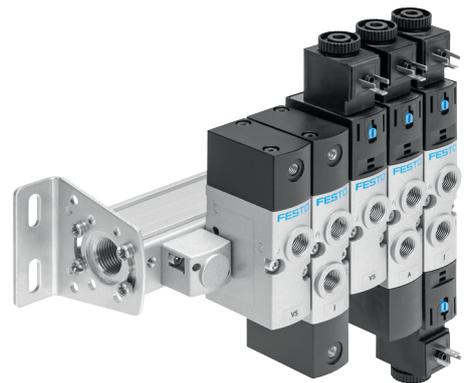


## Pneumatic valves VUWS/valve manifold assembly VTUS

**FESTO**



## Key features



### Innovative

- A reliable, sturdy valve with a long service life
- Design principle:
  - Poppet seat, soft-sealing (VUWS-LT)
  - Piston spool with sealing cartridge (VUWS-L)
- Flow rate up to 1800 l/min with VUWS-LT
- Flow rate up to 2300 l/min with VUWS-L
- Wide range of valve functions

### Versatile

- In-line valves can be used as individual valves or manifold valves
- Flexible pressure zones
- Wide range of mounting options

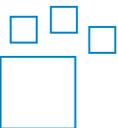
### Reliable

- Ergonomic and 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
- Common supply manifolds for mounting on one or both sides
- Solid wall mounting or DIN rail mounting

### Ordering data – Product options



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

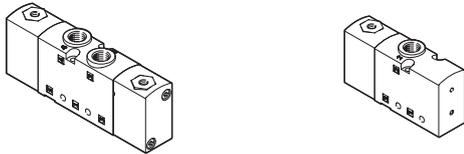
The configurator can be found at  
→ [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...)  
Enter the part number or the type.

Part no.	Type
576517	VUWS-20
8022015	VUWS-25
8022018	VUWS-30
577304	VTUS-20
8022016	VTUS-25
8022019	VTUS-30

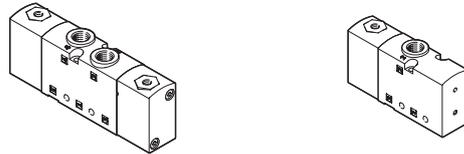
## Key features

### Pneumatic valves VUWS

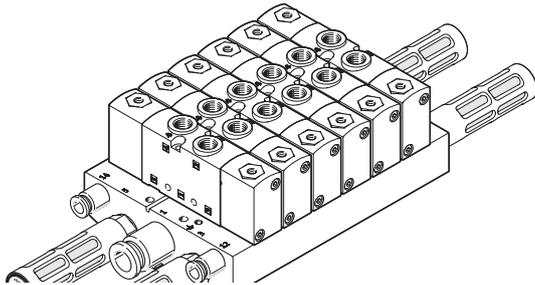
In-line valve VUWS-L as individual valve (piston spool valve)



In-line valve VUWS-LT as individual valve (poppet seat valve)



### VTUS valve manifold assembly

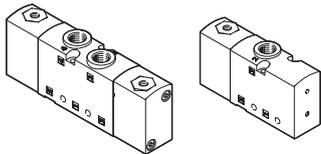


In-line valves are designed to be used without being linked pneumatically. All pneumatic connections are on the valve and can be equipped with fittings/tubing. By using a special seal set, the in-line valves can also be mounted on a manifold rail (pneumatic links) as semi in-line valves.

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.

### Equipment options

VUWS-LT



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

Valve functions VUWS-LT

3/2-way valve, normally open, monostable:

- Mechanical spring return
- Flow direction not reversible

3/2-way valve, normally closed, monostable:

- Mechanical spring return
- Flow direction not reversible

2x 3/2-way valve, normally open, monostable:

- Mechanical spring return
- Flow direction not reversible

2x 3/2-way valve, normally closed, monostable:

- Mechanical spring return
- Flow direction not reversible

2x 3/2-way valve, 1x normally open, 1x normally closed, monostable:

- Mechanical spring return
- Flow direction not reversible

5/2-way valve, monostable:

- Mechanical spring return
- Flow direction not reversible
- Can also be used as 3/2-way valve by closing one output port

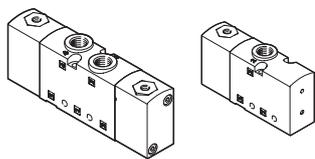
5/2-way valve, bistable:

- Flow direction not reversible

## Key features

### Equipment options

#### VUWS-L



- 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

#### Valve functions VUWS-L

- 3/2-way valve, normally open, monostable:
- External pneumatic spring connection (M32U-E)
  - Pneumatic/mechanical spring return
  - Flow direction reversible with mechanical spring return 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)
  - Pneumatic/mechanical spring return
  - Flow direction reversible with mechanical spring return or external pneumatic spring connection
  - Can also be used as 3/2-way valve by closing one output port
- 5/2-way valve, bistable:
- reversible flow direction
- 5/3-way valve, mid-position exhausted, pressurised or closed:
- reversible flow direction
  - Mechanical spring return
- 3/2-way valve, normally closed, monostable:
- External pneumatic spring connection (M32C-E)
  - Pneumatic/mechanical spring return
  - Flow direction reversible with mechanical spring return 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

### 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 in increments of 1, valve positions 10 ... 16 in increments of 2
- Manifold block with a maximum of 10 valve positions
- Extension module with 2 valve positions
- Common supply manifold with a maximum of 10 valve positions
- Creation of pressure zones (maximum 9 pressure zones in the case of a valve manifold assembly with 16 valve positions)

### Design

#### Replacing valves

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

This means that the valves can be easily replaced.

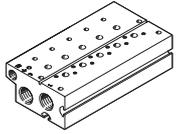
#### Extension

Valve positions covered with cover plates can be replaced with valves at a later date. The dimensions, mounting points and existing pneumatic installations remain unchanged. For the standard manifold block, extension modules with 2 valve positions are available.

## Key features

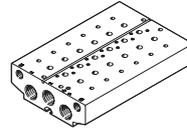
### Standard manifold block

For 3/2-way valves



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

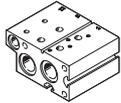
For 5/2-way and 5/3-way valves



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

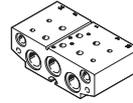
### Extension for standard manifold block

For 3/2-way valves



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

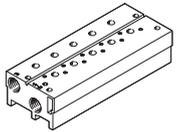
For 5/2-way and 5/3-way valves



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

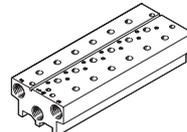
### Compact manifold block

For 3/2-way valves



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

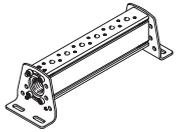
For 5/2-way and 5/3-way valves



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

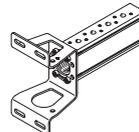
### Common supply manifold

Mounting on both sides



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

Mounting on one side



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

### Cover plate for vacant position



For covering vacant valve positions

### Supply plate



For additional air supply and exhaust via a valve position

### Separator for pressure zones



For creating pressure zones (maximum of 9 pressure zones permitted)

### Note

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

## Key features – Pneumatic components

### Creating pressure zones and separating exhaust air

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

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

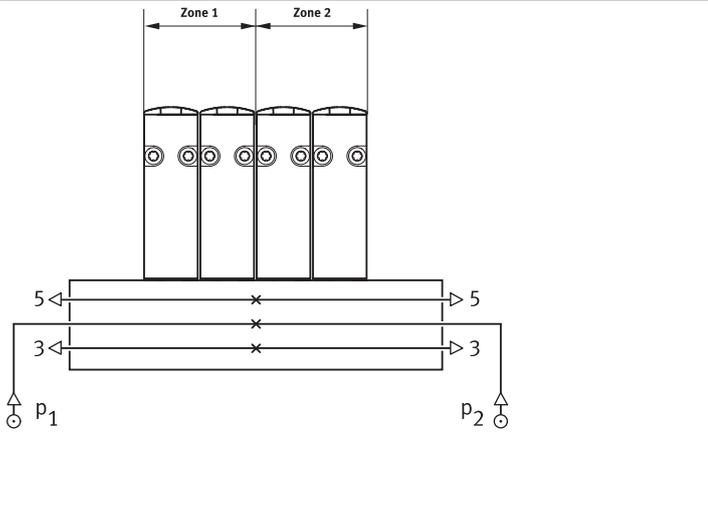
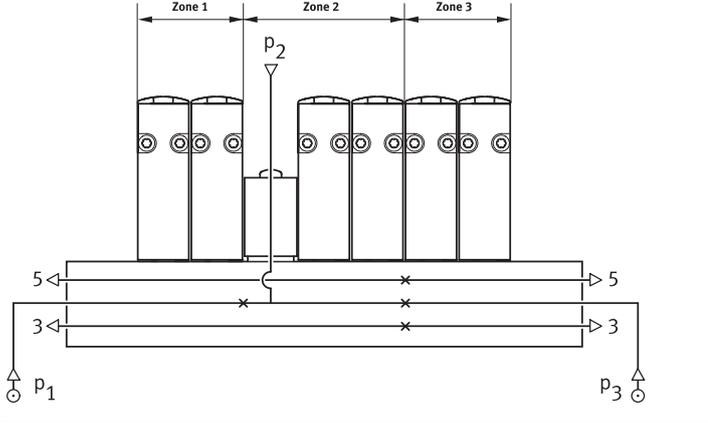
A pressure zone is created by isolating the internal ducts between the valve positions with an appropriate separator.

The separator can be used in the following ducts:

- Duct 1
- Duct 3
- Duct 5

 **Note**

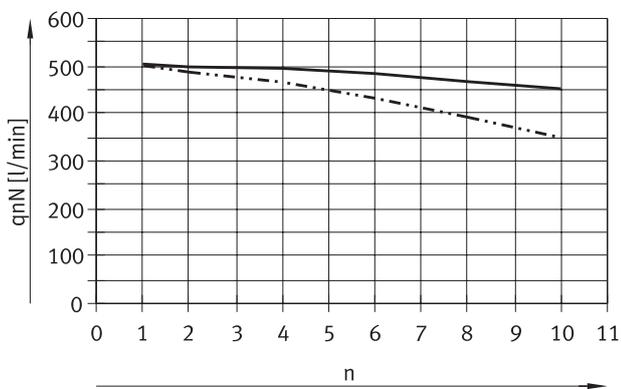
- Use a separator if the exhaust air pressures are high
- Use at least one supply plate/air supply for each pressure zone

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/common 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>

### Key features – Pneumatic components VUWS-LT

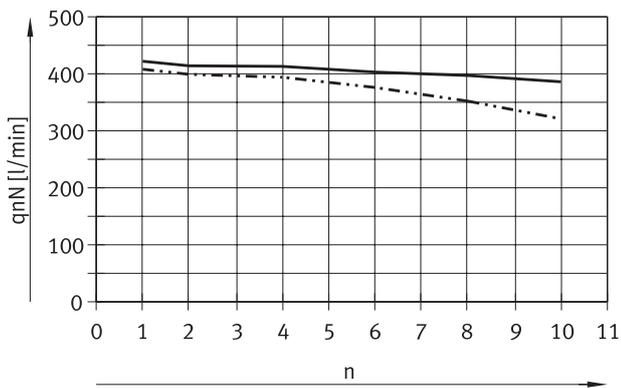
**Size 20 – Standard nominal flow rate  $q_{nN}$ , with several valves  $n$  switched in parallel**

For 3/2-way valves



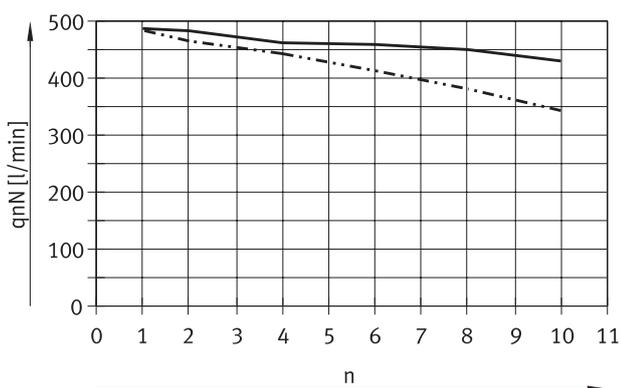
- Standard nominal flow rate per valve on manifold rail Standard
- · - · Standard nominal flow rate per valve on manifold rail Compact

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



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

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



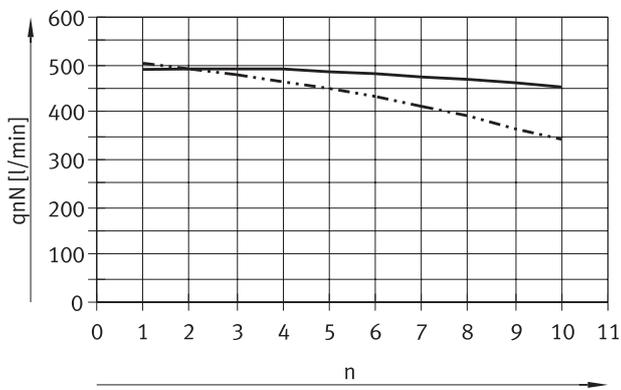
- Standard nominal flow rate per valve on manifold rail Standard
- · - · Standard nominal flow rate per valve on manifold rail Compact

## Key features – Pneumatic components VUWS-LT

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

For 2x 3/2-way valves

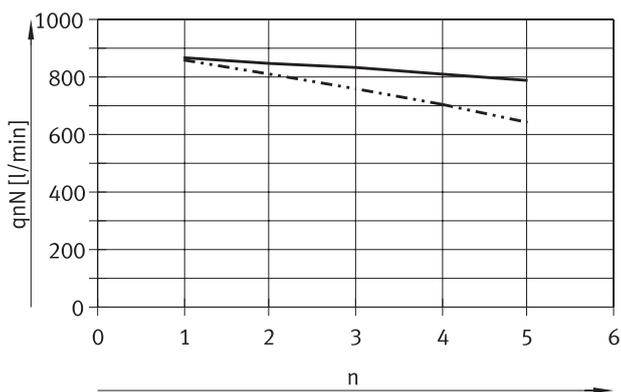
One valve function per valve position in open switching position



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

For 2x 3/2-way valves

Both valve functions per valve position simultaneously in open switching position

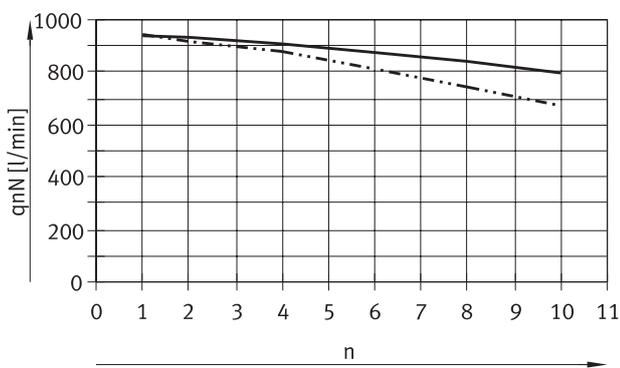


- Standard nominal flow rate per valve on manifold rail  
Standard
- - - Standard nominal flow rate per valve on manifold rail  
Compact

## Key features – Pneumatic components VUWS-LT

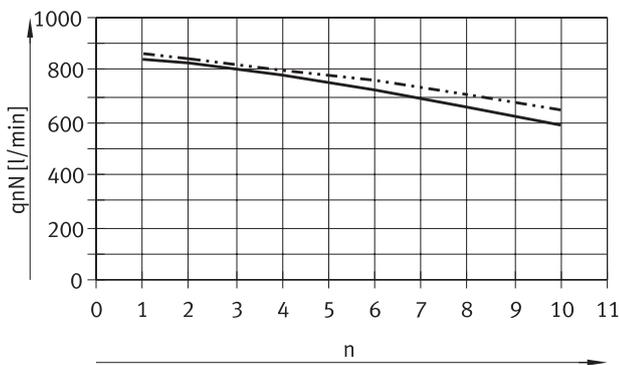
### Size 25 – Standard nominal flow rate $q_{nN}$ , with several valves $n$ switched in parallel

For 3/2-way valves



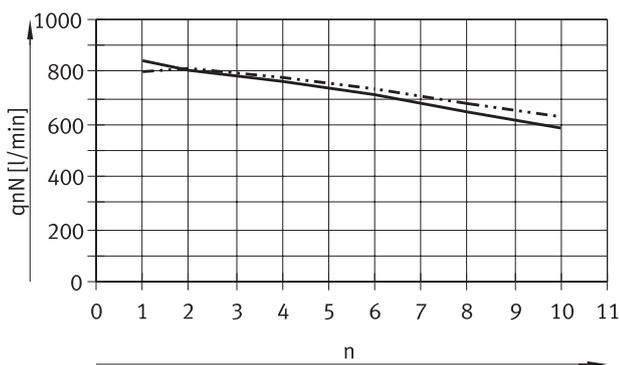
- Standard nominal flow rate per valve on manifold rail Standard
- - - Standard nominal flow rate per valve on manifold rail Compact

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



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

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



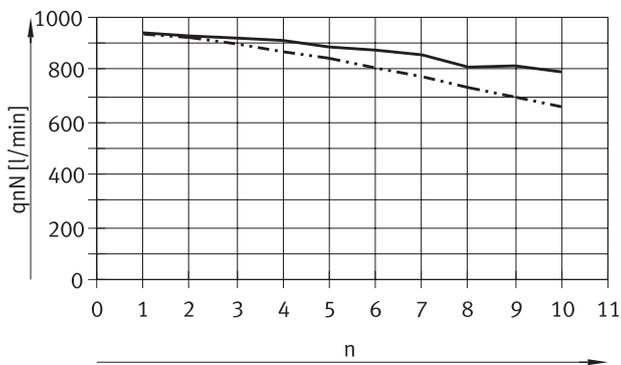
- Standard nominal flow rate per valve on manifold rail Standard
- - - Standard nominal flow rate per valve on manifold rail Compact

## Key features – Pneumatic components VUWS-LT

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

For 2x 3/2-way valves

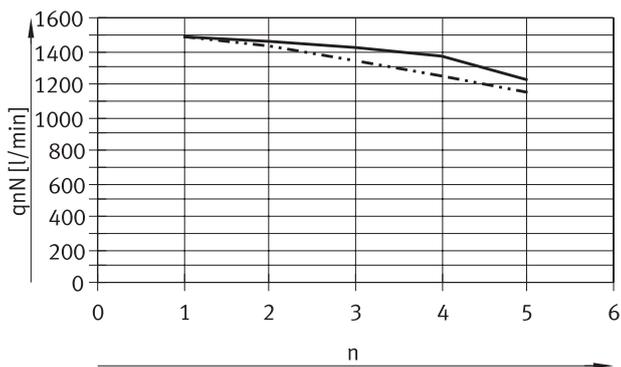
One valve function per valve position in open switching position



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

For 2x 3/2-way valves

Both valve functions per valve position simultaneously in open switching position

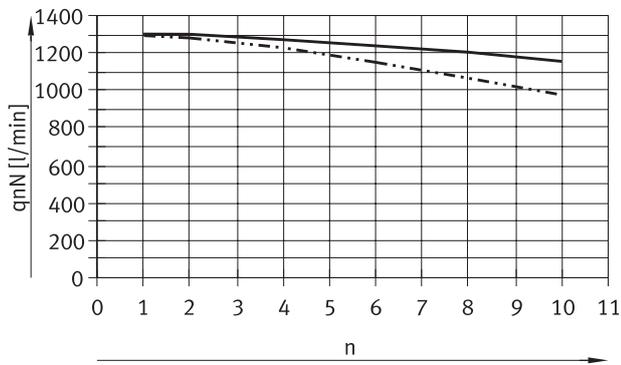


- Standard nominal flow rate per valve on manifold rail Standard
- - - Standard nominal flow rate per valve on manifold rail Compact

## Key features – Pneumatic components VUWS-LT

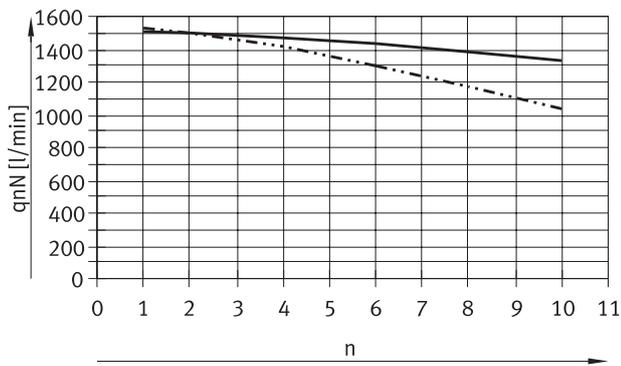
### Size 30 – Standard nominal flow rate $q_{nN}$ , with several valves $n$ switched in parallel

For 3/2-way valves



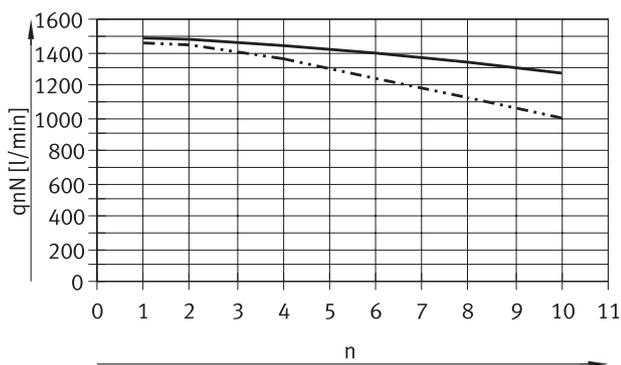
- Standard nominal flow rate per valve on manifold rail Standard
- - - Standard nominal flow rate per valve on manifold rail Compact

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



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

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



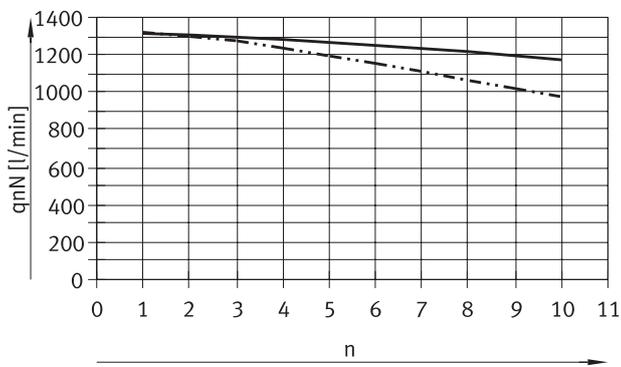
- Standard nominal flow rate per valve on manifold rail Standard
- - - Standard nominal flow rate per valve on manifold rail Compact

## Key features – Pneumatic components VUWS-LT

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

For 2x 3/2-way valves

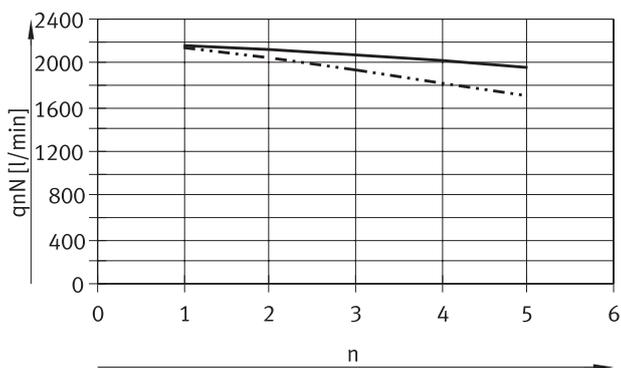
One valve function per valve position in open switching position



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

For 2x 3/2-way valves

Both valve functions per valve position simultaneously in open switching position



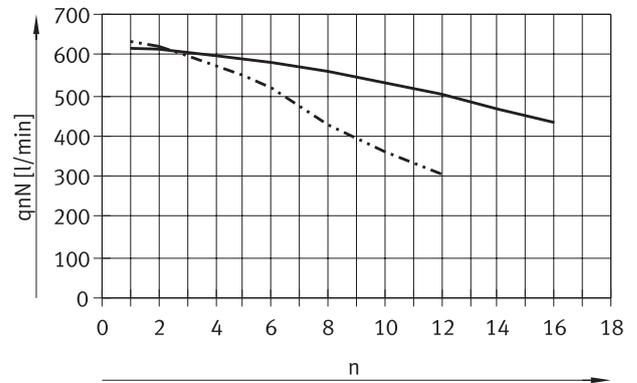
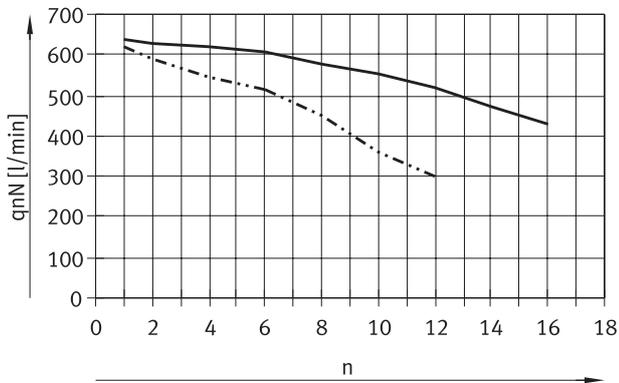
- Standard nominal flow rate per valve on manifold rail Standard
- - - Standard nominal flow rate per valve on manifold rail Compact

## Key features – Pneumatic components VUWS-L

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

For 3/2-way valves

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



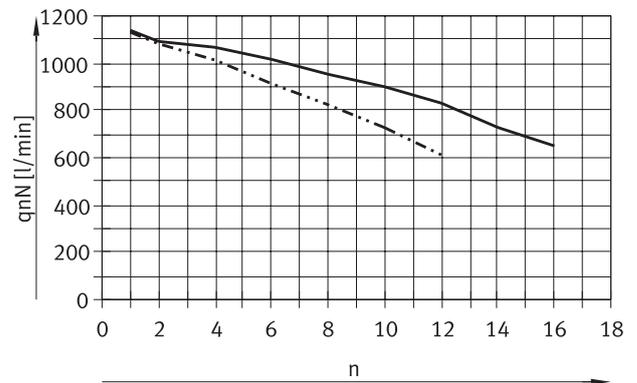
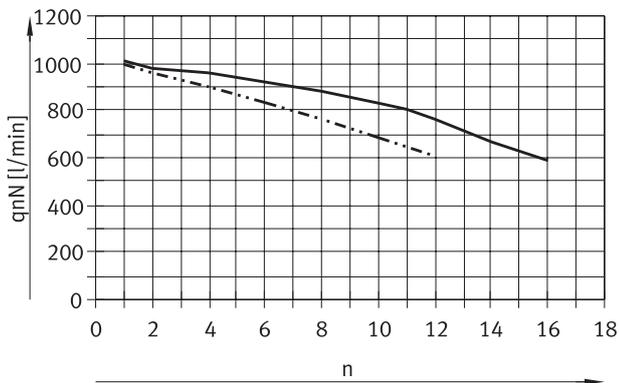
- Standard nominal flow rate per valve on manifold rail Standard
- - - Standard nominal flow rate per valve on manifold rail Compact

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

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

For 3/2-way valves

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



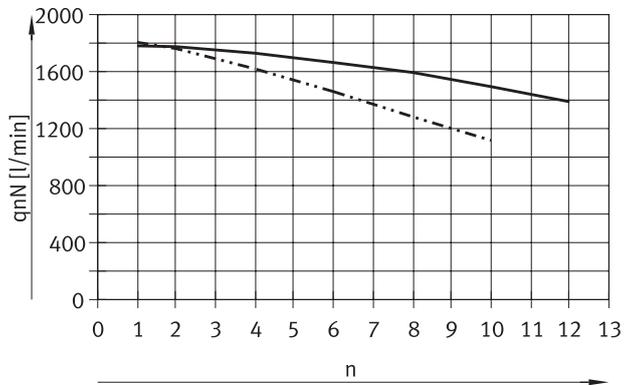
- Standard nominal flow rate per valve on manifold rail Standard
- - - Standard nominal flow rate per valve on manifold rail Compact

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

## Key features – Pneumatic components VUWS-L

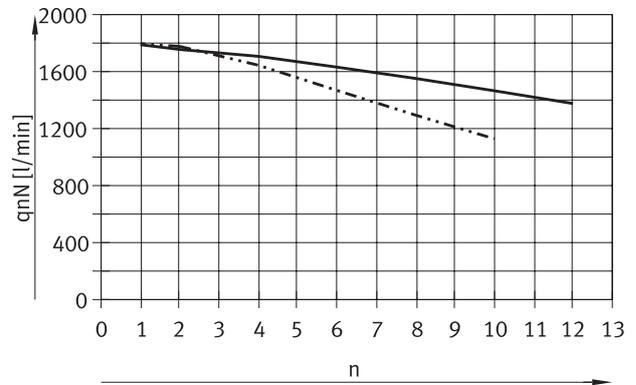
### Size 30 – Standard nominal flow rate $q_{nN}$ , with several valves $n$ switched in parallel

For 3/2-way valves



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

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

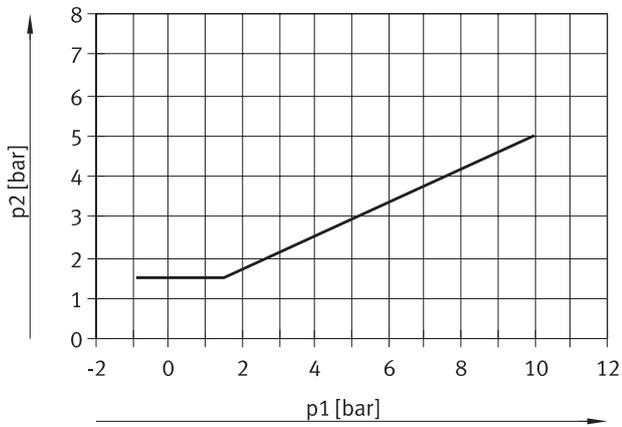


- Standard nominal flow rate per valve on manifold rail Standard
- - - Standard nominal flow rate per valve on manifold rail Compact

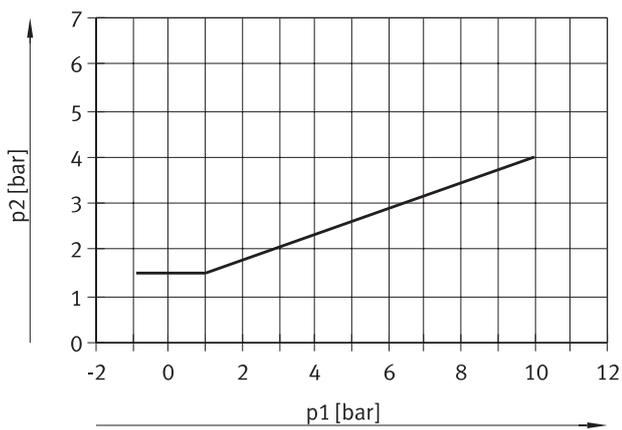
## Key features – Pneumatic components VUWS-LT

**Size 20 – Pilot pressure  $p_2$  as a function of working pressure  $p_1$** 

For 3/2-way valves

**Size 25 – Pilot pressure  $p_2$  as a function of working pressure  $p_1$** 

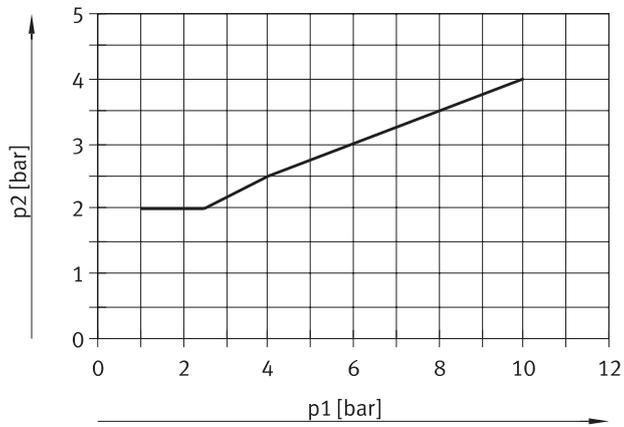
For 3/2-way valves



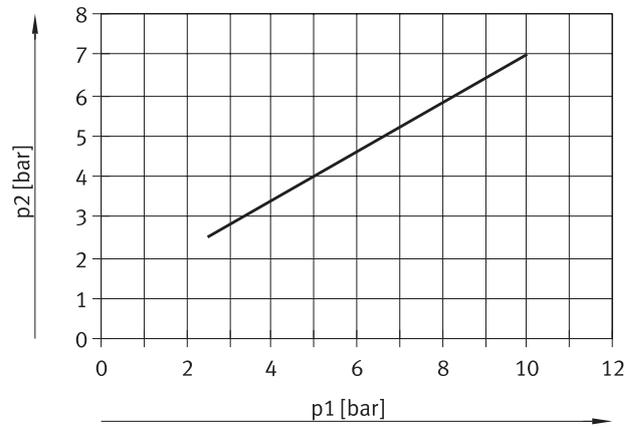
## Key features – Pneumatic components VUWS-LT

### Size 30 – Pilot pressure $p_2$ as a function of working pressure $p_1$

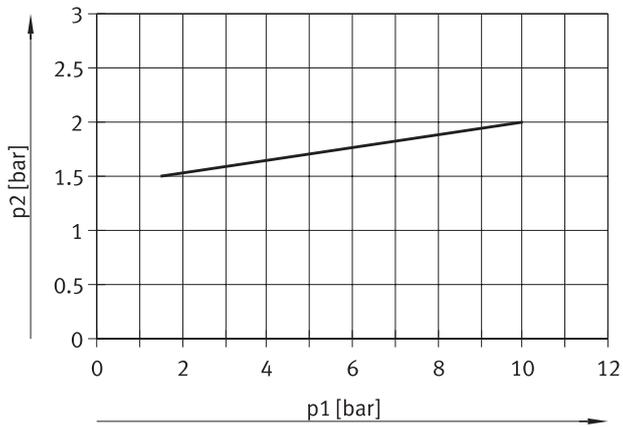
For 3/2-way valves



For 5/2-way valves, monostable



For 5/2-way valves, double solenoid



## Key features – Mounting

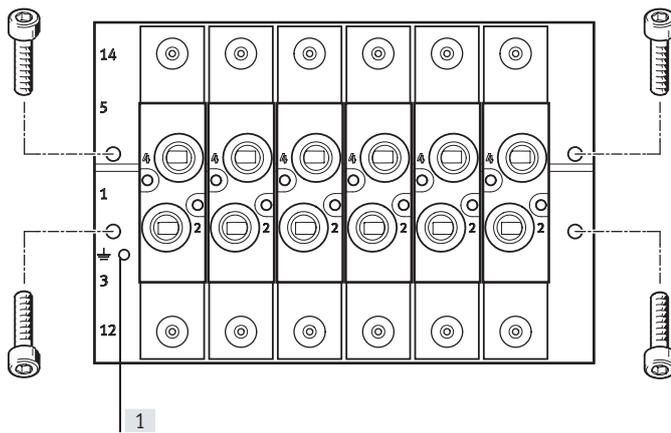
### Mounting the valve manifold assembly

- Sturdy manifold assembly thanks to:
- Four through-holes for wall mounting
  - DIN rail mounting

 **Note**

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

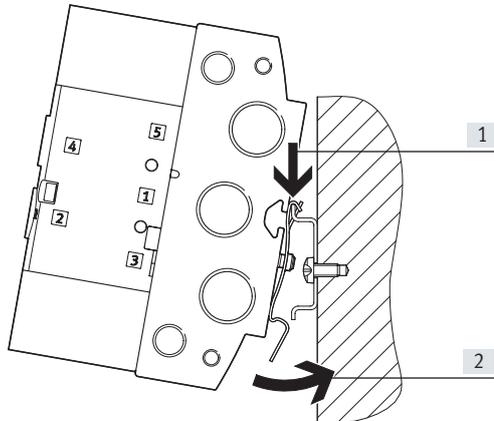
### Wall mounting



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

[1] Earth connection

### DIN rail mounting



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

The manifold block is then lowered onto the DIN rail from above (arrow 1) and clipped into the DIN rail at the bottom (arrow 2).

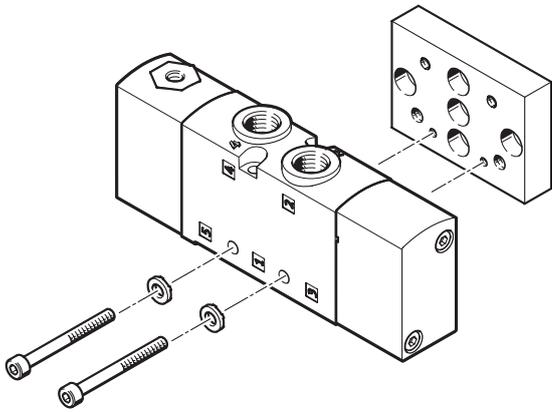
 **Note**

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

## Key features – Mounting

### Mounting individual valve VUWS

#### Wall mounting



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

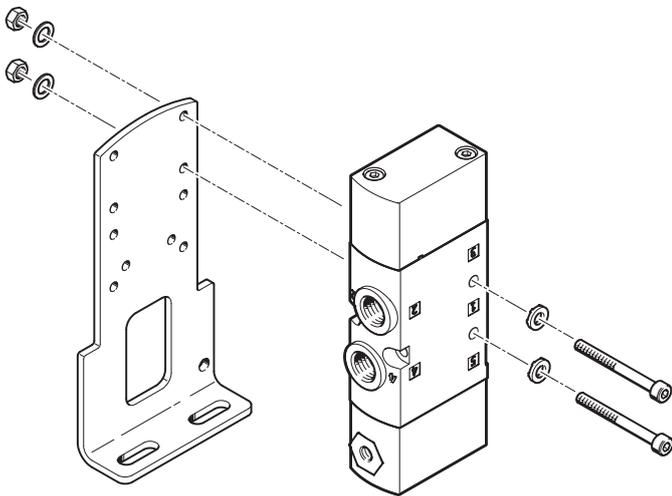
The pneumatic valves are provided with two through-holes for attaching to the wall mounting VAME-B10-20-W.

