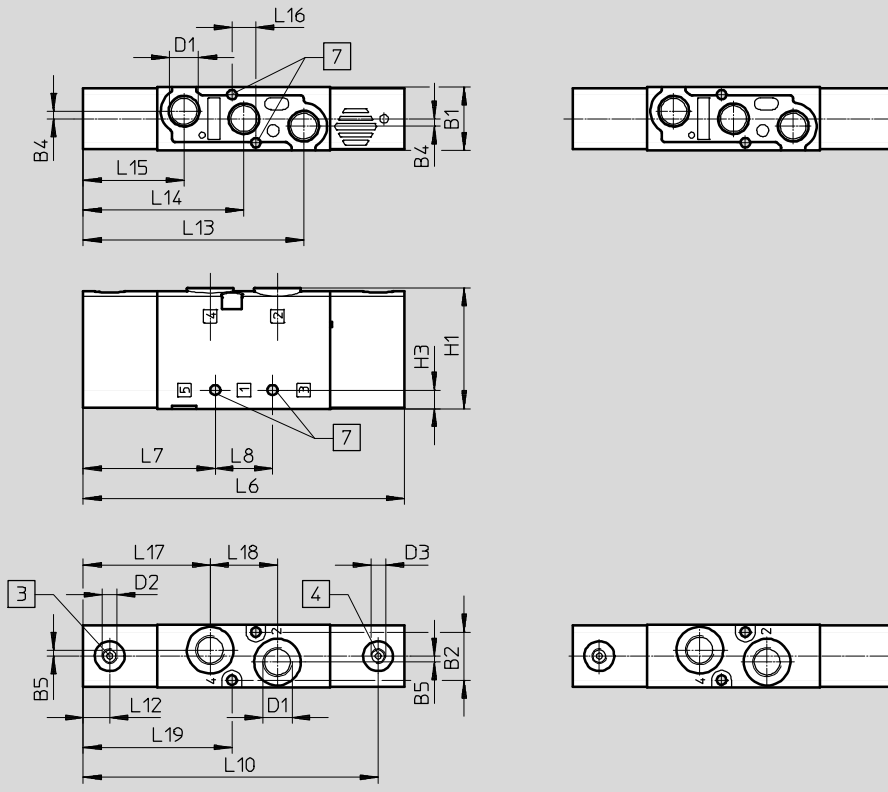
Technical data – Pneumatic valves, size 20

**Dimensions**

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

5/2-way valve, monostable, external pilot air

5/2-way valve, monostable



- 3 Port 14: pilot air (-M52-...)
- 4 Port 12: pilot air/(pneumatic spring) (...-M52-E-...)
- 7 For mounting screw M3

Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L20-M52-...-G18	21.1	16.1	2.5	2	G1/8	M5	-	40.4	6.2
VUWS-L20-M52-E-G18					G1/8	M5	M5		

Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-L20-M52-...-G18	107.4	44.1	19.2	-	8.8	73.7	53.7	33.7	8	42.5	22.5	49.7
VUWS-L20-M52-E-G18				98.6								

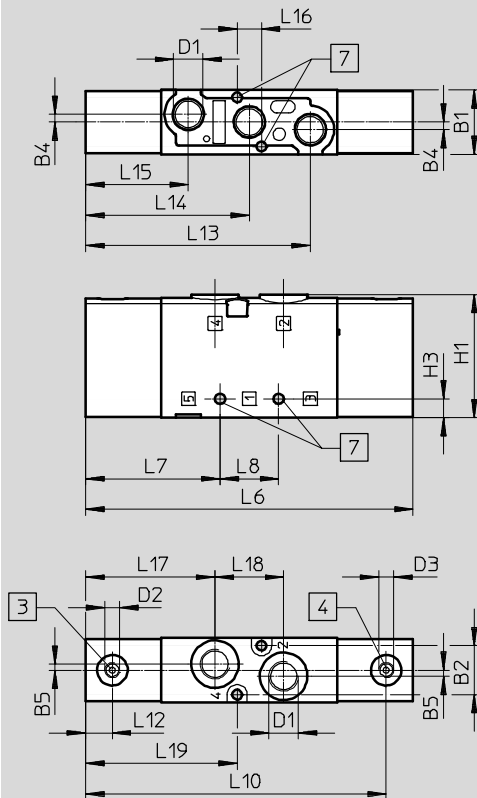
# Pneumatic valves VUWS

Technical data – Pneumatic valves, size 20

## Dimensions

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

5/2-way valve, bistable, 5/3-way valve



- 3 Port 14: pilot air
- 4 Port 12: pilot air
- 7 For mounting screw M3

Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L20-P53-...-M-G18	21.1	16.1	2.5	2	G1/8	M5	M5	40.4	6.2
VUWS-L20-B52-G18									

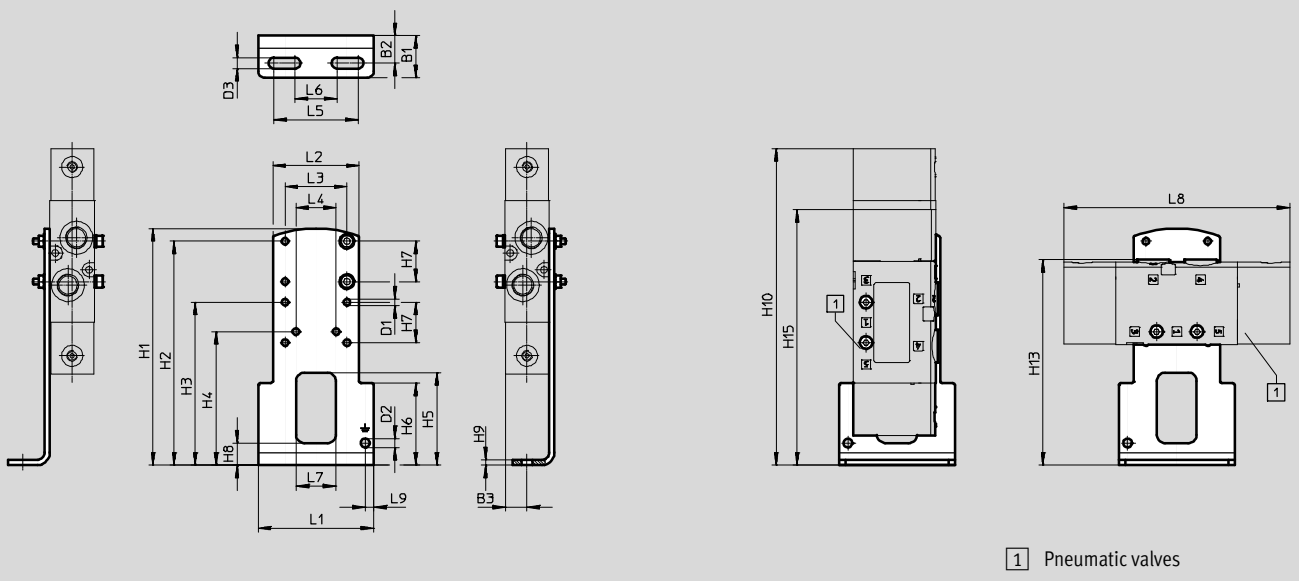
Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-L20-P53-...-M-G18	107.4	44.1	19.2	98.6	8.8	73.7	53.7	33.7	8	42.5	22.5	49.7
VUWS-L20-B52-G18												

# Pneumatic valves VUWS

Technical data – Pneumatic valves, size 20

## Dimensions

### Foot mounting

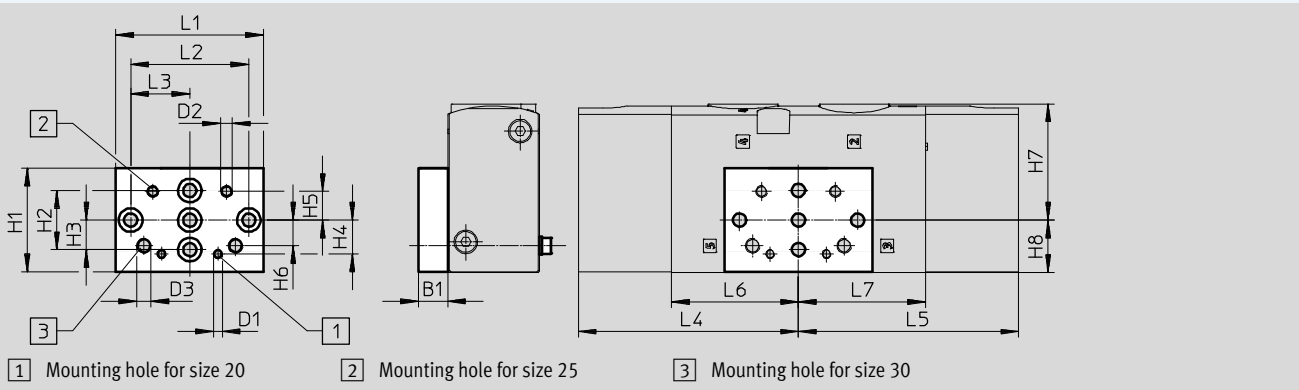


Type		B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	H1	H2	H3	H4	H5	H6	H7	H8
VAME-B10-20-A	VUWS-L20-B52/P53	20	13.1	10.6	3.2	4.2	5.2	112.5	106.5	77.5	63.5	44	39	19.2	10.5
	VUWS-L20-M52														
	VUWS-L20-M32														

Type		H9	H10	H11	H12	L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-20-A	VUWS-L20-B52/P53	2.5	150.6	97.7	121.6	55	41	29.4	19.2	40	20	19	107.4	4.1
	VUWS-L20-M52		150.6										107.4	
	VUWS-L20-M32		120.2										77	

## Dimensions

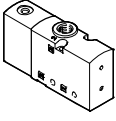
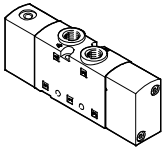
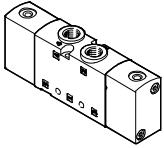
### Wall mounting



Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6	H7	H8	L1	L2	L3	L4	L5	L6	L7	
VAME-B10-20-W	VUWS-L20-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7	22.7	17.7	50	40	20	53.7	53.7	28.9	28.9	
	VUWS-L20-M52																				
	VUWS-L20-M32																	-			23.3



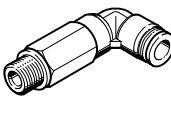
## Pneumatic valves VUWS

Ordering data – Pneumatic valves, size 20

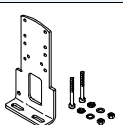
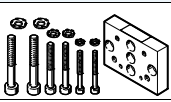
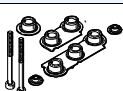
Ordering data – Pneumatic valves				
	Code	Valve function	Part No.	Type
Pneumatic valves				
	3/2-way valve, monostable, closed			
	M32C-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575669	VUWS-L20-M32C-A-G18
	M32C-E	Pneumatic spring return, external pneumatic spring, direction of flow reversible	575670	VUWS-L20-M32C-E-G18
	M32C-M	Mechanical spring return, supported by internal pneumatic spring, direction of flow reversible	575671	VUWS-L20-M32C-M-G18
	3/2-way valve, monostable, open			
	M32U-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575672	VUWS-L20-M32U-A-G18
	5/2-way valve, monostable			
	M52-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575677	VUWS-L20-M52-A-G18
	M52-E	Pneumatic spring return, external pneumatic spring, direction of flow reversible	575678	VUWS-L20-M52-E-G18
	M52-M	Mechanical spring return, direction of flow reversible	575681	VUWS-L20-M52-M-G18
	5/2-way valve, bistable			
	B52	Direction of flow reversible	575684	VUWS-L20-B52-G18
	5/3-way valve			
	P53C	Closed, mechanical spring return, direction of flow reversible	575687	VUWS-L20-P53C-M-G18
	P53E	Exhausted, mechanical spring return, direction of flow reversible	575693	VUWS-L20-P53E-M-G18
	P53U	Pressurised, mechanical spring return, direction of flow reversible	575690	VUWS-L20-P53U-M-G18

# Pneumatic valves VUWS

Accessories – Pneumatic valves, size 20

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 G1/8 for tubing O.D.	4 mm	<b>186106</b>	<b>QS-G1/8-4-I</b>	<b>10</b>
		4 mm	<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>
<b>Angled push-in fitting with external hex</b>					
	Connecting thread G1/8 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>
<b>Angled push-in fitting, long, with external hex</b>					
	Connecting thread G1/8 for tubing O.D.	4 mm	<b>186127</b>	<b>QSL-G1/8-4</b>	<b>10</b>
			<b>133015</b>	<b>QSL-G1/8-4-100</b>	<b>100</b>
		6 mm	<b>186128</b>	<b>QSL-G1/8-6</b>	<b>10</b>
			<b>133016</b>	<b>QSL-G1/8-6-100</b>	<b>100</b>
		8 mm	<b>186130</b>	<b>QSL-G1/8-8</b>	<b>10</b>
			<b>133017</b>	<b>QSL-G1/8-8-100</b>	<b>100</b>


1) Packaging unit

Ordering data			
Description	Weight [g]	Part No.	Type
<b>Foot mounting</b>			
 Set for mounting valves, comprising: • Mounting bracket and • Screw set for mounting	97	<b>576412</b>	<b>VAME-B10-20-A</b>
<b>Wall mounting</b>			
 Set for mounting valves for size 20, 25, 30, comprising: • Wall mounting and • Screw set for mounting	53	<b>576413</b>	<b>VAME-B10-20-W</b>
<b>Assortment of spare parts</b>			
 Set comprising: • Seals and • Screws	10	<b>8026203</b>	<b>VAME-B10-20-MK</b>



# Pneumatic valves VUWS

Technical data – Pneumatic valves, size 25

 - Flow rate  
Up to 1300 l/min

 - Valve width  
26.5 mm



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						
Pneumatic spring supply	Internal or external (external: identified by E in type code)						
Type of pilot control	Direct						
Manual override (MO)	None						
Direction of flow	Reversible with restrictions (not reversible: identified by A in type code)						
Non-overlapping	Yes						
Sealing principle	Soft						
Type of mounting	Optionally via through-holes <sup>1)</sup> or on manifold rail						
Standard nominal flow rate [qnN]	1000	1000	1300	1300	1200	1000	1000
Through-holes (nominal width) [mm]	6.3	6.3	6.9	6.9	6.5	6.3	6.3
Product weight [g]	268	268	330/360 <sup>2)</sup>	363	364	364	364
Type of actuation	Pneumatic						
Mounting position	Any						
Exhaust air function	With flow control						
Venting hole	Not ducted						
Pneumatic connection 1, 2, 4, 3, 5	G1/4						
Pneumatic spring connection 12/14, 10	M5						

1) If several valves are to be screwed together via the through-holes to form a block, a minimum distance of 0.3 mm must be ensured by placing spacer discs between them.  
2) With external pneumatic spring: 360 g, with internal pneumatic spring or mechanical spring: 330 g

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	
Switching times	On	10	10	10
	Off	25	43	25
	Change-over	–	–	–

# Pneumatic valves VUWS

Technical data – Pneumatic valves, size 25

Technical data – 5/2-way valves			
Order code for valves		M52	B52
Stable position		Monostable	Bistable
Reset method		Pneumatic spring	Mechanical spring
Switching times	On	15	10
	Off	32	42
	Change-over	–	–
			10

Technical data – 5/3-way valves				
Order code for valves		P53C	P53U	P53E
Stable position		Monostable		
Reset method		Mechanical spring		
Switching times	On	13	13	13
	Off	65	65	65
	Change-over	30	30	30

Safety characteristics	
Note on forced checking procedure	Min. 1/week
Resistance to shocks	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Vibration resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

Operating and environmental conditions						
Valve function	M32 ... A	M32 ... E M32 ... M	M52-A	M52-E M52-M	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 [bar]	2.5 ... 10	–0.9 ... +10	2.5 ... 10	–0.9 ... +10	–0.9 ... +10	–0.9 ... +10
Pilot pressure [bar]	2.5 ... 10	2.5 ... 10	2.5 ... 10	2.5 ... 10	1.5 ... 10	2.5 ... 10
Ambient temperature [°C]	–10 ... +60					
Temperature of medium [°C]	–10 ... +60					
Corrosion resistance class 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.

