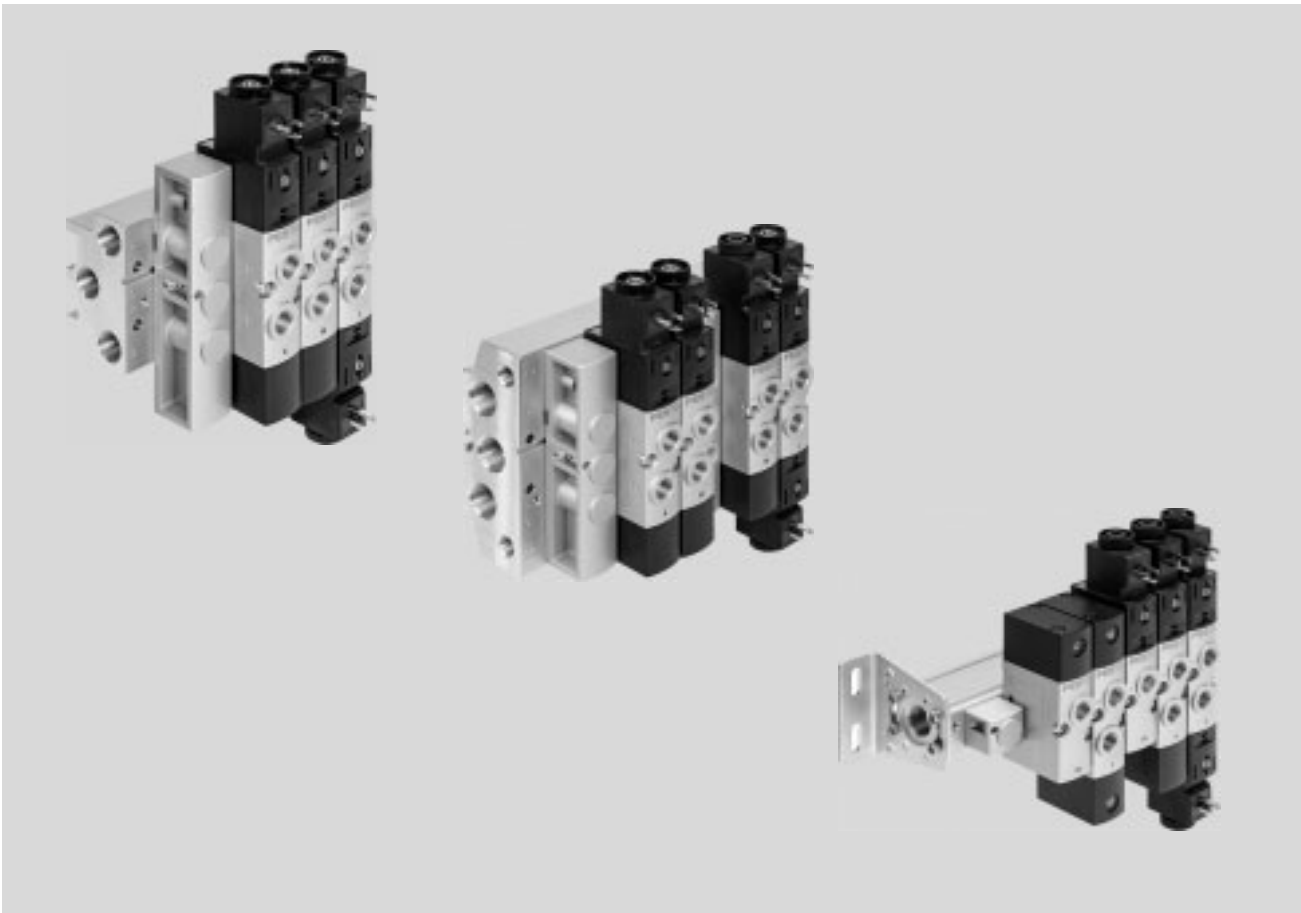


Pneumatic valves VUWS/valve manifold VTUS



Pneumatic valves VUWS/valve manifold VTUS

Key features – Pneumatics



Innovative

- A reliable, robust valve with a long service life
- Flow rate up to 1300 l/min
- Low-cost universal valve with no performance limitations
- Wide range of valve functions
- Multiple widths

Versatile

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

Reliable

- Ergonomic, reliable operation
- Durable thanks to tried and tested piston spools
- Reliable servicing thanks to valves that can be replaced quickly and easily

Easy to install

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

Valve manifold selection

Configurator

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

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

Ordering system for valve manifold VTUS

→ Internet: vtus

2D/3D CAD data

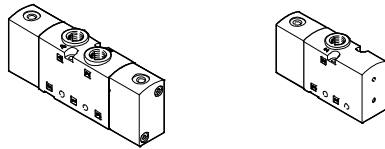
The CAD data for a configured valve manifold can be retrieved online using the configurator.

Pneumatic valves VUWS/valve manifold VTUS

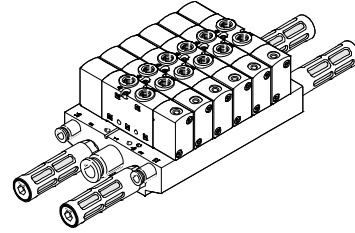
Key features

Pneumatic valves VUWS

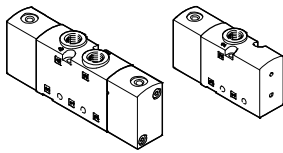
In-line valve VUWS as individual valve



Valve manifold VTUS



Equipment options



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

All valves are equipped with a piston spool and patented sealing system to facilitate efficient sealing, a broad pressure range and a long service life. Pneumatic valves VUWS have a sturdy design that enables them to be used in harsh environments.

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

Valve functions

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

- External pneumatic spring connection
- Reset via pneumatic/mechanical spring
- Direction of flow reversible in the case of external pneumatic spring connection
- Dual-pressure operation possible
- Bistable operation possible with external pneumatic spring connection

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

- External pneumatic spring connection
- Reset via pneumatic/mechanical spring
- Direction of flow reversible in the case of external pneumatic spring connection
- Dual-pressure operation possible
- Bistable operation possible with external pneumatic spring connection

5/2-way valve, monostable:

- External pneumatic spring connection
- Reset via pneumatic/mechanical spring
- Direction of flow reversible in the case of external pneumatic spring connection

5/2-way valve, bistable:

- Direction of flow reversible

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

- External pneumatic spring connection
- Direction of flow reversible in the case of external pneumatic spring connection
- Reset via mechanical spring

Key features

- A maximum of 16 valve positions can be configured in the standard version
- A maximum of 12 valve positions can be configured in the compact version

- Valve positions 2 ... 10 can be configured in increments of 1, valve positions 10 ... 16 in increments of 2
- Manifold block with a maximum of 10 valve positions

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

- Creation of pressure zones (maximum 9 pressure zones in the case of manifold assemblies with 16 valve positions)

Design

Valve replacement

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

This means that the valves can be easily replaced.