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

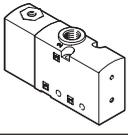
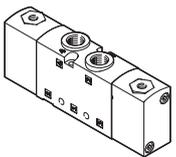
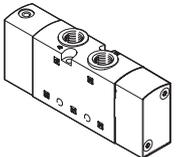
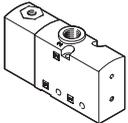
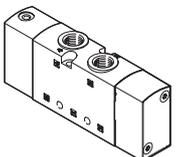
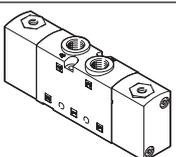
VAME-B10-...-A.

#### Note

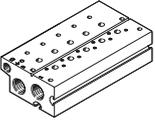
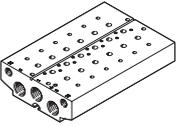
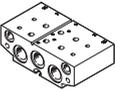
Further mounting options for foot mounting VAME-B10-...-A

→ Data sheet – Pneumatic valves, dimensions

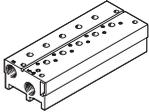
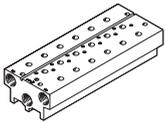
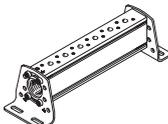
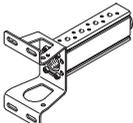
## Product range overview

Design	Size	Working port	Order code for valves and flow rate [l/min]										→ Page/Internet	
			M32C	M32U	T32C	T32U	T32H	M52	B52	P53C	P53E	P53U		
<b>3/2-way valve VUWS-LT</b>														
	20	G1/8	600	600	-	-	-	-	-	-	-	-	44	
	25	G1/4	1000	1000	-	-	-	-	-	-	-	-	61	
	30	G3/8	1600	1600	-	-	-	-	-	-	-	-	64	
<b>2x 3/2-way valve VUWS-LT</b>														
	20	G1/8	-	-	600	600	600	-	-	-	-	-	44	
	25	G1/4	-	-	1000	1000	1000	-	-	-	-	-	61	
	30	G3/8	-	-	1600	1600	1600	-	-	-	-	-	64	
<b>5/2-way valve VUWS-LT</b>														
	20	G1/8	-	-	-	-	-	-	500	500	-	-	44	
	25	G1/4	-	-	-	-	-	-	1000	1000	-	-	61	
	30	G3/8	-	-	-	-	-	-	1800	1800	-	-	64	
<b>3/2-way valve VUWS-L</b>														
	20	G1/8	700	700	-	-	-	-	-	-	-	-	82	
	25	G1/4	1000	1000	-	-	-	-	-	-	-	-	92	
	30	G3/8	2300	2300	-	-	-	-	-	-	-	-	102	
<b>5/2-way valve VUWS-L</b>														
	20	G1/8	-	-	-	-	-	-	700	700	-	-	82	
	25	G1/4	-	-	-	-	-	-	1300	1300	-	-	92	
	30	G3/8	-	-	-	-	-	-	2300	2300	-	-	102	
<b>5/3-way valve VUWS-L</b>														
	20	G1/8	-	-	-	-	-	-	-	-	700	600	600	82
	25	G1/4	-	-	-	-	-	-	-	-	1200	1000	1000	92
	30	G3/8	-	-	-	-	-	-	-	-	2000	1600	1600	102

## Product range overview

Design	Size	Description		→ Page/Internet
<b>Manifold block for 3/2-way valves, standard</b>				
	20	VABM-B10-20E-G38- ... -P3	Connection size G3/8	112
	25	VABM-B10-25E-G12- ... -P3	Connection size G1/2	125
	30	VABM-B10-30E-G34- ... -P3	Connection size G3/4	138
<b>Manifold block extension module for 3/2-way valves, standard</b>				
	20	VABM-B10-20EEE-G38- ... -P3	Connection size G3/8	112
	25	VABM-B10-25EEE-G12- ... -P3	Connection size G1/2	125
	30	VABM-B10-30EEE-G34- ... -P3	Connection size G3/4	138
<b>Manifold block for 5/2- and 5/3-way valves, standard</b>				
	20	VABM-B10-20E-G38- ...	Connection size G3/8	112
	25	VABM-B10-25E-G12- ...	Connection size G1/2	125
	30	VABM-B10-30E-G34- ...	Connection size G3/4	138
<b>Manifold block extension module for 5/2- and 5/3-way valves, standard</b>				
	20	VABM-B10-20EEE-G38- ...	Connection size G3/8	112
	25	VABM-B10-25EEE-G12- ...	Connection size G1/2	125
	30	VABM-B10-30EEE-G34- ...	Connection size G3/4	138

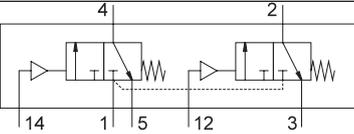
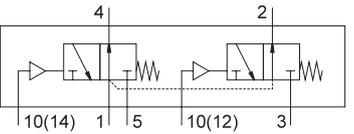
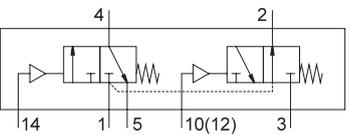
## Product range overview

Design	Size	Description		→ Page/Internet
<b>Manifold block for 3/2-way valves, compact</b>				
	20	VABM-B10-20S-G14- ...-P3	Connection size G1/4	112
	25	VABM-B10-25S-G38- ...-P3	Connection size G3/8	125
	30	VABM-B10-30S-G12- ...-P3	Connection size G1/2	138
<b>Manifold block for 5/2- and 5/3-way valves, compact</b>				
	20	VABM-B10-20S-G14- ...	Connection size G1/4	112
	25	VABM-B10-25S-G38- ...	Connection size G3/8	125
	30	VABM-B10-30S-G12- ...	Connection size G1/2	138
<b>Common supply manifold, for mounting on both sides</b>				
	20	VABM-B10-20-G38- ... -P53	Connection size G3/8	113
	25	VABM-B10-25-G12- ... -P53	Connection size G1/2	126
	30	VABM-B10-30-G34- ... -P53	Connection size G3/4	139
<b>Common supply manifold, for mounting on one side</b>				
	20	VABM-B10-20-G38- ... -P53-E	Connection size G3/8	113
	25	VABM-B10-25-G12- ... -P53-E	Connection size G1/2	126
	30	VABM-B10-30-G34- ... -P53-E	Connection size G3/4	139

### Valve function

Valve	Order code for valves	Description	VUWS-LT			VUWS-L		
			Size			Size		
			20	25	30	20	25	30
<b>3/2-way valve, normally closed, pneumatic spring</b>								
	M32C-A	<ul style="list-style-type: none"> <li>internal pneumatic spring supply</li> <li>Flow direction not reversible</li> </ul>	-	-	-	■	■	■
	M32C-E	<ul style="list-style-type: none"> <li>External pneumatic spring supply</li> <li>Reversible flow direction</li> </ul>	-	-	-	■	■	■
<b>3/2-way valve, normally closed, pneumatic/mechanical spring</b>								
	M32C-M	<ul style="list-style-type: none"> <li>Flow direction not reversible</li> <li>Reset: mechanical spring, supported internally by pneumatic spring</li> </ul>	-	-	-	■	-	-
<b>3/2-way valve, normally closed, mechanical spring</b>								
	M32C-M	Flow direction not reversible	■	■	■	-	-	-
	M32C-M	Reversible flow direction	-	-	-	-	■	■
<b>3/2-way valve, normally open, pneumatic spring</b>								
	M32U-A	<ul style="list-style-type: none"> <li>internal pneumatic spring supply</li> <li>Flow direction not reversible</li> <li>Pneumatic spring return</li> </ul>	-	-	-	■	■	■
	M32U-E	<ul style="list-style-type: none"> <li>External pneumatic spring supply</li> <li>Reversible flow direction</li> <li>Pneumatic spring return</li> </ul>	-	-	-	■	■	■
<b>3/2-way valve, normally open, pneumatic/mechanical spring</b>								
	M32U-M	<ul style="list-style-type: none"> <li>Flow direction not reversible</li> <li>Reset: mechanical spring, supported internally by pneumatic spring</li> </ul>	-	-	-	■	-	-
<b>3/2-way valve, normally open, mechanical spring</b>								
	M32U-M	Flow direction not reversible	■	■	■	-	-	-
	M32U-M	Reversible flow direction	-	-	-	-	■	■

Valve function

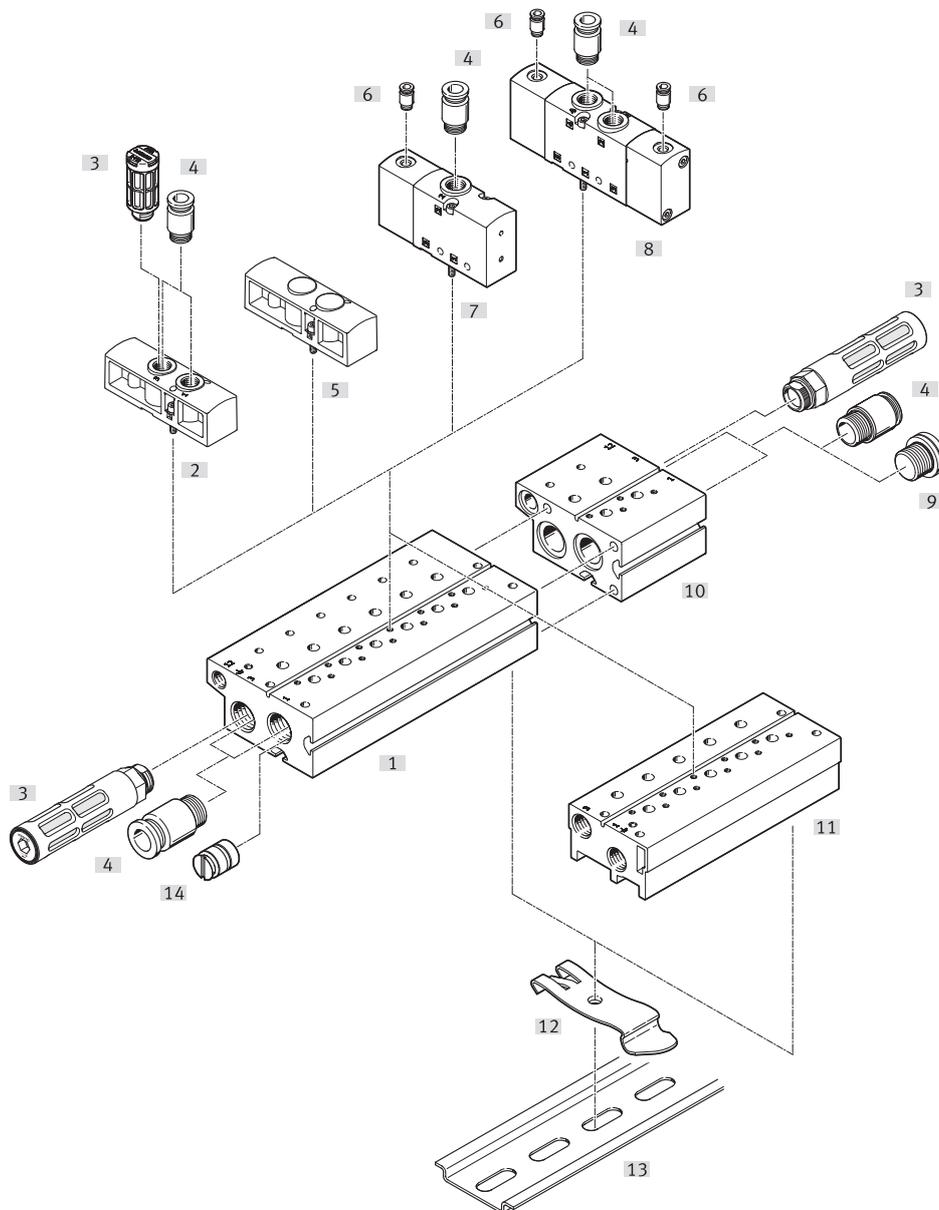
Valve	Order code for valves	Description	VUWS-LT			VUWS-L		
			Size			Size		
			20	25	30	20	25	30
<b>2x 3/2-way valve, normally closed, mechanical spring</b> 	T32C	<ul style="list-style-type: none"> <li>• Internal pilot air supply</li> <li>• Flow direction not reversible</li> </ul>	■	■	■	-	-	-
<b>2x 3/2-way valve, normally open, mechanical spring</b> 	T32U	<ul style="list-style-type: none"> <li>• Internal pilot air supply</li> <li>• Flow direction not reversible</li> </ul>	■	■	■	-	-	-
<b>2x 3/2-way valve, 1x normally open, 1x normally closed, mechanical spring</b> 	T32H	<ul style="list-style-type: none"> <li>• Internal pilot air supply</li> <li>• Flow direction not reversible</li> </ul>	■	■	■	-	-	-

Valve function

Valve	Order code for valves	Description	VUWS-LT			VUWS-L		
			Size			Size		
			20	25	30	20	25	30
<b>5/2-way valve, pneumatic spring, monostable</b>								
	M52-A	<ul style="list-style-type: none"> <li>internal pneumatic spring supply</li> <li>Flow direction not reversible</li> </ul>	-	-	-	■	■	■
	M52-E	<ul style="list-style-type: none"> <li>External pneumatic spring supply</li> <li>Reversible flow direction</li> </ul>	-	-	-	■	■	■
<b>5/2-way valve, mechanical spring, monostable</b>								
	M52-M	Reversible flow direction	-	-	-	■	■	■
	M52-M	Flow direction not reversible	■	■	■	-	-	-
<b>5/2-way valve, double solenoid</b>								
	B52	Reversible flow direction	-	-	-	■	■	■
	B52	<ul style="list-style-type: none"> <li>Flow direction not reversible</li> <li>Holding the switching position via a latch</li> </ul>	■	■	■	-	-	-
<b>5/3-way valve, mid-position closed</b>								
	P53C	Reversible flow direction	-	-	-	■	■	■
<b>5/3-way valve, mid-position exhausted</b>								
	P53E	Reversible flow direction	-	-	-	■	■	■
<b>5/3-way valve, mid-position pressurised</b>								
	P53U	Reversible flow direction	-	-	-	■	■	■

## Peripherals overview VUWS-LT, VUWS-L

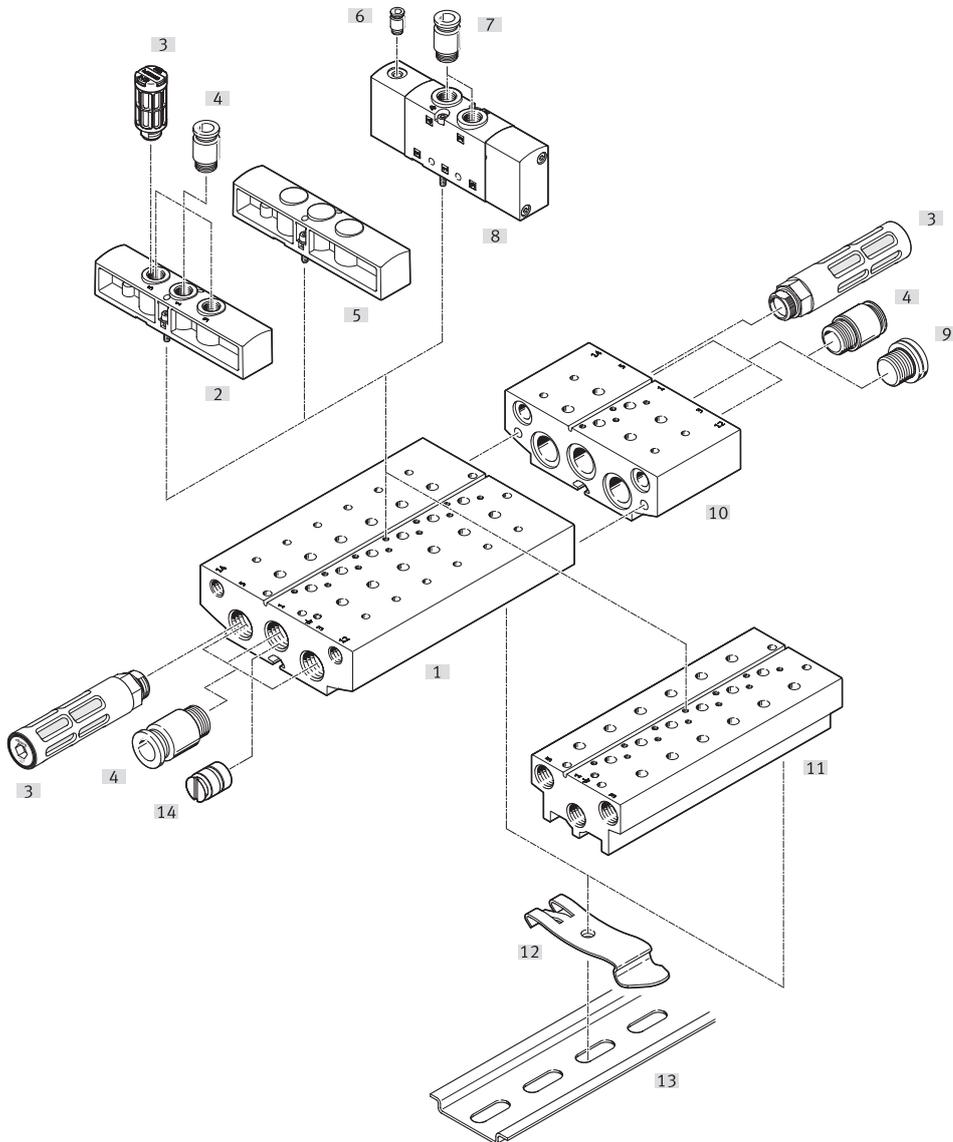
Manifold block for 3/2-way valves



Accessories			
Designation	Brief description		→ Page/Internet
[1] Standard manifold block	For 3/2-way valves		112
[2] Supply plate	For 3/2-way valves		114
[3] Silencer	For exhaust ports (3)		116
[4] Push-in fitting	For supply/exhaust ports (1, 3)		83
[5] Cover plate	VABB-B10-...		114
[6] Push-in fitting	M5 for pilot air port		83
[7] Pneumatic valve	3/2-way valve		61
[8] Pneumatic valve	2x 3/2-way valve (VUWS-LT...)		54
[9] Blanking plug	For supply/exhaust ports (1, 3)		116
[10] Standard manifold block, extension module	For 3/2-way valves		112
[11] Compact manifold block	For 3/2-way valves		112
[12] DIN rail mounting	For mounting on standard DIN rails		116
[13] Standard DIN rail	DIN mounting rail to EN 60715		-
[14] Separator	For creating pressure zones (in duct 1 and/or 3)		116

Peripherals overview VUWS-LT, VUWS-L

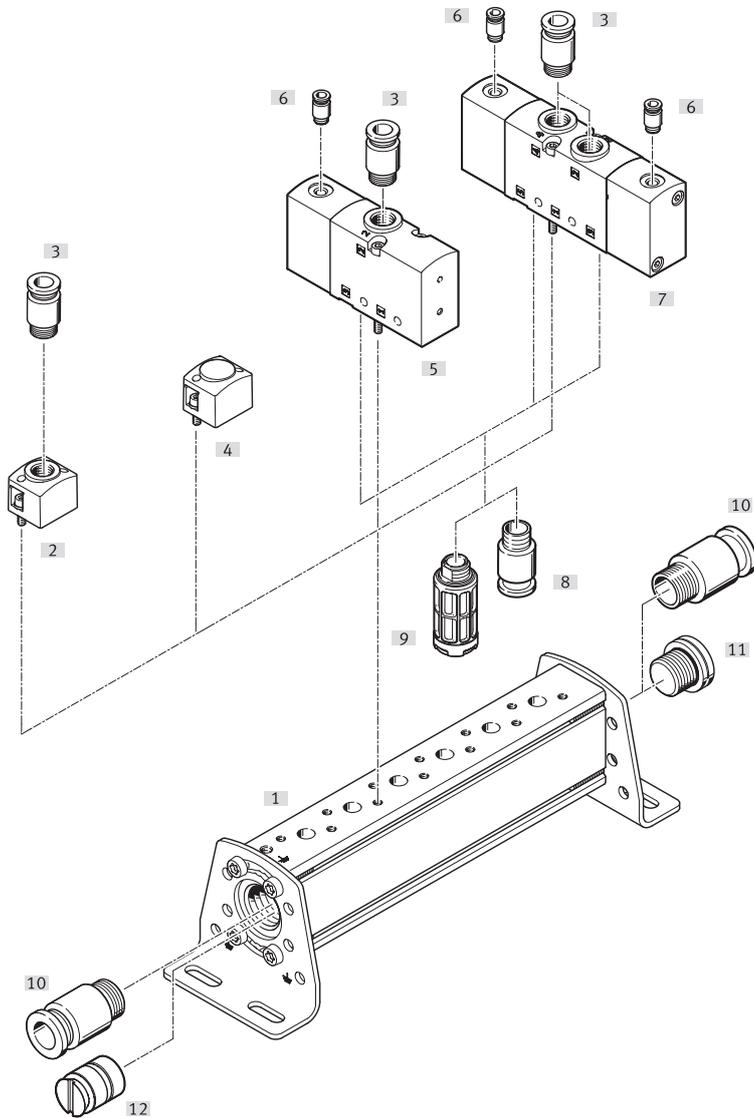
Manifold block for 5/2- and 5/3-way valves



Accessories		
Designation	Brief description	→ Page/Internet
[1] Standard manifold block	For 5/2-way and 5/3-way valves	112
[2] Supply plate	For 5/2-way and 5/3-way valves	114
[3] Silencer	For exhaust ports (5 and/or 3)	116
[4] Push-in fitting	For supply/exhaust ports (1, 3, 5)	83
[5] Cover plate	VABB-B10-...	114
[6] Push-in fitting	M5 for pilot air port	83
[7] Push-in fitting	For working ports (2, 4)	83
[8] Pneumatic valve	5/2-, 5/3-way valve	61
[9] Blanking plug	For supply/exhaust ports (1, 3, 5)	116
[10] Standard manifold block, extension module	For 5/2-way and 5/3-way valves	112
[11] Compact manifold block	For 5/2-way and 5/3-way valves	112
[12] DIN rail mounting	For mounting on standard DIN rails	116
[13] Standard DIN rail	DIN mounting rail to EN 60715	–
[14] Separator	For creating pressure zones (in ducts 1, 3, 5)	116

## Peripherals overview VUWS-LT, VUWS-L

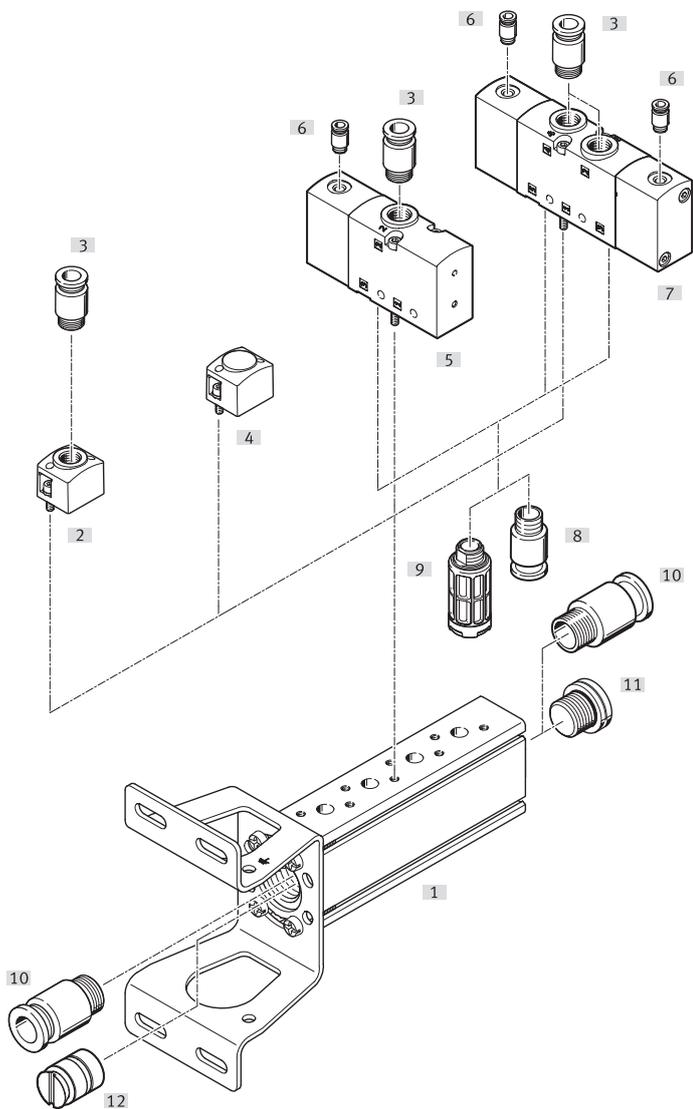
## Common supply manifold for mounting on both sides



Accessories		
Designation	Brief description	→ Page/Internet
[1] Common supply manifold	For mounting on both sides Mounting bracket can be adjusted by $\pm 30^\circ$ .	113
[2] Air supply plate/supply plate	For supplying working air (1) (VABF-B10-...-P1...)	114
[3] Push-in fitting	For supplying air (1) for working ports (2, 4)	83
[4] Cover plate	VABB-B10-...	114
[5] Pneumatic valve	3/2-way valve	82
[6] Push-in fitting	M5 for pilot air port	83
[7] Pneumatic valve	5/2-, 5/3-way valve 2x 3/2-way valve (VUWS-LT...)	61 54
[8] Push-in fitting	For exhaust ports (3, 5)	83
[9] Silencer	For exhaust ports (3, 5)	116
[10] Push-in fitting	For supplying air (1)	115
[11] Blanking plug	For working port (duct 1)	116
[12] Separator	For creating pressure zones (in duct 1)	116

## Peripherals overview VUWS-LT, VUWS-L

### Common supply manifold for mounting on one side



Accessories		
Designation	Brief description	→ Page/Internet
[1] Common supply manifold	For mounting on one side Mounting bracket can be adjusted by $\pm 30^\circ$ .	113
[2] Air supply plate/supply plate	For supplying working air (1) (VABF-B10-...-P1...)	114
[3] Push-in fitting	For supplying air (1) for working ports (2, 4)	83
[4] Cover plate	VABB-B10-...	114
[5] Pneumatic valve	3/2-way valve	82
[6] Push-in fitting	M5 for pilot air port	83
[7] Pneumatic valve	5/2-, 5/3-way valve 2x 3/2-way valve (VUWS-LT...)	61 54
[8] Push-in fitting	For exhaust ports (3, 5)	83
[9] Silencer	For exhaust ports (3, 5)	116
[10] Push-in fitting	For supplying air (1)	115
[11] Blanking plug	For working port (duct 1)	116
[12] Separator	For creating pressure zones (in duct 1)	116

## Datasheet – Valve manifold assembly

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



General technical data		20	25	30
Size		20	25	30
Valve manifold design		Fixed grid		
Valve width	[mm]	21	26.5	31
Valve design	VUWS-L	Piston spool	Piston spool	Piston spool
	VUWS-LT	Poppet seat	Poppet seat	Poppet seat
Reset method for valves	VUWS-L	Pneumatic or mechanical spring		
	VUWS-LT	Mechanical spring		
Pneumatic spring		Internal or external		
Flow direction	VUWS-L	Reversible with restrictions		
	VUWS-LT	Not reversible		
Suitable for vacuum	VUWS-L	Yes, with restrictions		
	VUWS-LT	Yes, with restrictions		No
Type of control		Direct		
Manual override (MO)		None		
Overlap	VUWS-L	Positive overlap		
	VUWS-LT	Negative overlap		
Sealing principle		Soft		
Max. number of valve positions		16 (a maximum of 18 valve positions with an extension of standard manifold block)		
Max. no. of pressure zones		9		
Exhaust air function		Can be throttled		
Actuation type		Pneumatic		
Standard nominal flow rate [qnN]	[l/min]	500...700	1000...1300	1600...2300
Pilot air connection	Standard manifold block	1 2/14	G1/8	
	Compact manifold block	1 2/14	On the valve	
	Common supply manifold	1 2/14	On the valve	
Pilot exhaust air port		8 2/84	M5	
Mounting position		Any		
<b>Materials</b>				
Note on materials		RoHS-compliant		
Information on materials: seals	VUWS-L	HNBR, NBR		
	VUWS-LT	HNBR, NBR, TPE-U(PU)		

Datasheet – Valve manifold assembly

ATEX	
ATEX category for gas	II 3G
Type of (ignition) protection for gas	Ex ec IICT4 X Gc
ATEX category for dust	II 3D
Type of ignition protection for dust	Ex tc IIIC T115°C X Dc
Explosion-proof ambient temperature [°C]	-10°C ≤ Ta ≤ +60 °C
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)

Operating and environmental conditions							
Valve design	Piston spool			Poppet seat			
Size	20	25	30	20	25	30	
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)						
Cleanroom class	ISO class 6						
Operating pressure	[MPa]	-0.09 ... +1	-0.09 ... +1	-0.09 ... +1	-0.09 ... +1 (M32, T32)	-0.09 ... +1 (M32, T32)	-
		-	-	-	-	-	+0.1 ... +1 (32)
		-	-	-	+0.15 ... +1 (B52)	+0.15 ... +1 (B52)	+0.15 ... +1 (B52)
		+0.25 ... +1 (M32...-A, M32...-M, M52-A)	+0.25 ... +1 (M...-A, M52)	+0.25 ... +1 (M...-A)	+0.25 ... +1 (M52)	+0.25 ... +1 (M52)	+0.25 ... +1 (M52)
	[bar]	-0.9 ... +10	-0.9 ... +10	-0.9 ... +10	-0.9 ... +10 (M32, T32)	-0.9 ... +10 (M32, T32)	-
		-	-	-	-	-	+1.0 ... +10 (32)
		-	-	-	+1.5 ... +10 (B52)	+1.5 ... +10 (B52)	+1.5 ... +10 (B52)
	+2.5 ... +10 (M32...-A, M32...-M, M52-A)	+2.5 ... +10 (M...-A, M52)	+2.5 ... +10 (M...-A)	+2.5 ... +10 (M52)	+2.5 ... +10 (M52)	+2.5 ... +10 (M52)	
Pilot pressure	[MPa]	0.15 ... 1 (B52)	0.15 ... 1 (B52)	0.15 ... 1 (B52)	0.15 ... 1	0.15 ... 1 (B52)	0.15 ... 1 (B52)
		0.25 ... 1	0.25 ... 1	0.25 ... 1	0.25 ... 1 (M52)	0.25 ... 1	0.25 ... 1
	[bar]	1.5 ... 10 (B52)	1.5 ... 10 (B52)	1.5 ... 10 (B52)	1.5 ... 10	1.5 ... 10 (B52)	1.5 ... 10 (B52)
		2.5 ... 10	2.5 ... 10	2.5 ... 10	2.5 ... 10 (M52)	2.5 ... 10	2.5 ... 10
Ambient temperature	[°C]	-10 ... +60					
Temperature of medium	[°C]	-10 ... +60					
Certification		c UL us - Recognized (OL)					
Corrosion resistance class CRC <sup>1)</sup>		2					

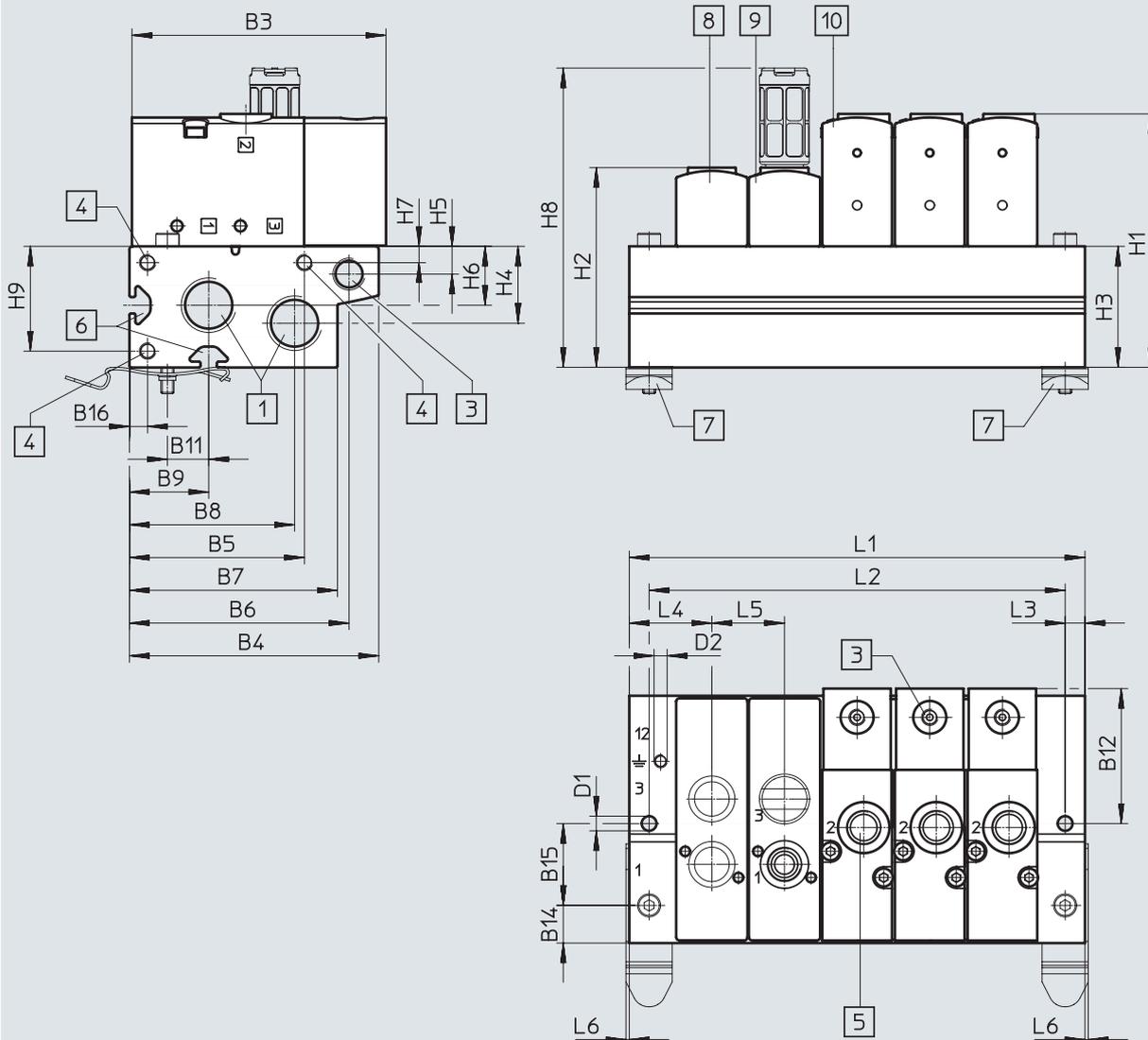
1) More information [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

## Datasheet

## Dimensions

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

With 3/2-way valves, standard manifold rail



- |  |   |  |  |
|--|---|--|--|
| [1] 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  | [4] Thread for extension module:<br>M5x15.5 for VTUS 20<br>M5x18 for VTUS 25<br>M5x18 for VTUS 30 | [6] Profile slot IPM-05, system 5  | [9] Supply plate, ports 1 and 3:<br>G1/8 for VTUS 20<br>G1/4 for VTUS 25<br>G3/8 for VTUS 30 |
| [3] 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 | [5] Port 2:<br>G1/8 for VTUS 20,<br>G1/4 for VTUS 25,<br>G3/8 for VTUS 30                         | [8] Cover plate  | [10] 3/2-way valve   |
|  |   | [7] DIN rail mounting VAME-T-M4 for<br>VTUS 20<br>VAME-T-M5 for VTUS 25<br>VAME-T-M6 for VTUS 30 |  |