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

# Pneumatic valves VUWS

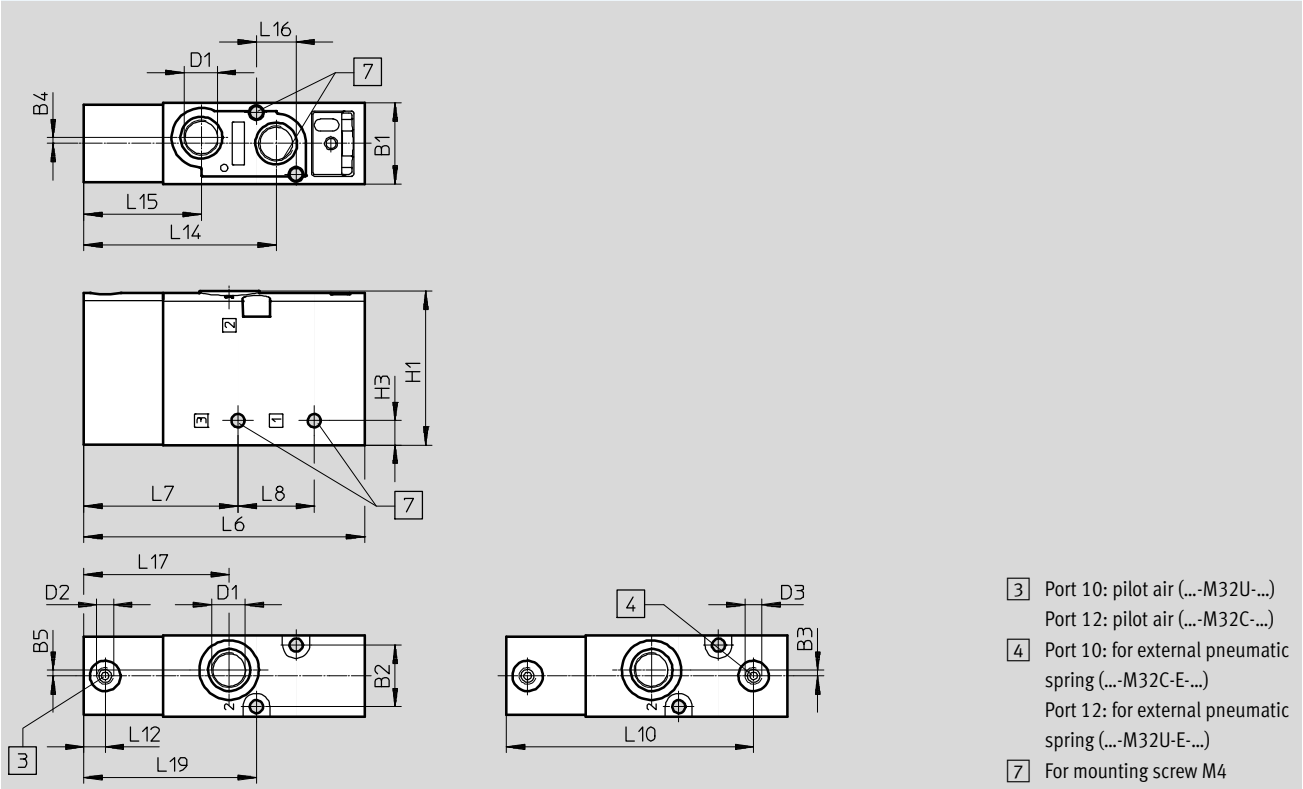
Technical data – Pneumatic valves, size 25

## Dimensions

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

3/2-way valve, normally closed/open

3/2-way valve, normally closed/open, external pilot air



Type	B1	B2	B3	B4	B5	D1	D2	D3	H1	H3
VUWS-L25-M32C-...-G14	26.5	20.2	1.9	1.9	1.9	G1/4	M5	-	50.5	8
VUWS-L25-M32U-...-G14								-		
VUWS-L25-M32C-E-...-G14								M5		
VUWS-L25-M32U-E-...-G14								M5		

Type	L6	L7	L8	L10	L12	L14	L15	L16	L17	L19
VUWS-L25-M32C-...-G14	92	50.5	25	-	7	63	38.5	13	47.6	56.5
VUWS-L25-M32U-...-G14				-						
VUWS-L25-M32C-E-...-G14				81						
VUWS-L25-M32U-E-...-G14				81						

# Pneumatic valves VUWS

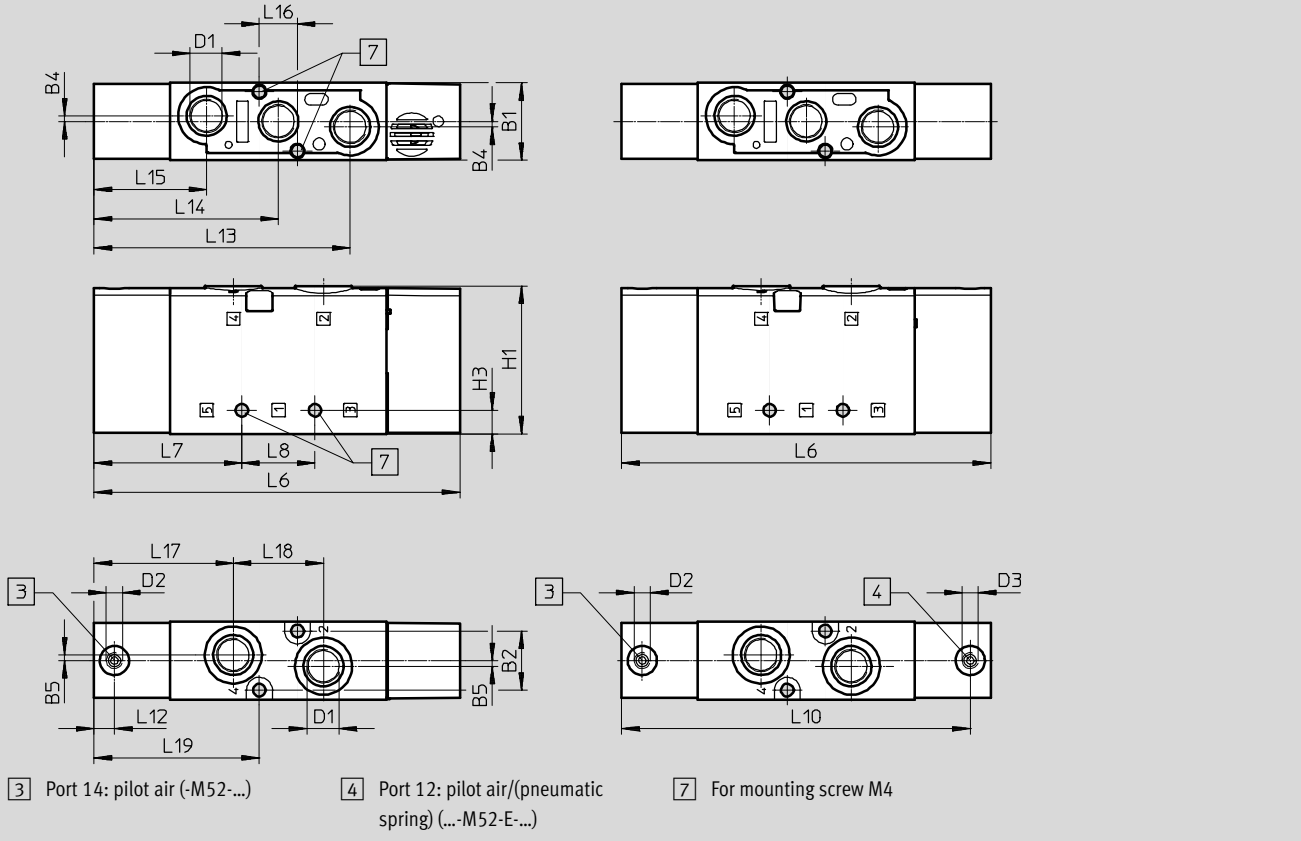
Technical data – Pneumatic valves, size 25

**Dimensions**

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

5/2-way valve, monostable

5/2-way valve, monostable, external pilot air



Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L25-M52-...-G14	26.5	20.2	1.9	1.9	G1/4	M5	-	50.5	8
VUWS-L25-M52-E-G14							M5		

Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-L25-M52-...-G14	125	50.5	25	-	7	87.5	63	38.5	13	47.6	30.8	56.5
VUWS-L25-M52-E-G14				119								

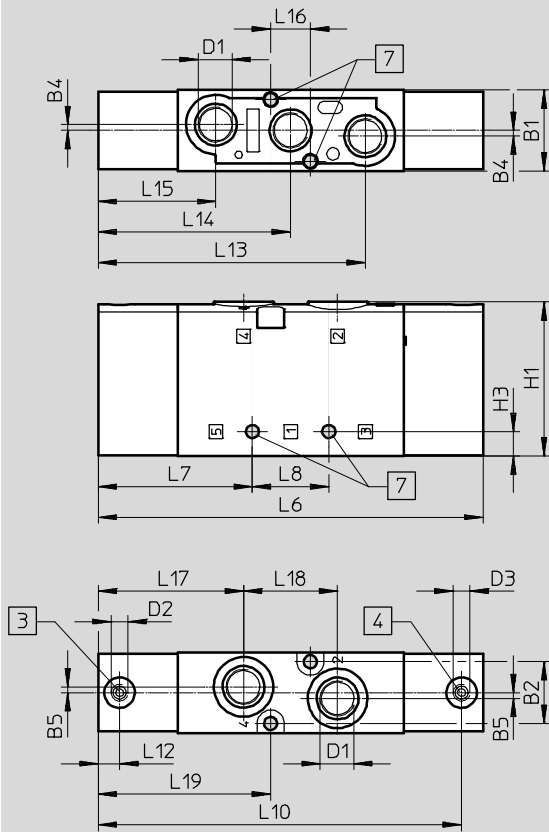
# Pneumatic valves VUWS

Technical data – Pneumatic valves, size 25

## Dimensions

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

5/2-way valve, bistable, 5/3-way valve



- 3 Port 14: pilot air
- 4 Port 12: pilot air
- 7 For mounting screw M4

Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L25-P53-...-M-G14	26.5	20.2	1.9	1.9	G1/4	M5	M5	50.5	8
VUWS-L25-B52-G14									

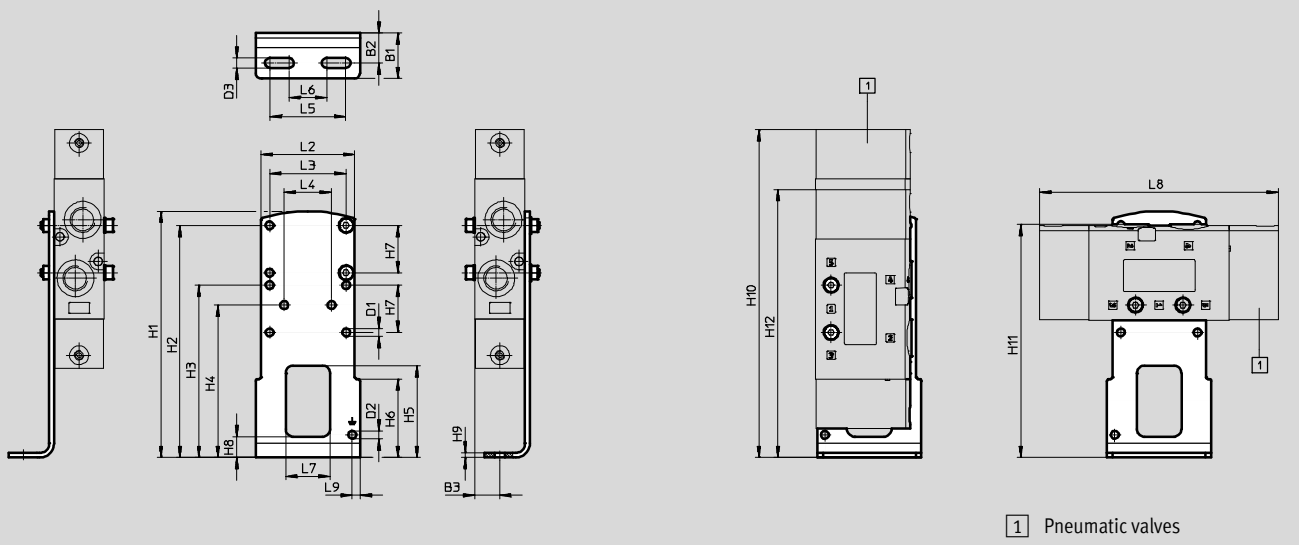
Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-L25-P53-...-M-G14	126	50.5	25	119	7	87.5	63	38.5	13	47.6	30.8	56.5
VUWS-L25-B52-G14												

# Pneumatic valves VUWS

Technical data – Pneumatic valves, size 25

## Dimensions

### Foot mounting

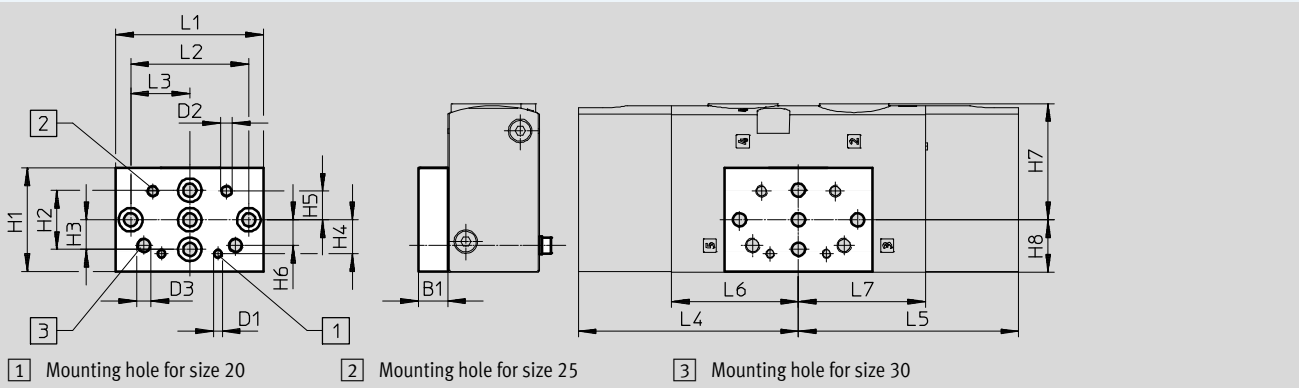


Type		B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	H1	H2	H3	H4	H5	H6	H7
VAME-B10-25-A	VUWS-L25-B52/P53	24	15.8	13.3	4.2	4.2	5.2	130	122.5	91	80.5	48.5	41.5	25
	VUWS-L25-M52													
	VUWS-L25-M32													

Type		H8	H9	H10	H11	H12	L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-25-A	VUWS-L25-B52/P53	11	2.5	173	123	141.5	55	49.4	40.4	25	40	20	23.5	126	4.1
	VUWS-L25-M52			173										126	
	VUWS-L25-M32			139										92	

## Dimensions

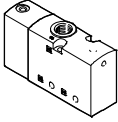
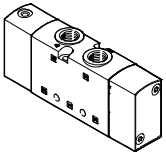
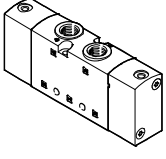
### Wall mounting



Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6	H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUWS-L25-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7	32.8	17.7	50	40	20	63	63	37	37
	VUWS-L25-M52																	62		37
	VUWS-L25-M32																	-		29