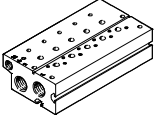
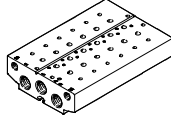
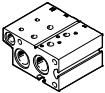
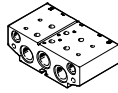
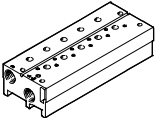
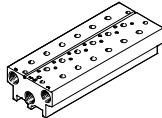
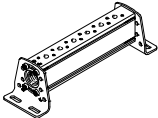
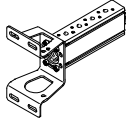

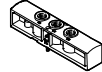

Extension


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

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

Pneumatic valves VUWS/valve manifold VTUS

Key features

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

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

Pneumatic valves VUWS/valve manifold VTUS

Key features – Pneumatics

Creating pressure zones and separating exhaust air


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

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

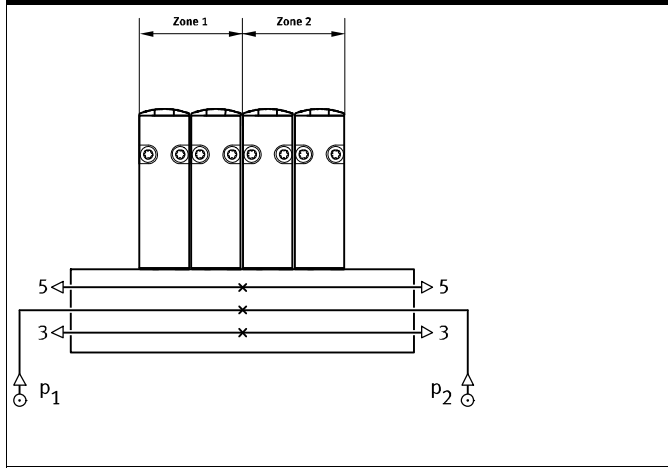
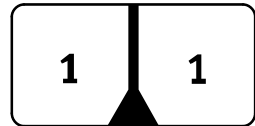
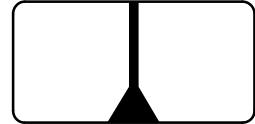
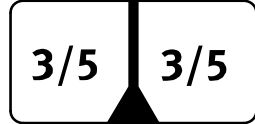
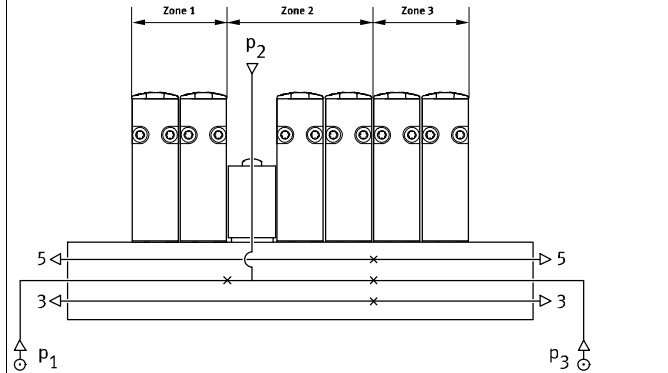
A pressure zone is created by isolating the internal ducts between the valve positions by means of an appropriate separator.

The separator can be used in the following ducts:

- Duct 1
- Duct 3
- Duct 5

 Note

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

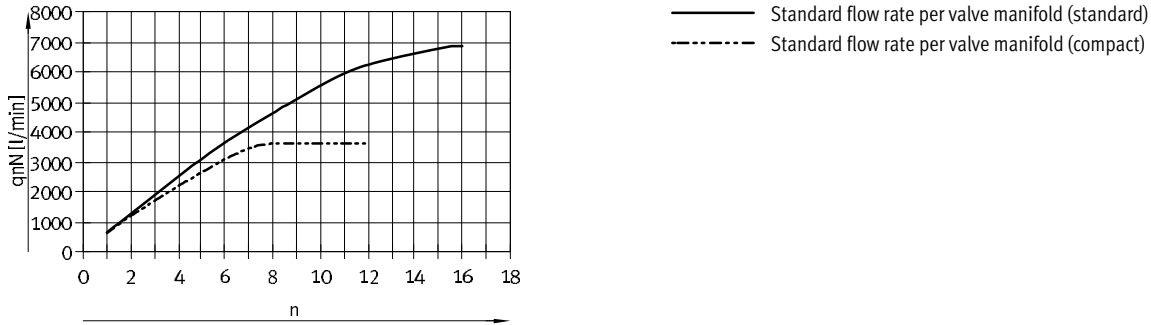
Duct separation	Description
	<p>The pressure zones can be freely configured with the VTUS. The following duct separations are possible:</p> <ul style="list-style-type: none"> • Duct 1 closed  • Duct 1/3/5 closed  • Duct 3/5 closed 
	<p>The number of pressure zones with the VTUS is limited by the number of valve positions on the manifold block/supply manifold. Note that each supply plate occupies one valve position. There must always be at least 2 valve positions between 2 separators. In the case of a maximum extension of 16 valve positions, a maximum of 9 pressure zones can be created.</p>

Pneumatic valves VUWS/valve manifold VTUS

Key features – Pneumatics

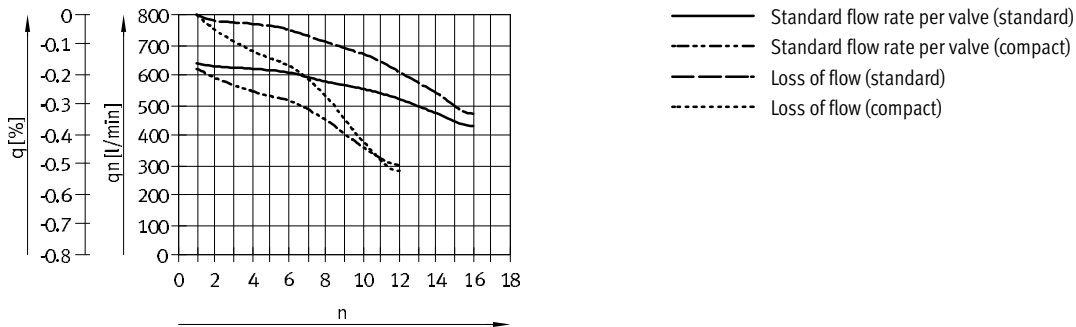
Standard nominal flow rate q_{nN} , with several valves n switched simultaneously, width 20

For 3/2-way valves, valve manifold



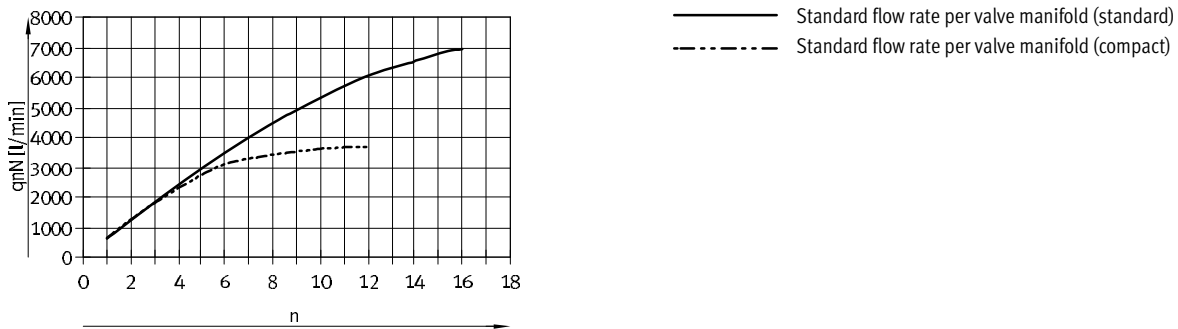
Standard nominal flow rate q_n , with several valves n switched simultaneously, width 20

For 3/2-way valves, individual valve



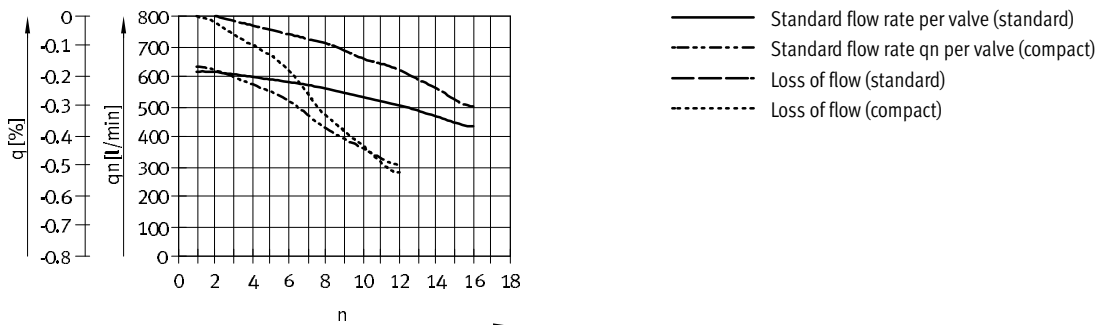
Standard nominal flow rate q_{nN} , with several valves n switched simultaneously, width 20