 **Note**

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

## Datasheet

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	–

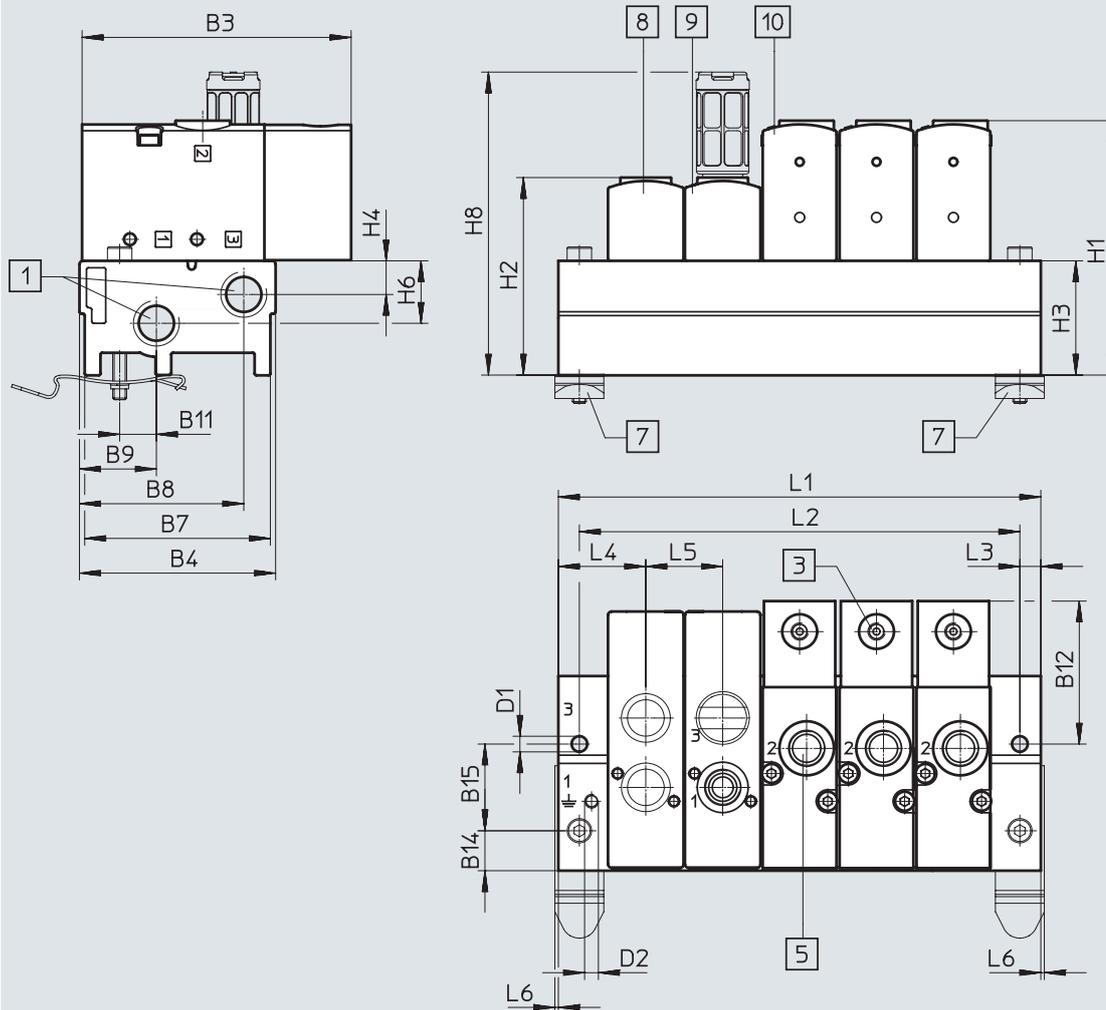
Valve positions	2	3	4	5	6	7	8	9	10	
VTUS-20	L1 [mm]	72	94	116	138	160	182	204	226	248
	L2 [mm]	60	82	104	126	148	170	192	214	236
VTUS-25	L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295
VTUS-30	L1 [mm]	100	132	164	196	228	260	292	324	356
	L2 [mm]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

## Datasheet – Valve manifold assembly

## Dimensions – Valve manifold assembly

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] Ports 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] DIN rail mounting VAME-T-M4 for  
 VTUS 20  
 VAME-T-M5 for VTUS 25  
 VAME-T-M6 for VTUS 30

[8] Cover plate  
 [9] Supply plate, ports 1 and 3:  
 G1/8 for VTUS 20  
 G1/4 for VTUS 25  
 G3/8 for VTUS 30

[10] 3/2-way valve

## Datasheet – Valve manifold assembly

Type	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	–

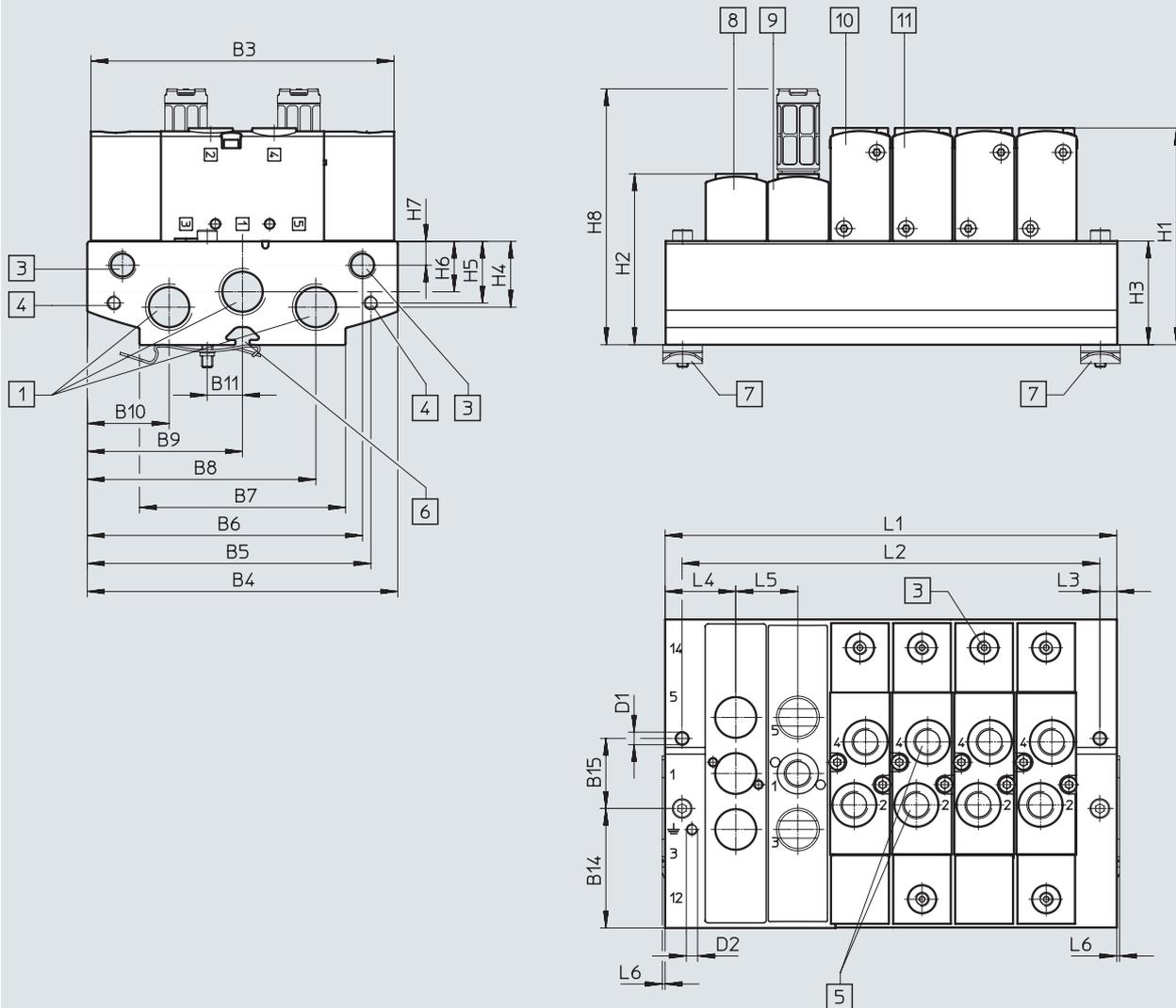
Valve positions		2	3	4	5	6	7	8	9	10
VTUS-20	L1 [mm]	72	94	116	138	160	182	204	226	248
	L2 [mm]	60	82	104	126	148	170	192	214	236
VTUS-25	L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295
VTUS-30	L1 [mm]	100	132	164	196	228	260	292	324	356
	L2 [mm]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

Datasheet – Valve manifold assembly

Dimensions – Valve manifold assembly

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

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



- |   |   |   |  |
|---|---|---|--|
| [1] 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  | [4] Thread for extension module:<br>M5x15.5 for VTUS 20<br>M5x18 for VTUS 25<br>M5x18 for VTUS 30 | [6] Profile slot IPM-05, system 5   | [9] 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      |
| [3] Port 12 and 14 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 | [5] Ports 2 and 4: G1/8 for VTUS 20<br>G1/4 for VTUS 25<br>G3/8 for VTUS 30                       | [7] DIN rail mounting VAME-T-M4 for VTUS 20<br>VAME-T-M5 for VTUS 25<br>VAME-T-M6 for VTUS 30 | [10] 5/2-way valve, monostable<br>[11] 5/2-way valve, bistable, or 5/3-way valve or 2x 3/2-way valve |
|   |   | [8] Cover plate   |  |

**Note**

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

Datasheet – Valve manifold assembly

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	–

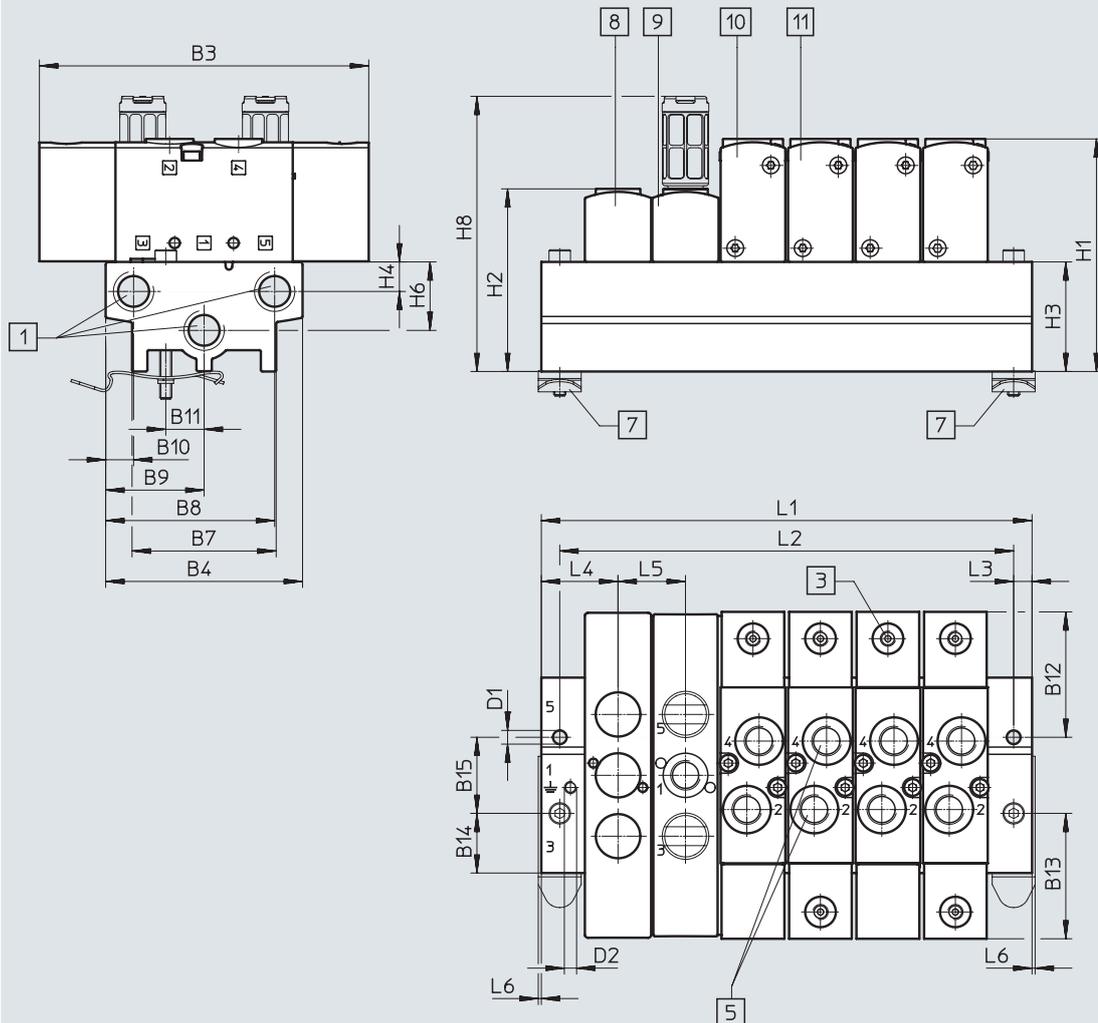
Valve positions		2	3	4	5	6	7	8	9	10
VTUS-20	L1 [mm]	72	94	116	138	160	182	204	226	248
	L2 [mm]	60	82	104	126	148	170	192	214	236
VTUS-25	L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295
VTUS-30	L1 [mm]	100	132	164	196	228	260	292	324	356
	L2 [mm]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

## Datasheet – Valve manifold assembly

## Dimensions – Valve manifold assembly

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

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



- |  |  |   |  |
|--|--|---|--|
| [1] Ports 1, 3 and 5 (at both ends):<br>G1/4 for VTUS 20<br>G3/8 for VTUS 25<br>G1/2 for VTUS 30 | [5] Ports 2 and 4: G1/8 for VTUS 20<br>G1/4 for VTUS 25<br>G3/8 for VTUS 30                      | [8] Cover plate   | [10] 5/2-way valve, monostable   |
| [3] Port 12 and 14 on the valve:<br>M5 for VTUS 20,<br>M5 for VTUS 25,<br>G1/8 for VTUS 30       | [7] DIN rail mounting VAME-T-M4 for<br>VTUS 20<br>VAME-T-M5 for VTUS 25<br>VAME-T-M6 for VTUS 30 | [9] 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 | [11] 5/2-way valve, bistable, or 5/3-<br>way valve or 2x 3/2-way valve |

Datasheet – Valve manifold assembly

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	–

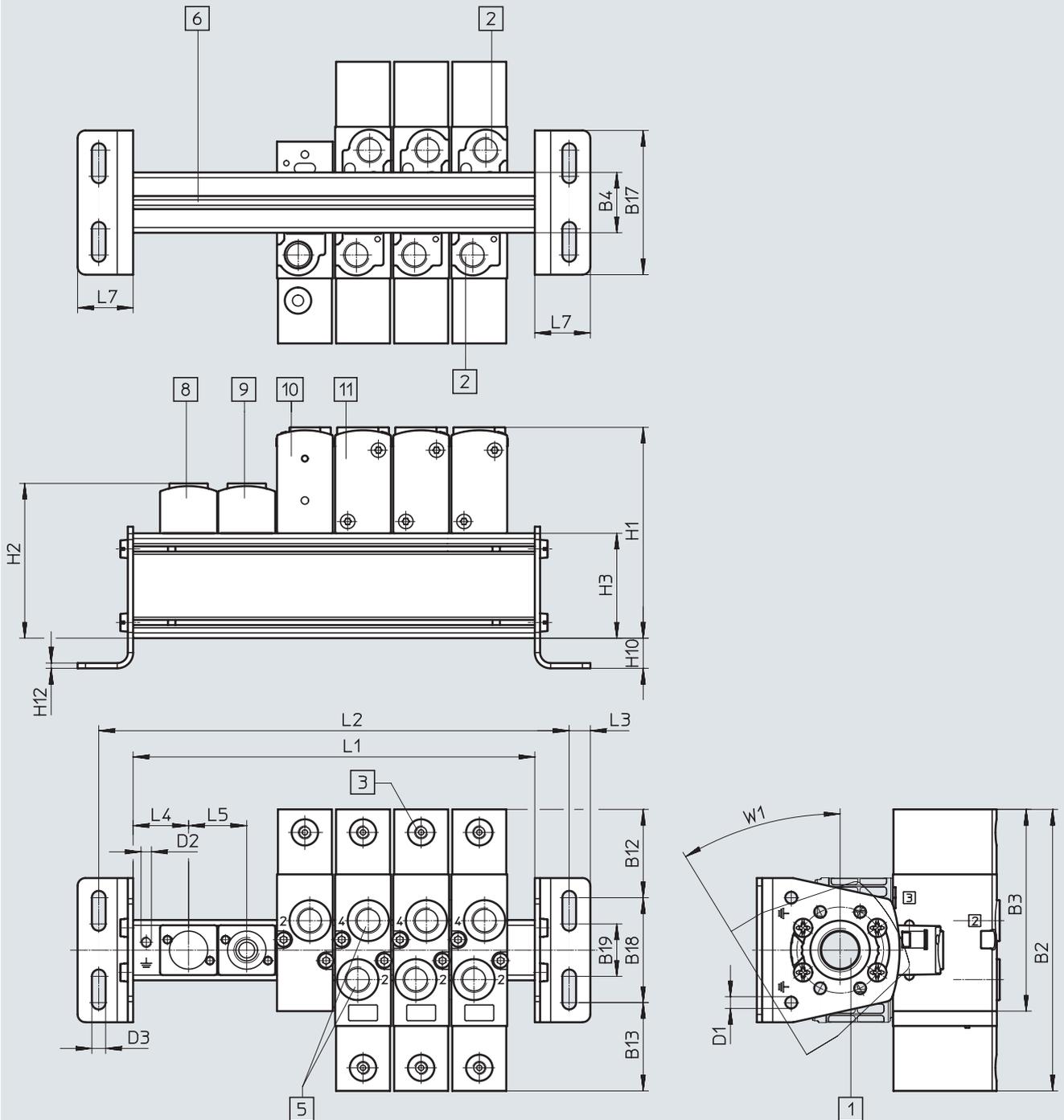
Valve positions		2	3	4	5	6	7	8	9	10
VTUS-20	L1 [mm]	72	94	116	138	160	182	204	226	248
	L2 [mm]	60	82	104	126	148	170	192	214	236
VTUS-25	L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295
VTUS-30	L1 [mm]	100	132	164	196	228	260	292	324	356
	L2 [mm]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

Datasheet – Valve manifold assembly

Dimensions – Common supply manifold

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Mounting on both sides



[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

[3] Port 12 and 14 on the valve:  
M5 for VTUS 20,  
M5 for VTUS 25,  
G1/8 for VTUS 30

[5] Ports 2, 4:  
G1/8 for VTUS 20  
G1/4 for VTUS 25  
G3/8 for VTUS 30

[6] Profile slot IPM-05, system 5

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

[10] 3/2-way valve  
[11] 5/2-way valve, bistable, or 5/3-way valve or 2x 3/2-way valve

 **Note**

Mounting bracket can be adjusted by ±30°

Datasheet – Valve manifold assembly

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°

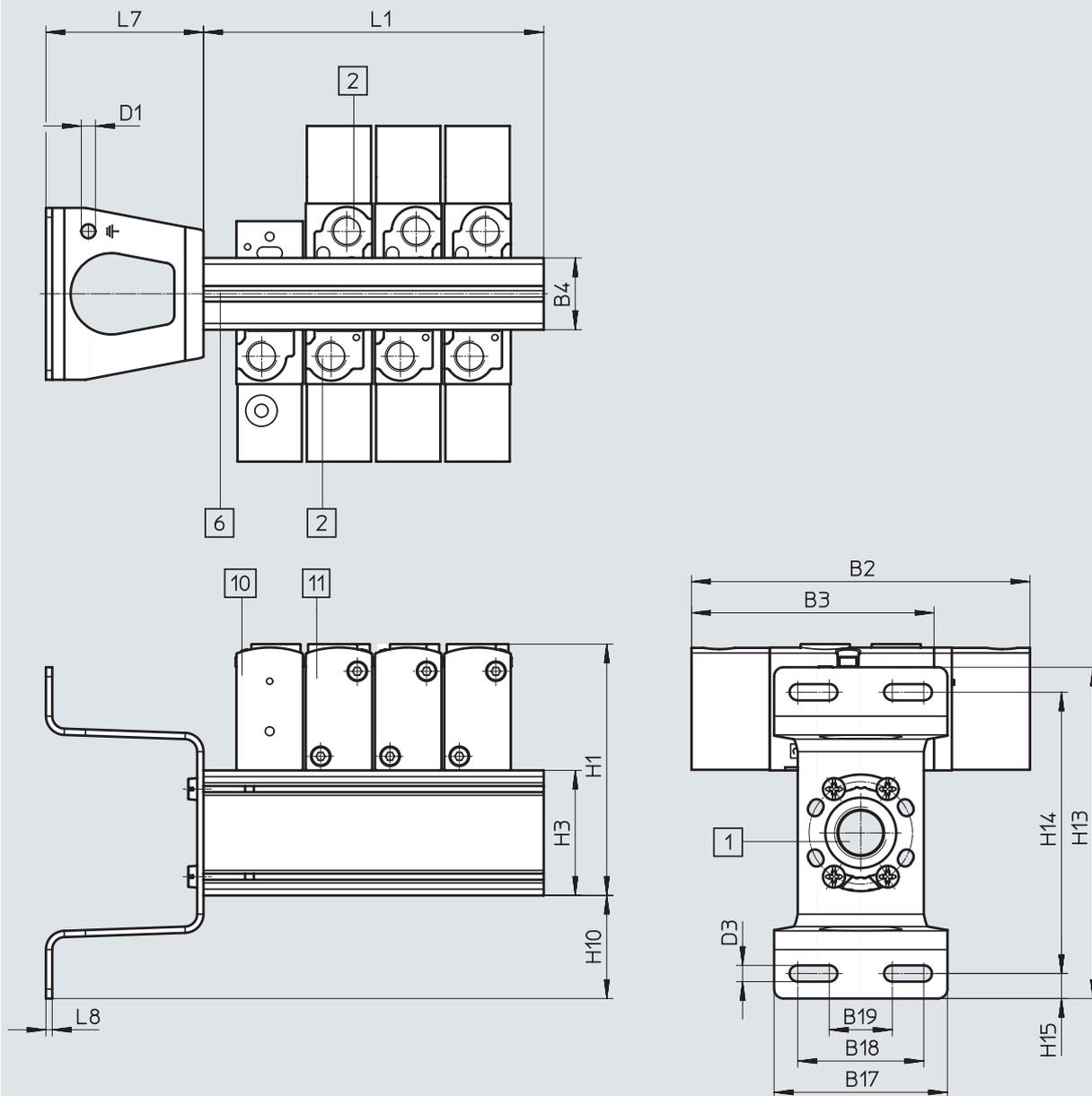
Valve positions		2	3	4	5	6	7	8	9	10
VTUS-20	L1 [mm]	64	86	108	130	152	174	196	218	240
	L2 [mm]	90	112	134	156	178	200	222	244	266
VTUS-25	L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2 [mm]	119	156.5	174	201.5	229	256.5	284	311.5	339
VTUS-30	L1 [mm]	100	132	164	196	228	260	292	324	356
	L2 [mm]	134	166	198	230	262	294	326	358	390

Datasheet – Valve manifold assembly

Dimensions – Common 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] 3/2-way valve  
 [11] 5/2-way valve, bistable, or 5/3-way valve or 2x 3/2-way valve

 **Note**  
 Mounting bracket can be adjusted by ±30°

Datasheet – Valve manifold assembly

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

## Type codes – Pneumatic valves

<b>001</b>	<b>Series</b>	
<b>VUWS</b>	Pneumatic valve	
<b>002</b>	<b>Directional control valve type</b>	
<b>L</b>	In-line valve	
<b>003</b>	<b>Design principle</b>	
	Piston spool	
<b>T</b>	Poppet valve	
<b>004</b>	<b>Size</b>	
<b>20</b>	Size 20	
<b>25</b>	Size 25	
<b>30</b>	Size 30	
<b>005</b>	<b>Valve function</b>	
<b>M32U</b>	3/2-way valve, normally open	
<b>M32C</b>	3/2-way valve, normally closed	
<b>T32U</b>	2x3/2-way valve, normally open	
<b>T32C</b>	2x3/2-way valve, normally closed	
<b>T32H</b>	2x3/2-way valve, 1x normally closed, 1x normally open	
<b>M52</b>	5/2-way valve, monostable	
<b>B52</b>	5/2-way valve, bistable	
<b>P53U</b>	5/3-way valve, mid-position pressurised	
<b>P53E</b>	5/3-way valve, mid-position exhausted	
<b>P53C</b>	5/3-way valve, mid-position closed	

<b>006</b>	<b>Reset method for monostable valves</b>	
	None	
<b>A</b>	Pneumatic spring	
<b>E</b>	Pneumatic spring, external	
<b>M</b>	Mechanical spring	
<b>007</b>	<b>Pneumatic connection</b>	
<b>G18</b>	G1/8	
<b>G14</b>	G1/4	
<b>G38</b>	G3/8	
<b>G12</b>	G1/2	
<b>N18</b>	1/8 NPT	
<b>N14</b>	1/4 NPT	
<b>N38</b>	3/8 NPT	
<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>T532</b>	Push-in connector 5/32"	
<b>T14</b>	Push-in connector 1/4"	
<b>T38</b>	Push-in connector 3/8"	
<b>T516</b>	Push-in connector 5/16"	
<b>T12</b>	Push-in connector 1/2"	
<b>008</b>	<b>Exhaust</b>	
	No fitting	
<b>QN</b>	With fitting	
<b>U</b>	Silencer	

## Datasheet

-  - Flow rate  
up to 600 l/min

-  - Valve width  
21 mm



General technical data		3/2-way valve			2x 3/2-way valve			5/2-way valve	
Valve function		3/2-way valve			2x 3/2-way valve			5/2-way valve	
Order code for valves		M32C	M32U	T32C	T32U	T32H	M52	B52	
Valve width	[mm]	21							
Design		Poppet seat							
Pneumatic spring supply		Internal							
Type of control		Direct							
Manual override (MO)		None							
Flow direction		Not reversible							
Overlap		Negative overlap							
Sealing principle		Soft							
Type of mounting		Optionally via through-holes <sup>1)</sup> or on manifold rail							
Standard nominal flow rate q <sub>nN</sub>	[l/min]	600	600	600	600	600	500	500	
Through-holes (nominal width)	[mm]	5.2	5.2	5.2	5.2	5.2	5	5	
Product weight	[g]	117	119	189	191	190	173	192	
Actuation type		Pneumatic							
Mounting position		Any							
Exhaust air function		Can be throttled							
Venting hole		Not ducted							
Pneumatic port	1, 2, 3	G1/8	G1/8	G1/8	G1/8	G1/8	G1/8	G1/8	
	4, 5	–	–	G1/8	G1/8	G1/8	G1/8	G1/8	
Pneumatic spring connection	12/14, 10	M5							

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

## Datasheet

Technical data – 3/2-way valves			
Order code for valves		M32C	M32U
Normal position		Closed	Open
Stable position		Monostable	Monostable
Reset method		Mechanical spring	Mechanical spring
Switching times in [ms]	On	6	6
	Off	19	18
	Change-over	–	–

Technical data – 5/2-way valves			
Order code for valves		M52	B52
Stable position		Monostable	Bistable
Reset method		Mechanical spring	–
Switching times in [ms]	On	10	–
	Off	14	–
	Change-over	–	4

Technical data – 2x 3/2-way valves					
Order code for valves		T32C	T32U	T32H	
Stable position		Monostable			
Reset method		Mechanical spring			
Switching times in [ms]	On	6	6	6	
	Off	19	18	19	

Safety characteristics	
Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Vibration resistant	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

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

1) More information [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

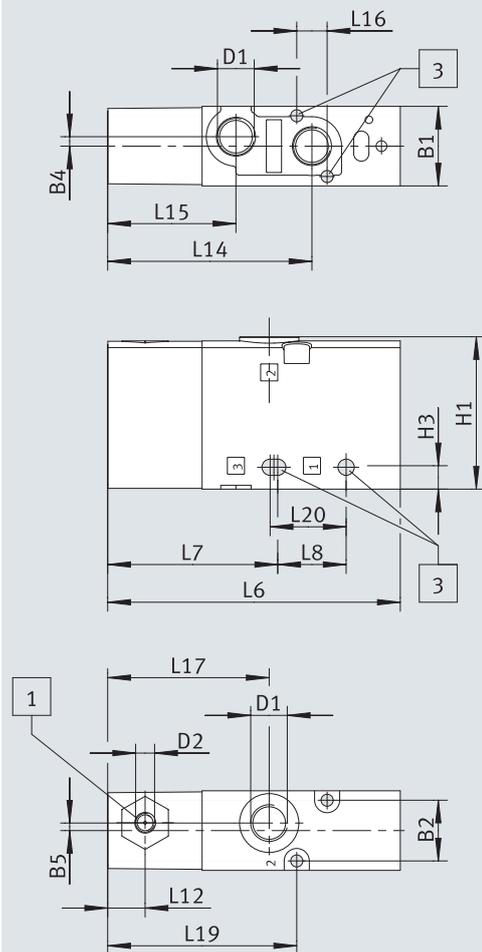
Information on materials	
Housing	Die-cast aluminium (painted)
Seals	HNBR, NBR, TPE-U(PU)
Screws	Galvanised steel
Note on materials	RoHS-compliant

# Datasheet

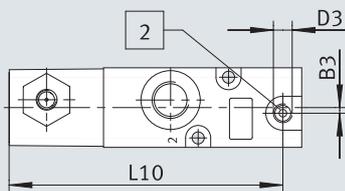
## Dimensions

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

3/2-way valve



VUWS-L20-M32...-E-...



- [1] Port 10 for pilot air (VUWS-LT20-M32U)  
Port 12 for pilot air (VUWS-LT20-M32C)
- [2] Port 10 for auxiliary pilot air (VUWS-L20-M32U-E-...)  
Port 12 for auxiliary pilot air (VUWS-L20-M32U-E-...)
- [3] For retaining screw M3

Type	B1	B2	B3	B4	B5	D1	D2	D3	H1	H3
VUWS-LT20-M32...-G18	21.1	16.1	1.5	2.5	2	G1/8	M5	M5	40.4	5.8

Type	L6	L7	L8	L10	L12	L14	L15	L16	L17	L19	L20
VUWS-LT20-M32...-G18	66.6	44.1	18	-	9.8	53.7	33.7	8	42.5	49.7	20

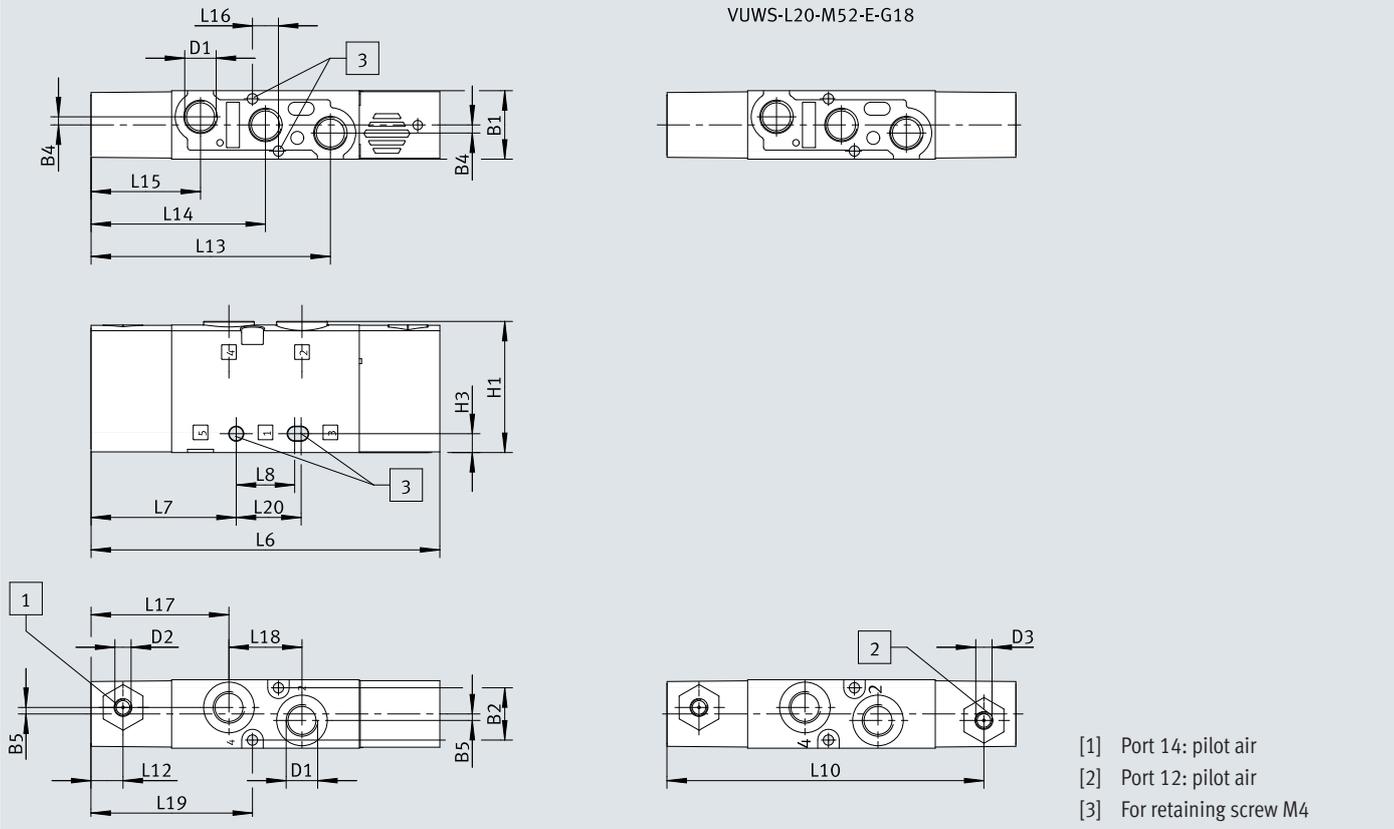
Datasheet

Dimensions

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

5/2-way valve, monostable

VUWS-L20-M52-E-G18



Type	B1	B2	B4	B5	D1	D2	D3	H1	H3	L6
VUWS-LT20-M52-M...-G18	21.1	16.1	2.5	2	G1/8	M5	-	40.4	5.8	107.4

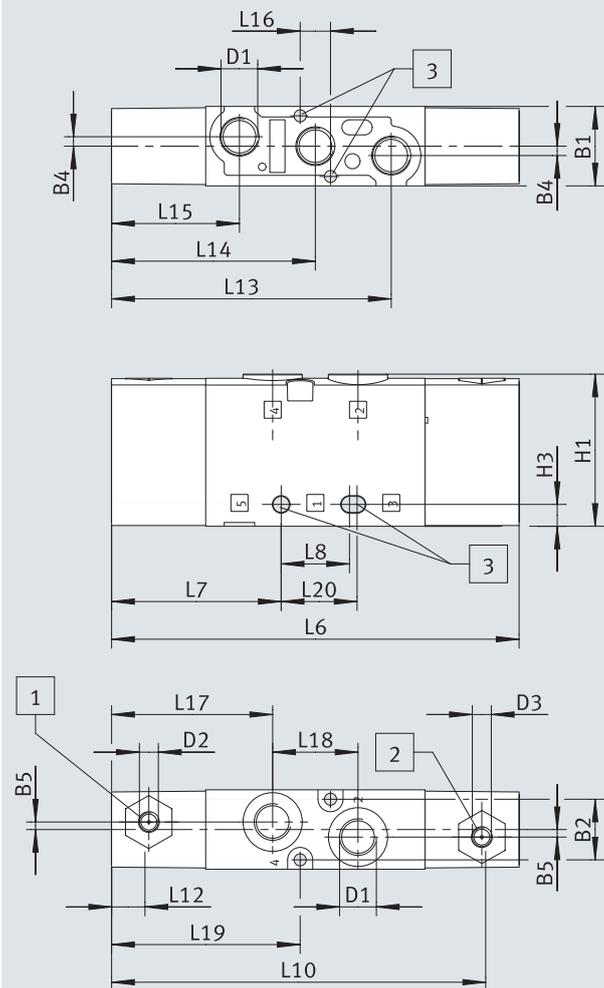
Type	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19	L20
VUWS-LT20-M52-M...-G18	44.7	18	-	9.8	73.7	53.7	33.7	8	42.5	22.5	49.7	20

# Datasheet

## Dimensions

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

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



- [1] Port 14: pilot air
- [2] Port 12: pilot air
- [3] For retaining screw M4

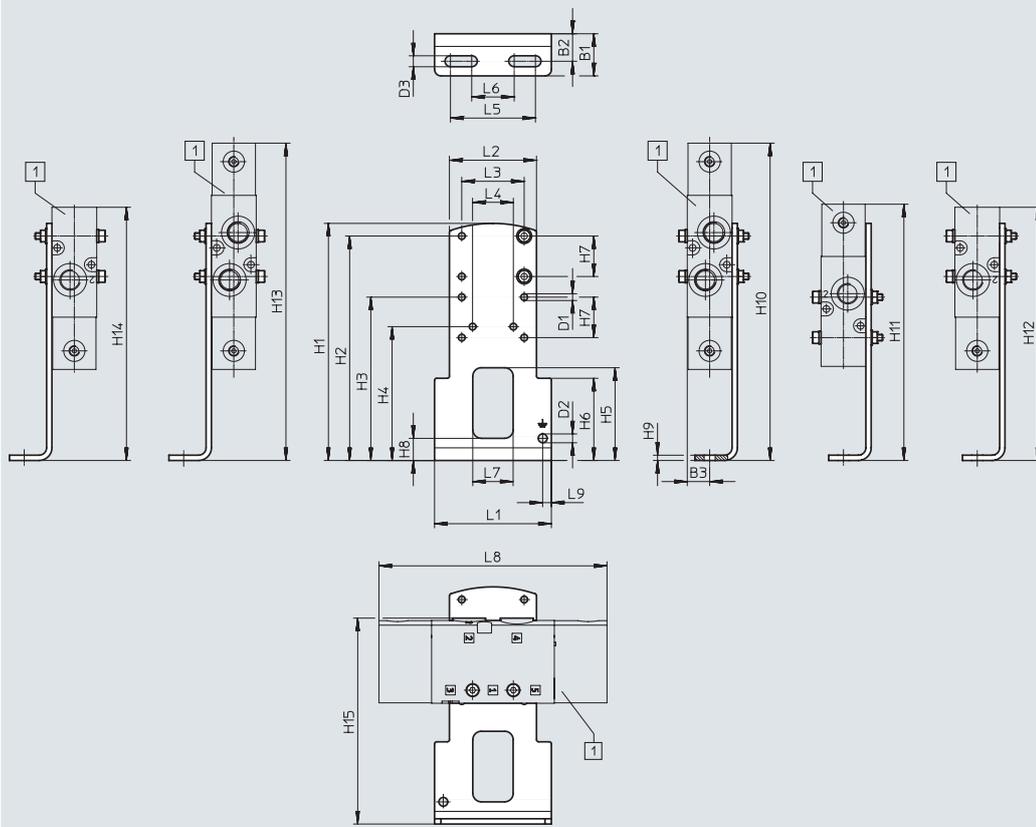
Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-LT20-T32-...-M-G18	21.1	16.1	2.5	2	G1/8	M5	M5	40.4	5.8
VUWS-LT20-B52-G18									

Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19	L20
VUWS-LT20-T32-...-M-G18	107.4	44.7	18	97.6	9.8	73.7	53.7	33.7	8	42.5	22.5	49.7	20
VUWS-LT20-B52-G18													

# Datasheet

## Dimensions

Foot mounting



[1] VUWS-LT20-B52/T32,  
VUWS-LT20-M52,  
VUWS-LT20-M32

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

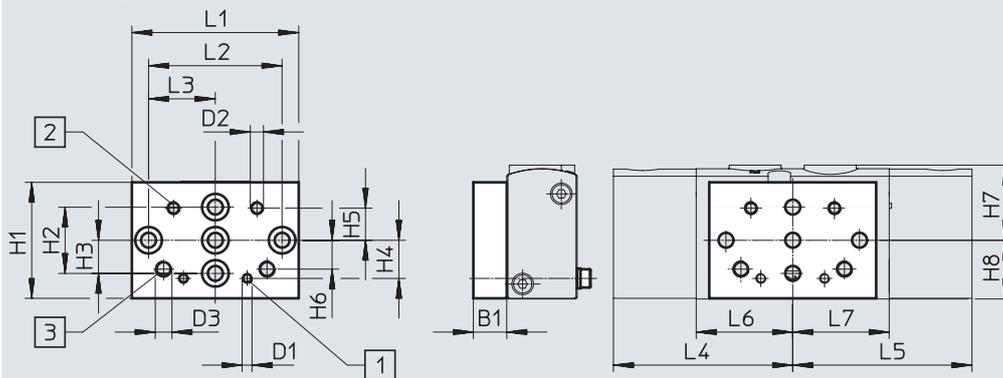
Type		H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-20-A	VUWS-LT20-B52/T32	44	39	19.2	10.5	2.5	150.6	121.6	150.6	150.6	150.6
	VUWS-LT20-M52								120.2		
	VUWS-LT20-M32								120.2		

Type		H15	L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-20-A	VUWS-LT20-B52/T32	97.7	55	41	29.4	19.2	40	20	19	107.4	4.1
	VUWS-LT20-M52									77	
	VUWS-LT20-M32									77	

## Datasheet

### Dimensions

Wall mounting



[1] Mounting hole for size 20

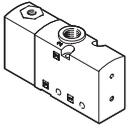
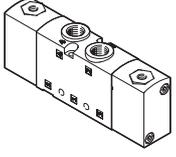
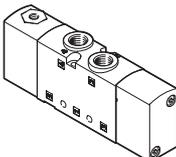
[2] Mounting hole for size 25

[3] Mounting hole for size 30

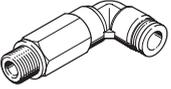
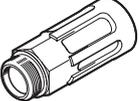
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUWS-LT20-B52/T32	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUWS-LT20-M52										
	VUWS-LT20-M32										

Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUWS-LT20-B52/T32	22.7	17.7	50	40	20	53.7	53.7	28.9	28.9
	VUWS-LT20-M52									
	VUWS-LT20-M32									

## Ordering data – Pneumatic valves, size 20

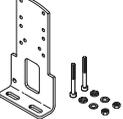
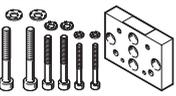
Ordering data				
	Code	Valve function	Part no.	Type
<b>3/2-way valve</b>				
	<b>Normally closed, monostable</b>			
	M32C	Mechanical spring return, internal pilot air supply, flow direction not reversible	577525	VUWS-LT20-M32C-M-G18
	<b>Normally open, monostable</b>			
	M32U	Pneumatic spring return, internal pilot air supply, flow direction not reversible	577526	VUWS-LT20-M32U-M-G18
<b>2x 3/2-way valve</b>				
	<b>Monostable, normally closed</b>			
	T32C	Mechanical spring return, internal pilot air supply, flow direction not reversible	577529	VUWS-LT20-T32C-M-G18
	<b>Monostable, normally open</b>			
	T32H	Mechanical spring return, internal pilot air supply, flow direction not reversible	577531	VUWS-LT20-T32H-M-G18
<b>Monostable, 1x normally open, 1x normally closed</b>				
T32U	Mechanical spring return, internal pilot air supply, flow direction not reversible	577530	VUWS-LT20-T32U-M-G18	
<b>5/2-way valve</b>				
	<b>Monostable</b>			
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	577527	VUWS-LT20-M52-M-G18
	<b>Bistable</b>			
B52	Internal pilot air supply, flow direction not reversible	577528	VUWS-LT20-B52-G18	

## Accessories

Ordering data	Description		Part no.	Type	PU <sup>1)</sup>
<b>Push-in fitting with internal hex</b>					
	Connecting thread M5 for tubing O.D.	4 mm	153315	QSM-M5-4-I	10
	Connecting thread G1/8 for tubing O.D.	4 mm	186106	QS-G1/8-4-I	10
		4 mm	133008	QS-G1/8-4-I-100	100
		6 mm	186107	QS-G1/8-6-I	10
			133009	QS-G1/8-6-I-100	100
		8 mm	186109	QS-G1/8-8-I	10
			133010	QS-G1/8-8-I-100	100
<b>Angled push-in fitting, with external hex</b>					
	Connecting thread G1/8 for tubing O.D.	4 mm	186116	QSL-G1/8-4	10
			132048	QSL-G1/8-4-100	100
		6 mm	186117	QSL-G1/8-6	10
			132049	QSL-G1/8-6-100	100
		8 mm	186119	QSL-G1/8-8	10
			132050	QSL-G1/8-8-50	50
<b>Angled push-in fitting, long, with external hex</b>					
	Connecting thread G1/8 for tubing O.D.	4 mm	186127	QSL-G1/8-4	10
			133015	QSL-G1/8-4-100	100
		6 mm	186128	QSL-G1/8-6	10
			133016	QSL-G1/8-6-100	100
		8 mm	186130	QSL-G1/8-8	10
			133017	QSL-G1/8-8-100	100
<b>Silencer</b>					
	With connecting thread G, polymer version	G1/8	2307	U-1/8	1
			534222	U-1/8-50	50
	With connecting thread G, metal version	G1/8	6841	U-1/8-B	1
	With connecting thread G, sintered version, long	G1/8	1205860	AMTE-M-LH-G18	20

1) Packaging unit

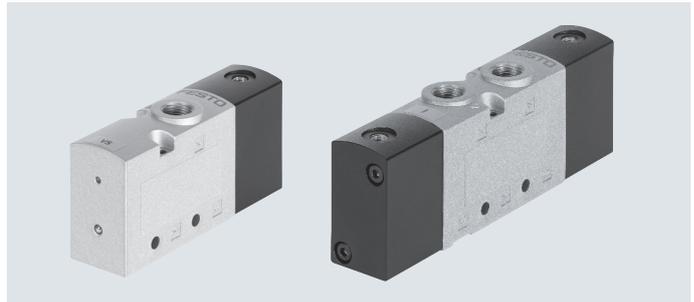
## Accessories

Ordering data	Description	Weight [g]	Part no.	Type
<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>	97	<b>576412</b>	<b>VAME-B10-20-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>	10	<b>8026203</b>	<b>VAME-B10-20-MK</b>
<b>Inscription label</b>				
	Frame with 40 labels	-	<b>565306</b>	<b>ASLR-C-E4</b>

## Datasheet

-  - Flow rate  
up to 1000 l/min

-  - Valve width  
26.5 mm



### General technical data

Valve function	3/2-way valve		2x 3/2-way valve			5/2-way valve	
Order code for valves	M32C	M32U	T32C	T32U	T32H	M52	B52
Valve width [mm]	26.5						
Design	Poppet seat						
Type of control	Direct						
Manual override (MO)	None						
Flow direction	Not reversible						
Overlap	Negative overlap						
Sealing principle	Soft						
Type of mounting	Optionally via through-holes or on manifold rail						
Standard nominal flow rate qnN [l/min]	1000						
Through-holes (nominal width) [mm]	6.9	6.6	6.9	6.9	6.9	6.6	6.6
Product weight [g]	221	255	343	411	377	317	344
Actuation type	Pneumatic						
Mounting position	Any						
Exhaust air function	Can be throttled						
Connection for venting hole	Not ducted						
Pneumatic port	1, 2, 3	G1/4	G1/4	G1/4	G1/4	G1/4	G1/4
	4, 5	-	-	G1/4	G1/4	G1/4	G1/4
Pneumatic spring connection 12/14, 10	M5						

### Technical data – 3/2-way valves

Order code for valves	M32C	M32U	T32C	T32U	T32H
Normal position	Closed	Open	Closed	Open	1x open, 1x closed
Stable position	Monostable				
Reset method	Mechanical spring				
Switching times in [ms]	On	6	7	6	7
	Off	29	30	29	30

## Datasheet

Technical data – 5/2-way valves			
Order code for valves		M52	B52
Stable position		Monostable	Bistable
Reset method		Mechanical spring	–
Switching times in [ms]	On	8	–
	Off	23	–
	Change-over	–	6

Safety characteristics	
Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Vibration resistant	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

Operating and environmental conditions					
Order code for valves		M32	T32	M52	B52
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]			
Pilot medium		Compressed air to ISO 8573-1:2010 [7:4:4]			
Note on the operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)			
Cleanroom class		ISO class 6			
Operating pressure	[MPa]	–0.09 ... 1	–0.09 ... 1	0.25 ... 1	0.15 ... 1
	[bar]	–0.9 ... 10	–0.9 ... 10	2.5 ... 10	1.5 ... 10
Pilot pressure	[MPa]	0.25 ... 1	0.25 ... 1	0.25 ... 1	0.15 ... 1
	[bar]	2.5 ... 10	2.5 ... 10	2.5 ... 10	1.5 ... 10
Ambient temperature	[°C]	–5 ... +60	–5 ... +60	–10 ... +60	–10 ... +60
Temperature of medium	[°C]	–5 ... +60	–5 ... +60	–10 ... +60	–10 ... +60
Certification		c UL us - Recognized (OL)			
Corrosion resistance class CRC <sup>1)</sup>		2			

1) More information [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

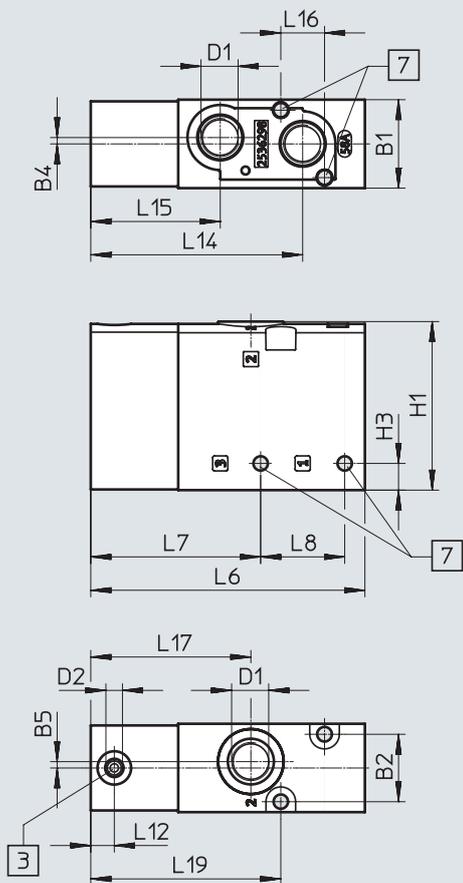
Information on materials	
Housing	Die-cast aluminium (painted)
Seals	HNBR, NBR, TPE-U(PU)
Screws	Galvanised steel
Note on materials	RoHS-compliant

Datasheet

Dimensions

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

3/2-way valve



[3] Port 10/12: pilot air

[7] For retaining screw M4

Type	B1	B2	B4	B5	D1	D2	H1	H3
VUWS-LT25-M32...-M-G14	26.5	20.2	1.9	1.9	G1/4	M5	50.5	8

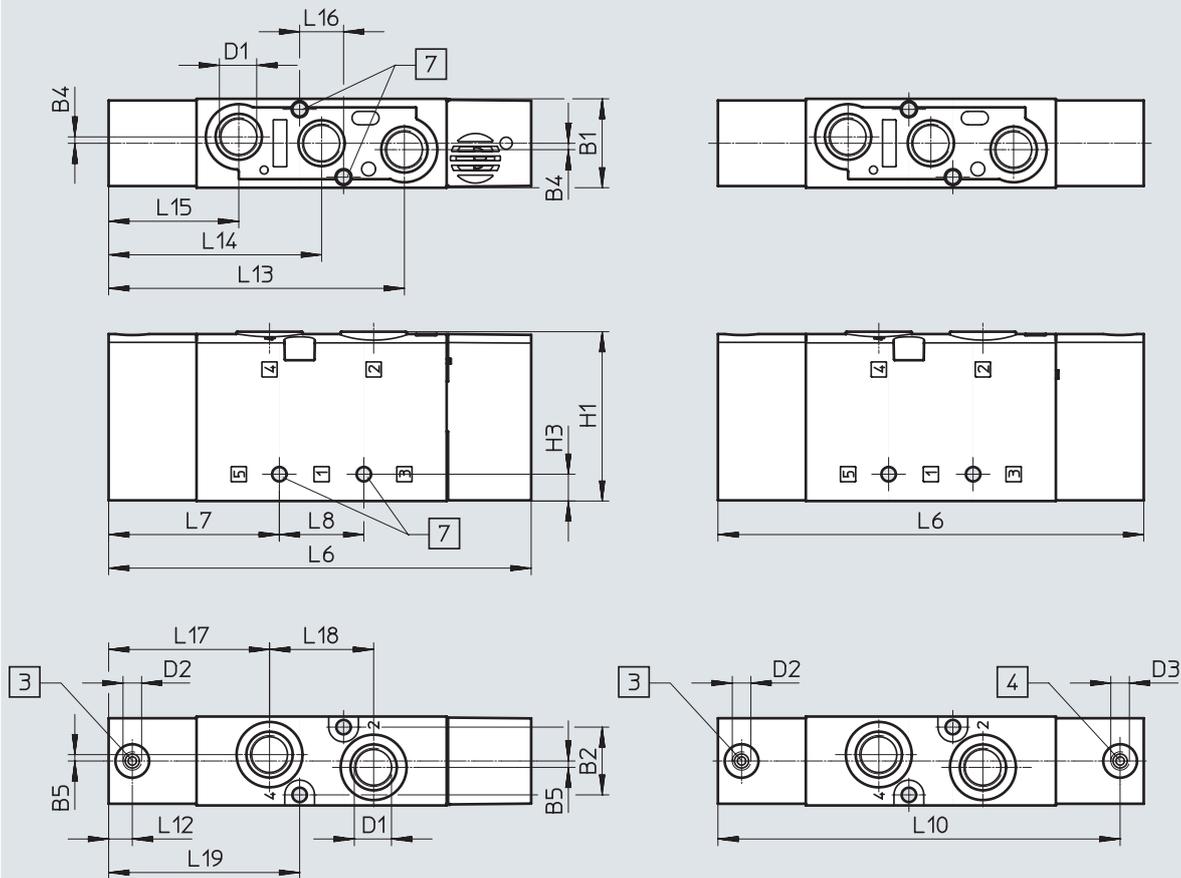
Type	L6	L7	L8	L12	L14	L15	L16	L17	L19
VUWS-LT25-M32...-M-G14	81.6	50.5	25	7	63	38.5	13	47.6	56.5

Datasheet

Dimensions

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

5/2-way valve, monostable



[3] Port 14: pilot air

[4] Port 12: pilot air

[7] For retaining screw M4

Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-LT25-M52-M-G14	26.5	20.2	1.9	1.9	G1/4	M5	M5	50.5	8

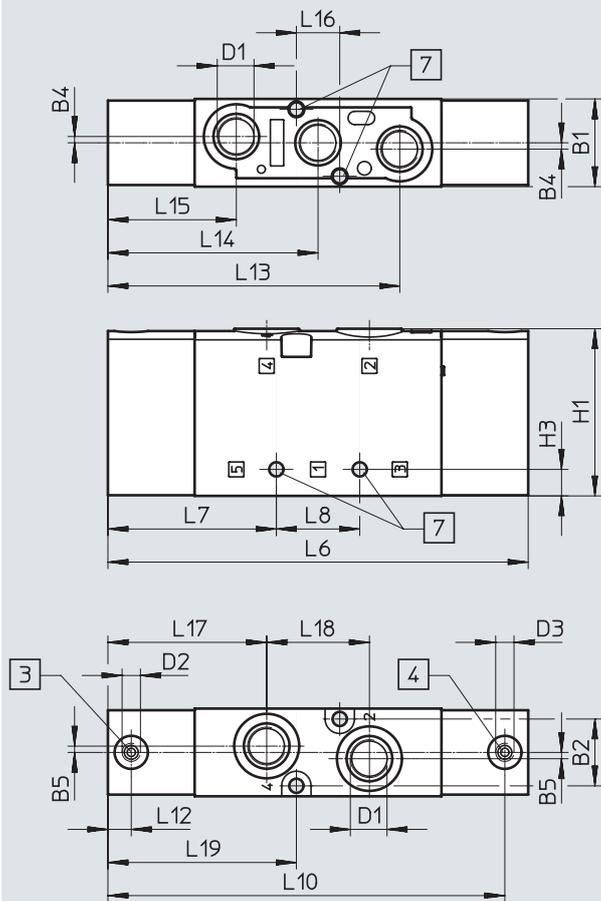
Type	L6	L7	L8	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-LT25-M52-M-G14	125	50.5	25	7	87.5	63	38.5	13	47.6	30.8	56.5

Datasheet

Dimensions

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

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



- [3] Port 14: pilot air
- [4] Port 12: pilot air
- [7] For retaining screw M4

Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-LT25-B52-G14	26.5	20.2	1.9	1.9	G1/4	M5	M5	50.5	8
VUWS-LT25-T32...-M-G14									

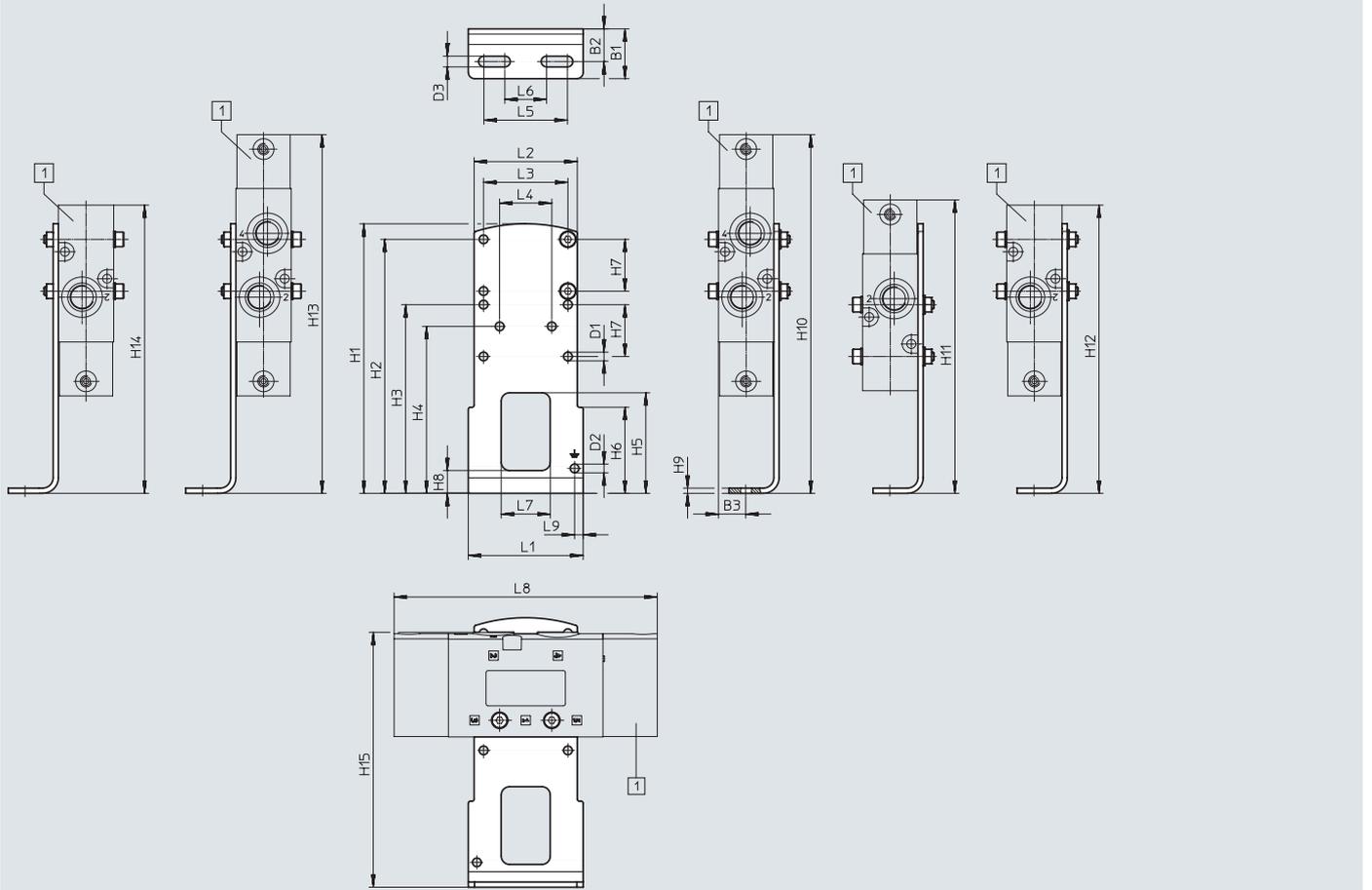
Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-LT25-B52-G14	126	50.5	25	119	7	87.5	63	38.5	13	47.6	30.8	56.5
VUWS-LT25-T32...-M-G14												

Accessories

Dimensions

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

Foot mounting



[1] VUWS-LT25-B52,  
 VUWS-LT25-T32,  
 VUWS-LT25-M52,  
 VUWS-LT25-M32

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

Type		H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-25-A	VUWS-LT25-B52/T32	48.5	41.5	25	11	2.5	173	141.5	173	173	173
	VUWS-LT25-M52								172		172
	VUWS-LT25-M32								128.5		128.5

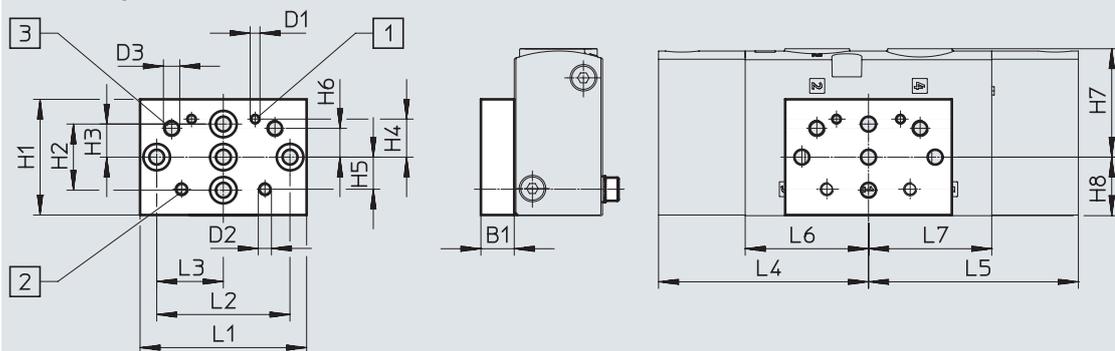
Type		H15	L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-25-A	VUWS-LT25-B52/T32	123	55	49.4	40.4	25	40		23.5	126	4.1
	VUWS-LT25-M52									125	
	VUWS-LT25-M32									81.5	

Accessories

Dimensions

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

Wall mounting



[1] Mounting hole for size 20

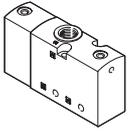
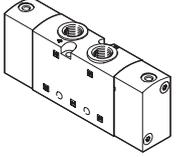
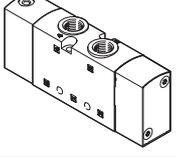
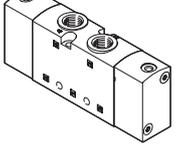
[2] Mounting hole for size 25

[3] Mounting hole for size 30

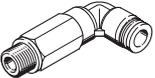
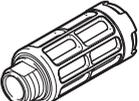
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUWS-LT25-B52/T32	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUWS-LT25-M52										
	VUWS-LT25-M32										

Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUWS-LT25-B52/T32	32.8	17.7	50	40	20	63	63	37	37
	VUWS-LT25-M52									
	VUWS-LT25-M32									

## Accessories

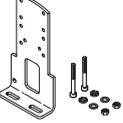
Ordering data – Pneumatic valves				
	Code	Valve function	Part no.	Type
<b>3/2-way valve</b>				
	<b>Normally closed, monostable</b>			
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035173	VUWS-LT25-M32C-M-G14
	<b>Normally open, monostable</b>			
	M32U-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035180	VUWS-LT25-M32U-M-G14
<b>2x 3/2-way valve</b>				
	<b>Normally closed, monostable</b>			
	T32C	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035201	VUWS-LT25-T32C-M-G14
	<b>Normally open, monostable</b>			
	T32U	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035208	VUWS-LT25-T32U-M-G14
<b>1x normally open, 1x normally closed, monostable</b>				
T32H	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035215	VUWS-LT25-T32H-M-G14	
<b>5/2-way valve</b>				
	<b>Monostable</b>			
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8035187	VUWS-LT25-M52-M-G14
	<b>Bistable</b>			
	B52	Internal pilot air supply, flow direction not reversible	8035194	VUWS-LT25-B52-G14

## Accessories

Ordering data	Description		Part no.	Type	PU <sup>1)</sup>
<b>Push-in fitting with internal hex</b>					
	Connecting thread M5 for tubing O.D.	4 mm	153315	QSM-M5-4-I	10
	Connecting thread G1/4 for tubing O.D.	6 mm	186108	QS-G1/4-6-I	10
		8 mm	186110	QS-G1/4-8-I	10
		10 mm	186112	QS-G1/4-10-I	10
<b>Angled push-in fitting, with external hex</b>					
	Connecting thread G1/4 for tubing O.D.	6 mm	186118	QSL-G1/4-6	10
			132051	QSL-G1/4-6-100	100
	8 mm	186120	QSL-G1/4-8	10	
		132052	QSL-G1/4-8-50	50	
	10 mm	186122	QSL-G1/4-10	10	
		132053	QSL-G1/4-10-50	50	
<b>Angled push-in fitting, long, with external hex</b>					
	Connecting thread G1/4 for tubing O.D.	6 mm	186129	QSL-G1/4-6	10
		8 mm	186131	QSL-G1/4-8	10
		10 mm	186133	QSL-G1/4-10	10
<b>Silencer</b>					
	With connecting thread G, polymer version	G1/4	2316	U-1/4	1
			534223	U-1/4-20	20
	With connecting thread G, metal version	G1/4	6842	U-1/4-B	1
	With connecting thread G, sintered version, long	G1/4	1205861	AMTE-M-LH-G14	20

1) Packaging unit

## Accessories

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

## Datasheet

-  - Flow rate  
up to 1800 l/min

-  - Valve width  
31 mm



General technical data		3/2-way valve		2x 3/2-way valve			5/2-way valve	
Valve function								
Order code for valves		M32C	M32U	T32C	T32U	T32H	M52	B52
Valve width	[mm]	31						
Design		Poppet seat						
Type of control		Direct						
Manual override (MO)		None						
Flow direction		Not reversible						
Overlap		Negative overlap						
Sealing principle		Soft						
Type of mounting		Optionally via through-holes or on manifold rail						
Standard nominal flow rate qnN	[l/min]	1600	1600	1600	1600	1600	1800	1800
Through-holes (nominal width)	[mm]	7.9	7.9	7.9	7.8	7.8	8.1	8.7
Product weight	[g]	345	352	515	533	524	473	521
Actuation type		Pneumatic						
Mounting position		Any						
Exhaust air function		Can be throttled						
Connection for venting hole		Not ducted						
Pneumatic port	1, 2, 3	G3/8	G3/8	G3/8	G3/8	G3/8	G3/8	G3/8
	4, 5	-	-	G3/8	G3/8	G3/8	G3/8	G3/8
Pneumatic spring connection 12/14, 10		G1/8						

Technical data – 3/2-way valves		M32C	M32U	T32C	T32U	T32H
Order code for valves						
Normal position		Closed	Open	Closed	Open	1x open, 1x closed
Stable position		Monostable				
Reset method		Mechanical spring				
Switching times in [ms]	On	11	12	12	12	12
	Off	37	45	37	45	45

## Datasheet

Technical data – 5/2-way valves			
Order code for valves		M52	B52
Stable position		Monostable	Bistable
Reset method		Mechanical spring	–
Switching times in [ms]	On	17	–
	Off	77	–
	Change-over	–	13

Safety characteristics	
Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Vibration resistant	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

Operating and environmental conditions					
Order code for valves		M32	T32	M52	B52
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]			
Pilot medium		Compressed air to ISO 8573-1:2010 [7:4:4]			
Note on the operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)			
Cleanroom class		ISO class 6			
Operating pressure	[MPa]	0.1 ... 1	0.1 ... 1	0.25 ... 1	0.15 ... 1
	[bar]	1 ... 10	1 ... 10	2.5 ... 10	1.5 ... 10
Pilot pressure	[MPa]	0.25 ... 1	0.25 ... 1	0.25 ... 1	0.15 ... 1
	[bar]	2.5 ... 10	2.5 ... 10	2.5 ... 10	1.5 ... 10
Ambient temperature	[°C]	–10 ... +60			
Temperature of medium	[°C]	–10 ... +60			
Certification		c UL us - Recognized (OL)			
Corrosion resistance class CRC <sup>1)</sup>		2			

1) More information [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

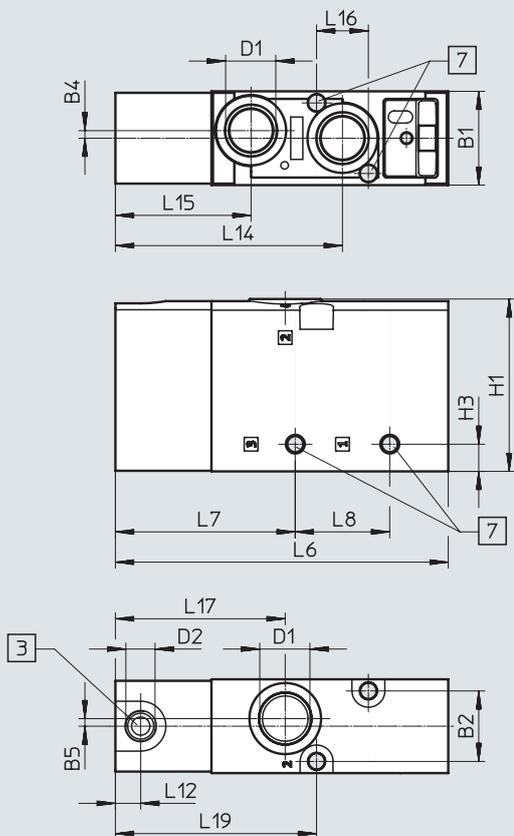
Information on materials					
Order code for valves		M32	T32	M52	B52
Housing		Die-cast aluminium (painted)			
Piston spool		POM		Wrought aluminium alloy	
Seals		HNBR, NBR, TPE-U(PU)			
Screws		Galvanised steel			
Note on materials		RoHS-compliant			

## Datasheet

### Dimensions

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

3/2-way valve, normally closed/open



- [3] Port 10: pilot air (...-M32U-...)  
Port 12: pilot air (...-M32C-...)
- [7] For retaining screw M5

Type	B1	B2	B4	B5	D1	D2	H1	H3
VUWS-LT30-M32...-G38	31	23.3	2.5	2.5	G3/8	G1/8	57	9

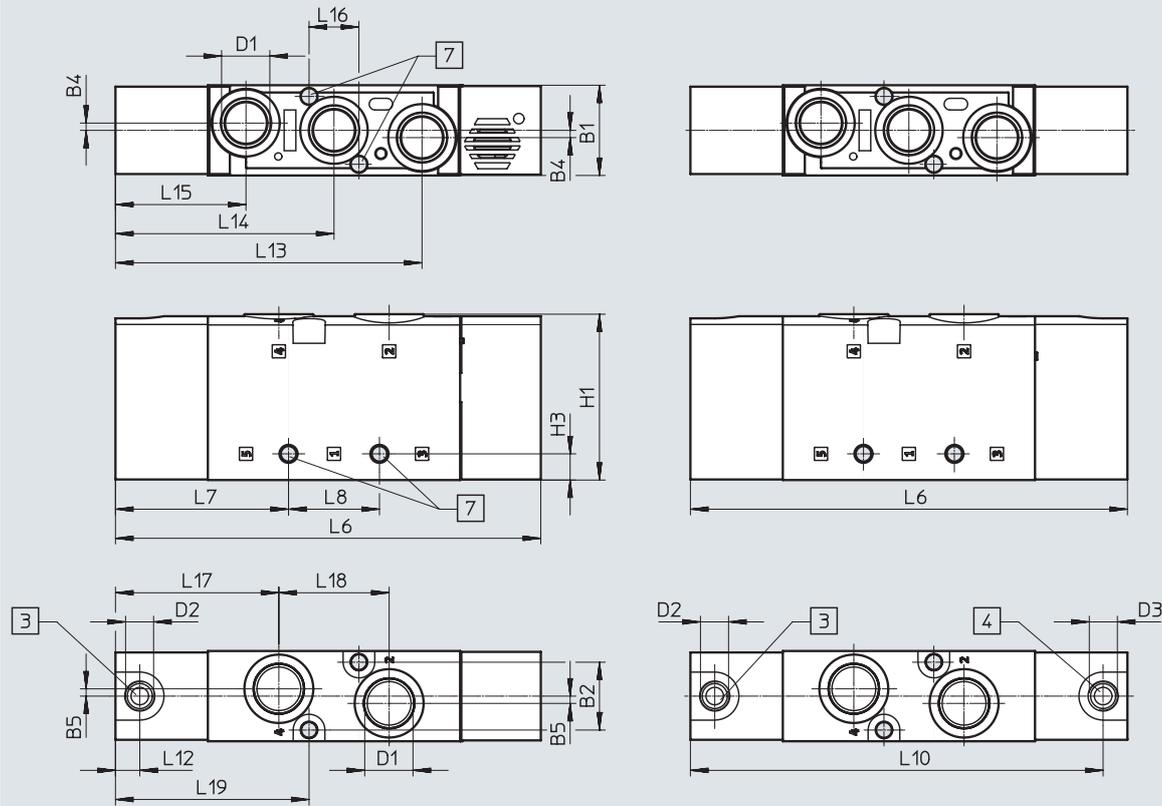
Type	L6	L7	L8	L12	L14	L15	L16	L17	L19
VUWS-LT30-M32...-G38	109.2	59	31	8.3	74.5	44.5	17	55.7	66

Datasheet

Dimensions

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

5/2-way valve, monostable



[3] Port 14: pilot air

[7] For retaining screw M5

Type	B1	B2	B4	B5	D1	D2	H1	H3
VUWS-LT30-M52-...-G38	31	23.3	2.5	2.5	G3/8	G1/8	57	9

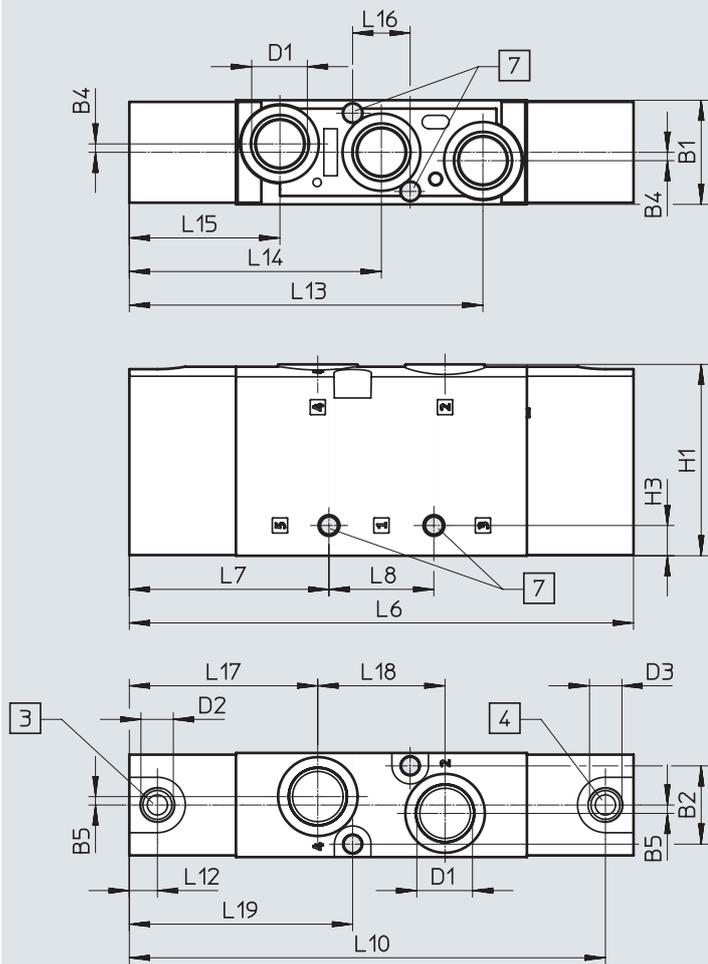
Type	L6	L7	L8	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-LT30-M52-...-G38	145	59	31	8.3	104.5	74.5	44.5	17	55.7	37.6	66