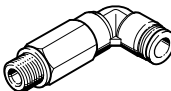
# Pneumatic valves VUWS

Ordering data – Pneumatic valves, size 25

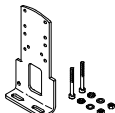
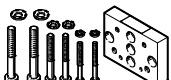
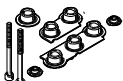
Ordering data – Pneumatic valves				
	Code	Valve function	Part No.	Type
Pneumatic valves				
	3/2-way valve, monostable, closed			
	M32C-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575483	VUWS-L25-M32C-A-G14
	M32C-E	Pneumatic spring return, external pneumatic spring, direction of flow reversible	575484	VUWS-L25-M32C-E-G14
	M32C-M	Mechanical spring return, direction of flow reversible	575485	VUWS-L25-M32C-M-G14
	3/2-way valve, monostable, open			
	M32U-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575498	VUWS-L25-M32U-A-G14
	5/2-way valve, monostable			
	M52-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575507	VUWS-L25-M52-A-G14
	M52-E	Pneumatic spring return, external pneumatic spring, direction of flow reversible	575508	VUWS-L25-M52-E-G14
M52-M	Mechanical spring return, direction of flow reversible	575515	VUWS-L25-M52-M-G14	
	5/2-way valve, bistable			
	B52	Direction of flow reversible	575522	VUWS-L25-B52-G14
	5/3-way valve			
	P53C	Closed, mechanical spring return, direction of flow reversible	575529	VUWS-L25-P53C-M-G14
	P53E	Exhausted, mechanical spring return, direction of flow reversible	575543	VUWS-L25-P53E-M-G14
P53U	Pressurised, mechanical spring return, direction of flow reversible	575536	VUWS-L25-P53U-M-G14	

## Pneumatic valves VUWS

Accessories – Pneumatic valves, size 25

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 G1/4 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 G1/4 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 G1/4 for tubing O.D.	6 mm	<b>186129</b>	<b>QSL-G1/4-6</b>	<b>10</b>
		8 mm	<b>186131</b>	<b>QSL-G1/4-8</b>	<b>10</b>
		10 mm	<b>186133</b>	<b>QSL-G1/4-10</b>	<b>10</b>


1) Packaging unit

Ordering data				
Description		Weight [g]	Part No.	Type
<b>Foot mounting</b>				
	Set for mounting valves, comprising: <ul style="list-style-type: none"> <li>• Mounting bracket and</li> <li>• Screw set for mounting</li> </ul>	130	<b>2293485</b>	<b>VAME-B10-25-A</b>
<b>Wall mounting</b>				
	Set for mounting valves for size 20, 25, 30, comprising: <ul style="list-style-type: none"> <li>• Wall mounting and</li> <li>• Screw set for mounting</li> </ul>	53	<b>576413</b>	<b>VAME-B10-20-W</b>
<b>Assortment of spare parts</b>				
	Set comprising: <ul style="list-style-type: none"> <li>• Seals and</li> <li>• Screws</li> </ul>	12	<b>8035636</b>	<b>VAME-B10-25-MK</b>



# Pneumatic valves VUWS

Technical data – Pneumatic valves, size 30

 Flow rate  
Up to 2300 l/min

 Valve width  
31 mm



General technical data							
Valve function	3/2		5/2		5/3		
Order code for valves	M32C	M32U	M52	B52	P53C	P53U	P53E
Valve width [mm]	31						
Design	Piston spool						
Pneumatic spring supply	Internal or external (external: identified by E in type code)						
Type of pilot control	Direct						
Manual override (MO)	None						
Direction of flow	Reversible with restrictions (not reversible: identified by A in type code)						
Sealing principle	Soft						
Type of mounting	Optionally via through-holes <sup>1)</sup> or on manifold rail						
Nominal flow rate [qnN]	2300	2300	2300	2300	2000	1600	1600
Through-holes (nominal width) [mm]	9.4	9.4	9.4	9.4	8.9	8.1	8.1
Product weight [g]	394	394	487/546 <sup>2)</sup>	545	542	542	542
Type of actuation	Pneumatic						
Mounting position	Any						
Exhaust air function	With flow control						
Venting hole	Not ducted						
Pneumatic connection 1, 2, 4, 3, 5	G3/8						
Pneumatic spring connection 12/14, 10	G1/8						

1) If several valves are to be screwed together via the through-holes to form a block, a minimum distance of 0.3 mm must be ensured by placing spacer discs between them.

2) With external pneumatic spring: 546 g, with internal pneumatic spring or mechanical spring: 487 g

Technical data – 3/2-way valves							
Order code for valves	M32C-A	M32C-E	M32C-M	M32U-A	M32U-E	M32U-M	
Normal position	Closed			Open			
Stable positions	Monostable			Monostable			
Reset method	Pneumatic spring		Mechanical spring	Pneumatic spring		Mechanical spring	
Switching times	On	19	21	16	19	21	16
	Off	36	40	73	37	40	73
	Change-over	–		–	–		–

# Pneumatic valves VUWS

Technical data – Pneumatic valves, size 30

Technical data – 5/2-way valves			
Order code for valves		M52	B52
Stable position		Monostable	
Reset method		Pneumatic spring	Mechanical spring
Switching times	On	24	17
	Off	59	77
	Change-over	–	–
			13

Technical data – 5/3-way valves				
Order code for valves		P53C	P53U	P53E
Stable position		Monostable		
Reset method		Mechanical spring		
Switching times	On	19	19	19
	Off	98	98	98
	Change-over	41	41	41

Safety characteristics	
Note on forced checking procedure	Min. 1/week
Resistance to shocks	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Vibration resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

Operating and environmental conditions						
Valve function	M32 ... A M32 ... M	M32 ... E	M52-A	M52-E M52-M	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 [bar]	–0.9 ... +10	–0.9 ... +10	2.5 ... 10	–0.9 ... +10	–0.9 ... +10	–0.9 ... +10
Pilot pressure [bar]	2.5 ... 10	2.5 ... 10	2.5 ... 10	2.5 ... 10	1.5 ... 10	2.5 ... 10
Ambient temperature [°C]	–10 ... +60					
Temperature of medium [°C]	–10 ... +60					
Corrosion resistance class 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.

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

# Pneumatic valves VUWS

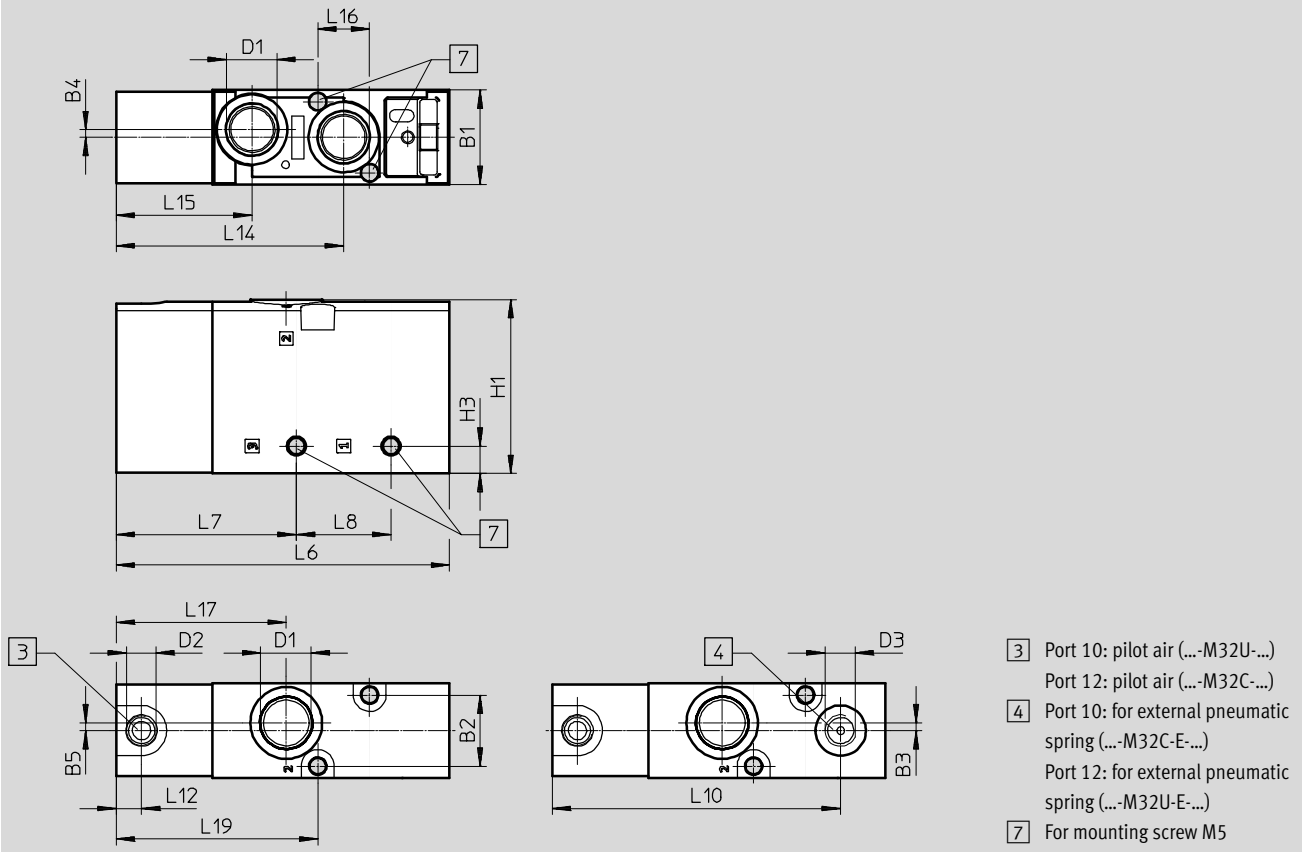
Technical data – Pneumatic valves, size 30

## Dimensions

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

3/2-way valve, normally closed/open

3/2-way valve, normally closed/open, external pilot air



Type	B1	B2	B3	B4	B5	D1	D2	D3	H1	H3
VUWS-L30-M32C-...-G38	31	23.3	2.5	2.5	2.5	G3/8	G1/8	-	57	9
VUWS-L30-M32U-...-G38								-		
VUWS-L30-M32C-E-...-G38								G1/8		
VUWS-L30-M32U-E-...-G38								G1/8		

Type	L6	L7	L8	L10	L12	L14	L15	L16	L17	L19
VUWS-L30-M32C-...-G38	109.2	59	31	-	8.3	74.5	44.5	17	55.7	66
VUWS-L30-M32U-...-G38				-						
VUWS-L30-M32C-E-...-G38				94.5						
VUWS-L30-M32U-E-...-G38				94.5						

# Pneumatic valves VUWS

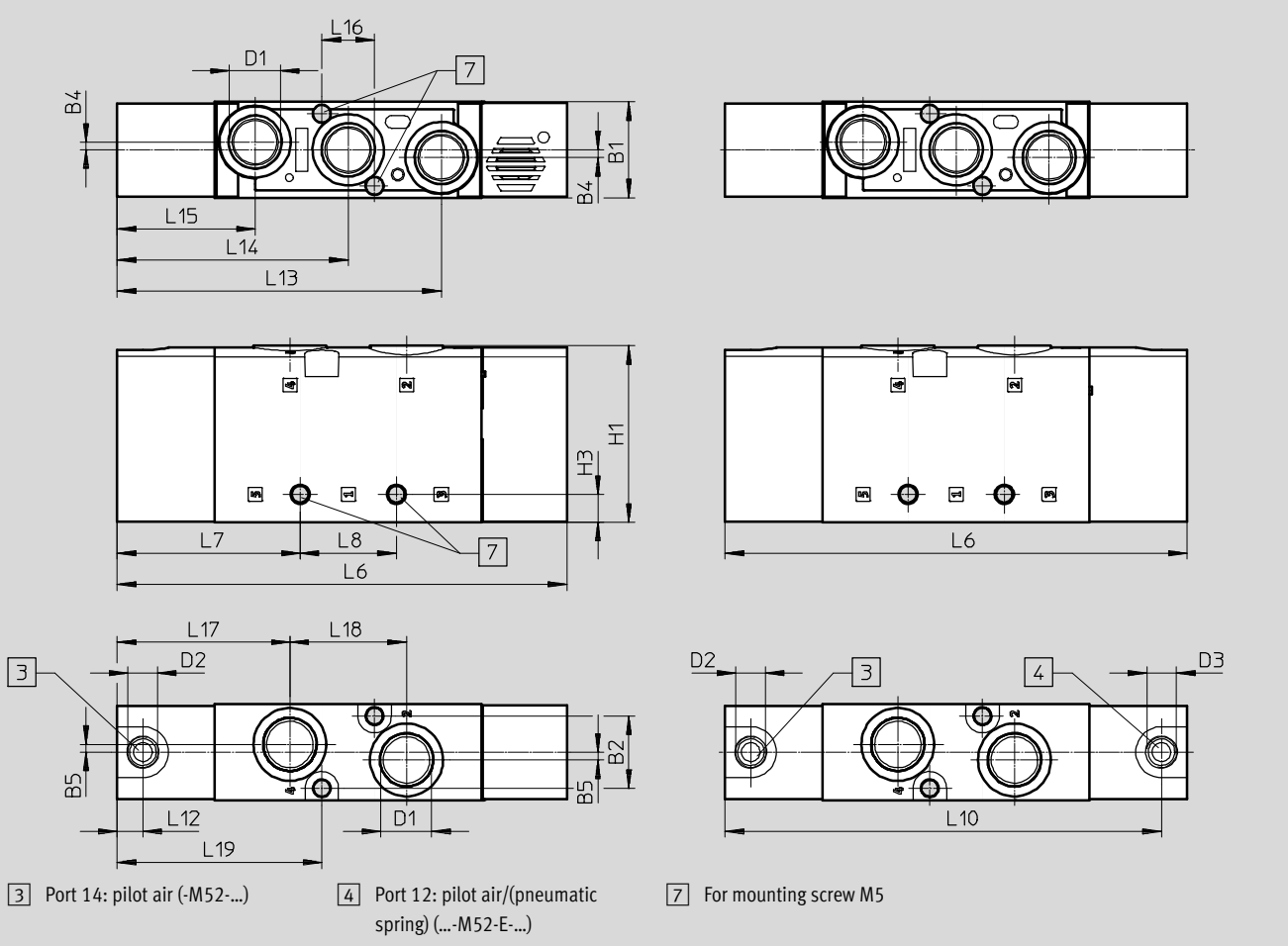
Technical data – Pneumatic valves, size 30

**Dimensions**

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

5/2-way valve, monostable

5/2-way valve, monostable, external pilot air



Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L30-M52-...-G38	31	23.3	2.5	2.5	G3/8	G1/8	-	57	9
VUWS-L30-M52-E-G38							G1/8		

Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-L30-M52-...-G38	145	59	31	-	8.3	104.5	74.5	44.5	17	55.7	37.6	66
VUWS-L30-M52-E-G38				140.7								

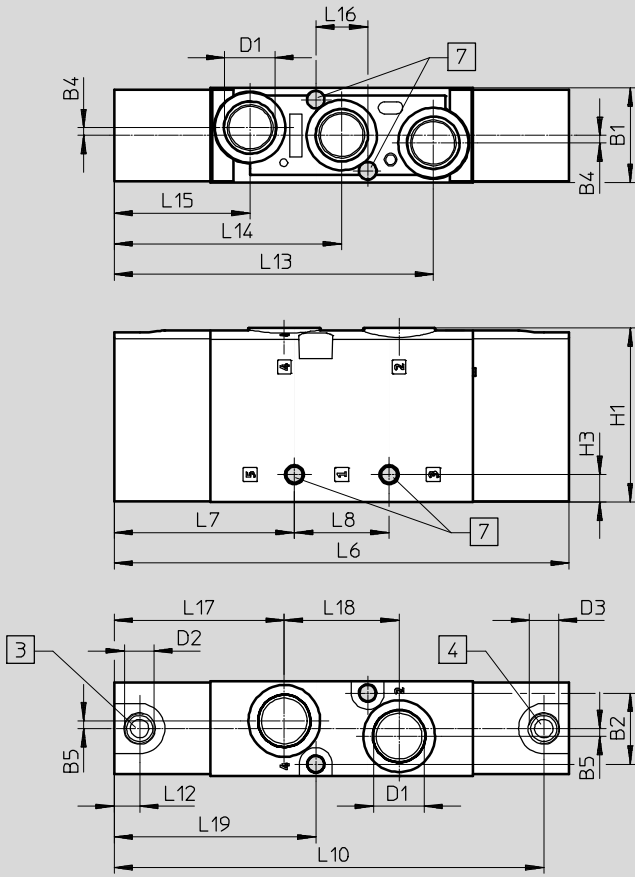
# Pneumatic valves VUWS

Technical data – Pneumatic valves, size 30

## Dimensions

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

5/2-way valve, bistable, 5/3-way valve



- 3 Port 14: pilot air
- 4 Port 12: pilot air
- 7 For mounting screw M5

Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L30-P53-...-M-G38	31	23.3	2.5	2.5	G3/8	G1/8	G1/8	57	9
VUWS-L30-B52-G38									