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



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

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

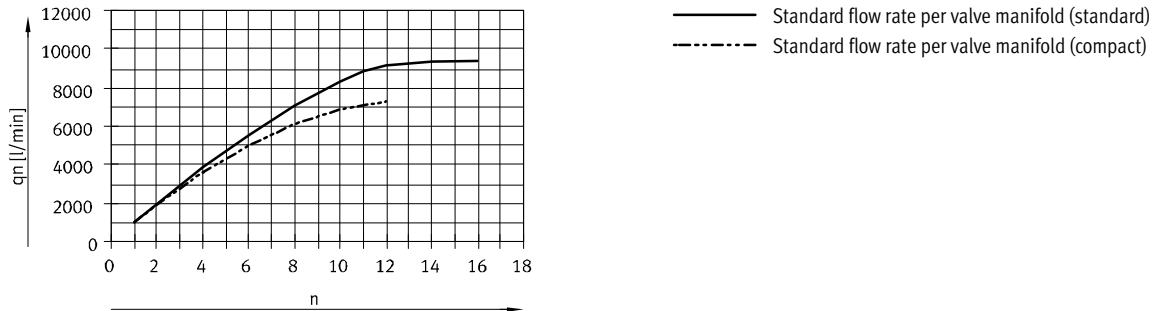


Pneumatic valves VUWS/valve manifold VTUS

Key features – Pneumatics

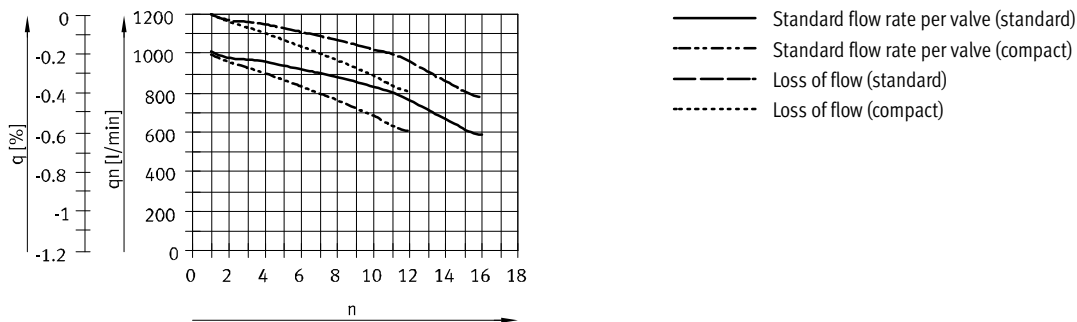
Standard nominal flow rate q_{nN} , with several valves n switched simultaneously, width 25

For 3/2-way valves, valve manifold



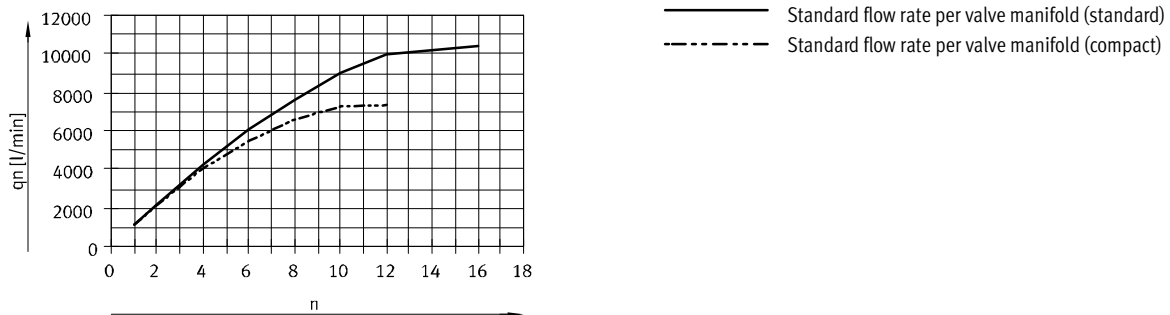
Standard nominal flow rate q_n , with several valves n switched simultaneously, width 25

For 3/2-way valves, individual valve



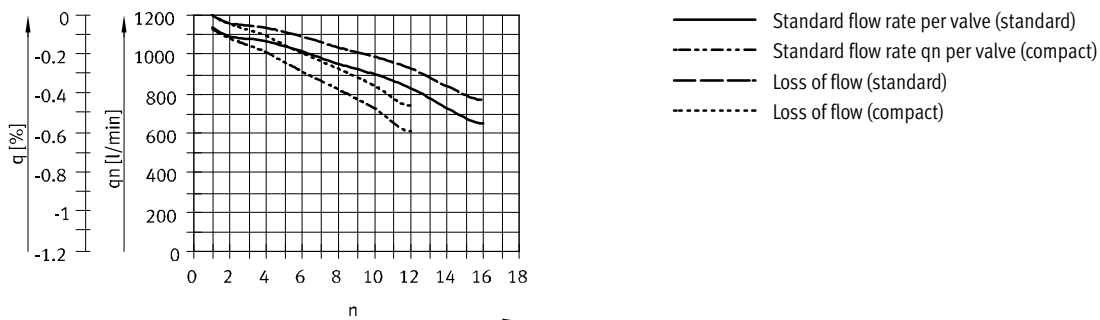
Standard nominal flow rate q_{nN} , with several valves n switched simultaneously, width 25

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



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

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



Pneumatic valves VUWS/valve manifold VTUS

Key features – Assembly

Mounting the valve manifold

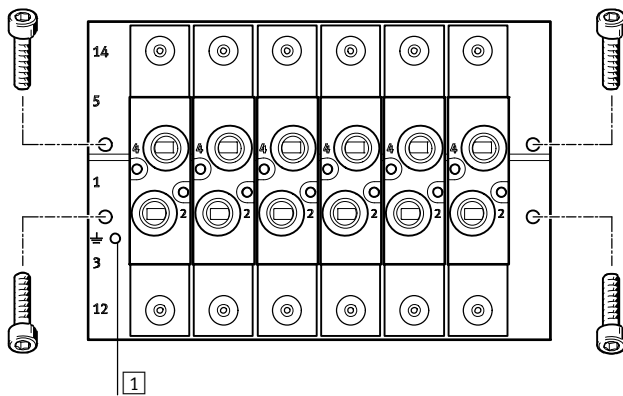
Sturdy valve manifold owing to:

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

 **Note**

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

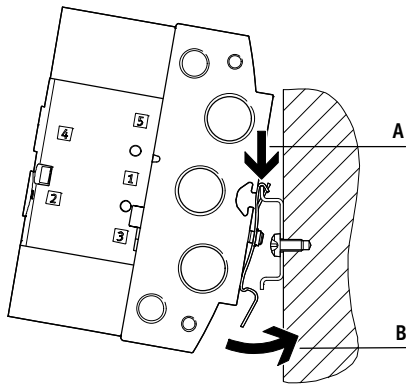
Wall mounting



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

1 Earth terminal

H-rail mounting



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

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

 **Note**

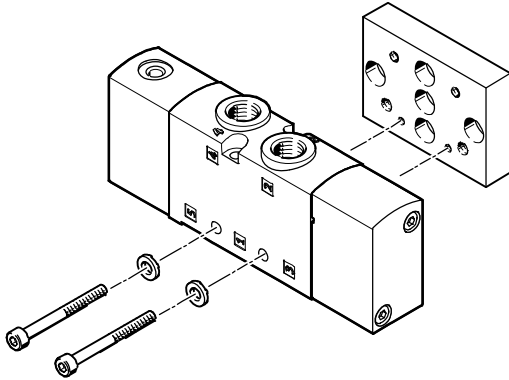
- Note the max. tightening torque of the screws for H-rail mounting.
- Only horizontal H-rail mounting is permissible.
- Mounting only possible on H-rail TH 35-... to EN 60715.
- Vibration/shock loads are not permissible with H-rail mounting.
- Further note on assembly
→ Assembly instructions for H-rail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

Pneumatic valves VUWS/valve manifold VTUS

Key features – Assembly

Mounting individual valve VUWS

Wall mounting

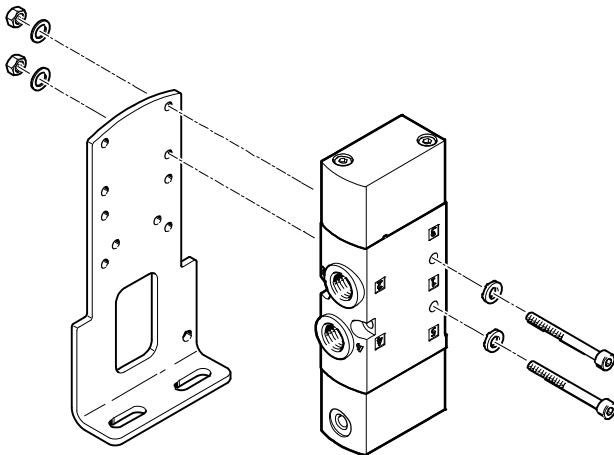


For mounting individual valves on a flat surface, e.g. aluminium profile systems.