Datasheet

Dimensions

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

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



- [3] Port 14: pilot air
- [4] Port 12: pilot air
- [7] For retaining screw M5

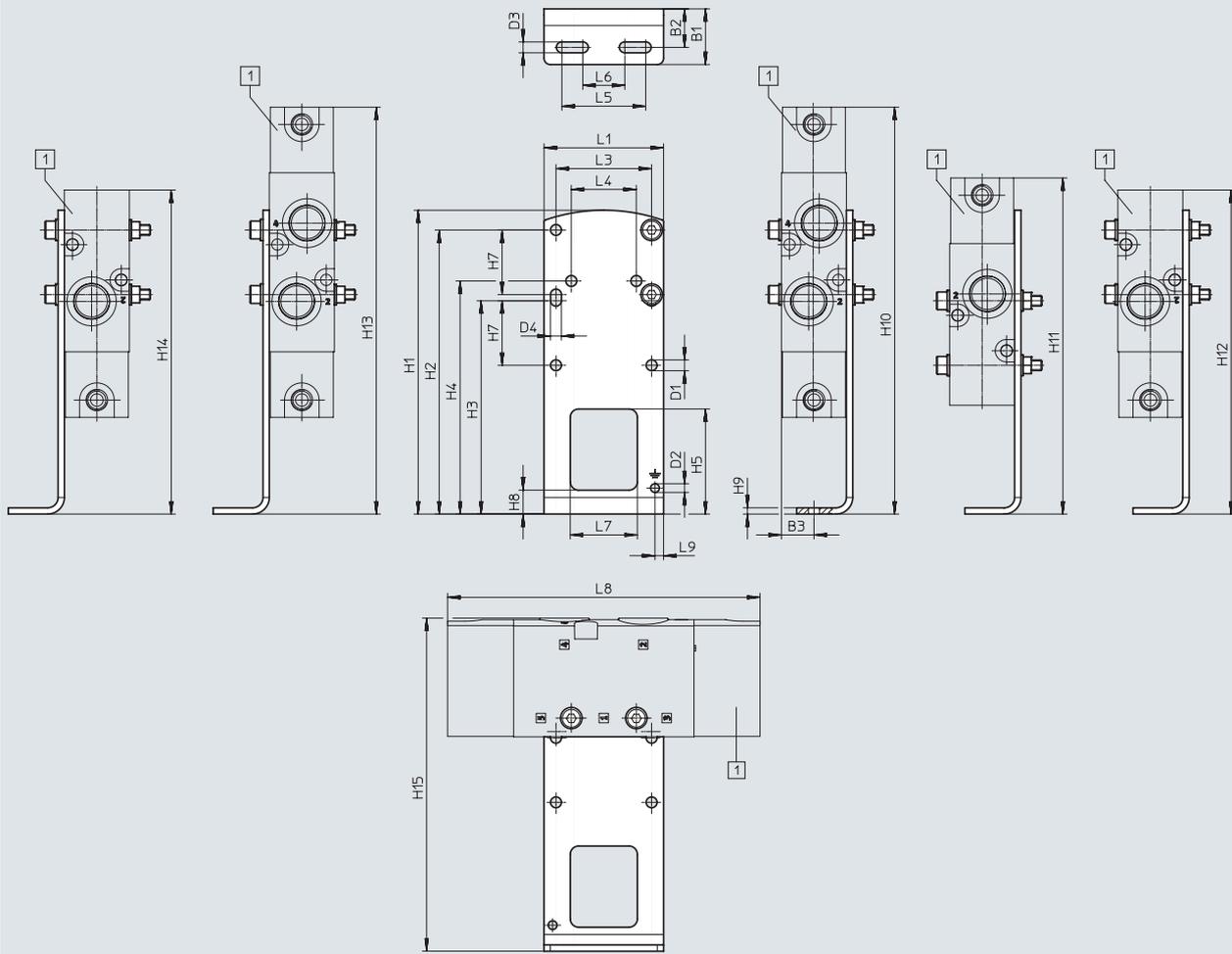
Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-LT30-B52-G38	31	23.3	2.5	2.5	G3/8	G1/8	G1/8	57	9
VUWS-LT30-T32-...-M-G38									

Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-LT30-B52-G38	149	59	31	140.7	8.3	104.5	74.5	44.5	17	55.7	37.6	66
VUWS-LT30-T32-...-M-G38												

Accessories

Dimensions

Foot mounting



[1] VUWS-LT30-B52,  
 VUWS-LT30-T32,  
 VUWS-LT30-M52,  
 VUWS-LT30-M32

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

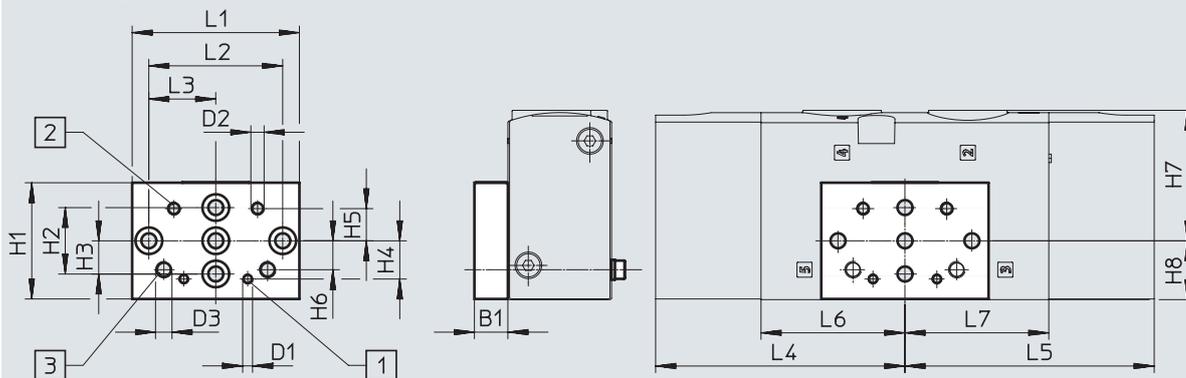
Type		H4	H5	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-30-A	VUWS-LT30-B52/T32	112	50.5	31	11.5	3	195.5	161.5	195.5	195.5	195.5
	VUWS-LT30-M52								191.5		191.5
	VUWS-LT30-M32								144		144

Type		H15	L1	L3	L4	L5	L6	L7	L8	L9
VAME-B10-30-A	VUWS-LT30-B52/T32	160	57	45.6	31	40	20	32	149	4.1
	VUWS-LT30-M52								145	
	VUWS-LT30-M32								97.5	

Accessories

Dimensions

Wall mounting



[1] Mounting hole for size 20

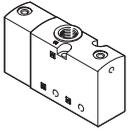
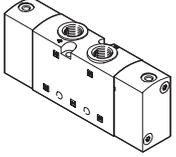
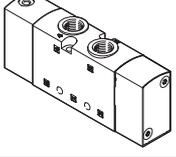
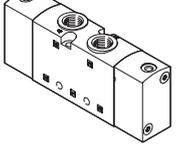
[2] Mounting hole for size 25

[3] Mounting hole for size 30

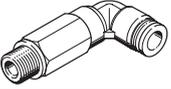
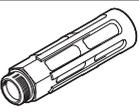
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUWS-LT30-B52/T32	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUWS-LT30-M52										
	VUWS-LT30-M32										

Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUWS-LT30-B52/T32	39.3	17.7	50	40	20	74.5	74.5	43	43
	VUWS-LT30-M52									-
	VUWS-LT30-M32									-

## Accessories

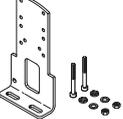
Ordering data – Pneumatic valves				
	Code	Valve function	Part no.	Type
<b>3/2-way valve</b>				
	<b>Normally closed, monostable</b>			
	M32C-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8096574	VUWS-LT30-M32C-M-G38
	<b>Normally open, monostable</b>			
	M32U-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8096575	VUWS-LT30-M32U-M-G38
<b>2x 3/2-way valve</b>				
	<b>Normally closed, monostable</b>			
	T32C	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036706	VUWS-LT30-T32C-M-G38
	<b>Normally open, monostable</b>			
	T32U	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036713	VUWS-LT30-T32U-M-G38
<b>1x normally open, 1x normally closed, monostable</b>				
T32H	Mechanical spring return, internal pilot air supply, flow direction not reversible	8036720	VUWS-LT30-T32H-M-G38	
<b>5/2-way valve</b>				
	<b>Monostable</b>			
	M52-M	Mechanical spring return, internal pilot air supply, flow direction not reversible	8096576	VUWS-LT30-M52-M-G38
	<b>Bistable</b>			
	B52	Internal pilot air supply, flow direction not reversible	8096577	VUWS-LT30-B52-G38

## Accessories

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	186106	QS-G1/8-4-I	10
			133008	QS-G1/8-4-I-100	100
		6 mm	186107	QS-G1/8-6-I	10
			133009	QS-G1/8-6-I-100	100
	Connecting thread G3/8 for tubing O.D.	8 mm	186111	QS-G3/8-8-I	10
		10 mm	186113	QS-G3/8-10-I	10
12 mm		186114	QS-G3/8-12-I	10	
<b>Angled push-in fitting, with external hex</b>					
	Connecting thread G3/8 for tubing O.D.	8 mm	186121	QSL-G3/8-8	10
			132055	QSL-G3/8-8-50	50
		10 mm	186123	QSL-G3/8-10	10
			132056	QSL-G3/8-10-20	20
		12 mm	186124	QSL-G3/8-12	10
			132057	QSL-G3/8-12-20	20
<b>Angled push-in fitting, long, with external hex</b>					
	Connecting thread G3/8 for tubing O.D.	8 mm	186132	QSL-G3/8-8	10
		10 mm	186134	QSL-G3/8-10	10
		12 mm	186135	QSL-G3/8-12	10
<b>Silencer</b>					
	With connecting thread G, metal version	G3/8	6843	U-3/8-B	1
	With connecting thread G, sintered version, long	G3/8	1205862	AMTE-M-LH-G38	10

1) Packaging unit

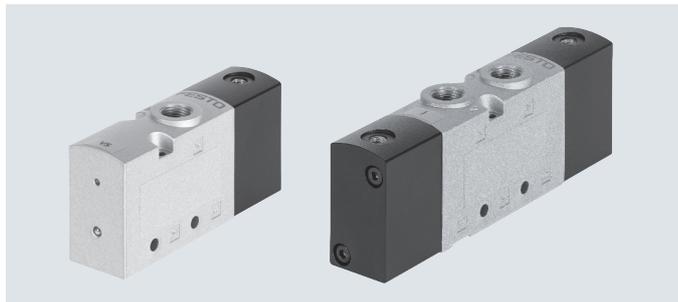
## Accessories

Ordering data	Description	Weight [g]	Part no.	Type
<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>	–	<b>8026337</b>	<b>VAME-B10-30-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>	–	<b>8035637</b>	<b>VAME-B10-30-MK</b>
<b>Inscription label</b>				
	Frame with 40 labels	–	<b>565306</b>	<b>ASLR-C-E4</b>

## Datasheet

-  - 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 control	Direct						
Manual override (MO)	None						
Flow direction	Reversible with restrictions						
Overlap	Positive overlap						
Sealing principle	Soft						
Type of mounting	Optionally via through-holes <sup>1)</sup> or on manifold rail						
Standard nominal flow rate qnN [l/min]	700		700		700	600	600
Through-holes (nominal width) [mm]	5.7		5.7		5.0	4.8	4.5
Product weight [g]	145		17 8/190 <sup>2)</sup>		211	207	207
Actuation type	Pneumatic						
Mounting position	Any						
Exhaust air function	Can be throttled						
Venting hole	Not ducted						
Pneumatic port	1, 2, 3	G1/8	G1/8	G1/8	G1/8	G1/8	G1/8
	4, 5	–	–	G1/8	G1/8	G1/8	G1/8
Pneumatic spring connection 12/14, 10	M5						

1) If several valves are to be screwed together via 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

## Datasheet

Technical data – 3/2-way valves					
Order code for valves		M32C		M32U	
Normal position		Closed		Open	
Stable position		Monostable		Monostable	
Reset method		Pneumatic spring	Mechanical spring (supported internally by pneumatic spring)	Pneumatic spring	Mechanical spring (supported internally by pneumatic spring)
Switching times in [ms]	On	7	10	7	10
	Off	15	28	15	28
	Change-over	–	–	–	–

Technical data – 5/2-way valves				
Order code for valves		M52		B52
Stable position		Monostable		Bistable
Reset method		Pneumatic spring	Mechanical spring	–
Switching times in [ms]	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 in [ms]	On	10	10	10	
	Off	44	43	46	
	Change-over	26	21	21	

Safety characteristics	
Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Vibration resistant	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

Operating and environmental conditions							
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 the operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)					
Cleanroom class		ISO class 6					
Operating pressure	[MPa]	0.25 ... 1	–0.09 ... +1	0.25 ... 1	–0.09 ... +1	–0.09 ... +1	–0.09 ... +1
	[bar]	2.5 ... 10	–0.9 ... +10	2.5 ... 10	–0.9 ... +10	–0.9 ... +10	–0.9 ... +10
Pilot pressure	[MPa]	0.25 ... 1	0.25 ... 1	0.25 ... 1	0.25 ... 1	0.15 ... 1	0.25 ... 1
	[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					
Certification		c UL us - Recognized (OL)					
Corrosion resistance class CRC <sup>1)</sup>		2					

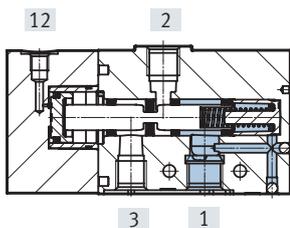
1) More information [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

## Datasheet

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

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

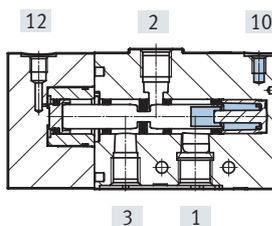
#### Mechanical spring return



#### 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 at port 2 not permitted

#### Pneumatic spring return



#### 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 at port 2 not permitted

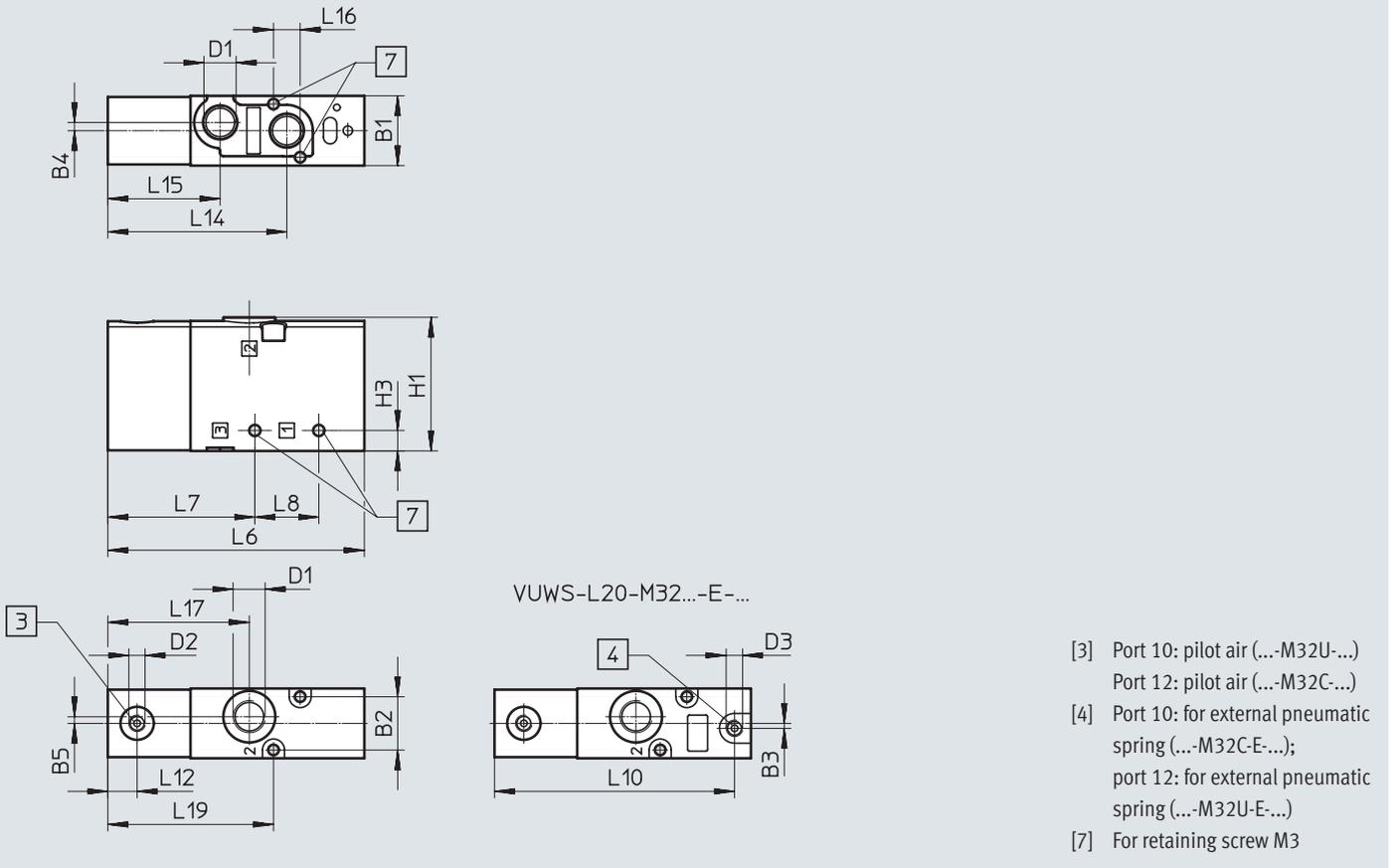
Datasheet

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



- [3] Port 10: pilot air (...-M32U-...)  
Port 12: pilot air (...-M32C-...)
- [4] Port 10: for external pneumatic spring (...-M32C-E-...);  
port 12: for external pneumatic spring (...-M32U-E-...)
- [7] For retaining screw M3

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						

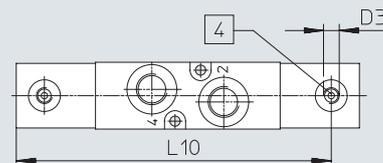
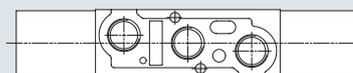
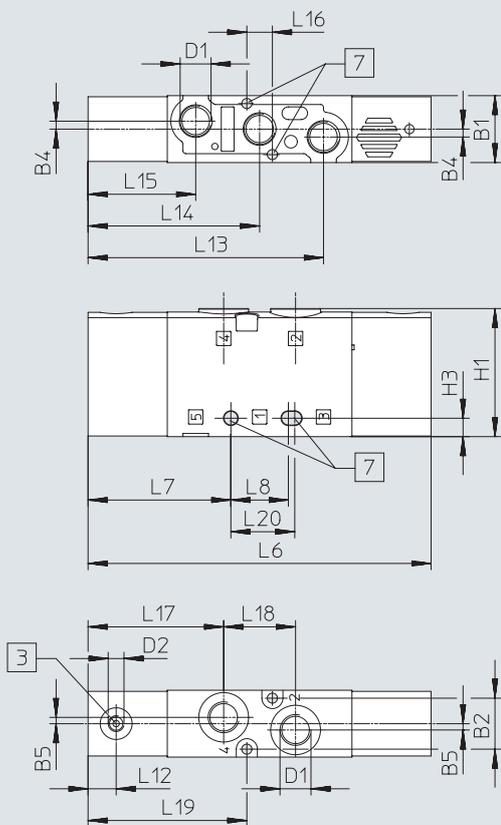
Datasheet

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 retaining screw M4

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	5.8
VUWS-L20-M52-E-G18					G1/8	M5	M5		

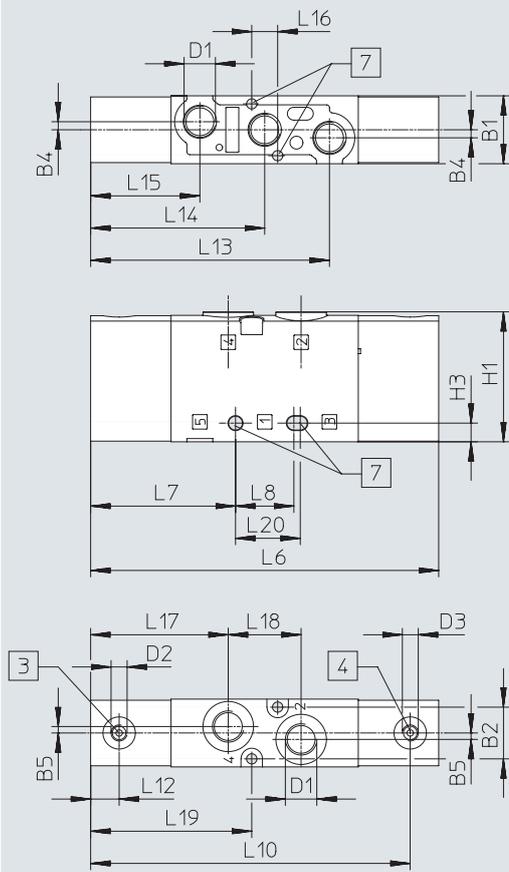
Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19	L20
VUWS-L20-M52-...-G18	107.4	44.7	18	-	8.8	73.7	53.7	33.7	8	42.5	22.5	49.7	20
VUWS-L20-M52-E-G18				98.6									

# Datasheet

## Dimensions

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



- [3] Port 14: pilot air
- [4] Port 12: pilot air
- [7] For retaining screw M4

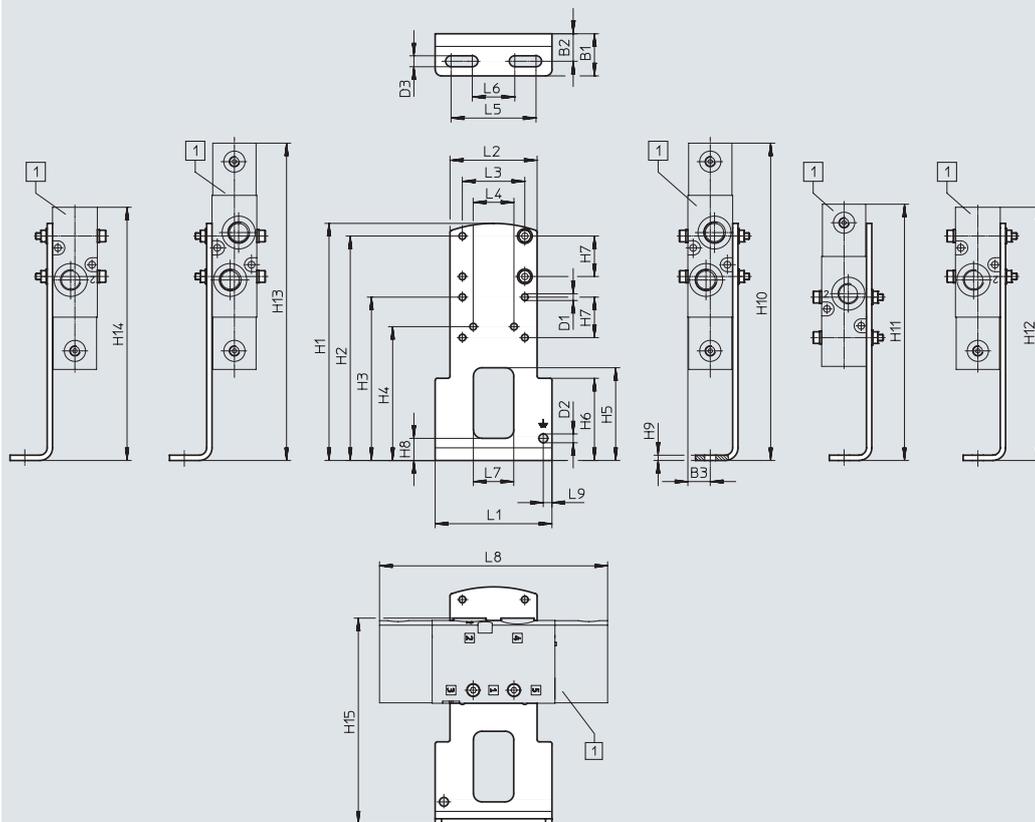
Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L20-P53-...-M-G18	21.1	16.1	2.5	2	G1/8	M5	M5	40.4	5.8
VUWS-L20-B52-G18									

Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19	L20
VUWS-L20-P53-...-M-G18	107.4	44.7	18	98.6	8.8	73.7	53.7	33.7	8	42.5	22.5	49.7	20
VUWS-L20-B52-G18													

Datasheet

Dimensions

Foot mounting



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

Type		B1	B2	B3	D1 ∅	D2 ∅	D3 ∅	H1	H2	H3	H4
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
	VUWS-L20-M52										
	VUWS-L20-M32										

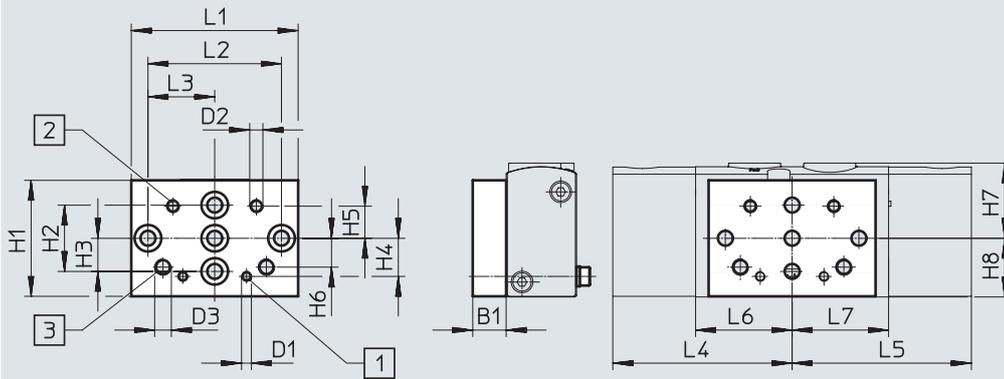
Type		H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-20-A	VUWS-L20-B52/P53	44	39	19.2	10.5	2.5	150.6	121.6	150.6	150.6	150.6
	VUWS-L20-M52								120.2		
	VUWS-L20-M32								120.2		

Type		H15	L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-20-A	VUWS-L20-B52/P53	97.7	55	41	29.4	19.2	40	20	19	107.4	4.1
	VUWS-L20-M52									77	
	VUWS-L20-M32									77	

## Datasheet

### Dimensions

Wall mounting



[1] Mounting hole for size 20

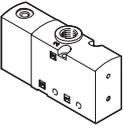
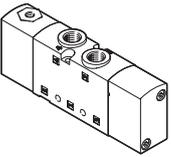
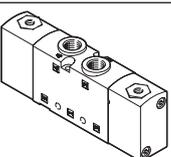
[2] Mounting hole for size 25

[3] Mounting hole for size 30

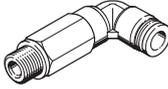
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUWS-L20-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUWS-L20-M52										
	VUWS-L20-M32										

Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUWS-L20-B52/P53	22.7	17.7	50	40	20	53.7	53.7	28.9	28.9
	VUWS-L20-M52									
	VUWS-L20-M32									

## Ordering data – Pneumatic valves, size 20

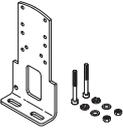
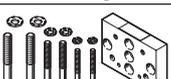
Ordering data – Pneumatic valves				
	Code	Valve function	Part no.	Type
<b>3/2-way valve</b>				
	<b>Normally closed, monostable</b>			
	M32C-A	Pneumatic spring return, internal pneumatic spring, flow direction not reversible	575669	VUWS-L20-M32C-A-G18
	M32C-E	Pneumatic spring return, external pneumatic spring, reversible flow direction	575670	VUWS-L20-M32C-E-G18
	M32C-M	Mechanical spring return, supported by internal pneumatic spring, flow direction not reversible	575671	VUWS-L20-M32C-M-G18
	<b>Normally open, monostable</b>			
	M32U-A	Pneumatic spring return, internal pneumatic spring, flow direction not reversible	575672	VUWS-L20-M32U-A-G18
	M32U-E	Pneumatic spring return, external pneumatic spring, reversible flow direction	575673	VUWS-L20-M32U-E-G18
	M32U-M	Mechanical spring return, supported by internal pneumatic spring, flow direction not reversible	575674	VUWS-L20-M32U-M-G18
	<b>5/2-way valve</b>			
	<b>Monostable</b>			
	M52-A	Pneumatic spring return, internal pneumatic spring, flow direction not reversible	575677	VUWS-L20-M52-A-G18
	M52-E	Pneumatic spring return, external pneumatic spring, reversible flow direction	575678	VUWS-L20-M52-E-G18
	M52-M	Mechanical spring return, reversible flow direction	575681	VUWS-L20-M52-M-G18
	<b>Bistable</b>			
B52	Reversible flow direction	575684	VUWS-L20-B52-G18	
<b>5/3-way valve</b>				
	P53C	Closed, mechanical spring return, reversible flow direction	575687	VUWS-L20-P53C-M-G18
	P53E	Exhausted, mechanical spring return, reversible flow direction	575693	VUWS-L20-P53E-M-G18
	P53U	Pressurised, mechanical spring return, reversible flow direction	575690	VUWS-L20-P53U-M-G18

## Accessories

Ordering data	Description	Part no.	Type	PU <sup>1)</sup>	
<b>Push-in fitting with internal hex</b>					
	Connecting thread M5 for tubing O.D.	4 mm	153315	QSM-M5-4-I	10
	Connecting thread G1/8 for tubing O.D.	4 mm	186106	QS-G1/8-4-I	10
		4 mm	133008	QS-G1/8-4-I-100	100
		6 mm	186107	QS-G1/8-6-I	10
			133009	QS-G1/8-6-I-100	100
		8 mm	186109	QS-G1/8-8-I	10
			133010	QS-G1/8-8-I-100	100
<b>Angled push-in fitting, with external hex</b>					
	Connecting thread G1/8 for tubing O.D.	4 mm	186116	QSL-G1/8-4	10
			132048	QSL-G1/8-4-100	100
		6 mm	186117	QSL-G1/8-6	10
			132049	QSL-G1/8-6-100	100
		8 mm	186119	QSL-G1/8-8	10
			132050	QSL-G1/8-8-50	50
<b>Angled push-in fitting, long, with external hex</b>					
	Connecting thread G1/8 for tubing O.D.	4 mm	186127	QSL-G1/8-4	10
			133015	QSL-G1/8-4-100	100
		6 mm	186128	QSL-G1/8-6	10
			133016	QSL-G1/8-6-100	100
		8 mm	186130	QSL-G1/8-8	10
			133017	QSL-G1/8-8-100	100
<b>Silencer</b>					
	With connecting thread G, polymer version	G1/8	2307	U-1/8	1
			534222	U-1/8-50	50
	With connecting thread G, metal version	G1/8	6841	U-1/8-B	1
	With connecting thread G, sintered version, long	G1/8	1205860	AMTE-M-LH-G18	20

1) Packaging unit

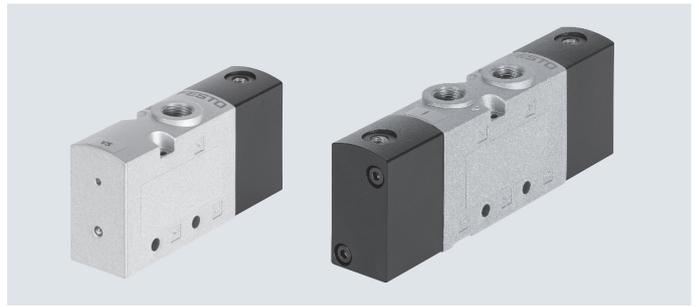
## Accessories

Ordering data	Description	Weight [g]	Part no.	Type
<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>	97	576412	VAME-B10-20-A
<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	576413	VAME-B10-20-W
<b>Assortment of spare parts</b>				
	Set comprising: <ul style="list-style-type: none"> <li>• Seals and</li> <li>• Screws</li> </ul>	10	8026203	VAME-B10-20-MK
<b>Inscription label</b>				
	Frame with 40 labels	-	565306	ASLR-C-E4

## Datasheet

-  - 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 control	Direct						
Manual override (MO)	None						
Flow direction	Reversible with restrictions (not reversible: identified by A in type code)						
Overlap	Positive overlap						
Sealing principle	Soft						
Type of mounting	Optionally via through-holes <sup>1)</sup> or on manifold rail						
Standard nominal flow rate q <sub>nN</sub> [l/min]	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
Actuation type	Pneumatic						
Mounting position	Any						
Exhaust air function	Can be throttled						
Venting hole	Not ducted						
Pneumatic port	1, 2, 3	G1/4	G1/4	G1/4	G1/4	G1/4	G1/4
	4, 5	–	G1/4	G1/4	G1/4	G1/4	G1/4
Pneumatic spring connection 12/14, 10	M5						

1) If several valves are to be screwed together via 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 position	Monostable		Monostable	
Reset method	Pneumatic spring		Mechanical spring	
Switching times in [ms]	On	10	10	10
	Off	25	43	43
	Change-over	–	–	–

## Datasheet

Technical data – 5/2-way valves			
Order code for valves		M52	B52
Stable position		Monostable	Bistable
Reset method		Pneumatic spring	Mechanical spring
Switching times in [ms]	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 in [ms]	On	13	13	13
	Off	65	65	65
	Change-over	30	30	30

Safety characteristics	
Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Vibration resistant	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

Operating and environmental conditions							
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 the operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)					
Cleanroom class		ISO class 6					
Operating pressure	[MPa]	0.25 ... 1	–0.09 ... +1	0.25 ... 1	–0.09 ... +1	–0.09 ... +1	–0.09 ... +1
	[bar]	2.5 ... 10	–0.9 ... +10	2.5 ... 10	–0.9 ... +10	–0.9 ... +10	–0.9 ... +10
Pilot pressure	[MPa]	0.25 ... 1	0.25 ... 1	0.25 ... 1	0.25 ... 1	0.15 ... 1	0.25 ... 1
	[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					
Certification		c UL us - Recognized (OL)					
Corrosion resistance class CRC <sup>1)</sup>		2					

1) More information [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

Information on materials	
Housing	Die-cast aluminium (painted)
Seals	HNBR, NBR
Piston spool	Wrought aluminium alloy
Screws	Galvanised steel
Note on materials	RoHS-compliant

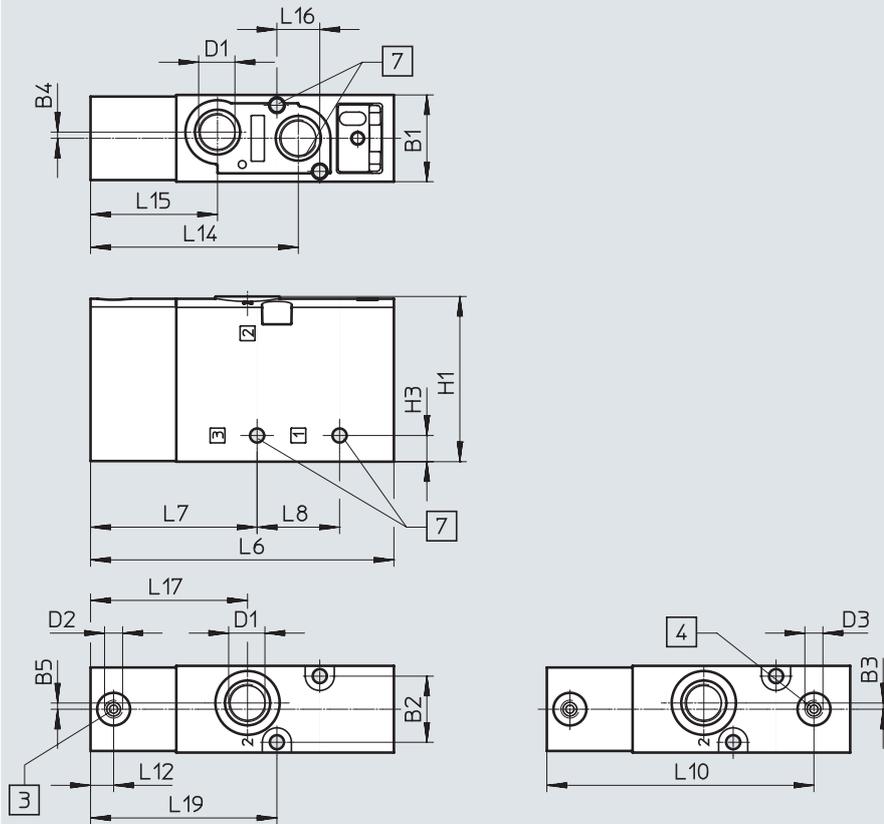
Datasheet

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



- [3] Port 10: pilot air (...-M32U-...)  
Port 12: pilot air (...-M32C-...)
- [4] Port 10: for external pneumatic spring (...-M32C-E-...);  
port 12: for external pneumatic spring (...-M32U-E-...)
- [7] For retaining screw M4

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						

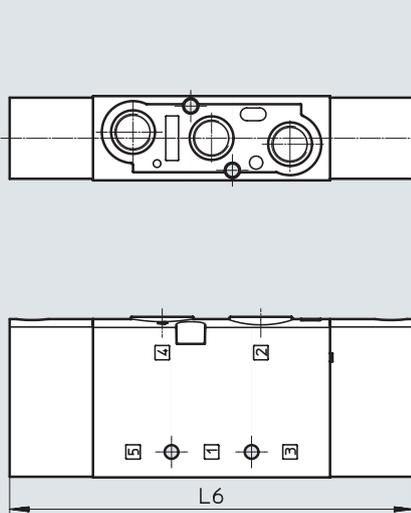
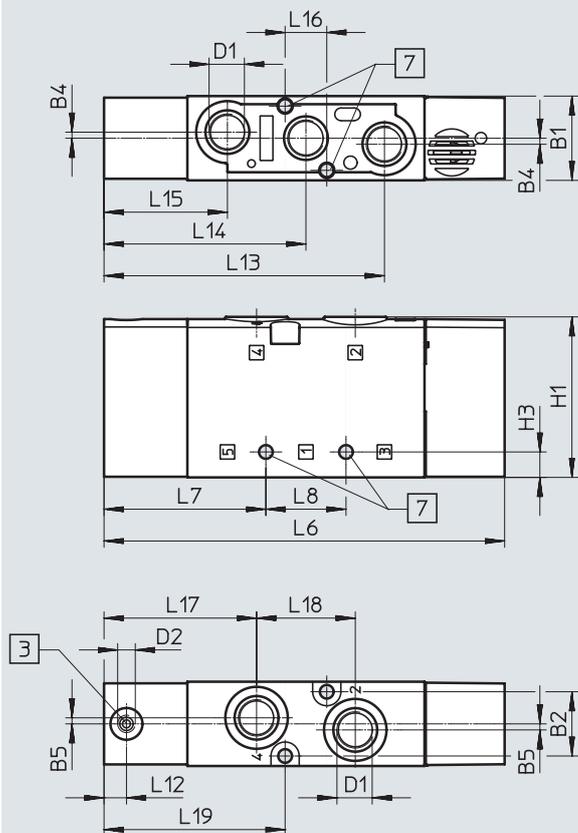
Datasheet

Dimensions

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5/2-way valve, monostable

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



[3] Port 14: pilot air (-M52-...)