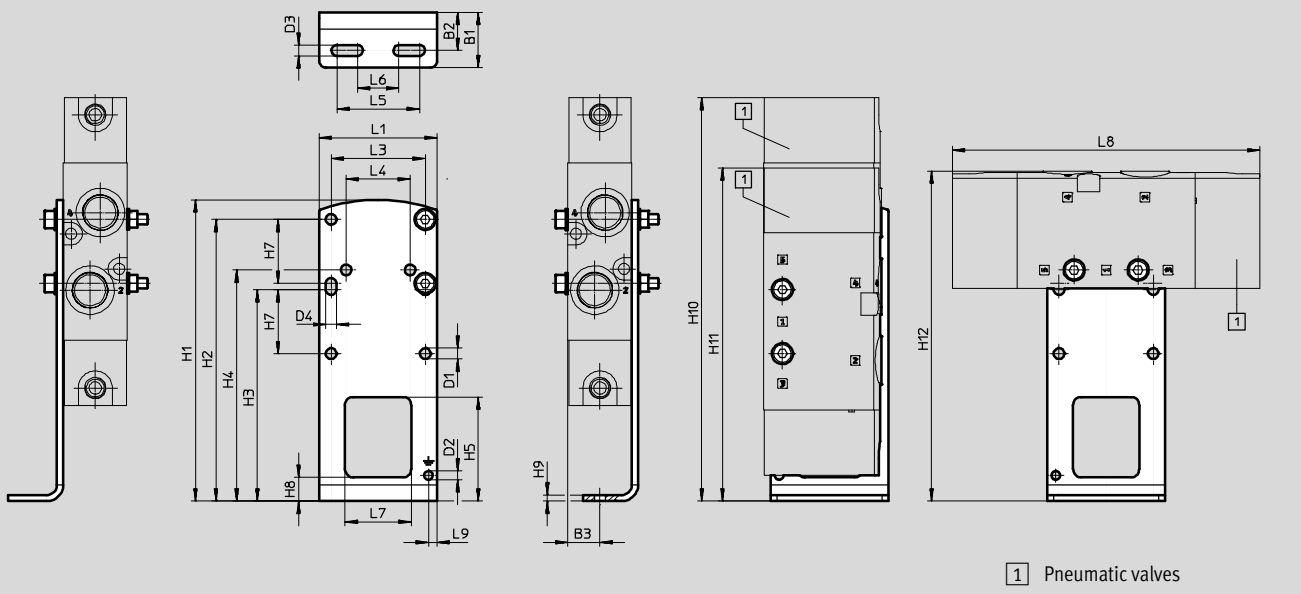
Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-L30-P53-...-M-G38	149	59	31	140.7	8.3	104.5	74.5	44.5	17	55.7	37.6	66
VUWS-L30-B52-G38												

# Pneumatic valves VUWS

Ordering data – Pneumatic valves, size 30

## Dimensions

Foot mounting



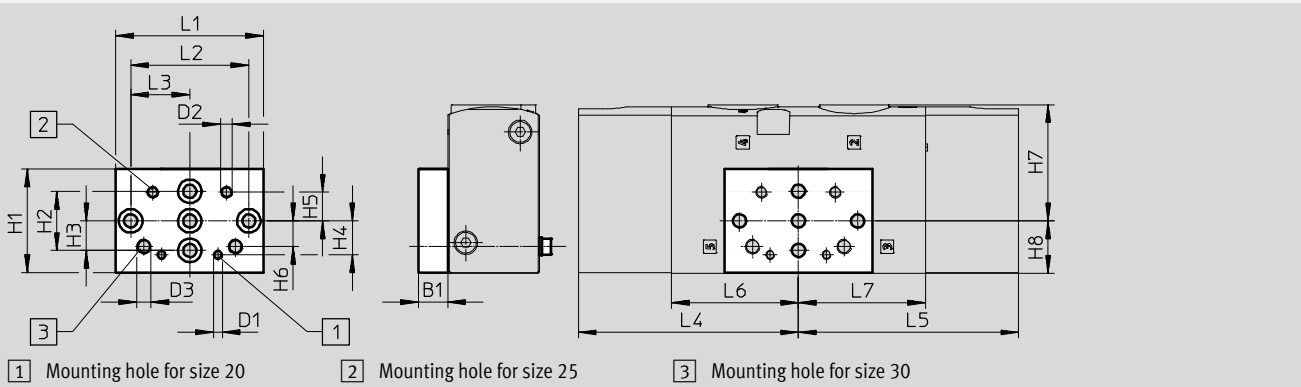
1 Pneumatic valves

Type		B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	D4 Ø	H1	H2	H3	H4	H5	H7
VAME-B10-30-A	VUWS-L30-B52/P53	26.8	18.5	15.5	5.2	4.2	5.2	5.2	146	136.5	102.5	112	50.5	31
	VUWS-L30-M52													
	VUWS-L30-M32													

Type		H8	H9	H10	H11	H12	L1	L3	L4	L5	L6	L7	L8	L9
VAME-B10-30-A	VUWS-L30-B52/P53	11.5	3	195.5	161.5	160	57	45.6	31	40	20	32	149	4.1
	VUWS-L30-M52			195.5	161.5							149		
	VUWS-L30-M32			155.7	121.7							109.2		

## Dimensions

Wall mounting



1 Mounting hole for size 20

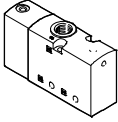
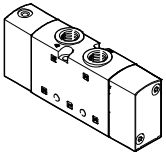
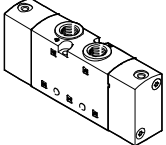
2 Mounting hole for size 25

3 Mounting hole for size 30

Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6	H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUWS-L30-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7	39.3	17.7	50	40	20	74.5	74.5	43	43
	VUWS-L30-M52																70.5	43		
	VUWS-L30-M32																-	34.7		



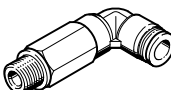
# Pneumatic valves VUWS

Ordering data – Pneumatic valves, size 30

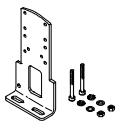
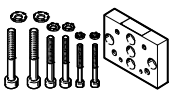

Ordering data – Pneumatic valves				
	Code	Valve function	Part No.	Type
<b>Pneumatic valves</b>				
	3/2-way valve, monostable, closed			
	M32C-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575576	VUWS-L30-M32C-A-G38
	M32C-E	Pneumatic spring return, external pneumatic spring, direction of flow reversible	575577	VUWS-L30-M32C-E-G38
	M32C-M	Mechanical spring return, direction of flow reversible	575578	VUWS-L30-M32C-M-G38
	3/2-way valve, monostable, open			
	M32U-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575591	VUWS-L30-M32U-A-G38
	5/2-way valve, monostable			
	M52-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575600	VUWS-L30-M52-A-G38
	M52-E	Pneumatic spring return, external pneumatic spring, direction of flow reversible	575601	VUWS-L30-M52-E-G38
	M52-M	Mechanical spring return, direction of flow reversible	575608	VUWS-L30-M52-M-G38
	5/2-way valve, bistable			
	B52	Direction of flow reversible	575615	VUWS-L30-B52-G38
	5/3-way valve			
	P53C	Closed, mechanical spring return, direction of flow reversible	575622	VUWS-L30-P53C-M-G38
	P53E	Exhausted, mechanical spring return, direction of flow reversible	575636	VUWS-L30-P53E-M-G38
	P53U	Pressurised, mechanical spring return, direction of flow reversible	575629	VUWS-L30-P53U-M-G38

# Pneumatic valves VUWS

Accessories – Pneumatic valves, size 30

Ordering data					
Description		Part No.	Type	PU <sup>1)</sup>	
<b>Push-in fitting with internal hex</b>					
	Connecting thread G1/8 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>
	Connecting thread G3/8 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>
		8 mm	<b>186111</b>	<b>QS-G3/8-8-I</b>	<b>10</b>
			<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 G3/8 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>	
<b>Angled push-in fitting, long, with external hex</b>					
	Connecting thread G3/8 for tubing O.D.	8 mm	<b>186132</b>	<b>QSL-G3/8-8</b>	<b>10</b>
		10 mm	<b>186134</b>	<b>QSL-G3/8-10</b>	<b>10</b>
		12 mm	<b>186135</b>	<b>QSL-G3/8-12</b>	<b>10</b>

1) Packaging unit

Ordering data				
Description	Weight [g]	Part No.	Type	
<b>Foot mounting</b>				
 Set for mounting valves, comprising: • Mounting bracket and • Screw set for mounting	–	<b>8026337</b>	<b>VAME-B10-30-A</b>	
<b>Wall mounting</b>				
 Set for mounting valves for size 20, 25, 30, comprising: • Wall mounting and • Screw set for mounting	53	<b>576413</b>	<b>VAME-B10-20-W</b>	
<b>Set of spare parts</b>				
 Set comprising: • Seals and • Screws	–	<b>8035637</b>	<b>VAME-B10-30-MK</b>	



## Pneumatic valves VUWS/valve manifold VTUS


Order code – Manifold block


<b>VABM</b>	-	<b>B10</b>	-		-
Manifold assembly parts					
Manifold block		<b>VABM</b>			
Valve series					
VUWS		<b>B10</b>			
Valve width					
21 mm				<b>20</b>	
26.5 mm				<b>25</b>	
31 mm				<b>30</b>	
Connection type					
Supply manifold					<b>-</b>
Compact manifold block					<b>S</b>
Standard manifold block					<b>E</b>
Extension module for standard manifold block					<b>EEE</b>

	-		-		-	
Assembly						
<b>E</b>						Supply manifold for mounting at one end
-						Standard mounting
Port 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>G14</b>						G 1/4
<b>G38</b>						G 3/8
<b>G12</b>						G 1/2
<b>G34</b>						G 3/4

# Manifold block VABM

Technical data – Manifold block, size 20

 Flow rate  
Up to 700 l/min

 Valve width  
21 mm



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	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-...-P53-E	240	282	324	–	–	–	–	–	–

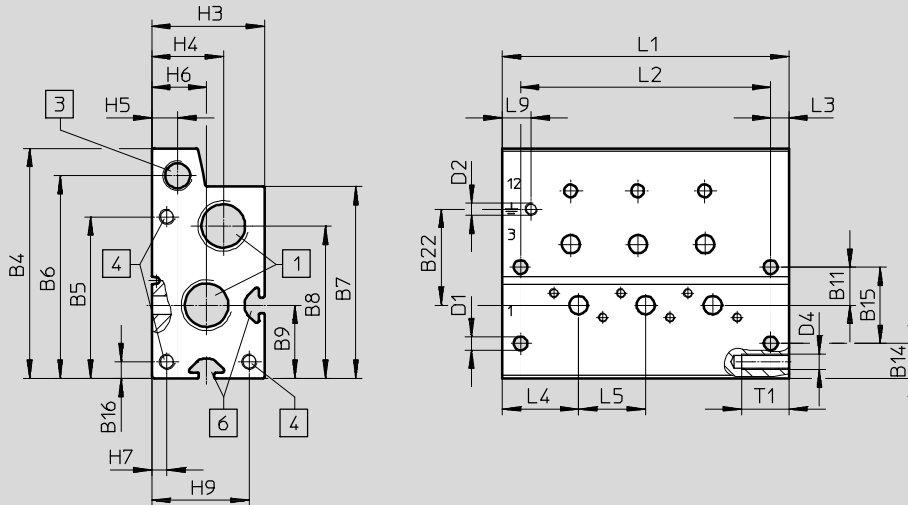
Information on materials	
Materials	Wrought aluminium alloy
Note on materials	RoHS compliant

# Manifold block VABM

Technical data – Manifold block, size 20

## Dimensions

Manifold block for 3/2-way valves, standard



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

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

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

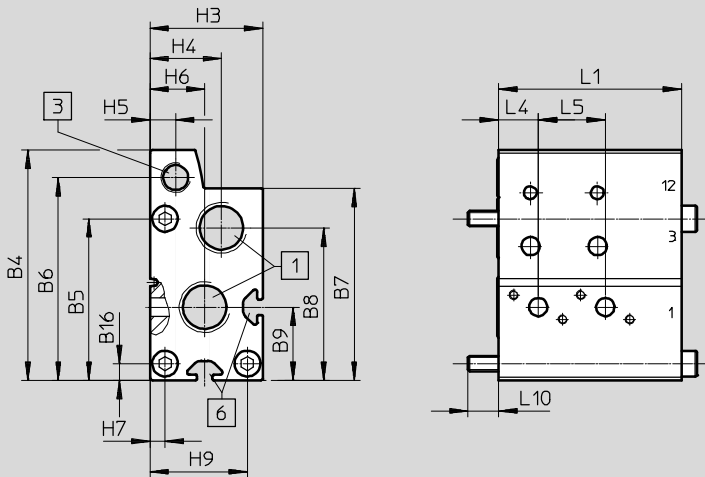
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	72	94	116	138	160	182	204	226	248
L2 [mm]	60	82	104	126	148	170	192	214	236

# Manifold block VABM

Technical data – Manifold block, size 20

## Dimensions

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



- 1 Ports 1 and 3: threaded port G3/8 at one end
- 3 Threaded port 12: G1/8 at one end
- 6 Profile slot IPM-05, system 5

Type	B4	B5	B6	B7	B8	B9	B16	H3	H4	H5	H6	H7	H9	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	13	22	10

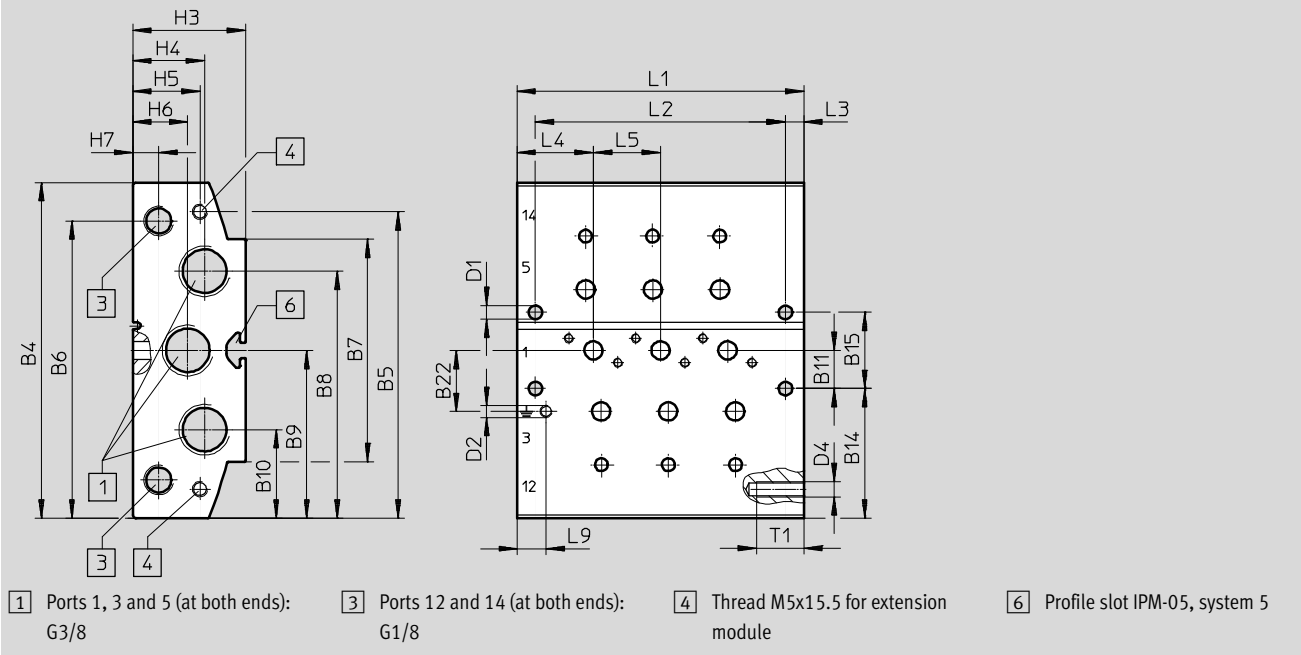
Valve positions	2
L1 [mm]	60

# Manifold block VABM

Technical data – Manifold block, size 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