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.

Mounting on a stand



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.

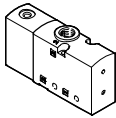
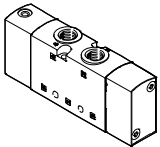
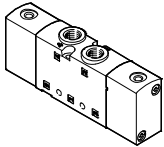
The screw set required is included with the foot mounting VAME-B10-...-A.

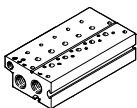

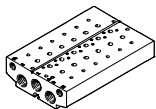
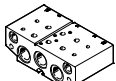
 **Note**

Further mounting options for foot mounting VAME-B10-...-A → p.49

Pneumatic valves VUWS/valve manifold VTUS

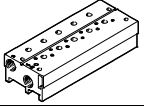
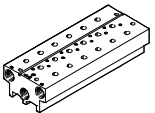
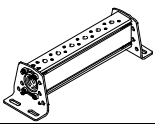
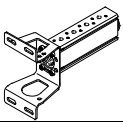
Product range overview

Design	Width	Working port	Order code for valves and flow rate [l/min]							→ Page/ Internet
			M32C	M32U	M52	B52	P53C	P53E	P53U	
3/2-way valve										
	20	G1/8	700	700	-	-	-	-	-	32
	25	G1/4	1000	1000	-	-	-	-	-	39
5/2-way valve										
	20	G1/8	-	-	700	700	-	-	-	32
	25	G1/4	-	-	1300	1300	-	-	-	39
5/3-way valve										
	20	G1/8	-	-	-	-	700	600	600	32
	25	G1/4	-	-	-	-	1000	1000	1000	39

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

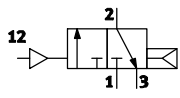
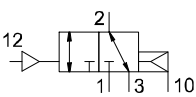
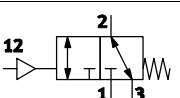
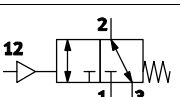
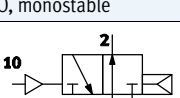
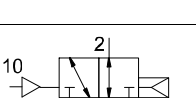
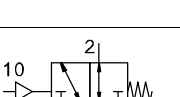
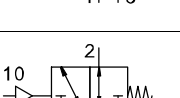
Pneumatic valves VUWS/valve manifold VTUS

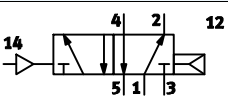
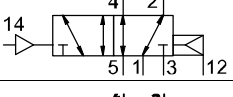
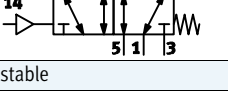
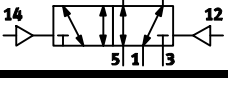
Product range overview

Design	Width	Description	→ Page/ Internet	
Manifold block for 3/2-way valves, compact				
	20	VABM-B10-20S-G14- ...-P3	Connection G1/4	51
	25	VABM-B10-25S-G38- ...-P3	Connection G3/8	66
Manifold block for 5/2- and 5/3-way valves, compact				
	20	VABM-B10-20S-G14- ...	Connection G1/4	51
	25	VABM-B10-25S-G38- ...	Connection G3/8	66
Supply manifold, for mounting on both sides				
	20	VABM-B10-20-G38- ... -P53	Connection G3/8	52
	25	VABM-B10-25-G12- ... -P53	Connection G1/2	67
Supply manifold, for mounting on one side				
	20	VABM-B10-20-G38- ... -P53-E	Connection G3/8	52
	25	VABM-B10-25-G12- ... -P53-E	Connection G1/2	67

Pneumatic valves VUWS

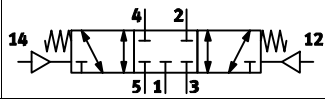
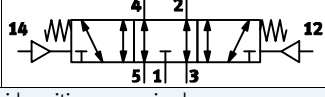
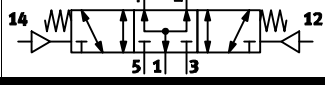
Valve function