[4] Port 12: pilot air/(pneumatic spring) (...M52-E-...)

[7] For retaining screw M4

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		

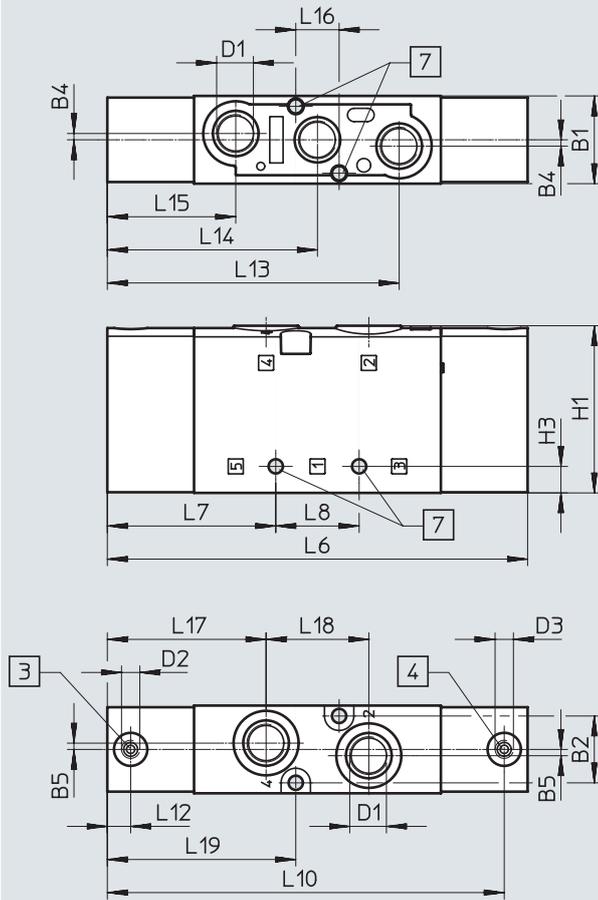
Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-L25-M52-...-G14	125	50.5	25	—	7	87.5	63	38.5	13	47.6	30.8	56.5
VUWS-L25-M52-E-G14				119								

Datasheet

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 retaining screw M4

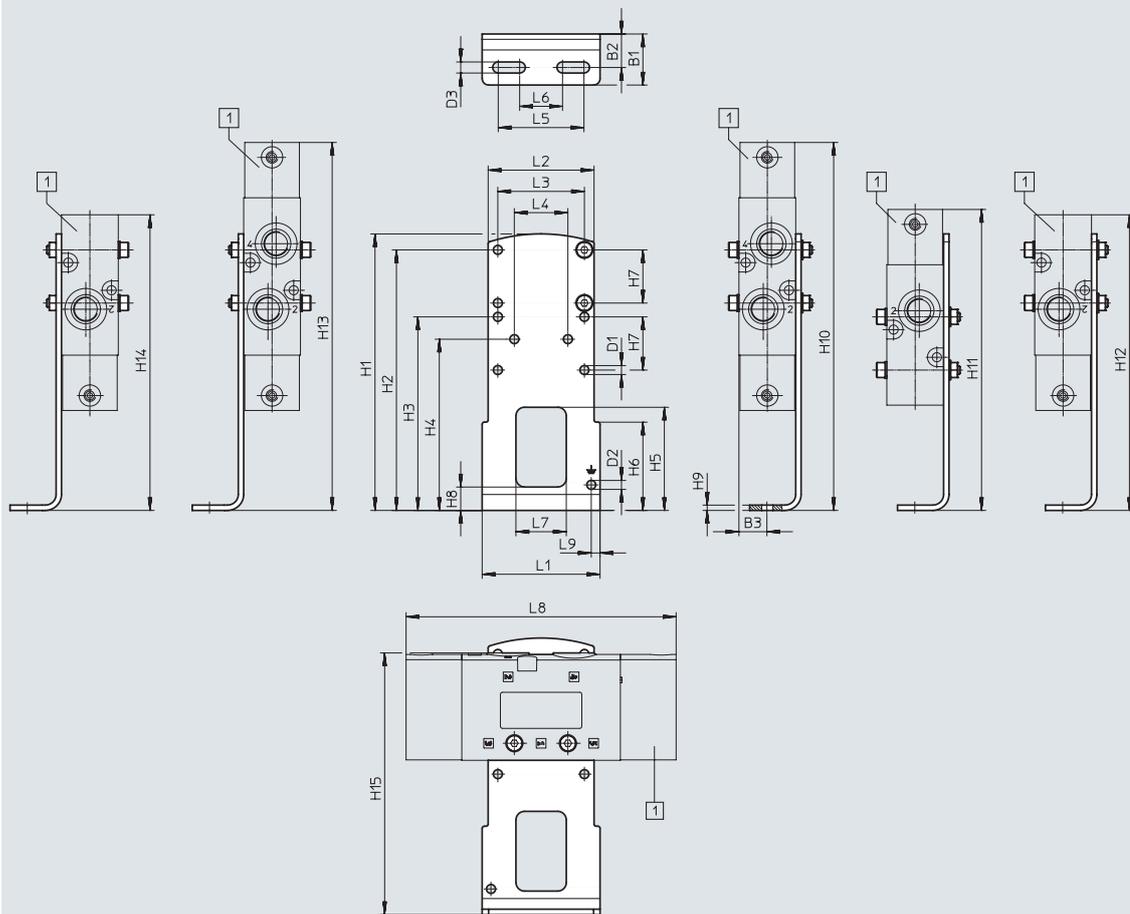
Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L25-P53-...-M-G14	26.5	20.2	1.9	1.9	G1/4	M5	M5	50.5	8
VUWS-L25-B52-G14									

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												

Datasheet

Dimensions

Foot mounting



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

Type		B1	B2	B3	D1 Ø	D2 Ø	D3	H1	H2	H3	H4
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
	VUWS-L25-M52-E										
	VUWS-L25-M52										
	VUWS-L25-M32										

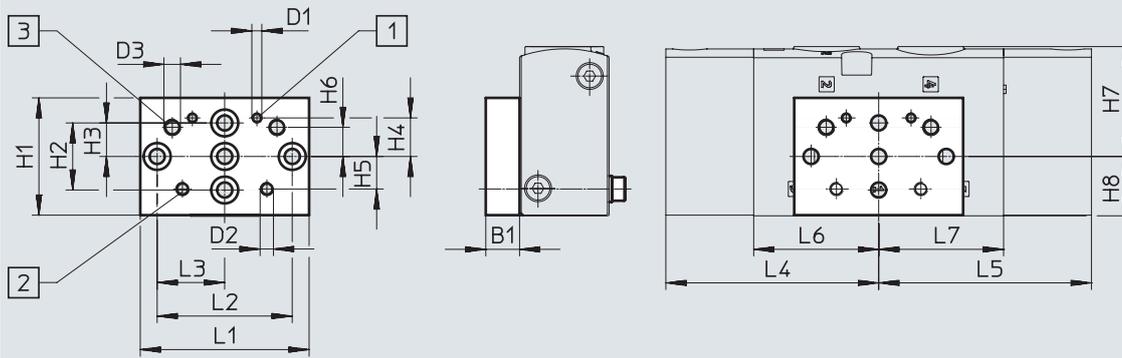
Type		H5	H6	H7	H8	H9	H10	H11	H12	H13	H14		
VAME-B10-25-A	VUWS-L25-B52/P53	48.5	41.5	25	11	2.5	173	141.5	173	173	173		
	VUWS-L25-M52-E												
	VUWS-L25-M52											172	172
	VUWS-L25-M32											139	139

Type		H15	L1	L2	L3	L4	L5	L6	L7	L8	L9	
VAME-B10-25-A	VUWS-L25-B52/P53	123	55	49.4	40.4	25	40	20	23.5	126	4.1	
	VUWS-L25-M52-E											
	VUWS-L25-M52											125
	VUWS-L25-M32											92

Datasheet

Dimensions

Wall mounting



[1] Mounting hole for size 20

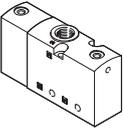
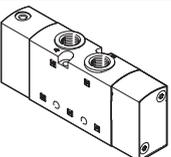
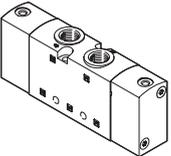
[2] Mounting hole for size 25

[3] Mounting hole for size 30

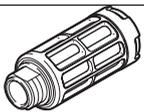
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUWS-L25-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUWS-L25-M52-E										
	VUWS-L25-M52										
	VUWS-L25-M32										

Type		H7	H8	L1	L2	L3	L4	L5	L6	L7		
VAME-B10-20-W	VUWS-L25-B52/P53	32.8	17.7	50	40	20	63	63	37	37		
	VUWS-L25-M52-E											
	VUWS-L25-M52										62	-
	VUWS-L25-M32										29	-

## Ordering data

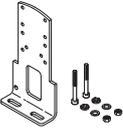
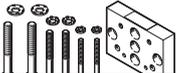
Ordering data – Pneumatic valves				
	Code	Valve function	Part no.	Type
<b>3/2-way valve</b>				
	<b>Normally closed, monostable</b>			
	M32C-A	Pneumatic spring return, internal pneumatic spring, flow direction not reversible	575483	VUWS-L25-M32C-A-G14
	M32C-E	Pneumatic spring return, external pneumatic spring, reversible flow direction	575484	VUWS-L25-M32C-E-G14
	M32C-M	Mechanical spring return, reversible flow direction	575485	VUWS-L25-M32C-M-G14
	<b>Normally open, monostable</b>			
	M32U-A	Pneumatic spring return, internal pneumatic spring, flow direction not reversible	575498	VUWS-L25-M32U-A-G14
	M32U-E	Pneumatic spring return, external pneumatic spring, reversible flow direction	575499	VUWS-L25-M32U-E-G14
	M32U-M	Mechanical spring return, reversible flow direction	575500	VUWS-L25-M32U-M-G14
	<b>5/2-way valve</b>			
	<b>Monostable</b>			
	M52-A	Pneumatic spring return, internal pneumatic spring, flow direction not reversible	575507	VUWS-L25-M52-A-G14
	M52-E	Pneumatic spring return, external pneumatic spring, reversible flow direction	575508	VUWS-L25-M52-E-G14
	M52-M	Mechanical spring return, reversible flow direction	575515	VUWS-L25-M52-M-G14
	<b>Bistable</b>			
B52	Reversible flow direction	575522	VUWS-L25-B52-G14	
<b>5/3-way valve</b>				
	<b>Mid-position closed</b>			
	P53C	Mechanical spring return, reversible flow direction	575529	VUWS-L25-P53C-M-G14
	<b>Mid-position exhausted</b>			
	P53E	Mechanical spring return, reversible flow direction	575543	VUWS-L25-P53E-M-G14
<b>Mid-position pressurised</b>				
P53U	Mechanical spring return, reversible flow direction	575536	VUWS-L25-P53U-M-G14	

## Accessories

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>	10
	Connecting thread G1/4 for tubing O.D.	6 mm	<b>186108</b>	<b>QS-G1/4-6-I</b>	10
		8 mm	<b>186110</b>	<b>QS-G1/4-8-I</b>	10
		10 mm	<b>186112</b>	<b>QS-G1/4-10-I</b>	10
<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>	10
			<b>132051</b>	<b>QSL-G1/4-6-100</b>	100
	8 mm	<b>186120</b>	<b>QSL-G1/4-8</b>	10	
		<b>132052</b>	<b>QSL-G1/4-8-50</b>	50	
	10 mm	<b>186122</b>	<b>QSL-G1/4-10</b>	10	
		<b>132053</b>	<b>QSL-G1/4-10-50</b>	50	
<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>	10
		8 mm	<b>186131</b>	<b>QSL-G1/4-8</b>	10
		10 mm	<b>186133</b>	<b>QSL-G1/4-10</b>	10
<b>Silencer</b>					
	With connecting thread G, polymer version	G1/4	<b>2316</b>	<b>U-1/4</b>	1
			<b>534223</b>	<b>U-1/4-20</b>	20
	With connecting thread G, metal version	G1/4	<b>6842</b>	<b>U-1/4-B</b>	1
	With connecting thread G, sintered version, long	G1/4	<b>1205861</b>	<b>AMTE-M-LH-G14</b>	20

1) Packaging unit

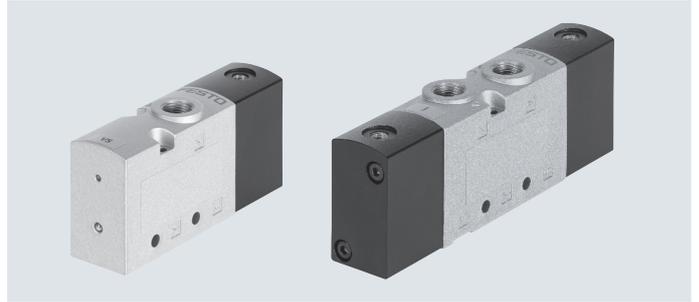
## Accessories

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	2293485	VAME-B10-25-A
<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	576413	VAME-B10-20-W
<b>Assortment of spare parts</b>				
	Set comprising: <ul style="list-style-type: none"> <li>• Seals and</li> <li>• Screws</li> </ul>	12	8035636	VAME-B10-25-MK
<b>Inscription label</b>				
	Frame with 40 labels	-	565306	ASLR-C-E4

## Datasheet

-  - 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 control	Direct						
Manual override (MO)	None						
Flow direction	Reversible with restrictions (not reversible: identified by A in type code)						
Overlap	Positive overlap						
Sealing principle	Soft						
Type of mounting	Optionally via through-holes <sup>1)</sup> or on manifold rail						
Standard nominal flow rate q <sub>nN</sub> [l/min]	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
Actuation type	Pneumatic						
Mounting position	Any						
Exhaust air function	Can be throttled						
Venting hole	Not ducted						
Pneumatic port	1, 2, 3	G3/8	G3/8	G3/8	G3/8	G3/8	G3/8
	4, 5	–	–	G3/8	G3/8	G3/8	G3/8
Pneumatic spring connection 12/14, 10	G1/8						

1) If several valves are to be screwed together via 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 position	Monostable						Monostable									
Reset method	Pneumatic spring				Mechanical spring				Pneumatic spring				Mechanical spring			
Switching times in [ms]	On	19	21	16	19	21	16	19	21	16	19	21	16			
	Off	36	40	73	37	40	73	37	40	73	37	40	73			

## Datasheet

Technical data – 5/2-way valves			
Order code for valves		M52	B52
Stable position		Monostable	Bistable
Reset method		Pneumatic spring	Mechanical spring
Switching times in [ms]	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 in [ms]	On	19	19	19
	Off	98	98	98
	Change-over	41	41	41

Safety characteristics	
Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Vibration resistant	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

Operating and environmental conditions							
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 the operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)					
Cleanroom class		ISO class 6					
Operating pressure	[MPa]	–0.09 ... +1	–0.09 ... +1	0.25 ... 1	–0.09 ... +1	–0.09 ... +1	–0.09 ... +1
	[bar]	–0.9 ... +10	–0.9 ... +10	2.5 ... 10	–0.9 ... +10	–0.9 ... +10	–0.9 ... +10
Pilot pressure	[MPa]	0.25 ... 1	0.25 ... 1	0.25 ... 1	0.25 ... 1	0.15 ... 1	0.25 ... 1
	[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					
Certification		c UL us - Recognized (OL)					
Corrosion resistance class CRC <sup>1)</sup>		2					

1) More information [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

Information on materials	
Housing	Die-cast aluminium (painted)
Seals	HNBR, NBR
Piston spool	Wrought aluminium alloy
Screws	Nickel-plated steel
Note on materials	RoHS-compliant

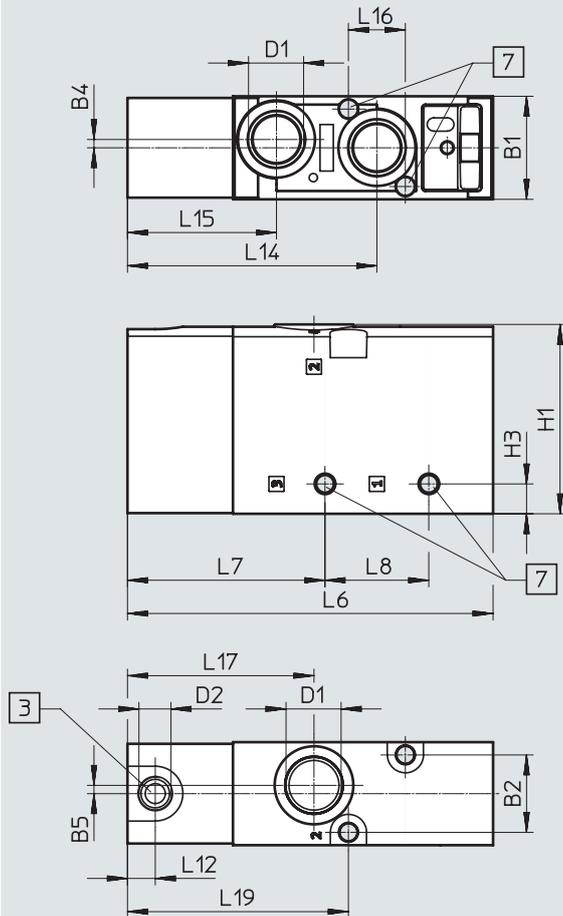
Datasheet

Dimensions

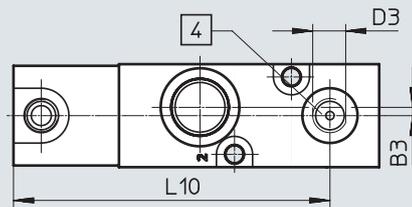
Download CAD data → [www.festo.com](http://www.festo.com)

3/2-way valve, normally closed/open

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



VUWS-L30-M32...-E-G38



- [3] Port 10: pilot air (...-M32U-...)  
Port 12: pilot air (...-M32C-...)
- [4] Port 10: for external pneumatic spring (...-M32C-E-...);  
port 12: for external pneumatic spring (...-M32U-E-...)
- [7] For retaining screw M5

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						

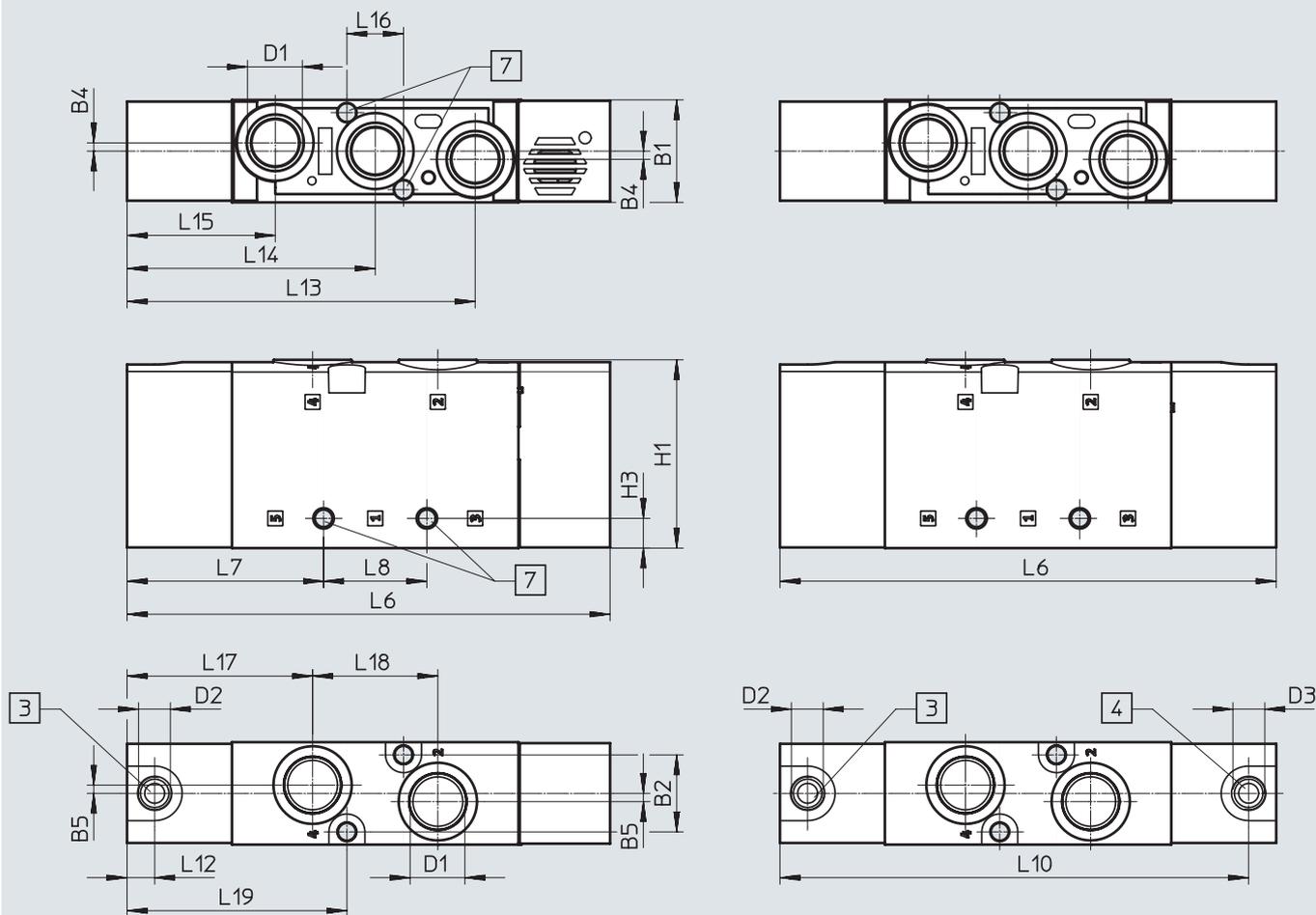
Datasheet

Dimensions

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

5/2-way valve, monostable

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



[3] Port 14: pilot air (-M52-...)

[4] Port 12: pilot air/(pneumatic spring) (...M52-E-...)

[7] For retaining screw M5

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		

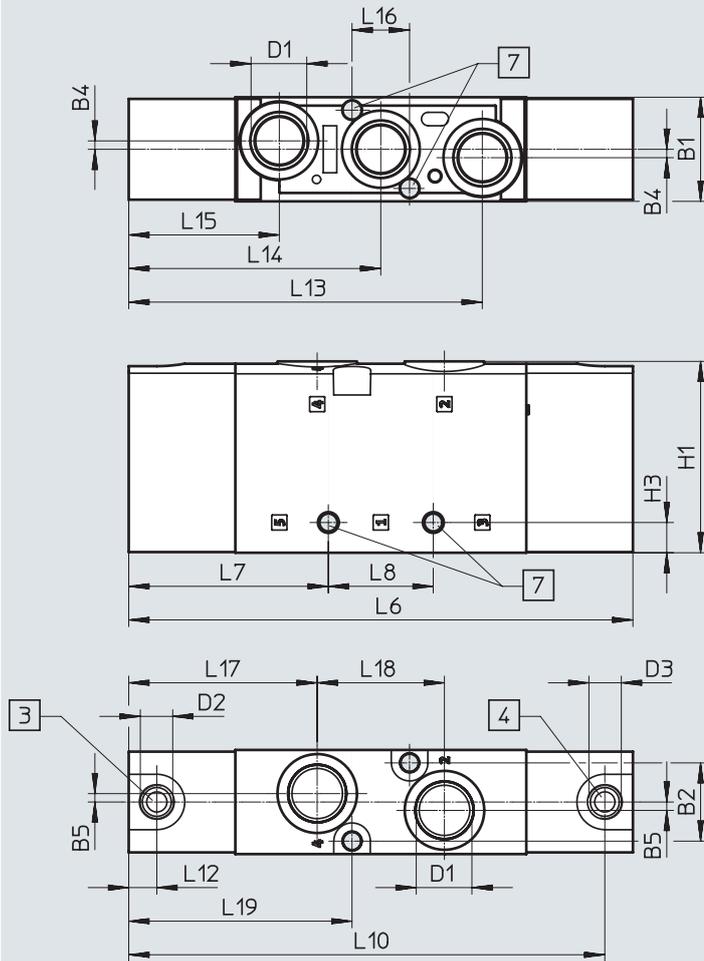
Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-L30-M52-...-G38	145	59	31	-	8.3	104.5	74.5	44.5	17	55.7	37.6	66
VUWS-L30-M52-E-G38	149			140.7								

Datasheet

Dimensions

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



- [3] Port 14: pilot air
- [4] Port 12: pilot air
- [7] For retaining screw M5

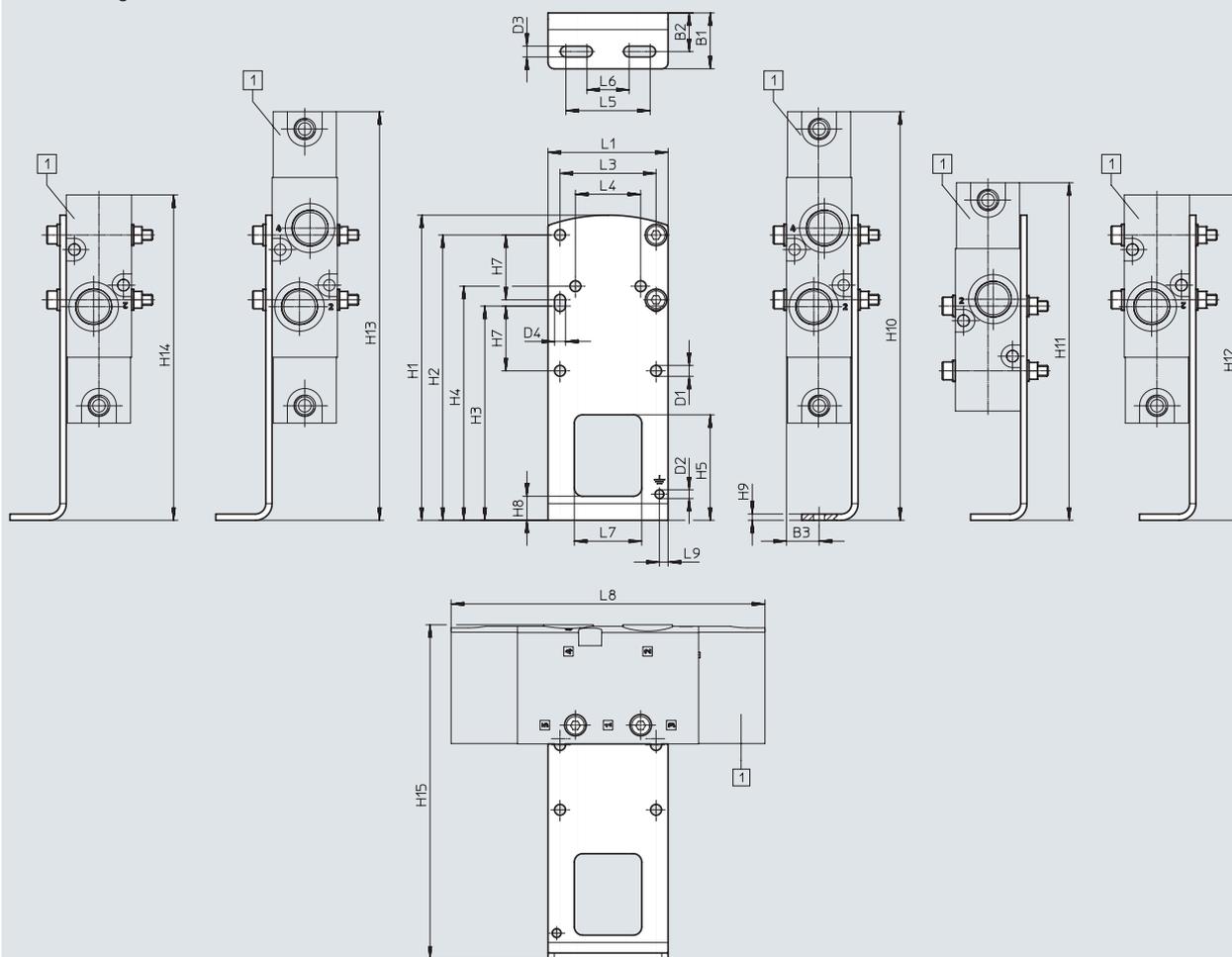
Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L30-P53-...-M-G38	31	23.3	2.5	2.5	G3/8	G1/8	G1/8	57	9
VUWS-L30-B52-G38									

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												

## Datasheet

### Dimensions

Foot mounting



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

Type		B1	B2	B3	D1 ∅	D2 ∅	D3	D4	H1	H2	H3
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
	VUWS-L30-M52-E										
	VUWS-L30-M52										
	VUWS-L30-M32										

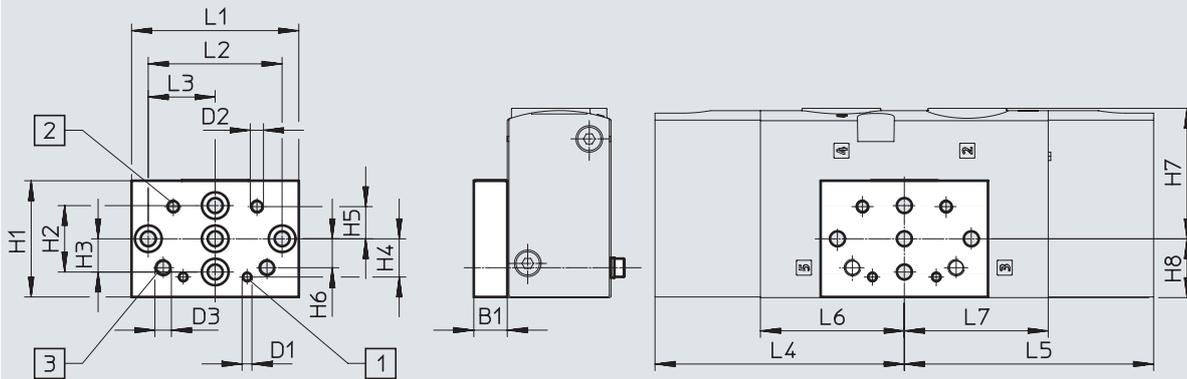
Type		H4	H5	H7	H8	H9	H10	H11	H12	H13	H14			
VAME-B10-30-A	VUWS-L30-B52/P53	112	50.5	31	11.5	3	195.5	161.5	195.5	195.5	195.5			
	VUWS-L30-M52-E													
	VUWS-L30-M52											197.2	191.5	191.5
	VUWS-L30-M32											155.7	155.7	155.7

Type		H15	L1	L3	L4	L5	L6	L7	L8	L9	
VAME-B10-30-A	VUWS-L30-B52/P53	160	57	45.6	31	40	20	32	149	4.1	
	VUWS-L30-M52-E										
	VUWS-L30-M52										145
	VUWS-L30-M32										109.2

# Datasheet

## Dimensions

Wall mounting



[1] Mounting hole for size 20

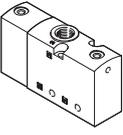
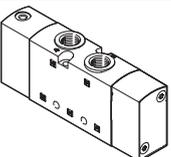
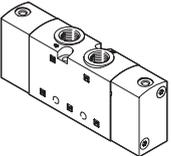
[2] Mounting hole for size 25

[3] Mounting hole for size 30

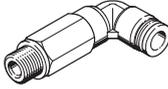
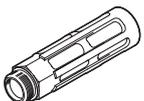
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUWS-L30-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUWS-L30-M52										
	VUWS-L30-M32										

Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUWS-L30-B52/P53	39.3	17.7	50	40	20	74.5	74.5	43	43
	VUWS-L30-M52									-
	VUWS-L30-M32									-

## Ordering data

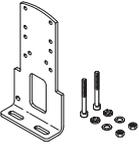
Ordering data – Pneumatic valves				
	Code	Valve function	Part no.	Type
<b>3/2-way valve</b>				
	<b>Normally closed, monostable</b>			
	M32C-A	Pneumatic spring return, internal pneumatic spring, flow direction not reversible	575576	VUWS-L30-M32C-A-G38
	M32C-E	Pneumatic spring return, external pneumatic spring, reversible flow direction	575577	VUWS-L30-M32C-E-G38
	M32C-M	Mechanical spring return, reversible flow direction	575578	VUWS-L30-M32C-M-G38
	<b>Normally open, monostable</b>			
	M32U-A	Pneumatic spring return, internal pneumatic spring, flow direction not reversible	575591	VUWS-L30-M32U-A-G38
	M32U-E	Pneumatic spring return, external pneumatic spring, reversible flow direction	575592	VUWS-L30-M32U-E-G38
	M32U-M	Mechanical spring return, reversible flow direction	575593	VUWS-L30-M32U-M-G38
	<b>5/2-way valve</b>			
	<b>Monostable</b>			
	M52-A	Pneumatic spring return, internal pneumatic spring, flow direction not reversible	575600	VUWS-L30-M52-A-G38
	M52-E	Pneumatic spring return, external pneumatic spring, reversible flow direction	575601	VUWS-L30-M52-E-G38
	M52-M	Mechanical spring return, reversible flow direction	575608	VUWS-L30-M52-M-G38
	<b>Bistable</b>			
	B52	Reversible flow direction	575615	VUWS-L30-B52-G38
<b>5/3-way valve</b>				
	<b>Mid-position closed</b>			
	P53C	Mechanical spring return, reversible flow direction	575622	VUWS-L30-P53C-M-G38
	<b>Mid-position exhausted</b>			
	P53E	Mechanical spring return, reversible flow direction	575636	VUWS-L30-P53E-M-G38
	<b>Mid-position pressurised</b>			
P53U	Mechanical spring return, reversible flow direction	575629	VUWS-L30-P53U-M-G38	

## Accessories

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	186106	QS-G1/8-4-I	10
			133008	QS-G1/8-4-I-100	100
		6 mm	186107	QS-G1/8-6-I	10
			133009	QS-G1/8-6-I-100	100
	Connecting thread G3/8 for tubing O.D.	8 mm	186111	QS-G3/8-8-I	10
		10 mm	186113	QS-G3/8-10-I	10
12 mm		186114	QS-G3/8-12-I	10	
<b>Angled push-in fitting, with external hex</b>					
	Connecting thread G3/8 for tubing O.D.	8 mm	186121	QSL-G3/8-8	10
			132055	QSL-G3/8-8-50	50
		10 mm	186123	QSL-G3/8-10	10
			132056	QSL-G3/8-10-20	20
		12 mm	186124	QSL-G3/8-12	10
			132057	QSL-G3/8-12-20	20
<b>Angled push-in fitting, long, with external hex</b>					
	Connecting thread G3/8 for tubing O.D.	8 mm	186132	QSL-G3/8-8	10
		10 mm	186134	QSL-G3/8-10	10
		12 mm	186135	QSL-G3/8-12	10
<b>Silencer</b>					
	With connecting thread G, metal version	G3/8	6843	U-3/8-B	1
	With connecting thread G, sintered version, long	G3/8	1205862	AMTE-M-LH-G38	10

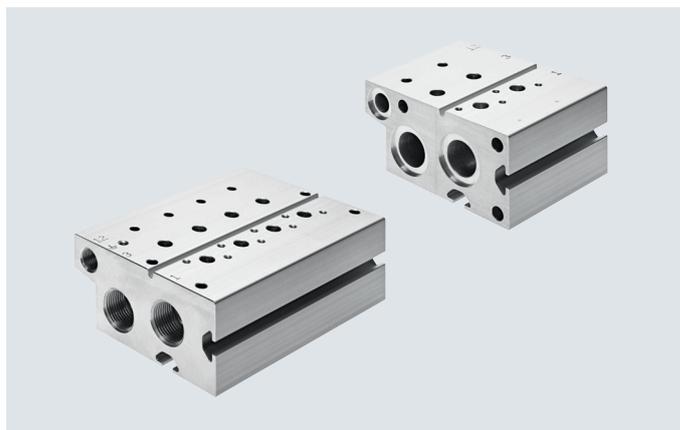
1) Packaging unit

## Accessories

Ordering data	Description	Weight [g]	Part no.	Type
<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>	–	<b>8026337</b>	<b>VAME-B10-30-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>	–	<b>8035637</b>	<b>VAME-B10-30-MK</b>
<b>Inscription label</b>				
	Frame with 40 labels	–	<b>565306</b>	<b>ASLR-C-E4</b>