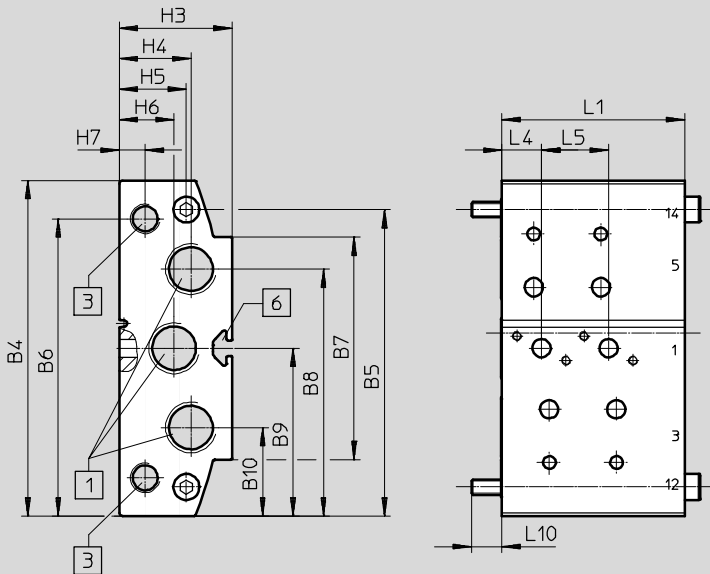
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	72	94	116	138	160	182	204	226	248
L2 [mm]	60	82	104	126	148	170	192	214	236

# Manifold block VABM

Technical data – Manifold block, size 20

## Dimensions

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



- 1 Ports 1, 3 and 5: threaded port G3/8 at one end
- 3 Threaded ports 12 and 14: G1/8 at one end
- 6 Profile slot IPM-05, system 5

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

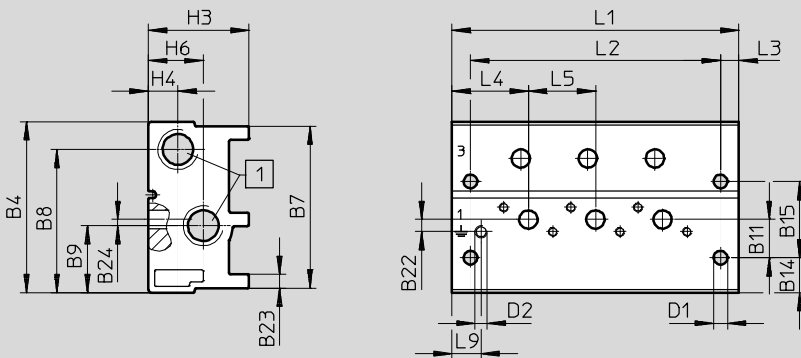
Valve positions	2
L1 [mm]	60

# Manifold block VABM

Technical data – Manifold block, size 20

## Dimensions

Manifold block for 3/2-way valves, compact



1 Ports 1 and 3 (at both ends):  
G1/4

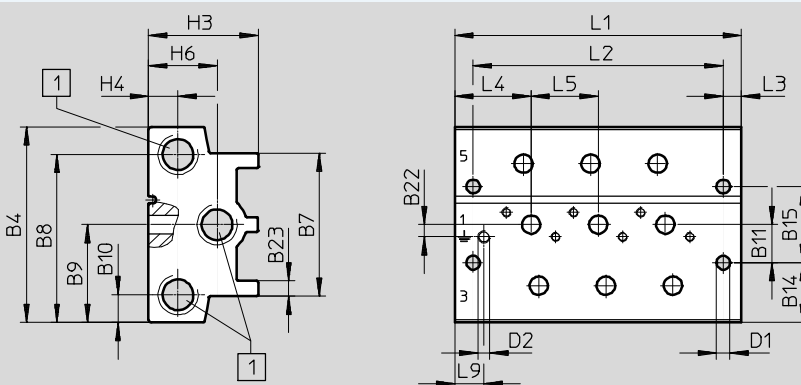
Type	B4	B7	B8	B9	B11	B14	B15	B22	B23	B24
VABM-B10-20S-G14-...-P3	56.1	53.1	471	22	12.5	11.5	25	4	5	2

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 (at both ends):  
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	149.6	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

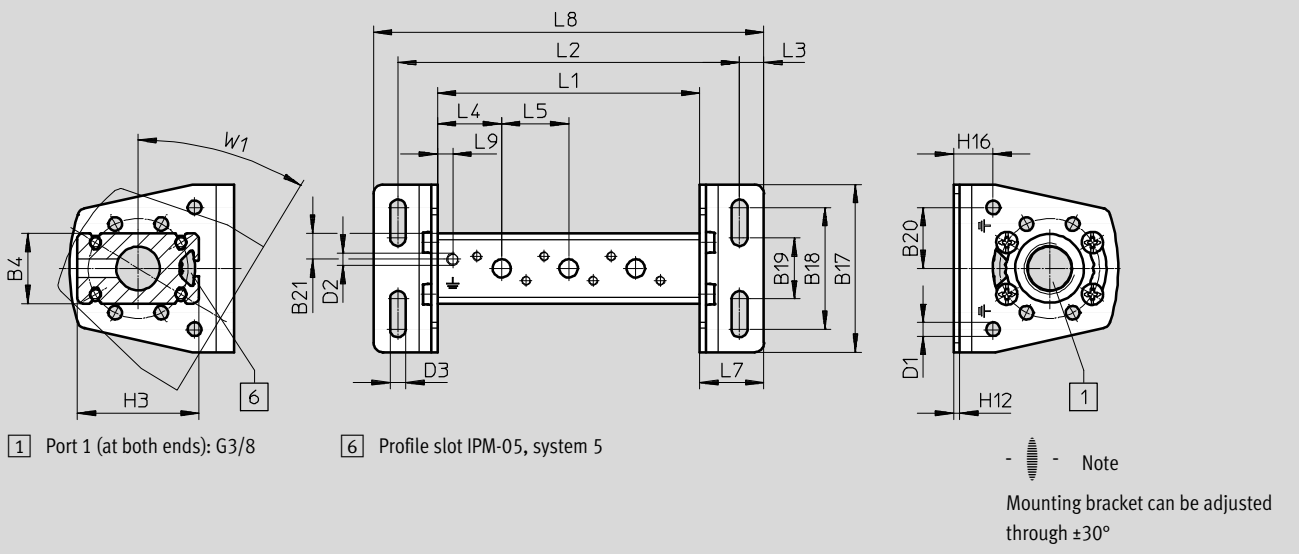
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	72	94	116	138	160	182	204	226	248
L2 [mm]	60	82	104	126	148	170	192	214	236

# Manifold block VABM

Technical data – Manifold block, size 20

## Dimensions

Supply manifold, mounting on both sides

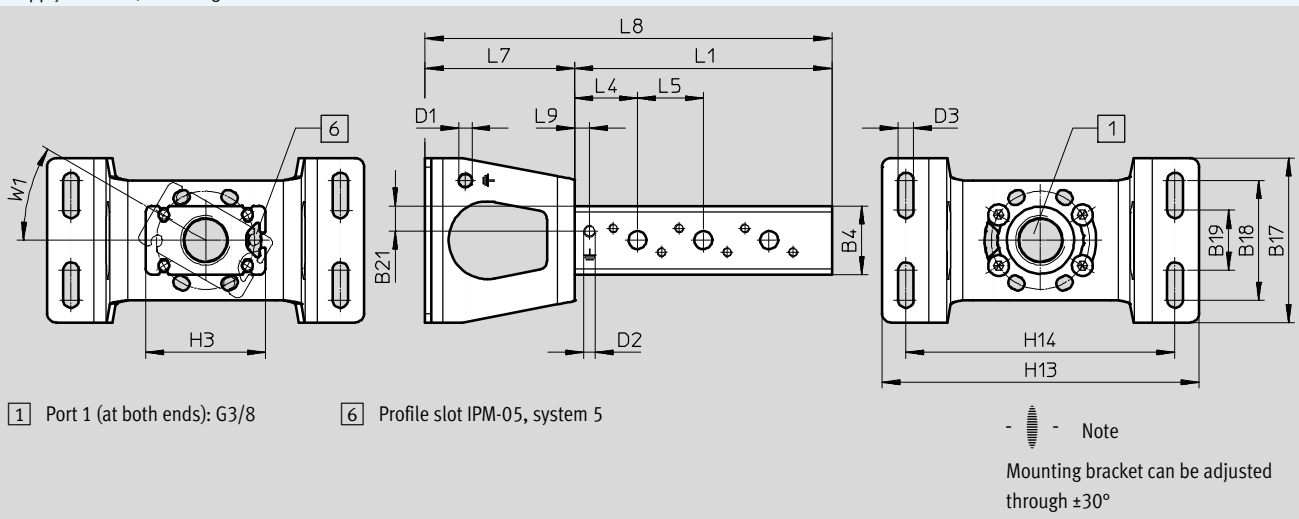


Type	B4	B17	B18	B19	B20	B21	D1 $\varnothing$	D2	D3 $\varnothing$	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-20-G38-...-P53	23	55	40	20	20	8.5	4.5	M4x6.5	5.2	40	2	13	9	21	22	22	5	31.3°

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



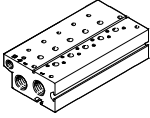

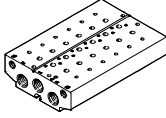

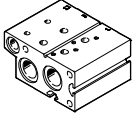
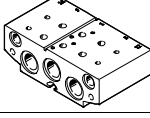
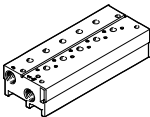

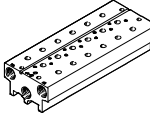

Type	B4	B17	B18	B19	B21	D1 $\varnothing$	D2	D3 $\varnothing$	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-20-G38-...-P53-E	23	55	40	20	8.5	4.5	M4x6.5	5.2	40	106	90	21	22	50	5	30°

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



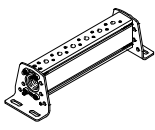
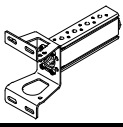
# Manifold block VABM

Ordering data – Manifold block, size 20

Ordering data				
Description	Valve positions	Part No.	Type	
<b>Standard manifold block</b>				
 <p>For 3/2-way valves, incl. seals and screws for mounting valves</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3 and 14) at one end are included in the scope of delivery.</p>	2	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	
	 <p>For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) at one end are included in the scope of delivery.</p>	2	576339	VABM-B10-20E-G38-2
3		576340	VABM-B10-20E-G38-3	
4		576341	VABM-B10-20E-G38-4	
5		576342	VABM-B10-20E-G38-5	
6		576343	VABM-B10-20E-G38-6	
7		576344	VABM-B10-20E-G38-7	
8		576345	VABM-B10-20E-G38-8	
9		576346	VABM-B10-20E-G38-9	
10		576347	VABM-B10-20E-G38-10	
<b>Manifold block, extension module for standard manifold block</b>				
 <p>For 3/2-way valves, incl. seals and screws for valve assembly</p>	2	576490	VABM-B10-20EEE-G38-2-P3	
 <p>For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly</p>	2	576489	VABM-B10-20EEE-G38-2	
<b>Compact manifold block</b>				
 <p>For 3/2-way valves, incl. seals and screws for mounting valves</p> <p>-  - Note Blanking plugs for sealing the supply ports (1 and 3) at one end are included in the scope of delivery.</p>	2	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	
	 <p>For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3 and 5) at one end are included in the scope of delivery.</p>	2	576417	VABM-B10-20S-G14-2
3		576418	VABM-B10-20S-G14-3	
4		576419	VABM-B10-20S-G14-4	
5		576420	VABM-B10-20S-G14-5	
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	

## Manifold block VABM

Ordering data – Manifold block, size 20

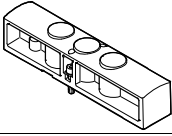
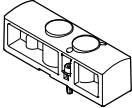

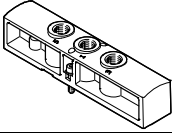
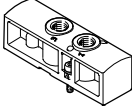

Ordering data			
Description	Valve positions	Part No.	Type
Supply manifold			
 <p>For mounting on both sides, incl. seals and screws for mounting valves</p>	2	<b>576363</b>	<b>VABM-B10-20-G38-2-P53</b>
	3	<b>576364</b>	<b>VABM-B10-20-G38-3-P53</b>
	4	<b>576365</b>	<b>VABM-B10-20-G38-4-P53</b>
	5	<b>576366</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>

 - Note

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





## Manifold block VABM

Accessories – Manifold block, size 20

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>

# Manifold block VABM


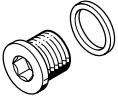

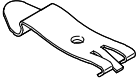
Accessories – Manifold block, size 20

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 G3/8 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</b>					
	Connecting thread M5 for tubing O.D.	4 mm	<b>153315</b>	<b>QSM-M5-4-I</b>	<b>10</b>
	Connecting thread G1/8 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 G1/4 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 G3/8 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 G1/8 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 G1/4 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 G3/8 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>	
<b>Angled push-in fitting with external hex</b>					
	Connecting thread G1/8 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>

1) Packaging unit

## Manifold block VABM


Accessories – Manifold block, size 20


Ordering data					
	Description	Part No.	Type	PU <sup>1)</sup>	
<b>Silencer</b>					
	With connecting thread G	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 G	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 size 20, for mounting on standard H-rails TH 35-7.5 or TH 35-15 to EN 60715	569998	VAME-T-M4	2	

1) Packaging unit

# Manifold block VABM

Technical data – Manifold block, size 25

 Flow rate  
Up to 1300 l/min

 Valve width  
26.5 mm



General technical data									
	Manifold block standard		Extension module for standard manifold block		Manifold block compact		Supply manifold		
							On both sides	On one side	
For valves	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2, 5/2, 5/3		
Grid dimension [mm]	27.5								
Type of mounting	With through-hole						With mounting bracket		
Maximum number of valve positions	10	10	2	2	10	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-...G12-...-P53	258	340	422	504	586	668	750	832	914
Supply manifold for mounting on one side									
VABM-B10-25-G12-...-P53-E	258	340	422	–	–	–	–	–	–

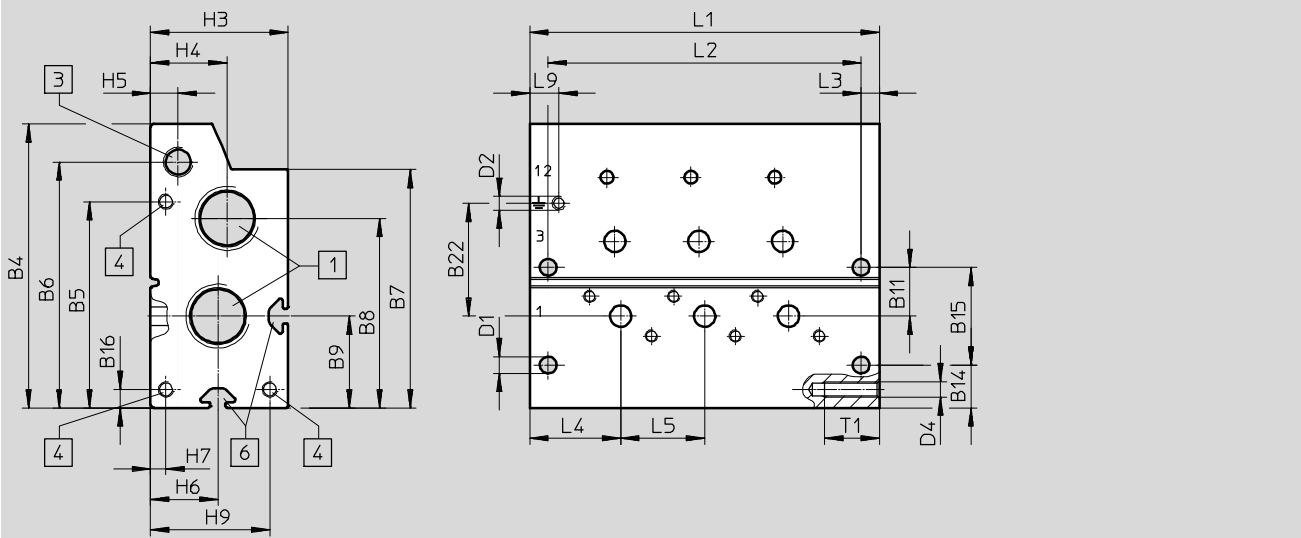
Information on materials	
Materials	Wrought aluminium alloy
Note on materials	RoHS compliant