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

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

Pneumatic valves VUWS

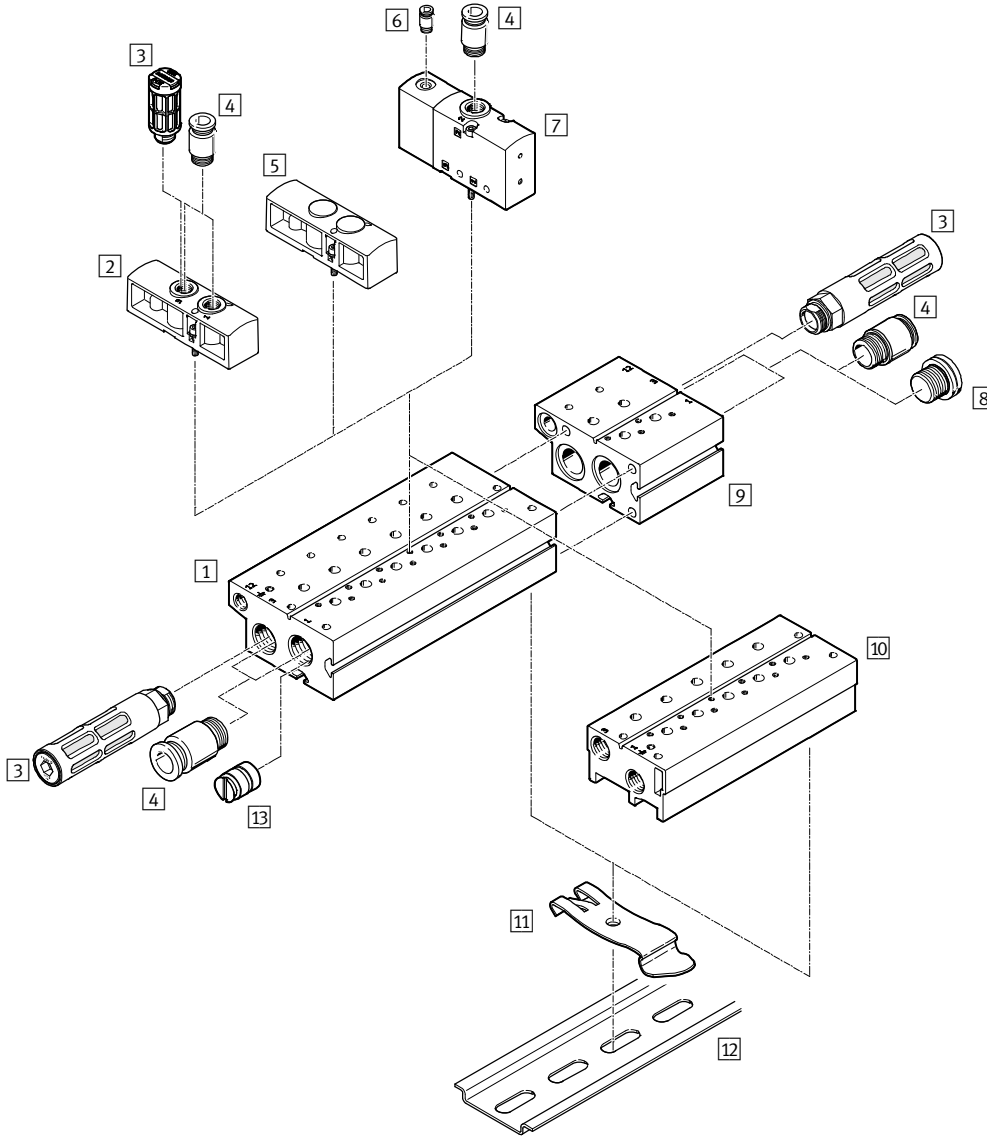
Valve function

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

Pneumatic valves VUWS/valve manifold VTUS

Peripherals overview

Manifold block for 3/2-way valves

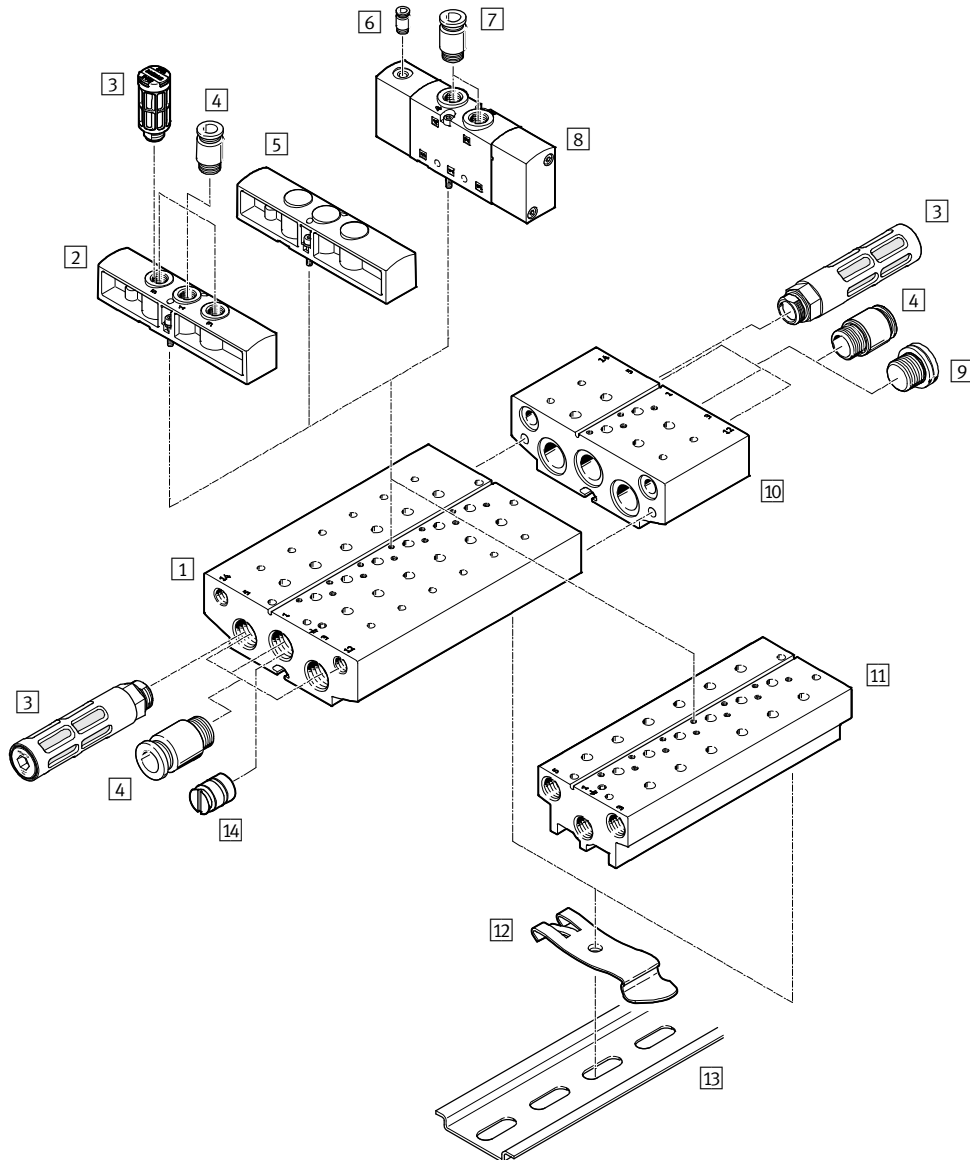


Accessories			
Name	Brief description	→ Page/Internet	
1	Standard manifold block	For 3/2-way valves	51, 66
2	Supply plate	For 3/2-way valves	53, 68
3	Silencer	For exhaust ports (3)	55, 70
4	Push-in fitting	For supply/exhaust ports (1, 3)	33, 40
5	Blanking plate	VABB-B10-...	53, 68
6	Push-in fitting	M5 for pneumatic spring connection	33, 40
7	Pneumatic valve	3/2-way valve	32, 39
8	Blanking plug	For supply/exhaust ports (1, 3)	55, 70
9	Standard manifold block extension module	For 3/2-way valves	51, 66
10	Compact manifold block	For 3/2-way valves	51, 66
11	H-rail mounting	For mounting on standard H-rails	55, 70
12	Standard H-rail	DIN mounting rail to EN 60715	-
13	Separator	For creating pressure zones (in duct 1 and/or 3)	55, 70

Pneumatic valves VUWS/valve manifold VTUS

Peripherals overview

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

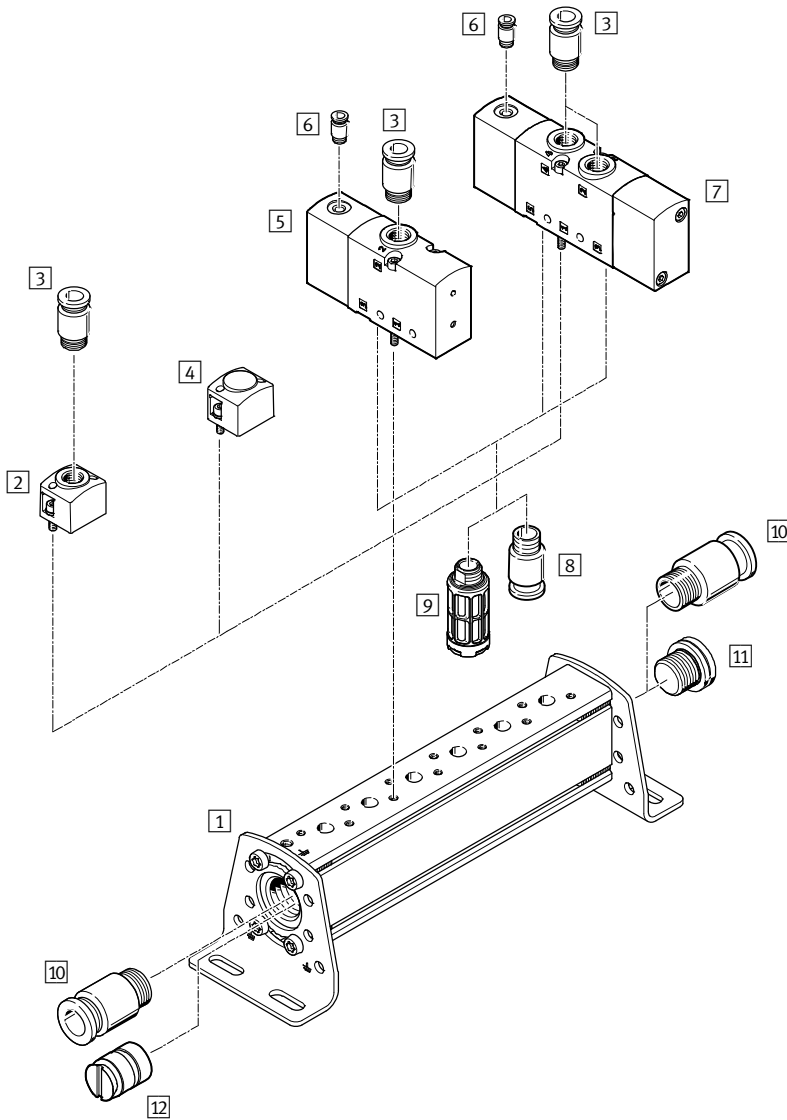


Accessories			
Name	Brief description	→ Page/Internet	
1	Standard manifold block	For 5/2- and 5/3-way valves	51, 66
2	Supply plate	For 5/2- and 5/3-way valves	53, 68
3	Silencer	For exhaust ports (5 and/or 3)	55, 70
4	Push-in fitting	For supply/exhaust ports (1, 3, 5)	33, 40
5	Blanking plate	VABB-B10-...	53, 68
6	Push-in fitting	M5 for pneumatic spring connection	33, 40
7	Push-in fitting	For working ports (2, 4)	33, 40
8	Pneumatic valve	5/2-way, 5/3-way valve	32, 39
9	Blanking plug	For supply/exhaust ports (1, 3, 5)	55, 70
10	Standard manifold block extension module	For 5/2- and 5/3-way valves	51, 66
11	Compact manifold block	For 5/2- and 5/3-way valves	51, 66
12	H-rail mounting	For mounting on standard H-rails	55, 70
13	Standard H-rail	DIN mounting rail to EN 60715	-
14	Separator	For creating pressure zones (in ducts 1, 3, 5)	55, 70