Data sheet – Manifold block, size 20

-  Flow rate  
up to 700 l/min
-  Valve width  
21 mm



General technical data	manifold block Standard		Extension module for Standard manifold block		manifold block Compact		Common supply manifold	
	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2	5/2, 5/3	At both ends	At one end
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) More information [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

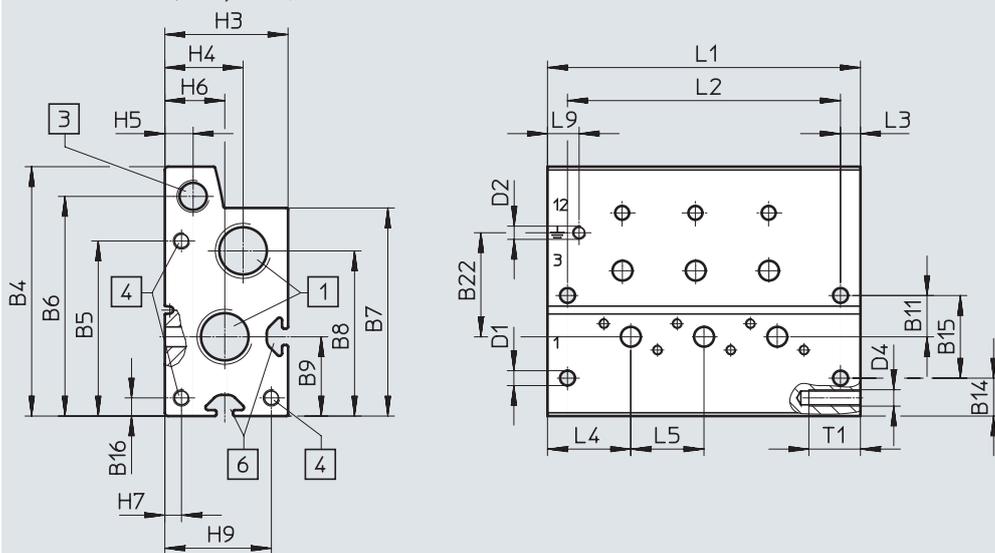
Weight [g]	2	3	4	5	6	7	8	9	10
<b>Manifold block for 3/2-way valves, standard</b>									
VABM-B10-20E-G38-...-P3	449	574	699	825	950	1075	1200	1326	1451
<b>Manifold block, extension module for 3/2-way valves, standard</b>									
VABM-B10-20EEE-G38-2-P3	324	–	–	–	–	–	–	–	–
<b>Manifold block for 5/2-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

Information on materials	
Information on materials	Wrought aluminium alloy
Note on materials	RoHs-compliant

Data sheet – Manifold block, size 20

**Dimensions**

Manifold block for 3/2-way valves, standard



[1] Ports 1 and 3 (at both ends):  
G3/8

[3] Port 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

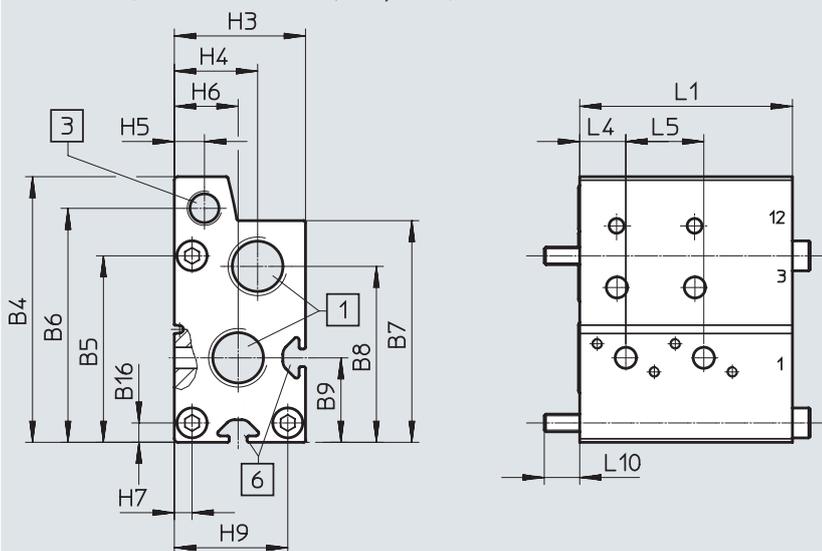
Type	D1 $\varnothing$	D2	D4	H3	H4	H5	H6	H7	H9	L3	L4	L5	L9	T1
VABM-B10-20E-G38-...-P3	4.5	M4x6.5	M5	37	23.5	8.5	18	5	32	6	25	22	9.5	15.5

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

## Data sheet – Manifold block, size 20

### Dimensions

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



[1] Ports 1 and 3; threaded connection G3/8 at one end

[3] Threaded connection at port 12: G1/8 at one end

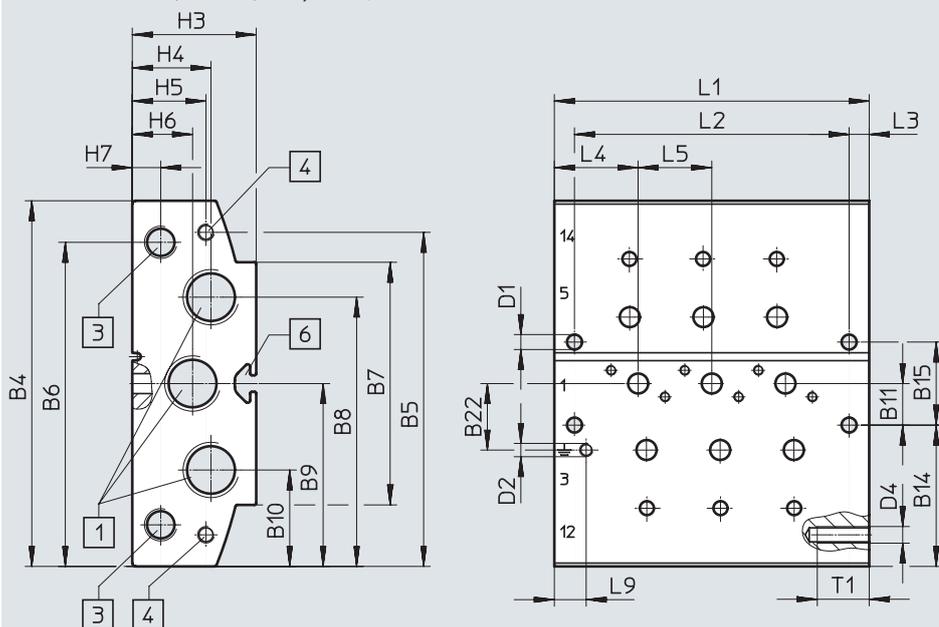
[6] Profile slot IPM-05, system 5

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															

## Data sheet – Manifold block, size 20

### Dimensions

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



[1] Ports 1, 3 and 5 (at both ends):  
G3/8

[3] Ports 12 and 14 (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	B10	B11	B14	B15	B22
VABM-B10-20E-G38-...	110	100.5	97.5	73	81	55	29	12.5	42.5	25	20

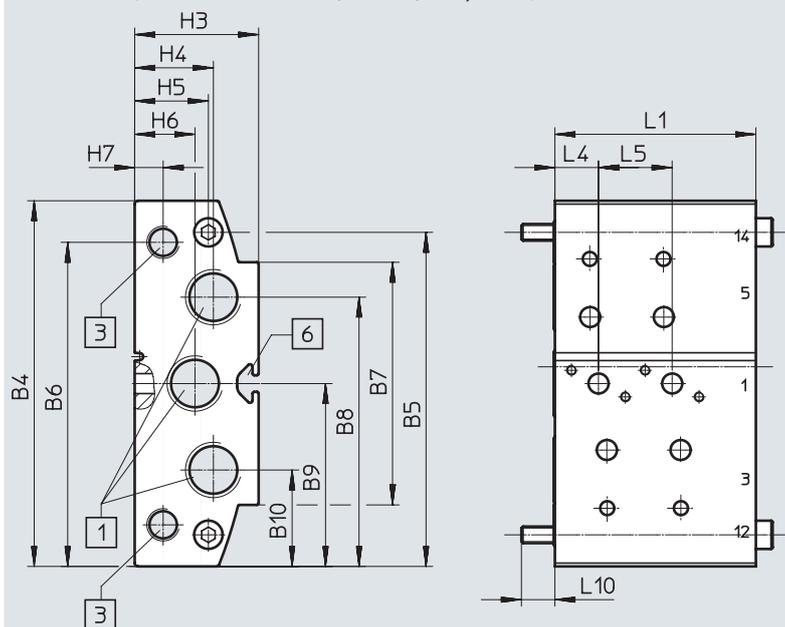
Type	D1 ø	D2	D4	H3	H4	H5	H6	H7	L3	L4	L5	L9	T1
VABM-B10-20E-G38-...	4.5	M4x6.5	M5	37	23.5	22	18	8.5	6	25	22	9.5	15.5

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

## Data sheet – 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 connection G3/8 at one end

[3] Threaded connection at ports 12 and 14: G1/8 at one end

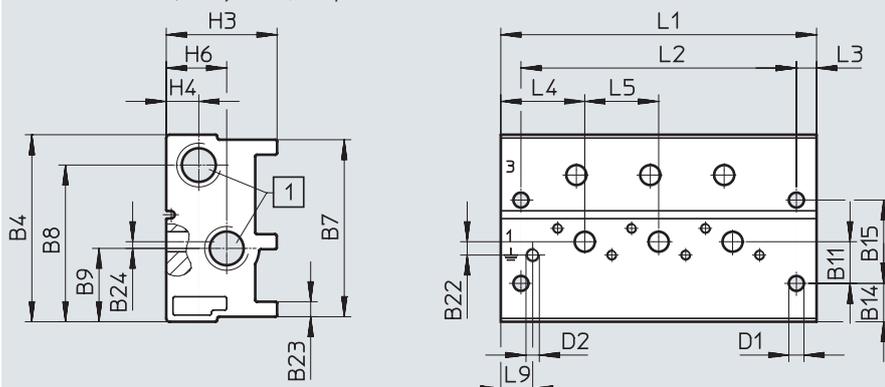
[6] Profile slot IPM-05, system 5

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														

## Data sheet – Manifold block, size 20

### Dimensions

Manifold block for 3/2-way valves, compact



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

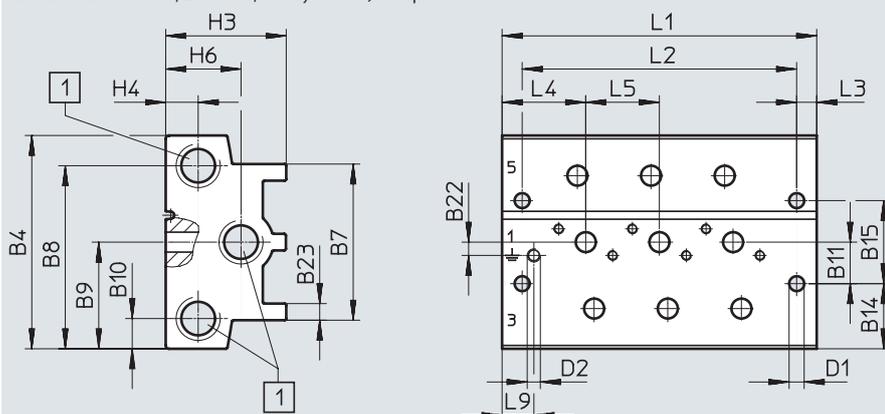
Type	B4	B7	B8	B9	B11	B14	B15	B22	B23	B24
VABM-B10-20S-G14-...-P3	56.1	53.1	471	22	12.5	11.5	25	4	5	2

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

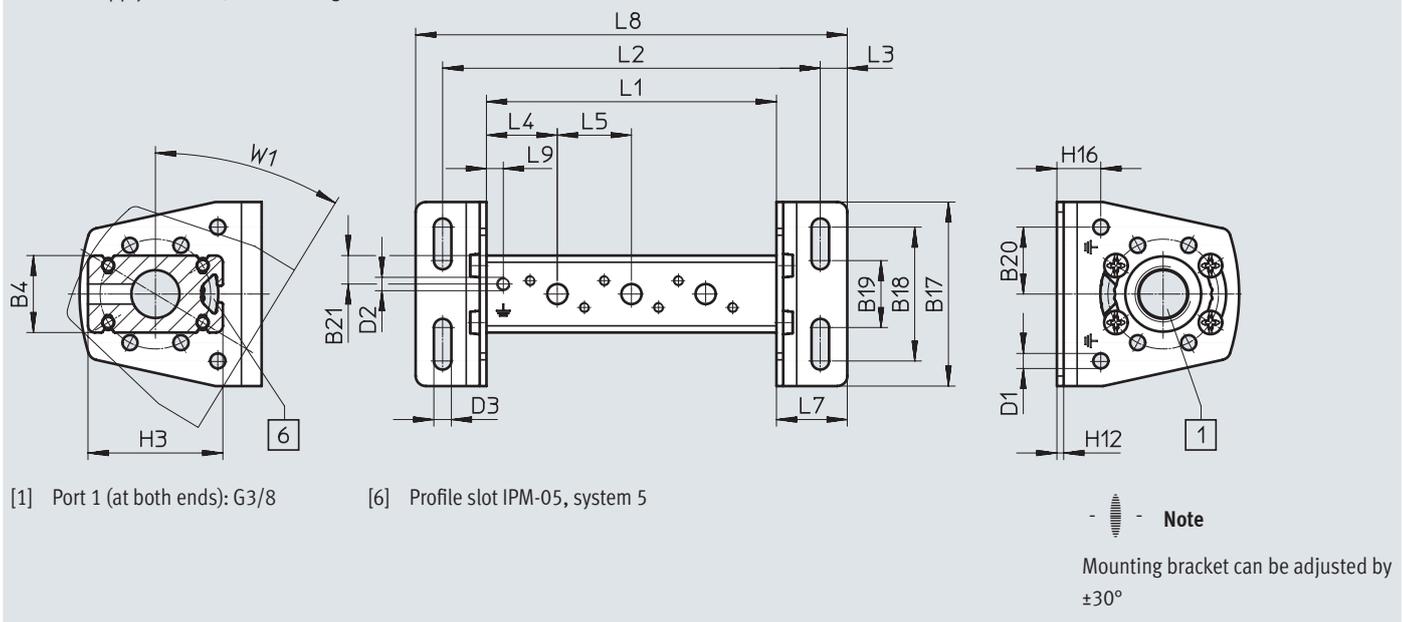
Type	D1 ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-20S-G14-...	4.5	M4x6.5	36	9.7	22.5	6	25	22	9.5

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

### Data sheet – Manifold block, size 20

#### Dimensions

Common supply manifold, for mounting on both sides

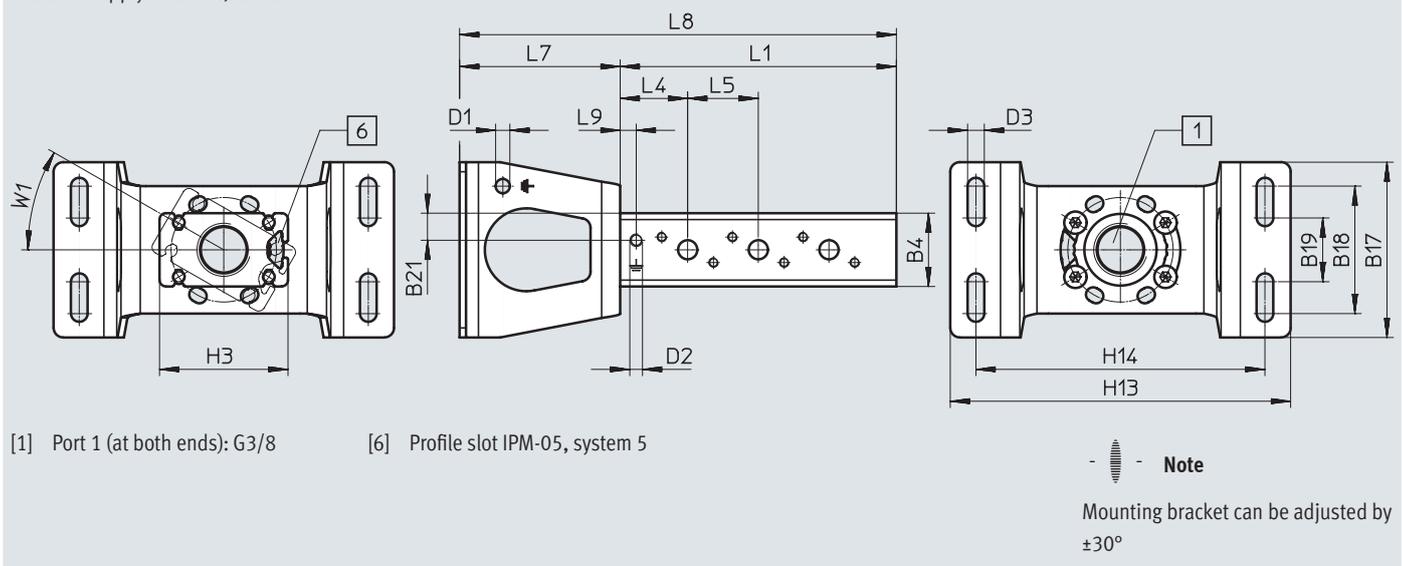


Type	B4	B17	B18	B19	B20	B21	D1 ø	D2	D3 ø	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-20-G38-...-P53	23	55	40	20	20	8.5	4.5	M4x6.5	5.2	40	2	13	9	21	22	22	5	31.3°

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

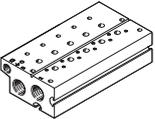
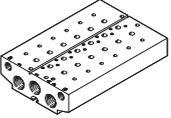
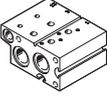
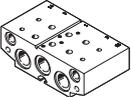
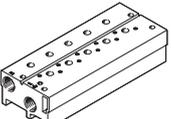
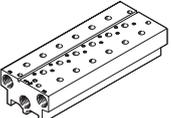
Common supply manifold, mounted on one side



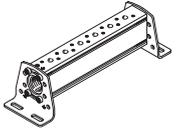
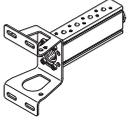
Type	B4	B17	B18	B19	B21	D1 ø	D2	D3 ø	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-20-G38-...-P53-E	23	55	40	20	8.5	4.5	M4x6.5	5.2	40	106	90	21	22	50	5	30°

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

## Ordering data – Manifold block, size 20

Ordering data	Description	Valve positions	Part no.	Type
<b>Standard manifold block</b>				
	For 3/2-way valves, incl. seals and screws for mounting valves  -  - <b>Note</b> Blanking plugs for sealing the supply ports (1, 3 and 14) on one side are included in the scope of delivery.	2	576441	VABM-B10-20E-G38-2-P3
		3	576442	VABM-B10-20E-G38-3-P3
		4	576443	VABM-B10-20E-G38-4-P3
		5	576444	VABM-B10-20E-G38-5-P3
		6	576445	VABM-B10-20E-G38-6-P3
		7	576446	VABM-B10-20E-G38-7-P3
		8	576447	VABM-B10-20E-G38-8-P3
		9	576448	VABM-B10-20E-G38-9-P3
		10	576449	VABM-B10-20E-G38-10-P3
			For 5/2-way and 5/3-way valves, incl. seals and screws for valve assembly  -  - <b>Note</b> Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) on one side are included in the scope of delivery.	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>				
	For 3/2-way valves, incl. seals and screws for mounting valves	2	576490	VABM-B10-20EEE-G38-2-P3
	For 5/2-way and 5/3-way valves, incl. seals and screws for valve assembly	2	576489	VABM-B10-20EEE-G38-2
<b>Compact manifold block</b>				
	For 3/2-way valves, incl. seals and screws for mounting valves  -  - <b>Note</b> Blanking plugs for sealing the supply ports (1 and 3) at one end are included in the scope of delivery.	2	576465	VABM-B10-20S-G14-2-P3
		3	576466	VABM-B10-20S-G14-3-P3
		4	576467	VABM-B10-20S-G14-4-P3
		5	576468	VABM-B10-20S-G14-5-P3
		6	576469	VABM-B10-20S-G14-6-P3
		7	576470	VABM-B10-20S-G14-7-P3
		8	576471	VABM-B10-20S-G14-8-P3
		9	576472	VABM-B10-20S-G14-9-P3
		10	576473	VABM-B10-20S-G14-10-P3
			For 5/2-way and 5/3-way valves, incl. seals and screws for valve assembly  -  - <b>Note</b> Blanking plugs for sealing the supply ports (1, 3 and 5) at one end are included in the scope of delivery.	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

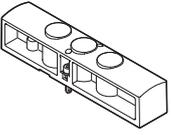
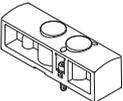
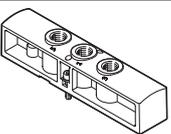
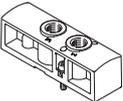
## Ordering data – Manifold block, size 20

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

 **Note**

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

Accessories – Manifold block, size 20

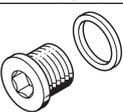
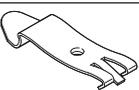
Ordering data	Description	Weight [g]	Part no.	Type
<b>Cover plate</b>				
	For valve position on manifold block for 5/2-way, 5/3-way valves	78	<b>576410</b>	<b>VABB-B10-20-E</b>
	For valve position on manifold block for 3/2-way valves	56	<b>576411</b>	<b>VABB-B10-20-E-P3</b>
	For valve position on common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

## 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>	10
	Connecting thread G3/8 for tubing O.D.	16 mm	<b>186347</b>	<b>QS-G3/8-16</b>	1
<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>	10
	Connecting thread G1/8 for tubing O.D.	4 mm	<b>186106</b>	<b>QS-G1/8-4-I</b>	10
			<b>133008</b>	<b>QS-G1/8-4-I-100</b>	100
		6 mm	<b>186107</b>	<b>QS-G1/8-6-I</b>	10
			<b>133009</b>	<b>QS-G1/8-6-I-100</b>	100
		8 mm	<b>186109</b>	<b>QS-G1/8-8-I</b>	10
			<b>133010</b>	<b>QS-G1/8-8-I-100</b>	100
	Connecting thread G1/4 for tubing O.D.	8 mm	<b>186110</b>	<b>QS-G1/4-8-I</b>	10
		10 mm	<b>186112</b>	<b>QS-G1/4-10-I</b>	10
	Connecting thread G3/8 for tubing O.D.	8 mm	<b>186111</b>	<b>QS-G3/8-8-I</b>	10
		10 mm	<b>186113</b>	<b>QS-G3/8-10-I</b>	10
		12 mm	<b>186114</b>	<b>QS-G3/8-12-I</b>	10
<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>	10
			<b>132048</b>	<b>QSL-G1/8-4-100</b>	100
		6 mm	<b>186117</b>	<b>QSL-G1/8-6</b>	10
			<b>132049</b>	<b>QSL-G1/8-6-100</b>	100
		8 mm	<b>186119</b>	<b>QSL-G1/8-8</b>	10
			<b>132050</b>	<b>QSL-G1/8-8-50</b>	50
	Connecting thread G1/4 for tubing O.D.	8 mm	<b>186120</b>	<b>QSL-G1/4-8</b>	10
			<b>132052</b>	<b>QSL-G1/4-8-50</b>	50
		10 mm	<b>186122</b>	<b>QSL-G1/4-10</b>	10
			<b>132053</b>	<b>QSL-G1/4-10-50</b>	50
		12 mm	<b>186351</b>	<b>QSL-G1/4-12</b>	10
			<b>132054</b>	<b>QSL-G1/4-12-20</b>	20
	Connecting thread G3/8 for tubing O.D.	8 mm	<b>186121</b>	<b>QSL-G3/8-8</b>	10
			<b>132055</b>	<b>QSL-G3/8-8-50</b>	50
		10 mm	<b>186123</b>	<b>QSL-G3/8-10</b>	10
			<b>132056</b>	<b>QSL-G3/8-10-20</b>	20
12 mm		<b>186124</b>	<b>QSL-G3/8-12</b>	10	
		<b>132057</b>	<b>QSL-G3/8-12-20</b>	20	
16 mm		<b>186348</b>	<b>QSL-G3/8-16</b>	1	
<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>	10
			<b>132048</b>	<b>QSL-G1/8-4-100</b>	100
		6 mm	<b>186117</b>	<b>QSL-G1/8-6</b>	10
			<b>132049</b>	<b>QSL-G1/8-6-100</b>	100
		8 mm	<b>186119</b>	<b>QSL-G1/8-8</b>	10
	<b>132050</b>	<b>QSL-G1/8-8-50</b>	50		

1) Packaging unit

Accessories – Manifold block, size 20

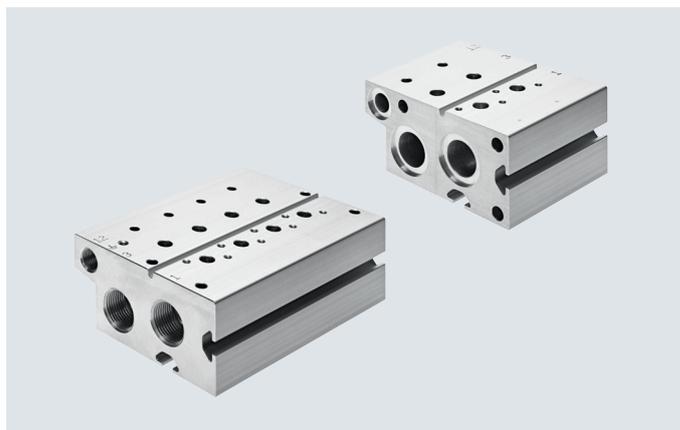
Ordering data	Description	Part no.	Type	PU <sup>1)</sup>	
<b>Silencer</b>					
	With connecting thread G, polymer version	G1/8	2307	U-1/8	1
			534222	U-1/8-50	50
		G1/4	2316	U-1/4	1
			534223	U-1/4-20	20
	With connecting thread G, metal version	G3/8	534224	U-3/8-20	20
		G1/8	6841	U-1/8-B	1
		G1/4	6842	U-1/4-B	1
	With connecting thread G, sintered version, long	G3/8	6843	U-3/8-B	1
		G1/4	1205861	AMTE-M-LH-G14	20
		G3/8	1205862	AMTE-M-LH-G38	10
<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>DIN rail mounting</b>					
	For size 20, for mounting on standard TH 357.5 or TH 3515 DIN rails to EN 60715	569998	VAME-T-M4	2	

1) Packaging unit

## Datasheet – 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		Common supply manifold	
							At both ends	At one end
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) More information [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

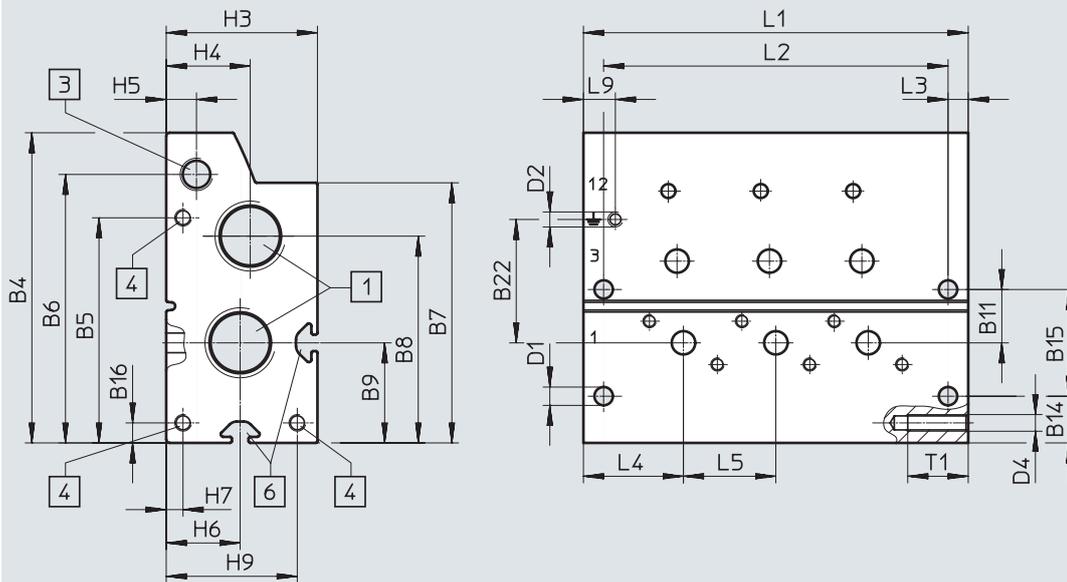
Weight [g]	2	3	4	5	6	7	8	9	10
<b>Manifold block for 3/2-way valves, standard</b>									
VABM-B10-25E-...G12-...-P3	726	960	1194	1428	1662	1896	2130	2364	2598
<b>Manifold block, extension module for 3/2-way valves, standard</b>									
VABM-B10-25EEE-G12-2-P3	340	–	–	–	–	–	–	–	–
<b>Manifold block for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

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

Datasheet – Manifold block, size 25

**Dimensions**

Manifold block for 3/2-way valves, standard



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

[3] Port 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

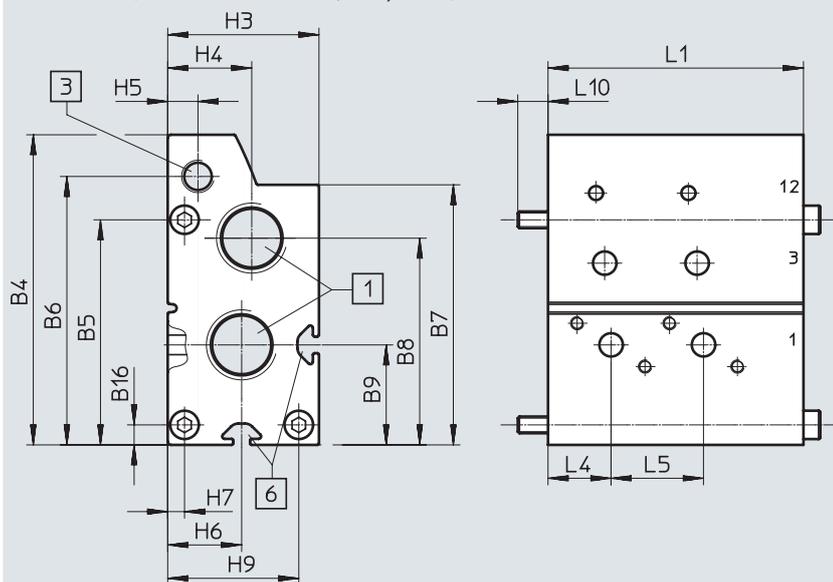
Type	D1 $\varnothing$	D2	D4	H3	H4	H5	H6	H7	H9	L3	L4	L5	L9	T1
VABM-B10-25-E...G12-...-P3	5.5	M4x9	M5	45	25	9	22	5	39	6	29.8	27.5	9.5	18

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

## Datasheet – Manifold block, size 25

### Dimensions

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



[1] Ports 1 and 3; threaded connection G1/2 at one end

[3] Threaded connection at port 12: G1/8 at one end

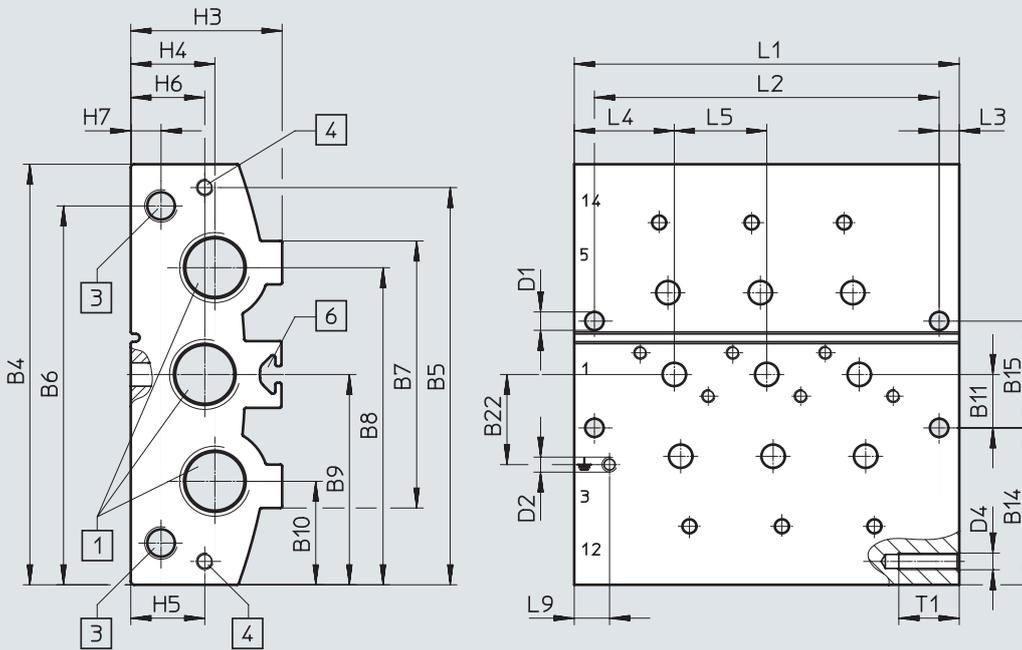
[6] Profile slot IPM-05, system 5

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															

Datasheet – Manifold block, size 25

**Dimensions**

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



- [1] Ports 1, 3 and 5 (at both ends): G1/2
- [3] Ports 12 and 14 (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	B10	B11	B14	B15	B22
VABM-B10-25E-...-G12-...	126	119	113.5	80	95	63	31	16	47	32	27

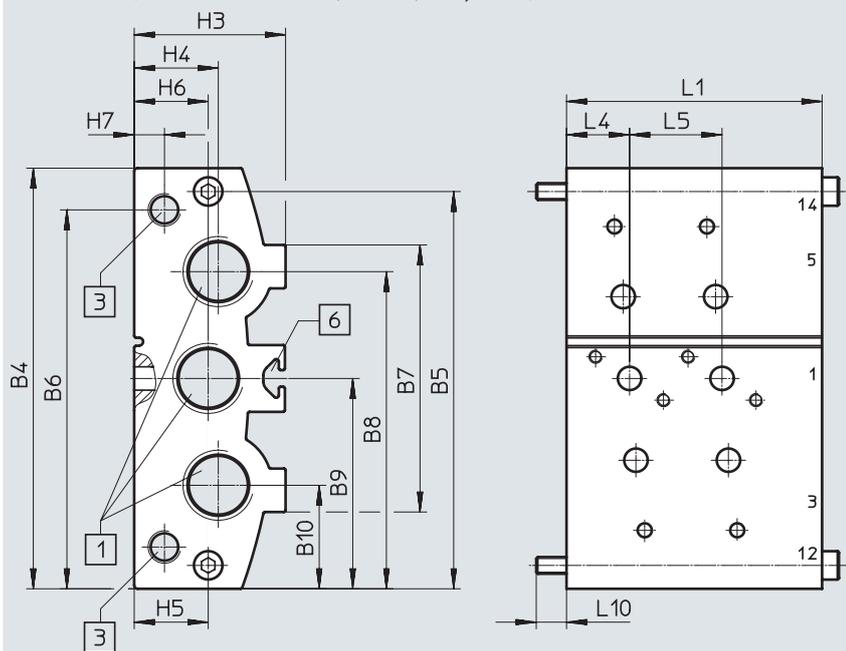
Type	D1 ø	D2	D4	H3	H4	H5	H6	H7	L3	L4	L5	L9	T1
VABM-B10-25E-...-G12-...	5.5	M4x9	M5	45	25	22	22	9	6	29.8	27.5	10.5	18