# Manifold block VABM

Technical data – Manifold block, size 25

## Dimensions

Manifold block for 3/2-way valves, standard



- 1 Ports 1 and 3 (at both ends): G1/2
- 3 Ports 12 (at both ends): G1/8
- 4 Thread M5x18 for extension module
- 6 Profile slot IPM-05, system 5

Type	B4	B5	B6	B7	B8	B9	B11	B14	B15	B16	B22
VABM-B10-25-E-...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-B10-25-E-...G12-...-P3	5.5	M4x9	M5	45	25	9	22	5	39	6	29.8	27.5	9.5	18

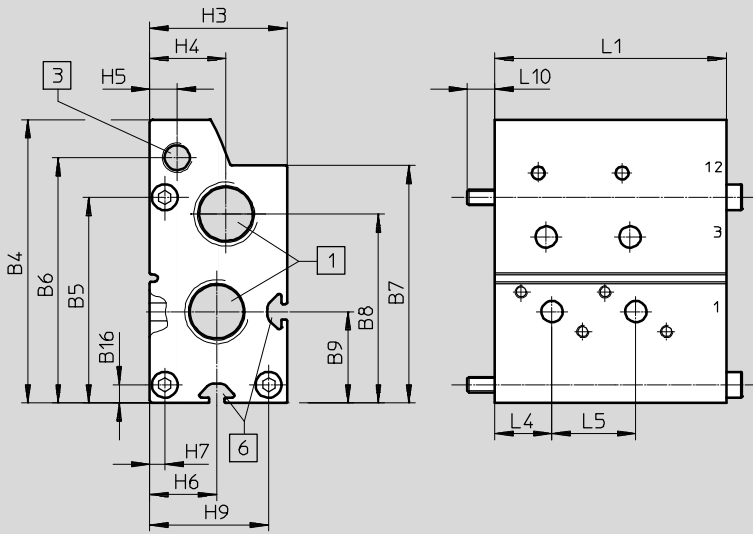
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

# Manifold block VABM

Technical data – Manifold block, size 25

## Dimensions

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



- 1 Ports 1 and 3: threaded port G1/2 at one end
- 3 Threaded port 12: G1/8 at one end
- 6 Profile slot IPM-05, system 5

Type	B4	B5	B6	B7	B8	B9	B16	H3	H4	H5	H6	H7	H9	L4	L5	L10
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

Valve positions	2
L1 [mm]	76

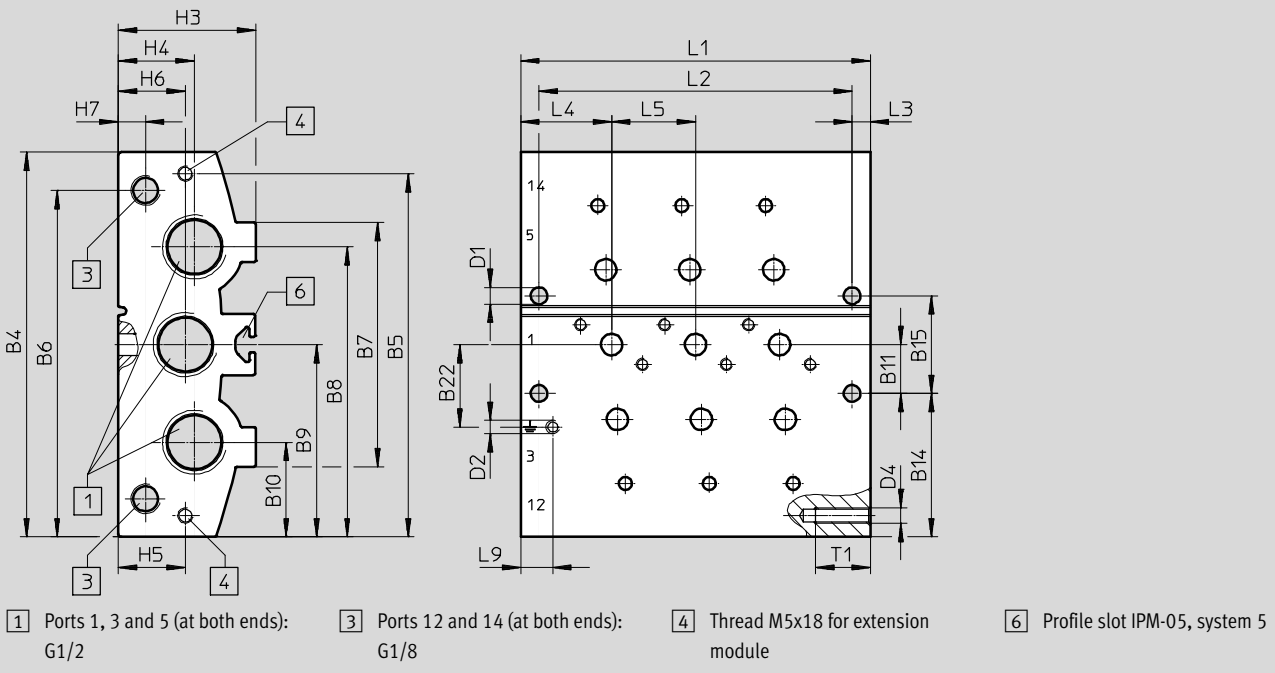


# Manifold block VABM

Technical data – Manifold block, size 25

## Dimensions

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



Type	B4	B5	B6	B7	B8	B9	B10	B11	B14	B15	B22
VABM-B10-25E-...-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

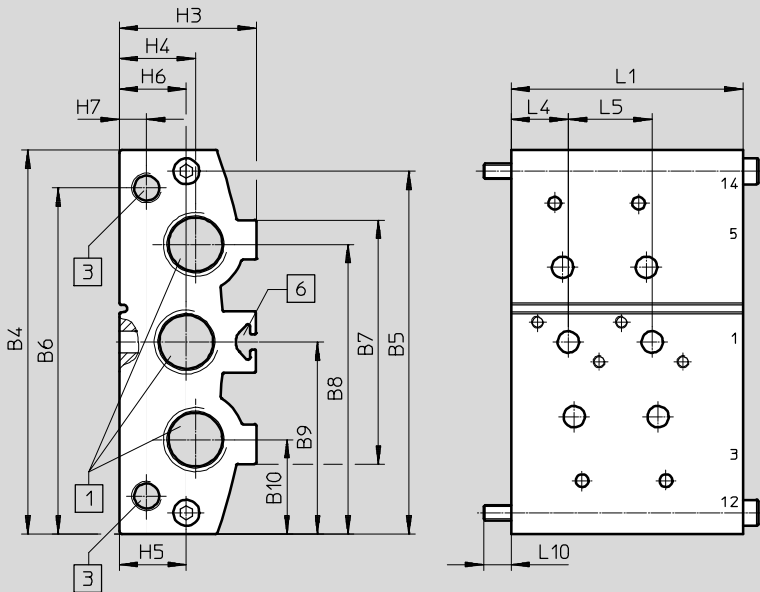
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

# Manifold block VABM

Technical data – Manifold block, size 25

## Dimensions

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



- 1 Ports 1, 3 and 5: threaded port G1/2 at one end
- 3 Threaded ports 12 and 14: G1/8 at one end
- 6 Profile slot IPM-05, system 5

Type	B4	B5	B6	B7	B8	B9	B10	H3	H4	H5	H6	H7	L4	L5	L10
VABM-B10-20EEE-G12-2	126	119	113.5	80	95	63	31	45	25	22	22	9	18.8	27.5	9

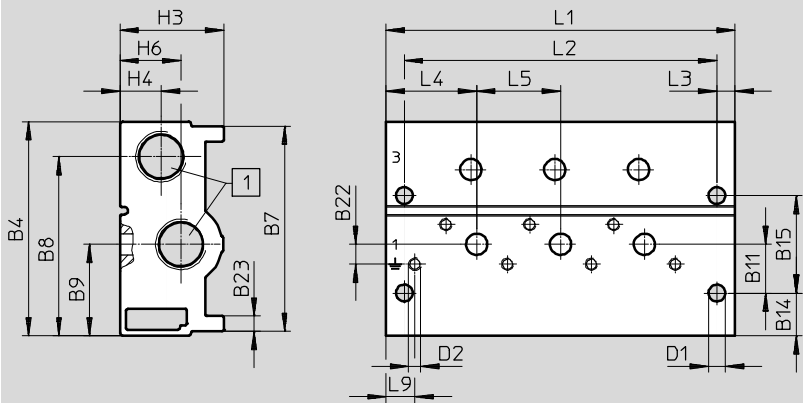
Valve positions	2
L1 [mm]	76

# Manifold block VABM

Technical data – Manifold block, size 25

## Dimensions

Manifold block for 3/2-way valves, compact



1 Ports 1 and 3 (at both ends):  
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

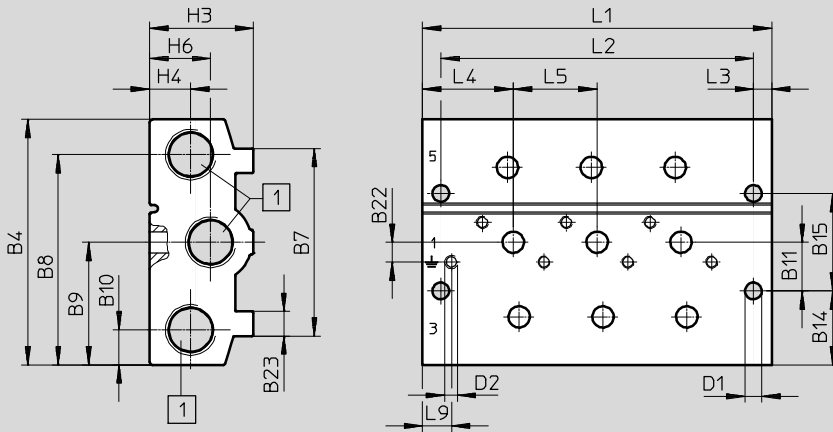
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

# Manifold block VABM

Technical data – Manifold block, size 25

## Dimensions

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



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

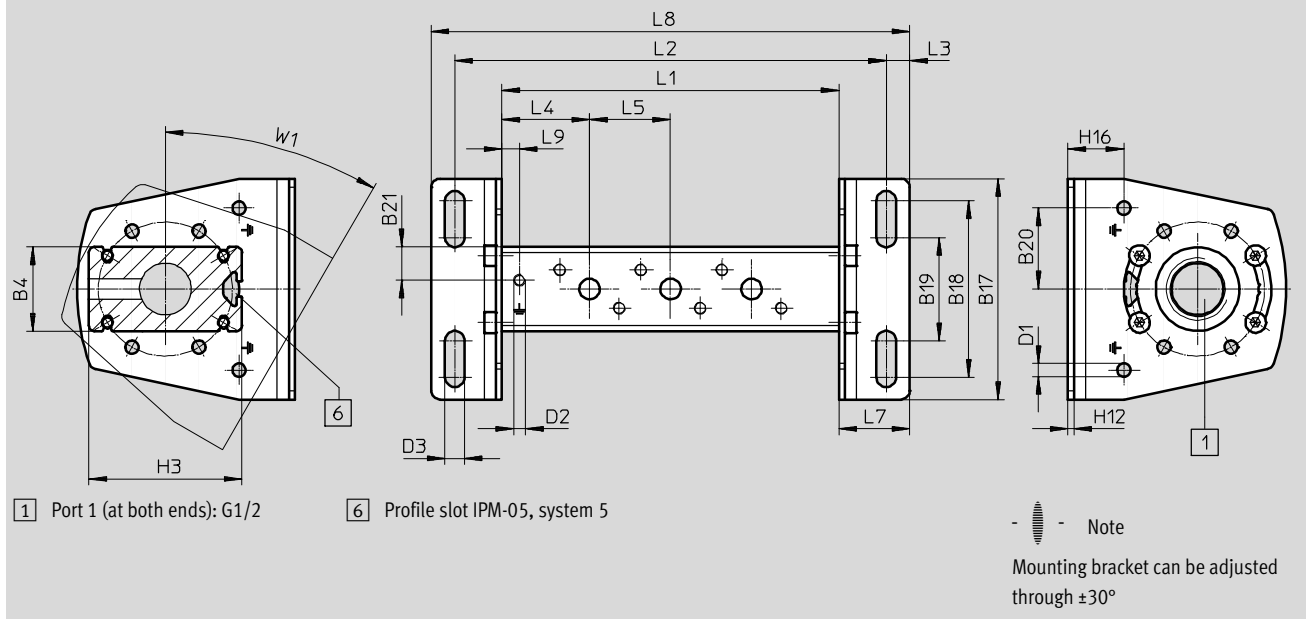
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

# Manifold block VABM

Technical data – Manifold block, size 25

## Dimensions

Supply manifold, mounting on both sides



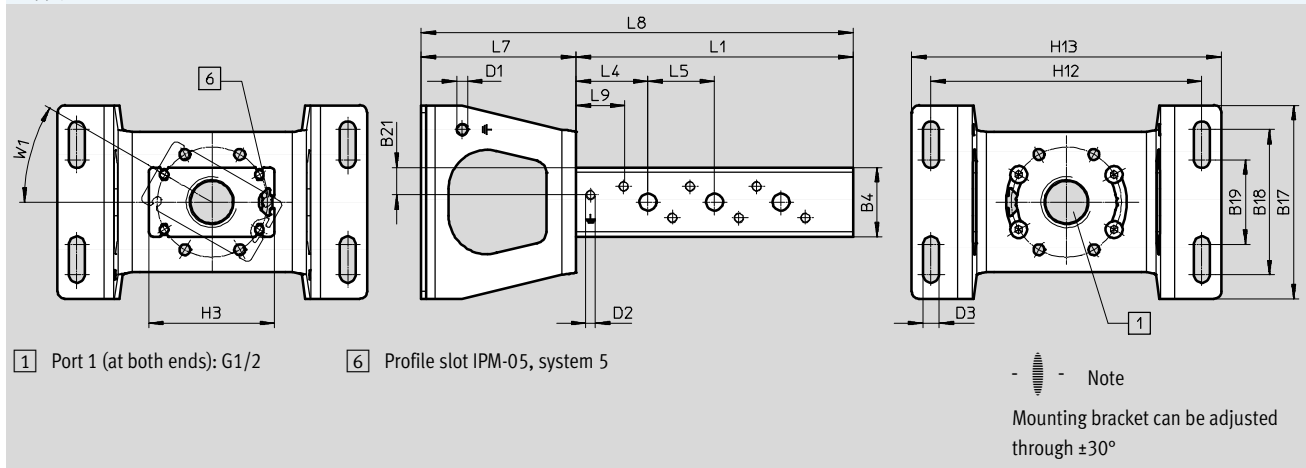
Type	B4	B17	B18	B19	B20	B21	D1 $\varnothing$	D2	D3 $\varnothing$	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-25-G12-...-P53	28.7	75	60	35	27.5	11.4	4.5	M4x9	6.6	52	2	19	8	29.8	27.5	24	6	30

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



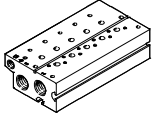

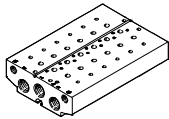

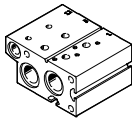
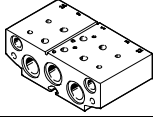
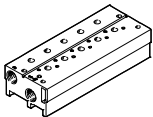

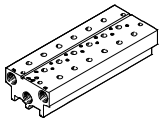

Type	B4	B17	B18	B19	B21	D1 $\varnothing$	D2	D3 $\varnothing$	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-25-G12-...-P53-E	28.7	80	60	35	11.4	4.5	M4x9	6.6	52	128	112	29.8	27.5	64	6	30°

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

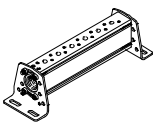
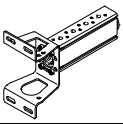
# Manifold block VABM