Pneumatic valves VUWS/valve manifold VTUS

Peripherals overview

Supply manifold for mounting on both sides

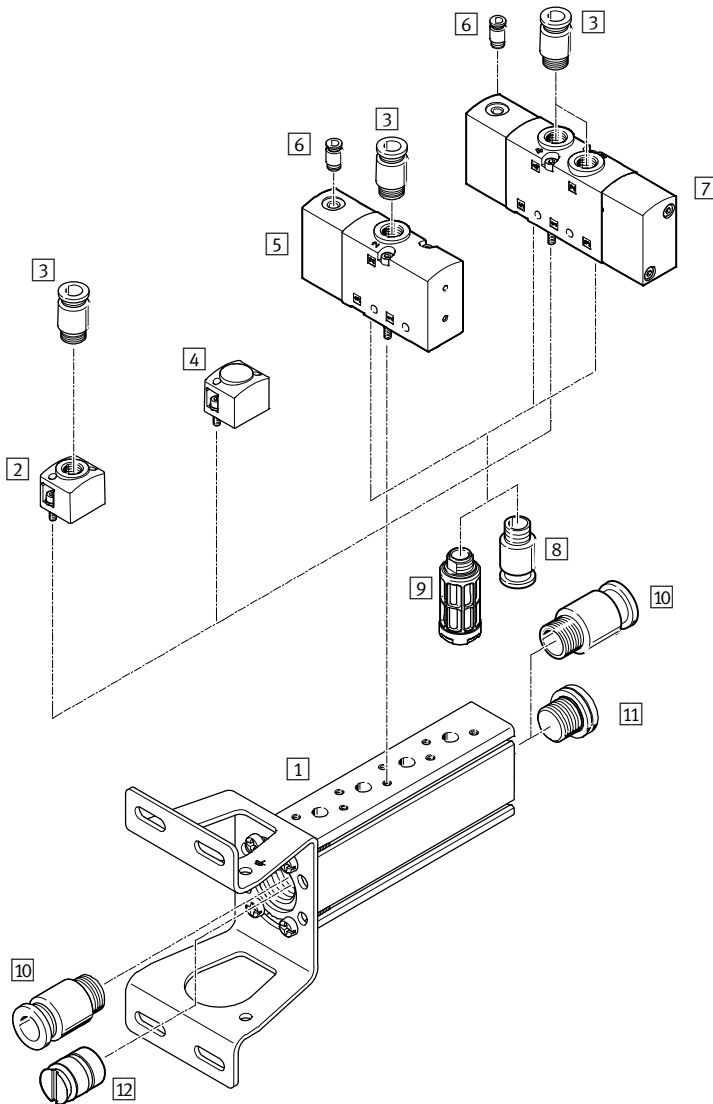


Name	Brief description	→ Page/Internet
1 Supply manifold	For mounting on both sides Mounting bracket can be adjusted through $\pm 30^\circ$.	52, 67
2 Supply plate	For supplying air (1) (VABF-B10-...-P1...)	53, 68
3 Push-in fitting	For supplying air (1) for working ports (2, 4)	33, 40
4 Blanking plate	VABB-B10-...	53, 68
5 Pneumatic valve	3/2-way valve	32, 39
6 Push-in fitting	M5 for pilot air port	33, 40
7 Pneumatic valve	5/2-way, 5/3-way valve	32, 39
8 Push-in fitting	For exhaust ports (3, 5)	33, 40
9 Silencer	For exhaust ports (3, 5)	55, 70
10 Push-in fitting	For supplying air (1)	54, 69
11 Blanking plug	For working port (duct 1)	55, 70
12 Separator	For creating pressure zones (in duct 1)	55, 70

Pneumatic valves VUWS/valve manifold VTUS

Peripherals overview


Supply manifold for mounting on one side




Designation	Brief description	→ Page/Internet
1 Supply manifold	For mounting on one side Mounting bracket can be adjusted through $\pm 30^\circ$.	52, 67
2 Supply plate	For supplying air (1) (VABF-B10-...-P1...)	53, 68
3 Push-in fitting	For supplying air (1) for working ports (2, 4)	33, 40
4 Blanking plate	VABB-B10-...	53, 68
5 Pneumatic valve	3/2-way valve	32, 39
6 Push-in fitting	M5 for pilot air port	33, 40
7 Pneumatic valve	5/2-way, 5/3-way valve	32, 39
8 Push-in fitting	For exhaust ports (3, 5)	33, 40
9 Silencer	For exhaust ports (3, 5)	55, 70
10 Push-in fitting	For supplying air (1)	54, 69
11 Blanking plug	For working port (duct 1)	55, 70
12 Separator	For creating pressure zones (in duct 1)	55, 70

Valve manifold VTUS

Technical data – Valve manifold

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

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



General technical data		
Valve manifold configuration		Fixed grid
Width 20	[mm]	21
Width 25	[mm]	26.5
Valve design		Piston spool valve
Type of reset		Pneumatic or mechanical spring
Pneumatic spring		Internal or external
Direction of flow		Reversible with restrictions
Suitability for vacuum		Yes
Type of pilot control		Direct
Sealing principle		Soft
Max. number of valve positions		16 (a maximum of 18 valve positions with extension for standard manifold block)
Max. number of pressure zones		9
Exhaust air function		With flow control
Actuation type		Pneumatic
Standard nominal flow rate		
Width 20	[qnN]	600...700
Width 25	[qnN]	1000...1300
Pilot air port	12/14	M5
Mounting position		Any
CRC ¹⁾		2 ¹⁾
Note on materials		RoHS-compliant
Information on materials for seals		HNBR, NBR

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

Operating and environmental conditions		
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]
Pilot medium		Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)
Operating pressure	[bar]	-0.9 ... +10
Pilot pressure	[bar]	1.5 ... 10
Ambient temperature	[°C]	-10 ... +50
Temperature of medium	[°C]	-10 ... +50
Storage temperature	[°C]	-20 ... +60