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

## Datasheet – 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 connection G1/2 at one end

[3] Threaded connection at ports 12 and 14: G1/8 at one end

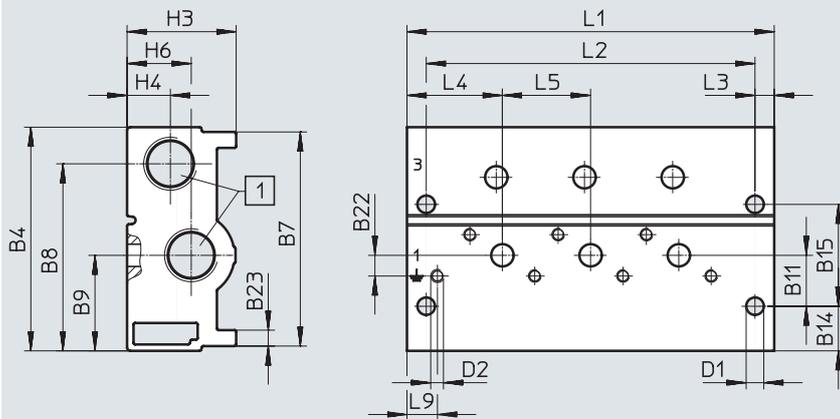
[6] Profile slot IPM-05, system 5

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														

Datasheet – 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

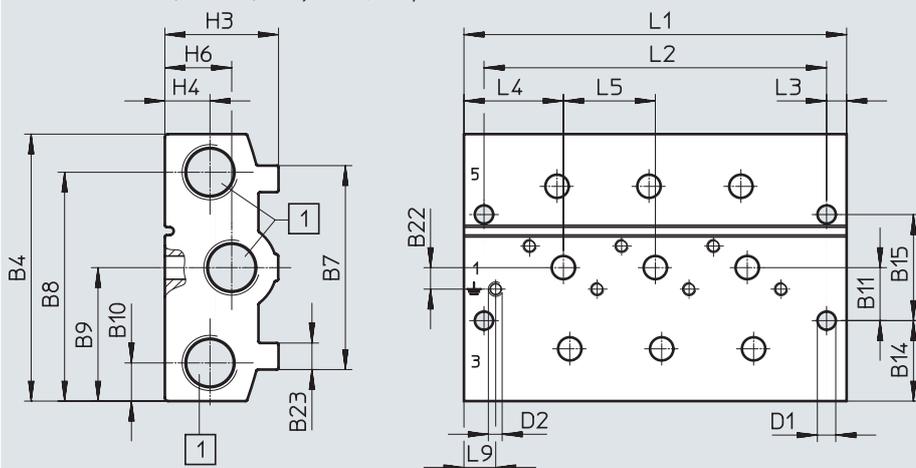
  

Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

## Datasheet – 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

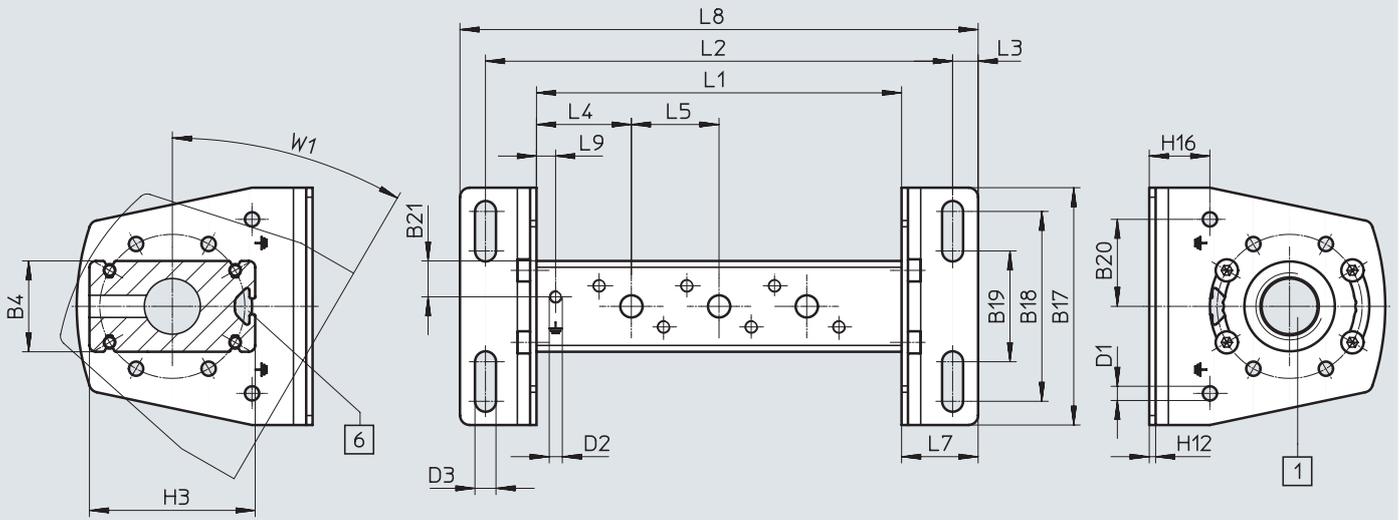
Type	D1 ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-25S-...G38-...	5.5	M4x9	34	13.5	20	6	29.8	27.5	9.5

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

Datasheet – Manifold block, size 25

**Dimensions**

Common supply manifold, for mounting on both sides



[1] Port 1 (at both ends): G1/2

[6] Profile slot IPM-05, system 5

**Note**

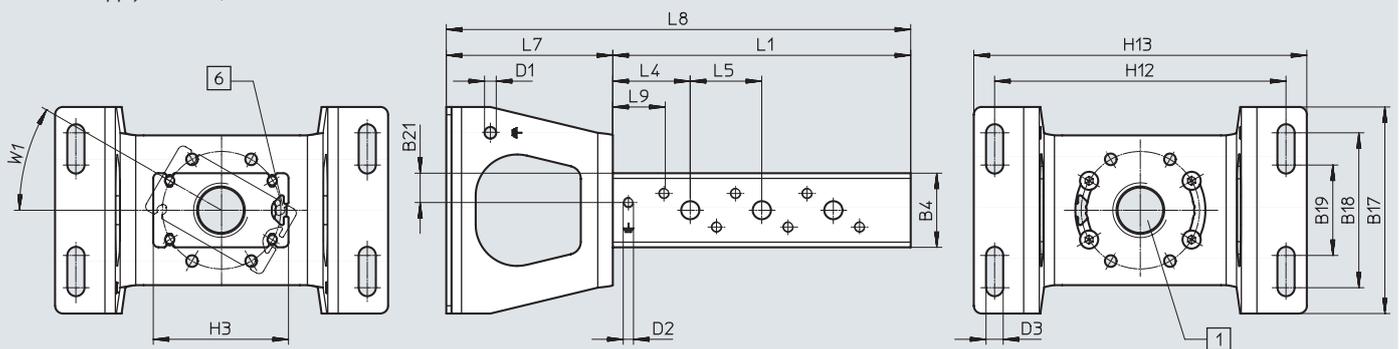
Mounting bracket can be adjusted by  $\pm 30^\circ$

Type	B4	B17	B18	B19	B20	B21	D1 $\varnothing$	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**

Common supply manifold, mounted on one side



[1] Port 1 (at both ends): G1/2

[6] Profile slot IPM-05, system 5

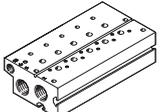
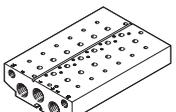
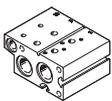
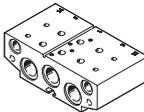
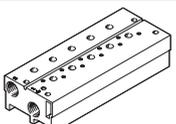
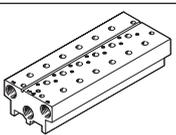
**Note**

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

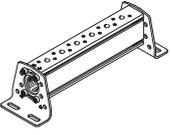
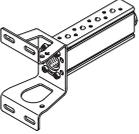
Type	B4	B17	B18	B19	B21	D1 $\varnothing$	D2	D3 $\varnothing$	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-25-G12-...-P53-E	28.7	80	60	35	11.4	4.5	M4x9	6.6	52	128	112	29.8	27.5	64	6	30°

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

## Ordering data – Manifold block, size 25

Ordering data	Description	Valve positions	Part no.	Type
<b>Standard manifold block</b>				
	For 3/2-way valves, incl. seals and screws for mounting valves   - <b>Note</b> Blanking plugs for sealing the supply ports (1, 3 and 14) on one side are included in the scope of delivery.	2	8026279	VABM-B10-25E-G12-2-P3
		3	8026280	VABM-B10-25E-G12-3-P3
		4	8026281	VABM-B10-25E-G12-4-P3
		5	8026282	VABM-B10-25E-G12-5-P3
		6	8026283	VABM-B10-25E-G12-6-P3
		7	8026284	VABM-B10-25E-G12-7-P3
		8	8026285	VABM-B10-25E-G12-8-P3
		9	8026286	VABM-B10-25E-G12-9-P3
		10	8026287	VABM-B10-25E-G12-10-P3
			For 5/2-way and 5/3-way valves, incl. seals and screws for valve assembly   - <b>Note</b> Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) at one end are included in the scope of delivery.	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>				
	For 3/2-way valves, incl. seals and screws for mounting valves	2	8026316	VABM-B10-25EEE-G12-2-P3
	For 5/2-way and 5/3-way valves, incl. seals and screws for valve assembly	2	8026315	VABM-B10-25EEE-G12-2
<b>Compact manifold block</b>				
	For 3/2-way valves, incl. seals and screws for mounting valves   - <b>Note</b> Blanking plugs for sealing the supply ports (1 and 3) on one side are included in the scope of delivery.	2	8026297	VABM-B10-25S-G38-2-P3
		3	8026298	VABM-B10-25S-G38-3-P3
		4	8026299	VABM-B10-25S-G38-4-P3
		5	8026300	VABM-B10-25S-G38-5-P3
		6	8026301	VABM-B10-25S-G38-6-P3
		7	8026302	VABM-B10-25S-G38-7-P3
		8	8026303	VABM-B10-25S-G38-8-P3
		9	8026304	VABM-B10-25S-G38-9-P3
		10	8026305	VABM-B10-25S-G38-10-P3
			For 5/2-way and 5/3-way valves, incl. seals and screws for valve assembly   - <b>Note</b> Blanking plugs for sealing the supply ports (1, 3 and 5) on one side are included in the scope of delivery.	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

Ordering data – Manifold block, size 25

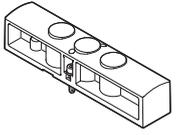
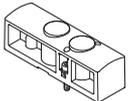
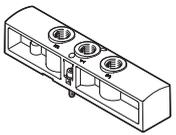
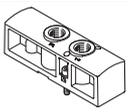
Ordering data	Description	Valve positions	Part no.	Type
<b>Common supply manifold</b>				
	For mounting on both sides, including seals and screws for valve mounting	2	8026219	VABM-B10-25-G12-2-P53
		3	8026220	VABM-B10-25-G12-3-P53
		4	8026221	VABM-B10-25-G12-4-P53
		5	8026222	VABM-B10-25-G12-5-P53
	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



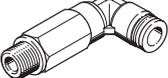
**Note**

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

## Accessories – Manifold block, size 25

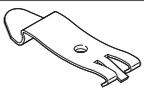
Ordering data	Description	Weight [g]	Part no.	Type
<b>Cover plate</b>				
	For valve position on manifold block for 5/2-way, 5/3-way valves	117	<b>8026209</b>	<b>VABB-B10-25-E</b>
	For valve position on manifold block for 3/2-way valves	84	<b>8026210</b>	<b>VABB-B10-25-E-P3</b>
	For valve position on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

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	186347	QS-G3/8-16	1
	Connecting thread G1/2 for tubing O.D.	16 mm	186105	QS-G1/2-16	1
			132047	QS-G1/2-16-20	20
<b>Push-in fitting with internal hex</b>					
	Connecting thread M5 for tubing O.D.	4 mm	153315	QSM-M5-4-I	10
	Connecting thread G1/8 for tubing O.D.	6 mm	186107	QS-G1/8-6-I	10
			133009	QS-G1/8-6-I-100	100
			186108	QS-G1/4-6-I	10
	Connecting thread G1/4 for tubing O.D.	6 mm	186110	QS-G1/4-8-I	10
			186112	QS-G1/4-10-I	10
			186111	QS-G3/8-8-I	10
	Connecting thread G3/8 for tubing O.D.	8 mm	186113	QS-G3/8-10-I	10
			186114	QS-G3/8-12-I	10
			186115	QS-G1/2-12-I	1
Connecting thread G1/2 for tubing O.D.	12 mm				
<b>Angled push-in fitting, with external hex</b>					
	Connecting thread G1/4 for tubing O.D.	6 mm	186118	QSL-G1/4-6	10
			132051	QSL-G1/4-6-100	100
		8 mm	186120	QSL-G1/4-8	10
			132052	QSL-G1/4-8-50	50
			186122	QSL-G1/4-10	10
		Connecting thread G3/8 for tubing O.D.	8 mm	132053	QSL-G1/4-10-50
	186121			QSL-G3/8-8	10
	10 mm		132055	QSL-G3/8-8-50	50
			186123	QSL-G3/8-10	10
			132056	QSL-G3/8-10-20	20
	Connecting thread G1/2 for tubing O.D.	12 mm	186124	QSL-G3/8-12	10
			132057	QSL-G3/8-12-20	20
		16 mm	186348	QSL-G3/8-16	1
			186125	QSL-G1/2-12	1
	16 mm	132058	QSL-G1/2-12-20	20	
186126		QSL-G1/2-16	1		
132059		QSL-G1/2-16-20	20		
<b>Angled push-in fitting, long, with external hex</b>					
	Connecting thread G1/4 for tubing O.D.	6 mm	186129	QSL-G1/4-6	10
		8 mm	186131	QSL-G1/4-8	10
		10 mm	186133	QSL-G1/4-10	10

1) Packaging unit

## Accessories – Manifold block, size 25

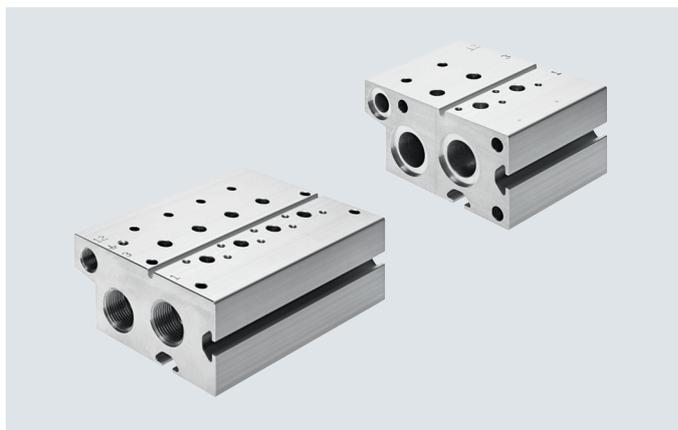
Ordering data		Description	Part no.	Type	PU <sup>1)</sup>
<b>Silencer</b>					
	With connecting thread G, polymer version	G1/4	2316	U-1/4	1
			534223	U-1/4-20	20
		G3/8	534224	U-3/8-20	20
	With connecting thread G, metal version	G1/4	6842	U-1/4-B	1
		G3/8	6843	U-3/8-B	1
		G1/2	6844	U-1/2-B	1
	With connecting thread G, sintered version, long	G3/8	1205862	AMTE-M-LH-G38	10
		G1/2	1205863	AMTE-M-LH-G12	10
<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>DIN rail mounting</b>					
	For size 25, for mounting on standard TH 357.5 or TH 3515 DIN rails to EN 60715		2636436	VAME-T-M5	2

1) Packaging unit

Datasheet – 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		Common supply manifold	
							At both ends	At one end
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) More information [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

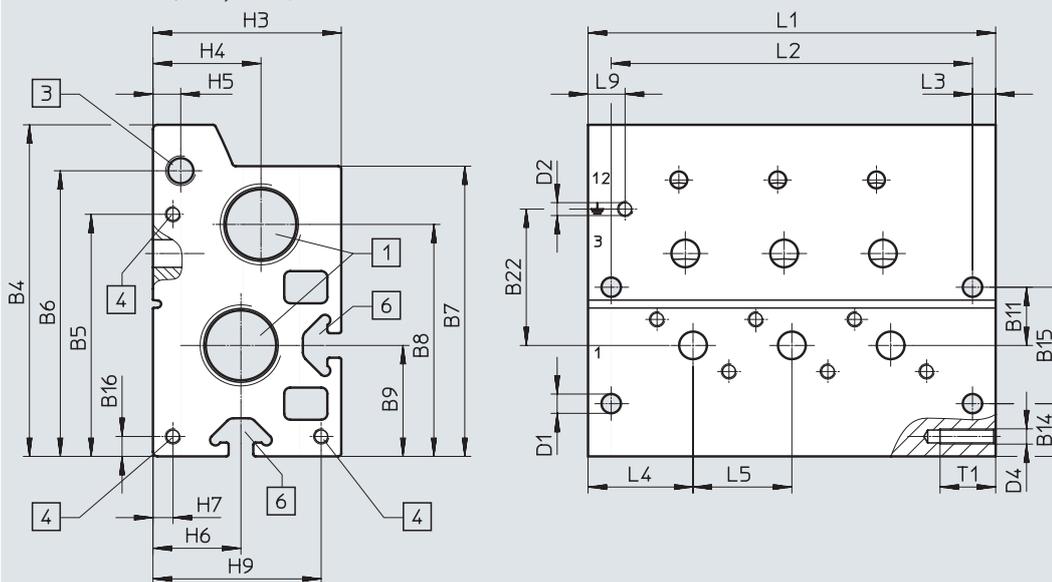
Weight [g]	2	3	4	5	6	7	8	9	10
<b>Manifold block for 3/2-way valves, standard</b>									
VABM-B10-30E-G34-...-P3	1411	1828	2245	2662	3079	3496	3913	4330	4747
<b>Manifold block, extension module for 3/2-way valves, standard</b>									
VABM-B10-30EEE-G34-2-P3	1111	–	–	–	–	–	–	–	–
<b>Manifold block for 5/2- and 5/3-way valves, standard</b>									
VABM-B10-30E-G34-...	1722	2213	2703	3194	3684	4175	4665	5156	5646
<b>Manifold block, extension module for 5/2- and 5/3-way valves, standard</b>									
VABM-B10-30EEE-G34-2	1318	–	–	–	–	–	–	–	–
<b>Manifold block for 3/2-way valves, compact</b>									
VABM-B10-30S-G12-...-P3	652	872	1093	1313	1533	1753	1973	2193	2413
<b>Manifold block for 5/2- and 5/3-way valves, compact</b>									
VABM-B10-30S-G12-...	759	1013	1267	1522	1776	2030	2285	2539	2793
<b>Common supply manifold for mounting on both sides</b>									
VABM-B10-30-G34-...-P53	818	977	1135	1293	1452	1610	1768	1927	2085
<b>Common supply manifold for mounting on one side</b>									
VABM-B10-30-G34-...-P53-E	852	1011	1169	–	–	–	–	–	–

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

Datasheet – Manifold block, size 30

**Dimensions**

Manifold block for 3/2-way valves, standard



- [1] Ports 1 and 3 (at both ends): G3/4
- [3] Port 12 (at both ends): G1/8
- [4] Thread M5x18 for extension module
- [6] Profile slot IPM-08, system 8

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

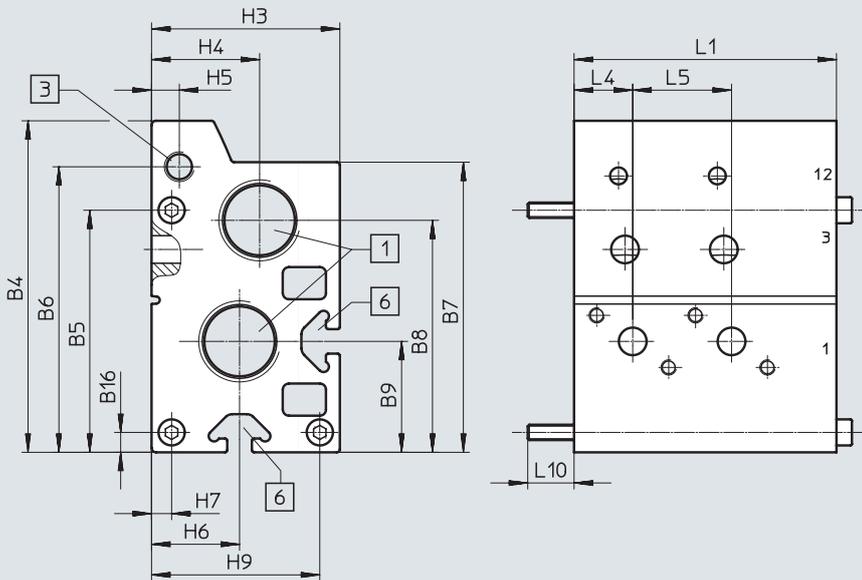
Type	D1 ø	D2	D4	H3	H4	H5	H6	H7	H9	L3	L4	L5	L9	T1
VABM-B10-30-E-G34-...-P3	6.3	M5x11	M5	61	35	9	28.5	6.5	54.5	7.5	34	32	12	18

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

Datasheet – Manifold block, size 30

**Dimensions**

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



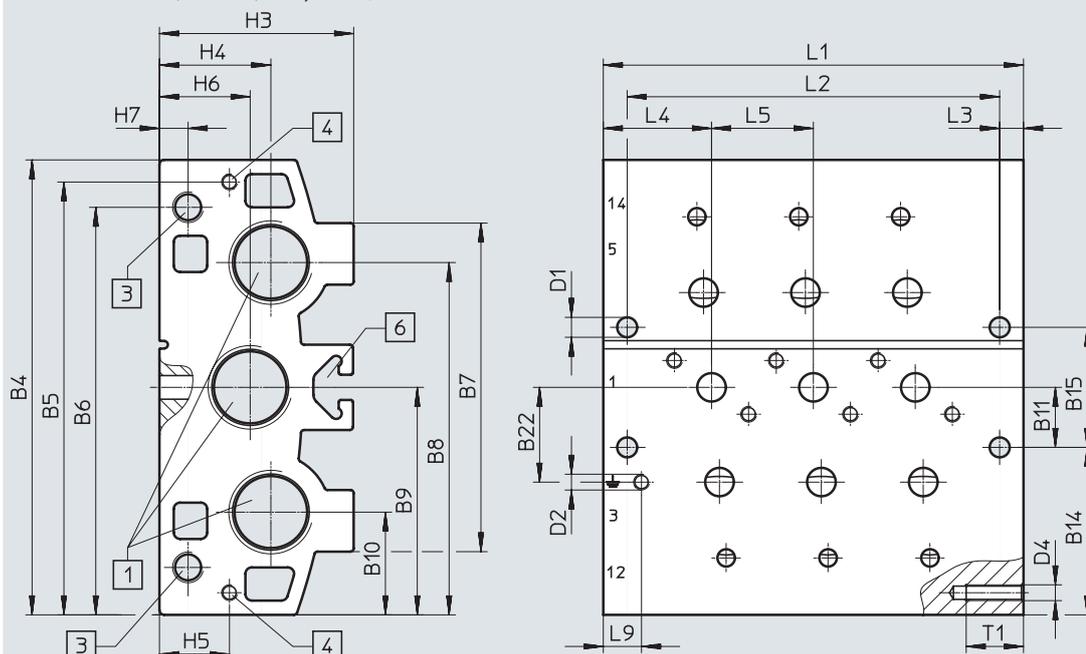
- [1] Ports 1 and 3; threaded connection G3/4 at one end
- [3] Threaded connection at port 12: G1/8 at one end
- [6] Profile slot IPM-08, system 8

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															

Datasheet – Manifold block, size 30

**Dimensions**

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



- [1] Ports 1, 3 and 5 (at both ends): G3/4
- [3] Ports 12 and 14 (at both ends): G1/8
- [4] Thread M5x18 for extension module
- [6] Profile slot IPM-08, system 8

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

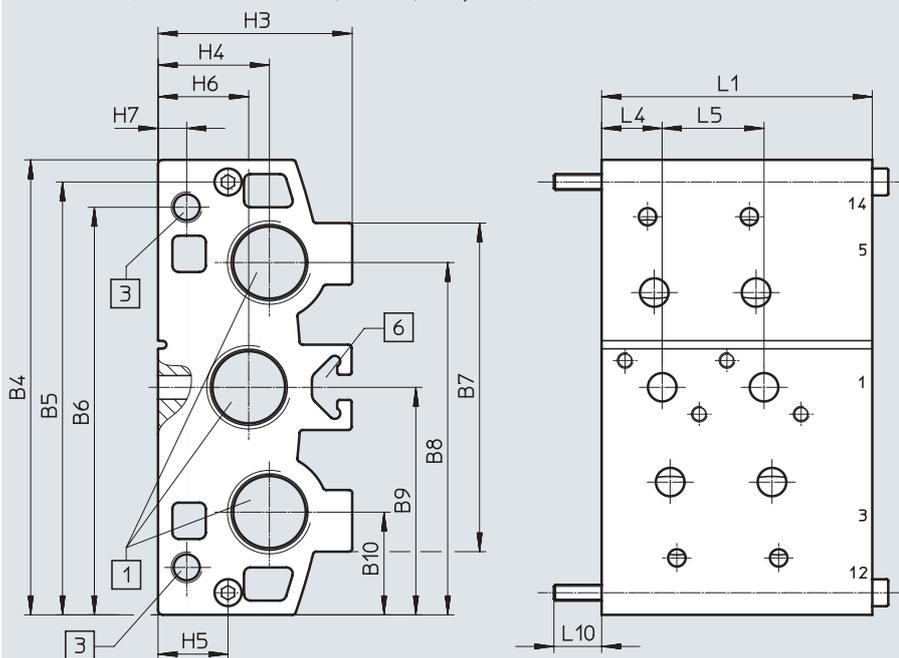
Type	D1 ø	D2	D4	H3	H4	H5	H6	H7	L3	L4	L5	L9	T1
VABM-B10-30E-G34-...	6.3	M5*11	M5	61	35	22	28.5	9	7.5	34	32	12	18

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

Datasheet – Manifold block, size 30

**Dimensions**

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



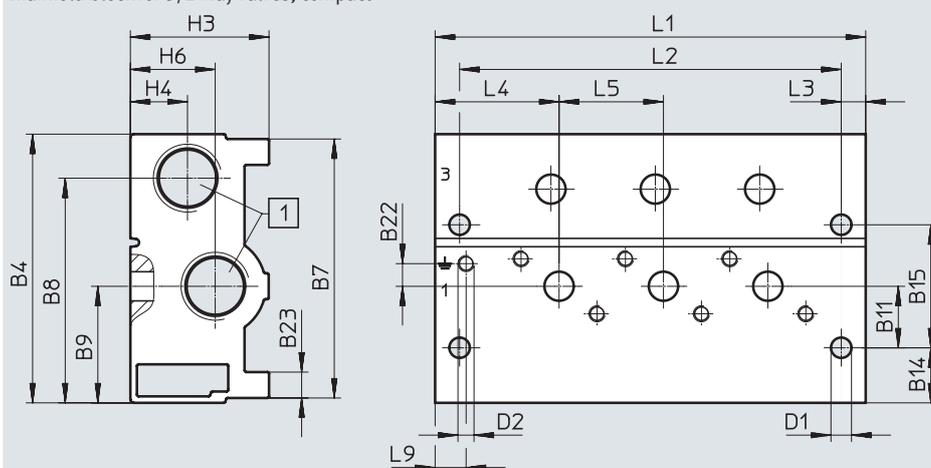
- [1] Ports 1, 3 and 5; threaded connection G3/4 at one end
- [3] Threaded connection at ports 12 and 14: G1/8 at one end
- [6] Profile slot IPM-08, system 8

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														

## Datasheet – 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

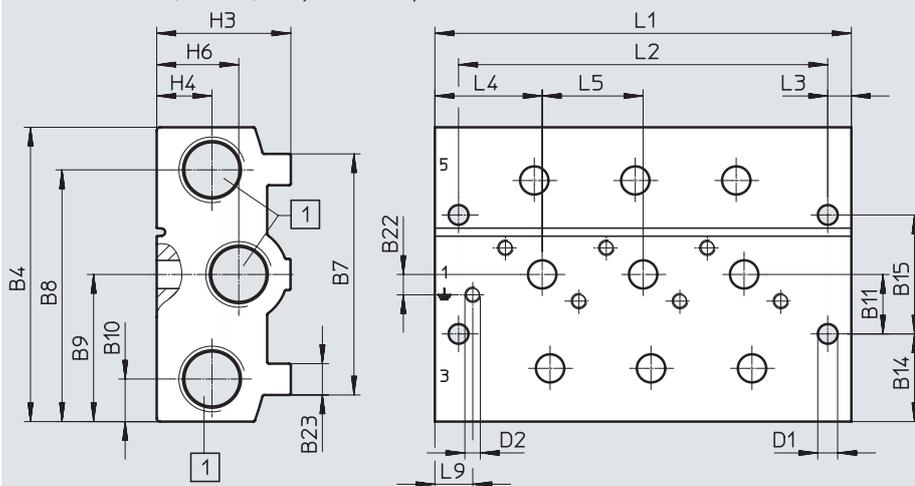
Type	D1 ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-30S-G12-...-P3	6.3	M5x11	42.5	17.5	26	7.5	38	32	12

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

Datasheet – 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

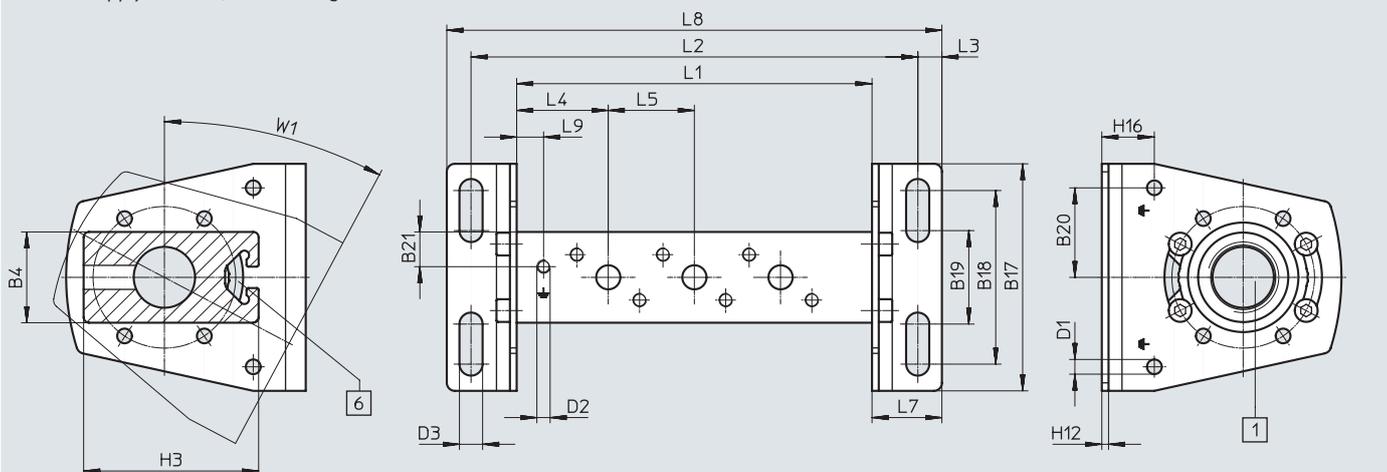
Type	D1 ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-30S-G12-...	6.3	M5x11	42.5	17.5	26	7.5	34	32	12

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

## Datasheet – Manifold block, size 30

### Dimensions

Common supply manifold, for mounting on both sides



[1] Port 1 (at both ends): G3/4

[6] Profile slot IPM-08, system 8

- - **Note**

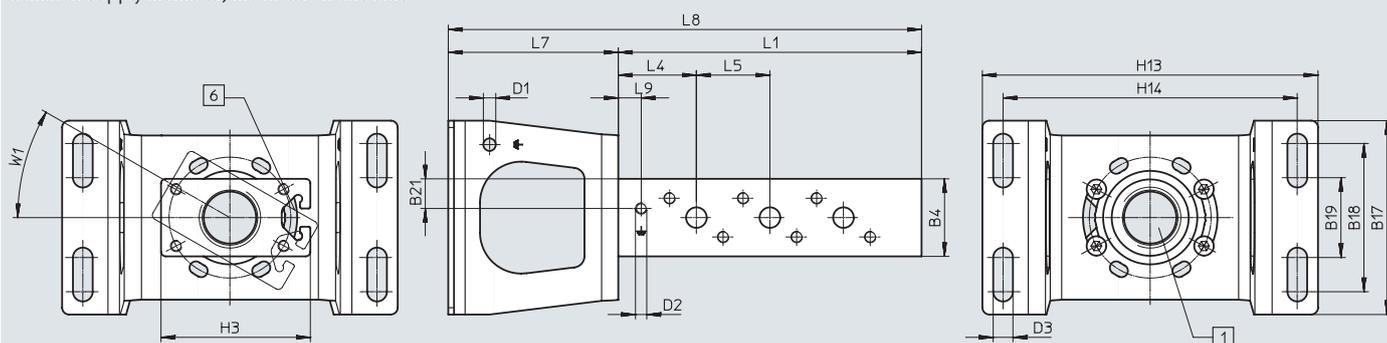
Mounting bracket can be adjusted by  $\pm 30^\circ$

Type	B4	B17	B18	B19	B20	B21	D1 $\varnothing$	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

Common supply manifold, mounted on one side



[1] Port 1 (at both ends): G3/4

[6] Profile slot IPM-08, system 8

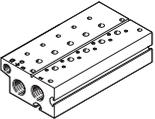
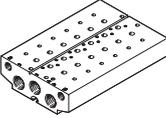
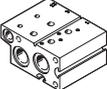
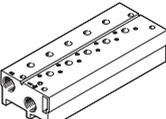
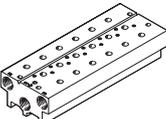
- - **Note**

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

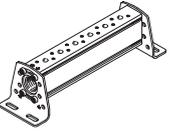
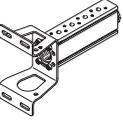
Type	B4	B17	B18	B19	B21	D1 $\varnothing$	D2	D3 $\varnothing$	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-30-G34-...-P53-E	34	85	65	35	13	5.5	M5x11	8.6	65	146	128	34	32	74	10	30°

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

### 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>-  - <b>Note</b> Blanking plugs for sealing the supply ports (1, 3 and 14) on one side 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-way and 5/3-way valves, incl. seals and screws for valve assembly</p> <p>-  - <b>Note</b> 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
		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 mounting valves</p>		2	8026432	VABM-B10-30EEE-G34-2-P3
 <p>For 5/2-way 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>-  - <b>Note</b> 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-way and 5/3-way valves, incl. seals and screws for valve assembly</p> <p>-  - <b>Note</b> Blanking plugs for sealing the supply ports (1, 3 and 5) on one side are included in the scope of delivery.</p>		2	8026377
		3	8026378	VABM-B10-30S-G12-3
		4	8026379	VABM-B10-30S-G12-4
		5	8026380	VABM-B10-30S-G12-5
		6	8026381	VABM-B10-30S-G12-6
		7	8026382	VABM-B10-30S-G12-7
		8	8026383	VABM-B10-30S-G12-8
		9	8026384	VABM-B10-30S-G12-9
		10	8026385	VABM-B10-30S-G12-10

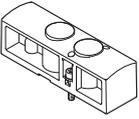
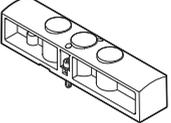
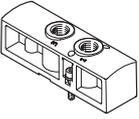
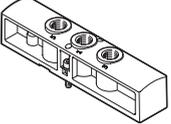
## Ordering data – Manifold block, size 30

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

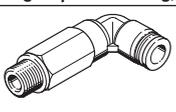
 **Note**

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

Accessories – Manifold block, size 30

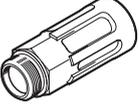
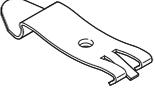
Ordering data	Description	Weight [g]	Part no.	Type
<b>Cover plate</b>				
	For valve position on manifold block for 3/2-way valves	128	<b>8026336</b>	<b>VABB-B10-30-E-P3</b>
	For valve position on manifold block for 5/2-way, 5/3-way valves	179	<b>8026335</b>	<b>VABB-B10-30-E</b>
	For valve position on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

## 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	186106	QS-G1/8-4-I	10
			133008	QS-G1/8-4-I-100	100
		6 mm	186107	QS-G1/8-6-I	10
			133009	QS-G1/8-6-I-100	100
	Connecting thread G3/8 for tubing O.D.	8 mm	186111	QS-G3/8-8-I	10
		10 mm	186113	QS-G3/8-10-I	10
		12 mm	186114	QS-G3/8-12-I	10
Connecting thread G1/2 for tubing O.D.	12 mm	186115	QS-G1/2-12-I	1	
<b>Push-in fitting with external hex</b>					
	Connecting thread G1/2 for tubing O.D.	16 mm	186105	QS-G1/2-16	1
			132047	QS-G1/2-16-20	20
<b>Angled push-in fitting, with external hex</b>					
	Connecting thread G3/8 for tubing O.D.	8 mm	186121	QSL-G3/8-8	10
			132055	QSL-G3/8-8-50	50
		10 mm	186123	QSL-G3/8-10	10
			132056	QSL-G3/8-10-20	20
		12 mm	186124	QSL-G3/8-12	10
			132057	QSL-G3/8-12-20	20
	Connecting thread G1/2 for tubing O.D.	12 mm	186125	QSL-G1/2-12	1
		16 mm	186126	QSL-G1/2-16	1
			132058	QSL-G1/2-12-20	20
			132059	QSL-G1/2-16-20	20
<b>Angled push-in fitting, long, with external hex</b>					
	Connecting thread G1/2 for tubing O.D.	8 mm	186132	QSL-G3/8-8	10
		10 mm	186134	QSL-G3/8-10	10
		12 mm	186135	QSL-G3/8-12	10
<b>Barbed fitting with external hex</b>					
	Connecting thread G3/4 for tubing I.D. Aluminium version	13 mm	3612	N-3/4-P-13	1
		19 mm	3613	N-3/4-P-19	1
	Connecting thread G3/4 for tubing I.D. Brass design	13 mm	15637	N-3/4-P-13-MS	1
		19 mm	15638	N-3/4-P-19-MS	1

1) Packaging unit

Accessories – Manifold block, size 30

Ordering data	Description	Part no.	Type	PU <sup>1)</sup>
<b>Silencer</b>				
	With connecting thread G, polymer version	G3/8	<b>534224</b> U-3/8-20	20
	With connecting thread G, metal version	G3/8	<b>6843</b> U-3/8-B	1
		G1/2	<b>6844</b> U-1/2-B	1
		G3/4	<b>6845</b> U-3/4-B	1
	With connecting thread G, sintered version, long	G1/2	<b>1205863</b> AMTE-M-LH-G12	10
		G3/4	<b>1205864</b> AMTE-M-LH-G34	<b>10</b>
<b>Blanking plug</b>				
	With connecting thread G	G1/8	<b>3568</b> B-1/8	10
			<b>534213</b> B-1/8-100	100
		G1/2	<b>3571</b> B-1/2	10
			<b>534216</b> B-1/2-20	20
		G3/4	<b>3572</b> B-3/4	1
<b>Separator</b>				
	For creating pressure zones	G1/8	<b>569995</b> VABD-8-B	1
		G1/2	<b>8022483</b> VABD-17.5-B	1
		G3/4	<b>8022484</b> VABD-22.7-B	1
<b>DIN rail mounting</b>				
	For size 30, for mounting on standard TH 35-7.5 or TH 35-15 DIN rails to EN 60715	<b>3488412</b>	<b>VAME-T-M6</b>	2

1) Packaging unit