Ordering data – Manifold block, size 25

Ordering data				
Description	Valve positions	Part No.	Type	
<b>Standard manifold block</b>				
 <p>For 3/2-way valves, incl. seals and screws for mounting valves</p> <p> - Note Blanking plugs for sealing the supply ports (1, 3 and 14) at one end are included in the scope of delivery.</p>	2	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	
	 <p>For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly</p> <p> - Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) at one end are included in the scope of delivery.</p>	2	8026243	VABM-B10-25E-G12-2
3		8026244	VABM-B10-25E-G12-3	
4		8026245	VABM-B10-25E-G12-4	
5		8026246	VABM-B10-25E-G12-5	
6		8026247	VABM-B10-25E-G12-6	
7		8026248	VABM-B10-25E-G12-7	
8		8026249	VABM-B10-25E-G12-8	
9		8026250	VABM-B10-25E-G12-9	
10		8026251	VABM-B10-25E-G12-10	
<b>Manifold block, extension module for standard manifold block</b>				
 <p>For 3/2-way valves, incl. seals and screws for valve assembly</p>	2	8026316	VABM-B10-25EEE-G12-2-P3	
 <p>For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly</p>	2	8026315	VABM-B10-25EEE-G12-2	
<b>Compact manifold block</b>				
 <p>For 3/2-way valves, incl. seals and screws for mounting valves</p> <p> - Note Blanking plugs for sealing the supply ports (1 and 3) at one end are included in the scope of delivery.</p>	2	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	
	 <p>For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly</p> <p> - Note Blanking plugs for sealing the supply ports (1, 3 and 5) at one end are included in the scope of delivery.</p>	2	8026261	VABM-B10-25S-G38-2
3		8026262	VABM-B10-25S-G38-3	
4		8026263	VABM-B10-25S-G38-4	
5		8026264	VABM-B10-25S-G38-5	
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	

## Manifold block VABM

Ordering data – Manifold block, size 25

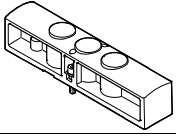
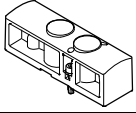

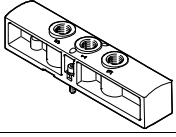
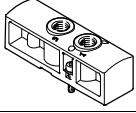

Ordering data			
Description	Valve positions	Part No.	Type
Supply manifold			
	For mounting on both sides, incl. seals and screws for mounting valves	2	<b>8026219</b> VABM-B10-25-G12-2-P53
		3	<b>8026220</b> VABM-B10-25-G12-3-P53
		4	<b>8026221</b> VABM-B10-25-G12-4-P53
		5	<b>8026222</b> VABM-B10-25-G12-5-P53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

-  - Note

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

## Manifold block VABM




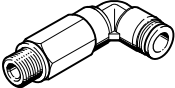
Accessories – Manifold block, size 25

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	117	<b>8026209</b>	<b>VABB-B10-25-E</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 supply manifold	28	<b>8026208</b>	<b>VABB-B10-25-A</b>
<b>Supply plate</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>
 For valve position on manifold block for 3/2-way valves	80	<b>8026319</b>	<b>VABF-B10-25-P1A4-G14-P3</b>
<b>Supply plate</b>			
 For valve position on supply manifold	26	<b>8026317</b>	<b>VABF-B10-25-P1-G14</b>



# Manifold block VABM


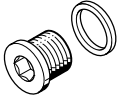

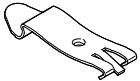
Accessories – Manifold block, size 25

Ordering data					
	Description		Part No.	Type	PU <sup>1)</sup>
<b>Push-in fitting with external hex</b>					
	Connecting thread G3/8 for tubing O.D.	16 mm	<b>186347</b>	<b>QS-G3/8-16</b>	<b>1</b>
	Connecting thread G1/2 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</b>					
	Connecting thread M5 for tubing O.D.	4 mm	<b>153315</b>	<b>QSM-M5-4-I</b>	<b>10</b>
	Connecting thread G1/8 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 G1/4 for tubing O.D.	6 mm	<b>186110</b>	<b>QS-G1/4-8-I</b>	<b>10</b>
		8 mm	<b>186112</b>	<b>QS-G1/4-10-I</b>	<b>10</b>
		10 mm	<b>186111</b>	<b>QS-G3/8-8-I</b>	<b>10</b>
	Connecting thread G3/8 for tubing O.D.	8 mm	<b>186113</b>	<b>QS-G3/8-10-I</b>	<b>10</b>
		10 mm	<b>186114</b>	<b>QS-G3/8-12-I</b>	<b>10</b>
		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 G1/4 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 G3/8 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 G1/2 for tubing O.D.	12 mm	<b>186348</b>	<b>QSL-G3/8-16</b>	<b>1</b>
			<b>186125</b>	<b>QSL-G1/2-12</b>	<b>1</b>
		16 mm	<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 G1/4 for tubing O.D.	6 mm	<b>186129</b>	<b>QSL-G1/4-6</b>	<b>10</b>
		8 mm	<b>186131</b>	<b>QSL-G1/4-8</b>	<b>10</b>
		10 mm	<b>186133</b>	<b>QSL-G1/4-10</b>	<b>10</b>

1) Packaging unit

## Manifold block VABM


Accessories – Manifold block, size 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 size 25, for mounting on standard H-rails TH 35-7.5 or TH 35-15 to EN 60715		2636436	VAME-T-M5	2

1) Packaging unit

## Manifold block VABM

Technical data – Manifold block, size 30

 Flow rate  
Up to 2300 l/min

 Valve width  
31 mm



General technical data								
	Manifold block standard		Extension module for standard manifold block		Manifold block compact		Supply manifold	
							On both sides	On one side
For valves	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2, 5/2, 5/3	
Grid dimension [mm]	32							
Type of mounting	With through-hole						With mounting bracket	
Maximum number of valve positions	10	10	2	2	10	10	10	4
Port 1	G3/4	G3/4	G3/4	G3/4	G1/2	G1/2	G3/4	G3/4
Port 3	G3/4	G3/4	G3/4	G3/4	G1/2	G1/2	–	–
Port 5	–	G3/4	–	G3/4	–	G1/2	–	–
Port 12	G1/8	G1/8	G1/8	G1/8	–	–	–	–
Port 14	–	G1/8	–	G1/8	–	–	–	–
CRC <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-B10-30E-G34-...-P3	1411	1828	2245	2662	3079	3496	3913	4330	4747
Manifold block, extension module for 3/2-way valves, standard									
VABM-B10-30EEE-G34-2-P3	1111	–	–	–	–	–	–	–	–
Manifold block for 5/2- and 5/3-way valves, standard									
VABM-B10-30E-G34-...	1722	2213	2703	3194	3684	4175	4665	5156	5646
Manifold block, extension module for 5/2- and 5/3-way valves, standard									
VABM-B10-30EEE-G34-2	1318	–	–	–	–	–	–	–	–
Manifold block for 3/2-way valves, compact									
VABM-B10-30S-G12-...-P3	652	872	1093	1313	1533	1753	1973	2193	2413
Manifold block for 5/2- and 5/3-way valves, compact									
VABM-B10-30S-G12-...	759	1013	1267	1522	1776	2030	2285	2539	2793
Supply manifold for mounting on both sides									
VABM-B10-30-G34-...-P53	818	977	1135	1293	1452	1610	1768	1927	2085
Supply manifold for mounting on one side									
VABM-B10-30-G34-...-P53-E	852	1011	1169	–	–	–	–	–	–

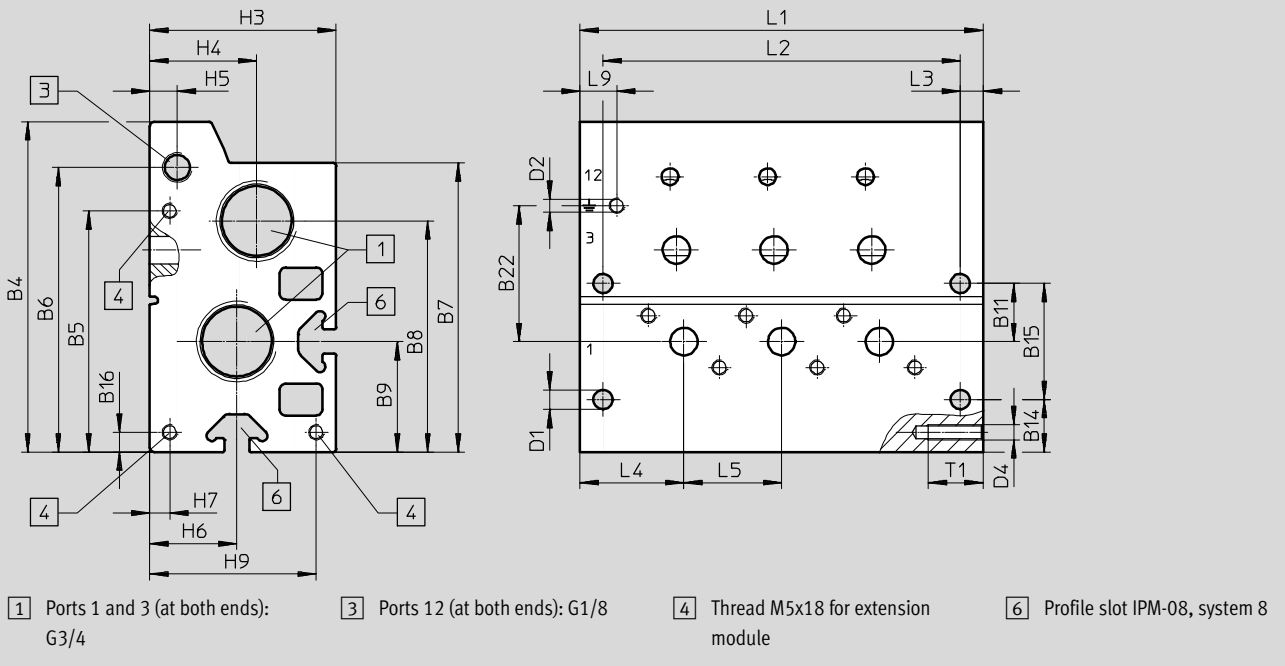
Information on materials	
Materials	Wrought aluminium alloy
Note on materials	RoHS compliant

# Manifold block VABM

Technical data – Manifold block, size 30

## Dimensions

Manifold block for 3/2-way valves, standard



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

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

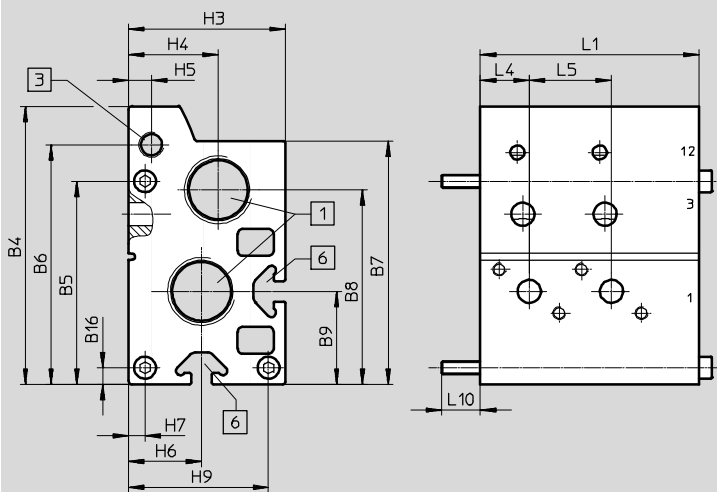
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	100	132	164	196	228	260	292	324	356
L2 [mm]	85	117	149	181	213	245	277	309	341

# Manifold block VABM

Technical data – Manifold block, size 30

## Dimensions

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



- 1 Ports 1 and 3: threaded port G3/4 at one end
- 3 Threaded port 12: G1/8 at one end
- 6 Profile slot IPM-08, system 8

Type	B4	B5	B6	B7	B8	B9	B16	H3	H4	H5	H6	H7	H9	L4	L5	L10
VABM-B10-30EEE-G34-2-P3	108.2	79	93.2	94.7	75.7	36.2	6.5	61	35	9	28.5	6.5	54.5	19	32	15

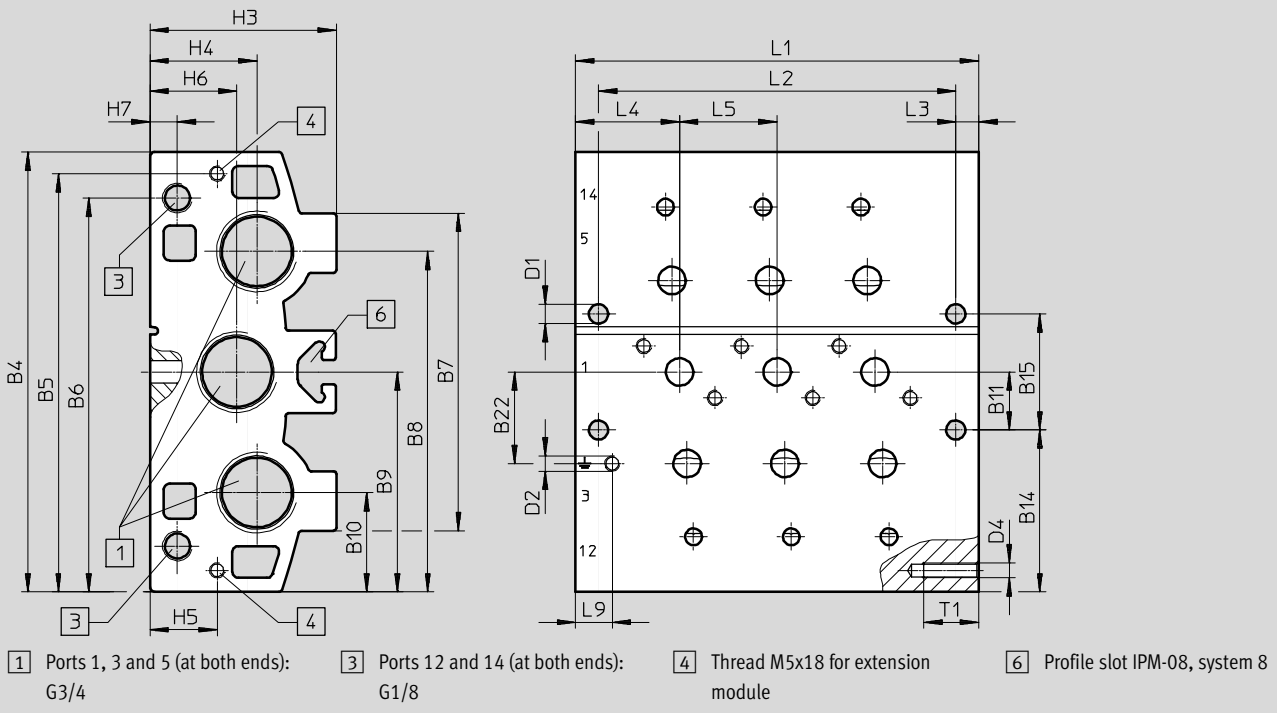
Valve positions	2
L1 [mm]	85

# Manifold block VABM

Technical data – Manifold block, size 30

## Dimensions

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



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

Type	D1 Ø	D2	D4	H3	H4	H5	H6	H7	L3	L4	L5	L9	T1
VABM-B10-30E-G34-...	6.3	M5*11	M5	61	35	22	28.5	9	7.5	34	32	12	18

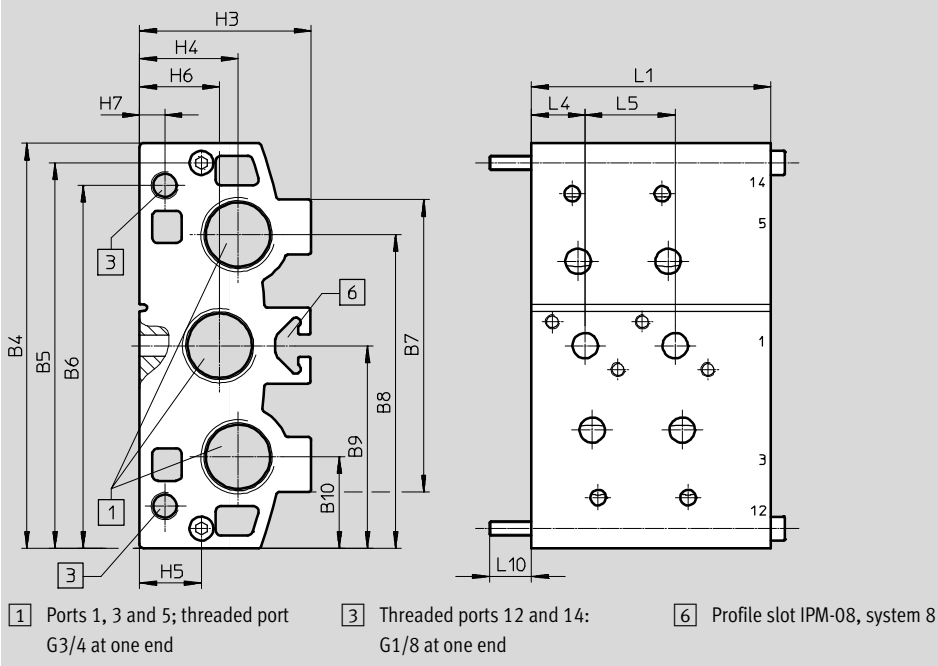
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	100	132	164	196	228	260	292	324	356
L2 [mm]	85	117	149	181	213	245	277	309	341