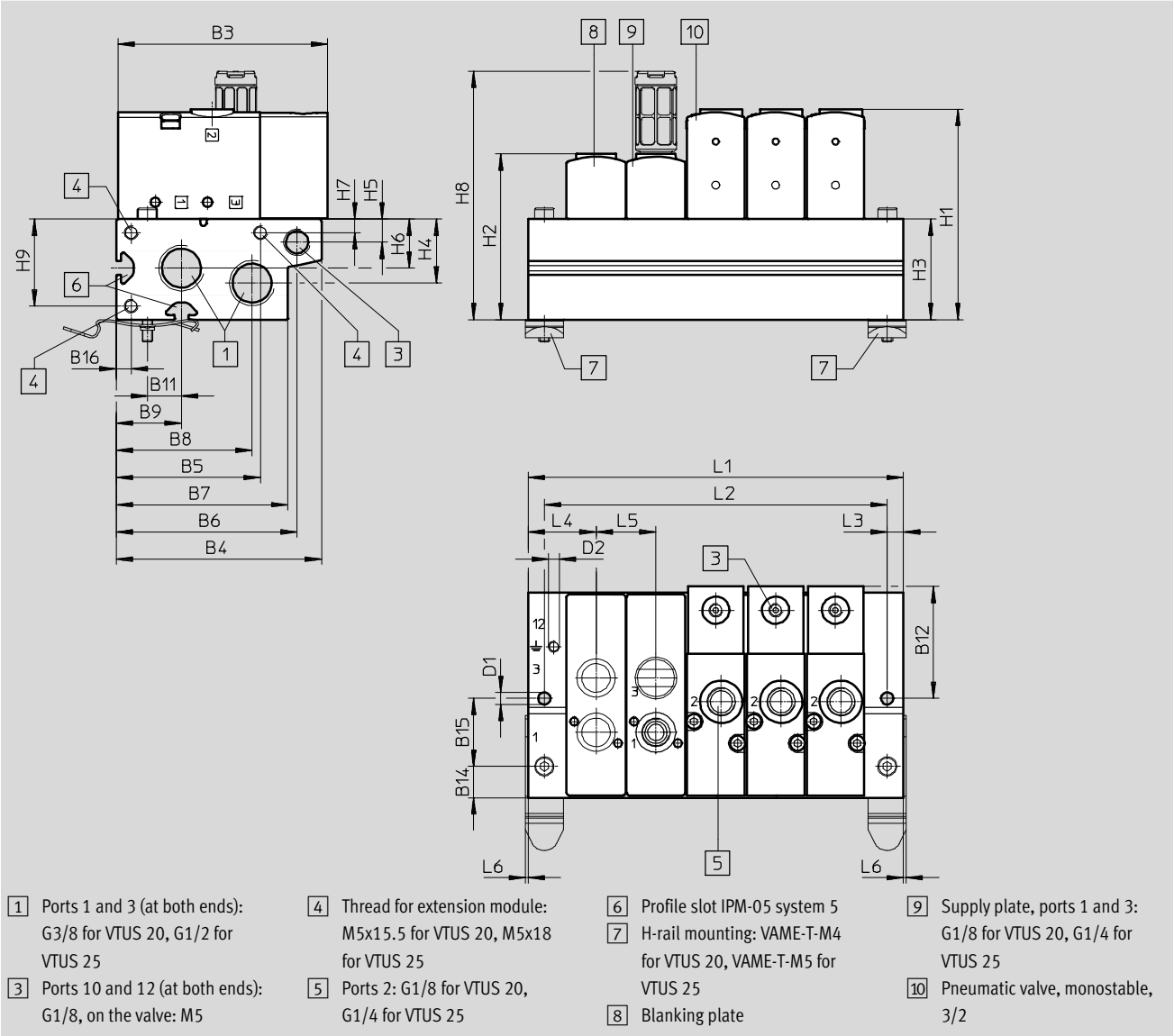
Valve manifold VTUS

Technical data

Dimensions

Download CAD data → www.festo.com

With 3/2-way valves, standard manifold rail



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

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

Valve positions		2	3	4	5	6	7	8	9	10
VTUS-20	L1 [mm]	72	94	116	138	160	182	204	226	248
	L2 [mm]	60	82	104	126	148	170	192	214	236
VTUS-25	L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

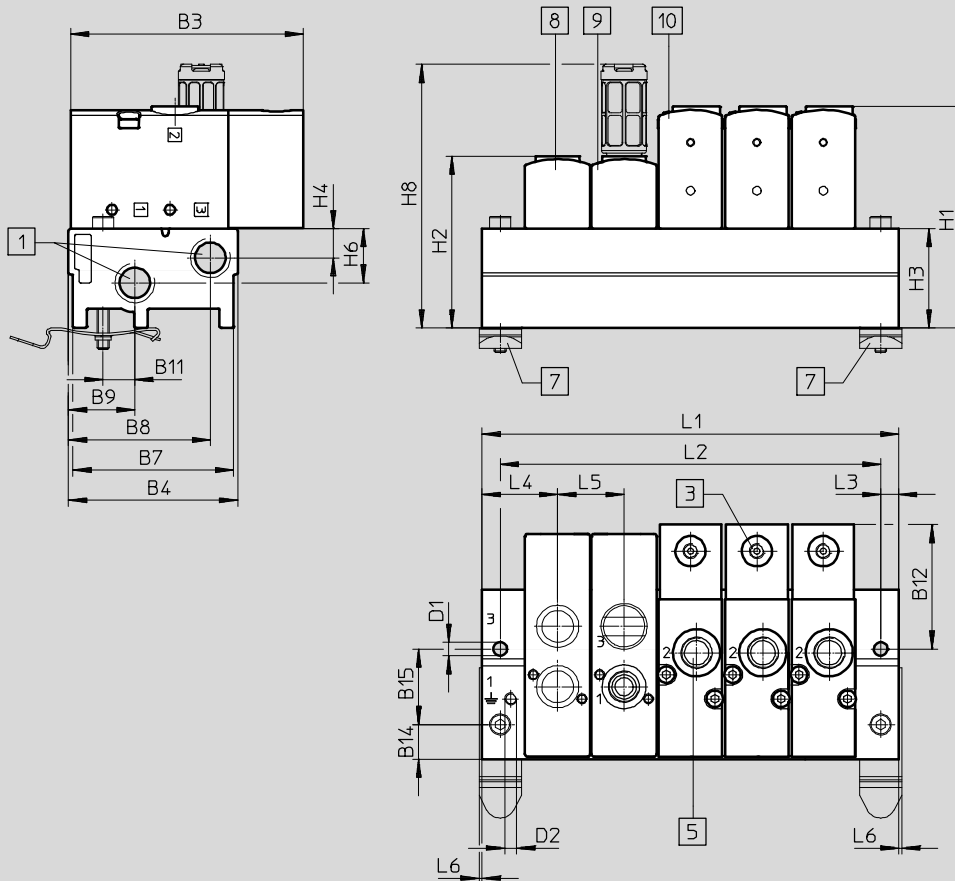
Valve manifold VTUS

Technical data – Valve manifold

Dimensions – Valve manifold

Download CAD data → www.festo.com

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
- 2** Ports 2: G1/8 for VTUS 20, G1/4 for VTUS 25
- 3** Ports 10 and 12 on the valve: M5
- 5** Ports 2: G1/8 for VTUS 20, G1/4 for VTUS 25
- 7** H-rail mounting: VAME-T-M4 for VTUS 20, VAME-T-M5 for VTUS 25
- 8** Blanking plate
- 9** Supply plate, ports 1 and 3: G1/8 for VTUS 20, G1/4 for VTUS 25
- 10** Pneumatic valve, monostable, 3/2

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

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

Valve positions	2	3	4	5	6	7	8	9	10	
VTUS-20	L1 [mm]	72	94	116	138	160	182	204	226	248
	L2 [mm]	60	82	104	126	148	170	192	214	236
VTUS-25	L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