# Manifold block VABM

Technical data – Manifold block, size 30

## 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	L4	L5	L10
VABM-B10-30EEE-G34-2	144	137	129	104	111.5	72	32.5	61	35	22	28.5	9	19	32	15

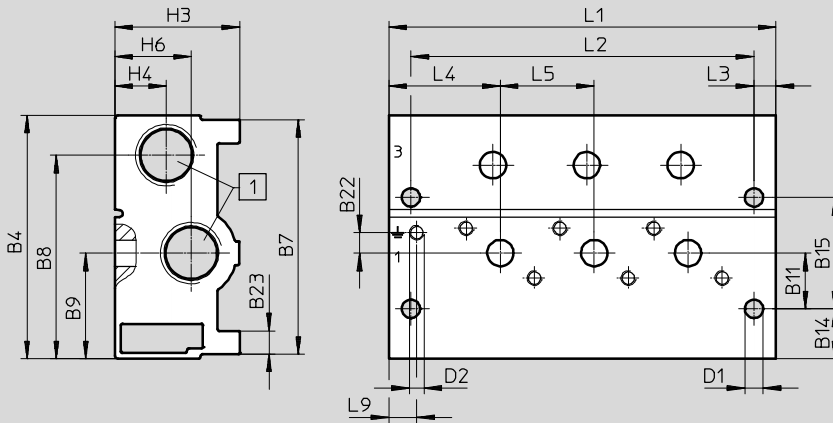
Valve positions	2
L1 [mm]	85

# Manifold block VABM

Technical data – Manifold block, size 30

## Dimensions

Manifold block for 3/2-way valves, compact



1 Ports 1 and 3 (at both ends):  
G1/2

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

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

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

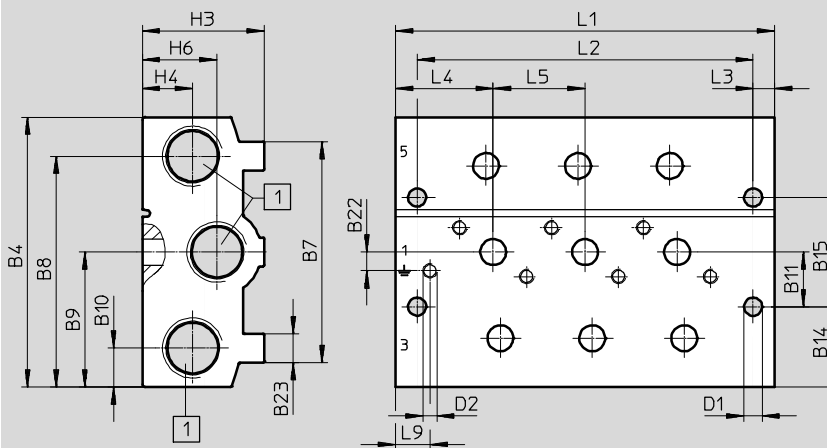


# Manifold block VABM

Technical data – Manifold block, size 30

## Dimensions

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



1 Ports 1, 3 and 5 (at both ends):  
G1/2

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

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

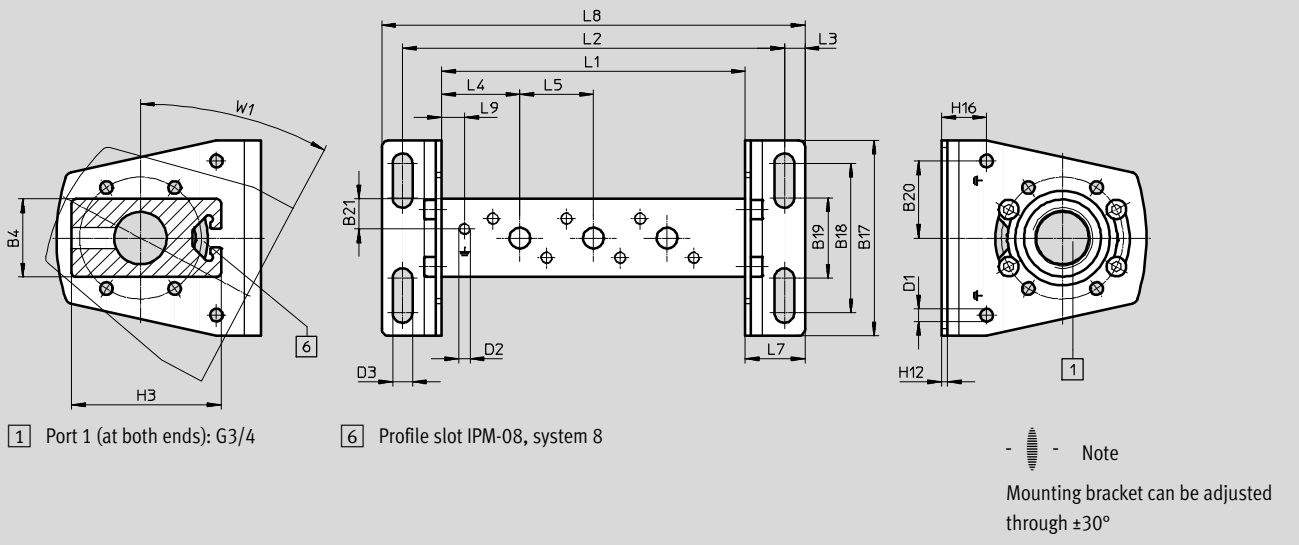
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	100	132	164	196	228	260	292	324	356
L2 [mm]	85	117	149	181	213	245	277	309	341

# Manifold block VABM

Technical data – Manifold block, size 30

## Dimensions

Supply manifold, mounting on both sides

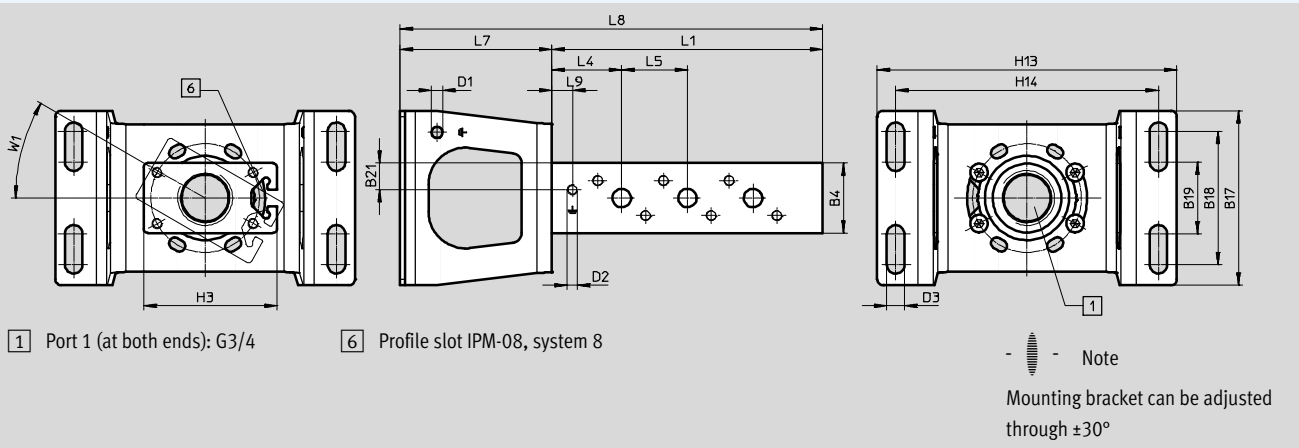


Type	B4	B17	B18	B19	B20	B21	D1 $\varnothing$	D2	D3 $\varnothing$	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-30-G34-...-P53	34	85	65	35	33.5	13	5.5	M5x11	8.6	65	2.5	19.5	9	34	32	26	10	28°

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

## Dimensions

Supply manifold, mounting on one side

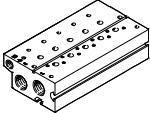

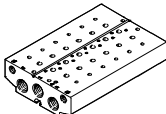

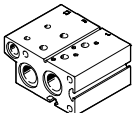
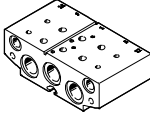
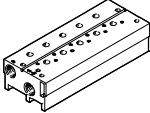

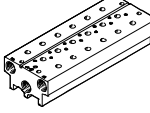



Type	B4	B17	B18	B19	B21	D1 $\varnothing$	D2	D3 $\varnothing$	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-30-G34-...-P53-E	34	85	65	35	13	5.5	M5x11	8.6	65	146	128	34	32	74	10	30°

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

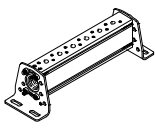
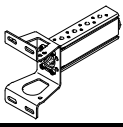
# Manifold block VABM

Ordering data – Manifold block, size 30

Ordering data				
Description	Valve positions	Part No.	Type	
<b>Standard manifold block</b>				
 <p>For 3/2-way valves, incl. seals and screws for mounting valves</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3 and 14) at one end are included in the scope of delivery.</p>	2	8026395	VABM-B10-30E-G34-2-P3	
	3	8026396	VABM-B10-30E-G34-3-P3	
	4	8026397	VABM-B10-30E-G34-4-P3	
	5	8026398	VABM-B10-30E-G34-5-P3	
	6	8026399	VABM-B10-30E-G34-6-P3	
	7	8026400	VABM-B10-30E-G34-7-P3	
	8	8026401	VABM-B10-30E-G34-8-P3	
	9	8026402	VABM-B10-30E-G34-9-P3	
	10	8026403	VABM-B10-30E-G34-10-P3	
	 <p>For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) at one end are included in the scope of delivery.</p>	2	8026359	VABM-B10-30E-G34-2
3		8026360	VABM-B10-30E-G34-3	
4		8026361	VABM-B10-30E-G34-4	
5		8026362	VABM-B10-30E-G34-5	
6		8026363	VABM-B10-30E-G34-6	
7		8026364	VABM-B10-30E-G34-7	
8		8026365	VABM-B10-30E-G34-8	
9		8026366	VABM-B10-30E-G34-9	
10		8026367	VABM-B10-30E-G34-10	
<b>Manifold block, extension module for standard manifold block</b>				
 <p>For 3/2-way valves, incl. seals and screws for valve assembly</p>	2	8026432	VABM-B10-30EEE-G34-2-P3	
 <p>For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly</p>	2	8026431	VABM-B10-30EEE-G34-2	
<b>Compact manifold block</b>				
 <p>For 3/2-way valves, incl. seals and screws for mounting valves</p> <p>-  - Note Blanking plugs for sealing the supply ports (1 and 3) at one end are included in the scope of delivery.</p>	2	8026413	VABM-B10-30S-G12-2-P3	
	3	8026414	VABM-B10-30S-G12-3-P3	
	4	8026415	VABM-B10-30S-G12-4-P3	
	5	8026416	VABM-B10-30S-G12-5-P3	
	6	8026417	VABM-B10-30S-G12-6-P3	
	7	8026418	VABM-B10-30S-G12-7-P3	
	8	8026419	VABM-B10-30S-G12-8-P3	
	9	8026420	VABM-B10-30S-G12-9-P3	
	10	8026421	VABM-B10-30S-G12-10-P3	
	 <p>For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3 and 5) at one end are included in the scope of delivery.</p>	2	8026377	VABM-B10-30S-G12-2
3		8026378	VABM-B10-30S-G12-3	
4		8026379	VABM-B10-30S-G12-4	
5		8026380	VABM-B10-30S-G12-5	
6		8026381	VABM-B10-30S-G12-6	
7		8026382	VABM-B10-30S-G12-7	
8		8026383	VABM-B10-30S-G12-8	
9		8026384	VABM-B10-30S-G12-9	
10		8026385	VABM-B10-30S-G12-10	

## Manifold block VABM

Ordering data – Manifold block, size 30

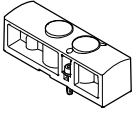
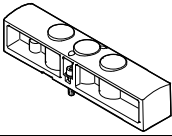

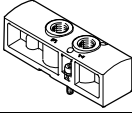
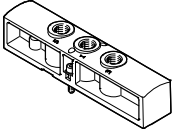

Ordering data			
Description	Valve positions	Part No.	Type
Supply manifold			
 <p>For mounting on both sides, incl. seals and screws for mounting valves</p>	2	<b>8026338</b>	<b>VABM-B10-30-G34-2-P53</b>
	3	<b>8026339</b>	<b>VABM-B10-30-G34-3-P53</b>
	4	<b>8026340</b>	<b>VABM-B10-30-G34-4-P53</b>
	5	<b>8026341</b>	<b>VABM-B10-30-G34-5-P53</b>
	6	<b>8026342</b>	<b>VABM-B10-30-G34-6-P53</b>
	7	<b>8026343</b>	<b>VABM-B10-30-G34-7-P53</b>
	8	<b>8026344</b>	<b>VABM-B10-30-G34-8-P53</b>
	9	<b>8026345</b>	<b>VABM-B10-30-G34-9-P53</b>
	10	<b>8026346</b>	<b>VABM-B10-30-G34-10-P53</b>
	 <p>For mounting on one side, incl. seals and screws for valve assembly</p>	2	<b>8026356</b>
3		<b>8026357</b>	<b>VABM-B10-30-G34-3-P53-E</b>
4		<b>8026358</b>	<b>VABM-B10-30-G34-4-P53-E</b>

 - Note

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




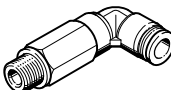

## Manifold block VABM

Accessories – Manifold block, size 30

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

# Manifold block VABM




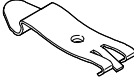
Accessories – Manifold block, size 30

Ordering data						
	Description		Part No.	Type	PU <sup>1)</sup>	
<b>Push-in fitting with internal hex</b>						
	Connecting thread G1/8 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>
	Connecting thread G3/8 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 G1/2 for tubing O.D.	12 mm	<b>186115</b>	<b>QS-G1/2-12-I</b>	<b>1</b>		
<b>Push-in fitting with external hex</b>						
	Connecting thread G1/2 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>Angled push-in fitting with external hex</b>						
	Connecting thread G3/8 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 G1/2 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 G1/2 for tubing O.D.	8 mm	<b>186132</b>	<b>QSL-G3/8-8</b>	<b>10</b>	
		10 mm	<b>186134</b>	<b>QSL-G3/8-10</b>	<b>10</b>	
		12 mm	<b>186135</b>	<b>QSL-G3/8-12</b>	<b>10</b>	
<b>Barbed fitting with external hex</b>						
	Connecting thread G3/4 for tubing I.D. Aluminium design	13 mm	<b>3612</b>	<b>N-3/4-P-13</b>	<b>1</b>	
		19 mm	<b>3613</b>	<b>N-3/4-P-19</b>	<b>1</b>	
	Connecting thread G3/4 for tubing I.D. Brass design	13 mm	<b>15637</b>	<b>N-3/4-P-13-MS</b>	<b>1</b>	
		19 mm	<b>15638</b>	<b>N-3/4-P-19-MS</b>	<b>1</b>	

1) Packaging unit

## Manifold block VABM

Accessories – Manifold block, size 30

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

1) Packaging unit