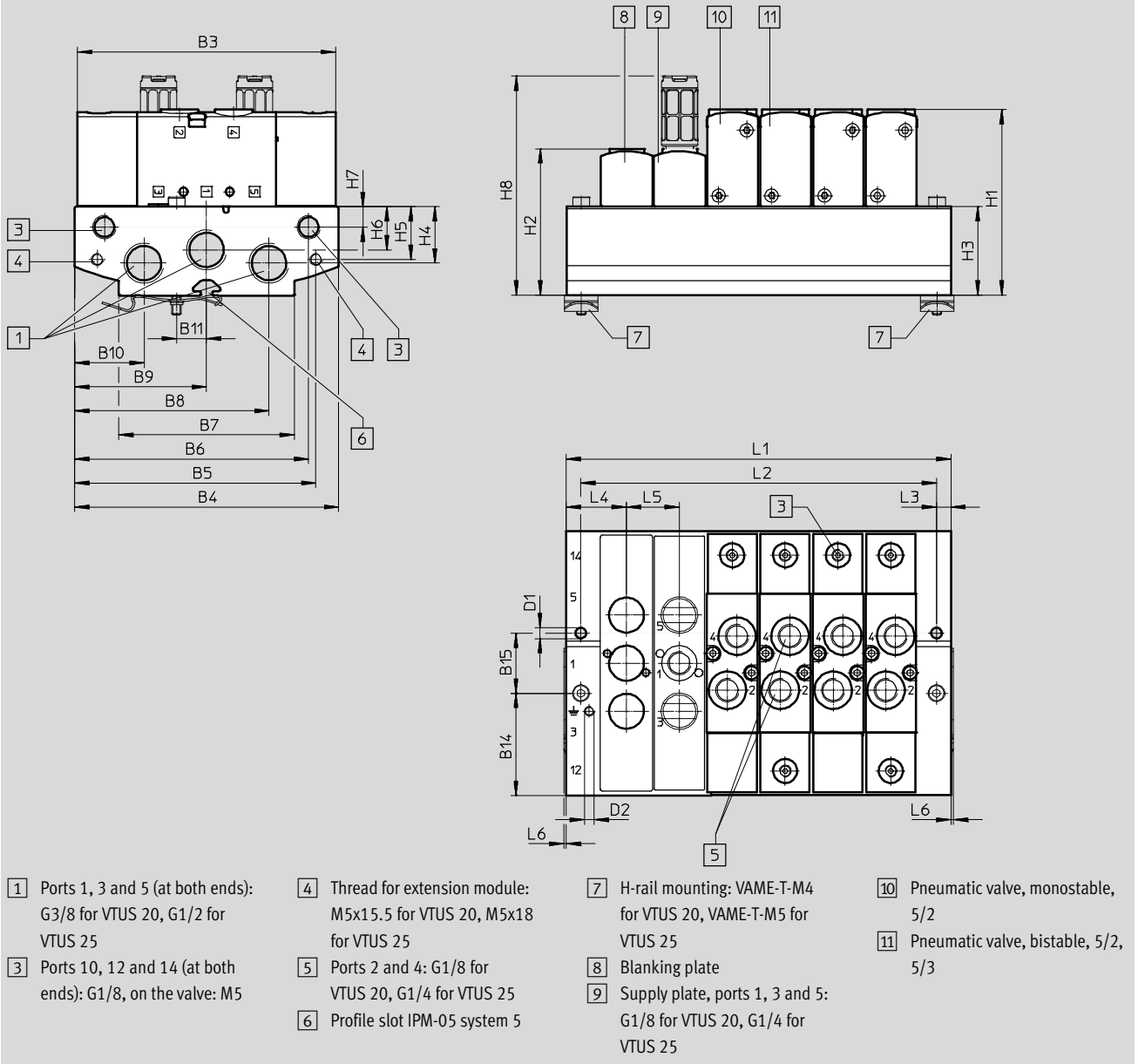
Valve manifold VTUS

Technical data – Valve manifold

Dimensions – Valve manifold

Download CAD data → www.festo.com

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



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

Type	D1 Ø	D2	H1	H2	H3	H4	H5	H6	H7	H8	L3	L4	L5	L6
VTUS-20	4.5	M4x6.5	77.4	61	37	23.5	22	18	8.5	91.4	6	25	22	1
VTUS-25	5.5	M4x9	95.5	71	45	25	22	22	9	123.4	6	29.8	27.5	1

Valve positions		2	3	4	5	6	7	8	9	10
VTUS-20	L1 [mm]	72	94	116	138	160	182	204	226	248
	L2 [mm]	60	82	104	126	148	170	192	214	236
VTUS-25	L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

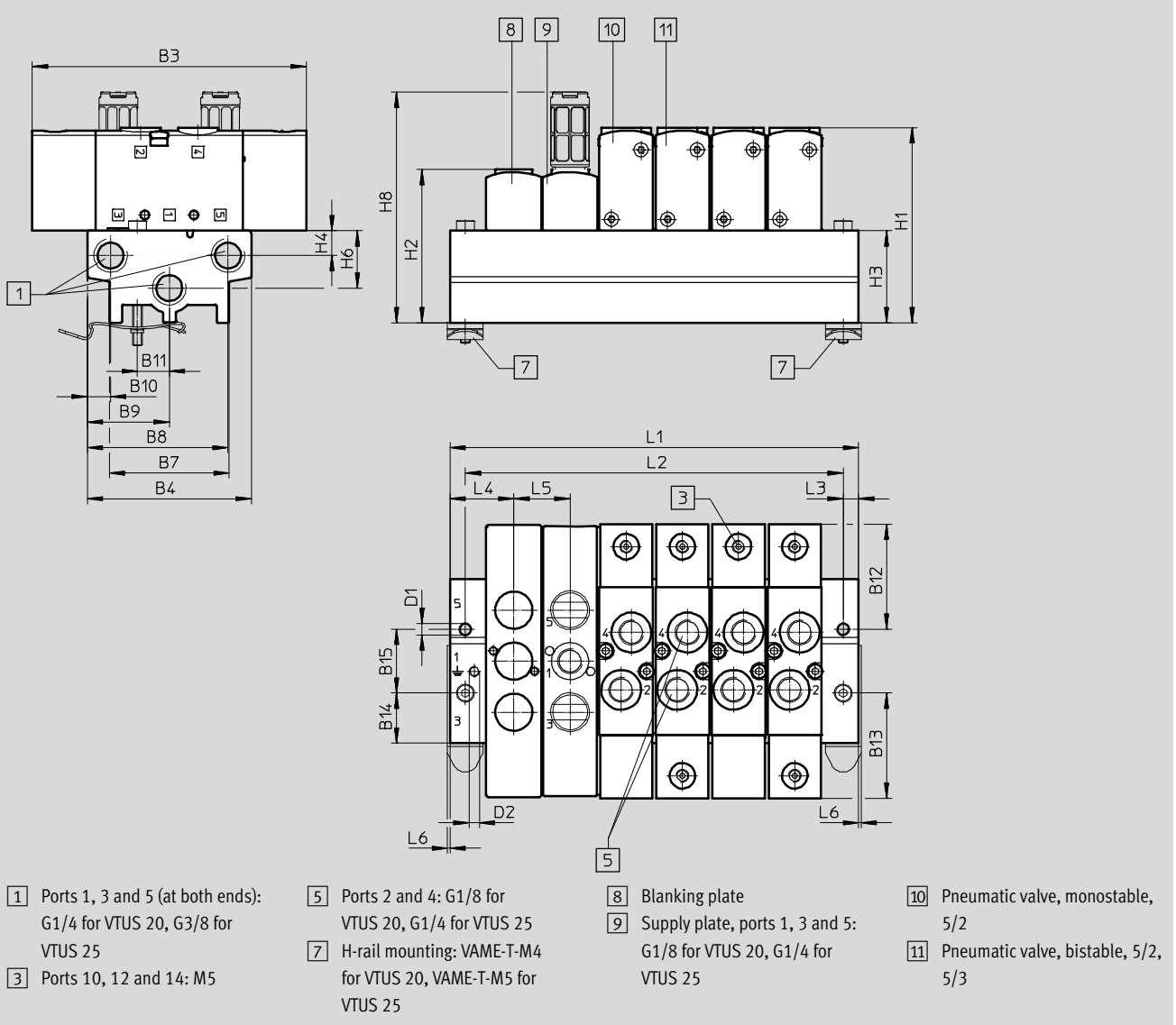
Valve manifold VTUS

Technical data – Valve manifold

Dimensions – Valve manifold

Download CAD data → www.festo.com

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



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

Type	D1 Ø	D2	H1	H2	H3	H4	H6	H8	L3	L4	L5	L6
VTUS-20	4.5	M4x6.5	76.4	60	36	9.7	22.5	90.4	6	25	22	1
VTUS-25	5.5	M4x9	84.5	60	34	13.5	20	112.1	6	29.8	27.5	1

Valve positions	2	3	4	5	6	7	8	9	10	
VTUS-20	L1 [mm]	72	94	116	138	160	182	204	226	248
	L2 [mm]	60	82	104	126	148	170	192	214	236
VTUS-25	L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

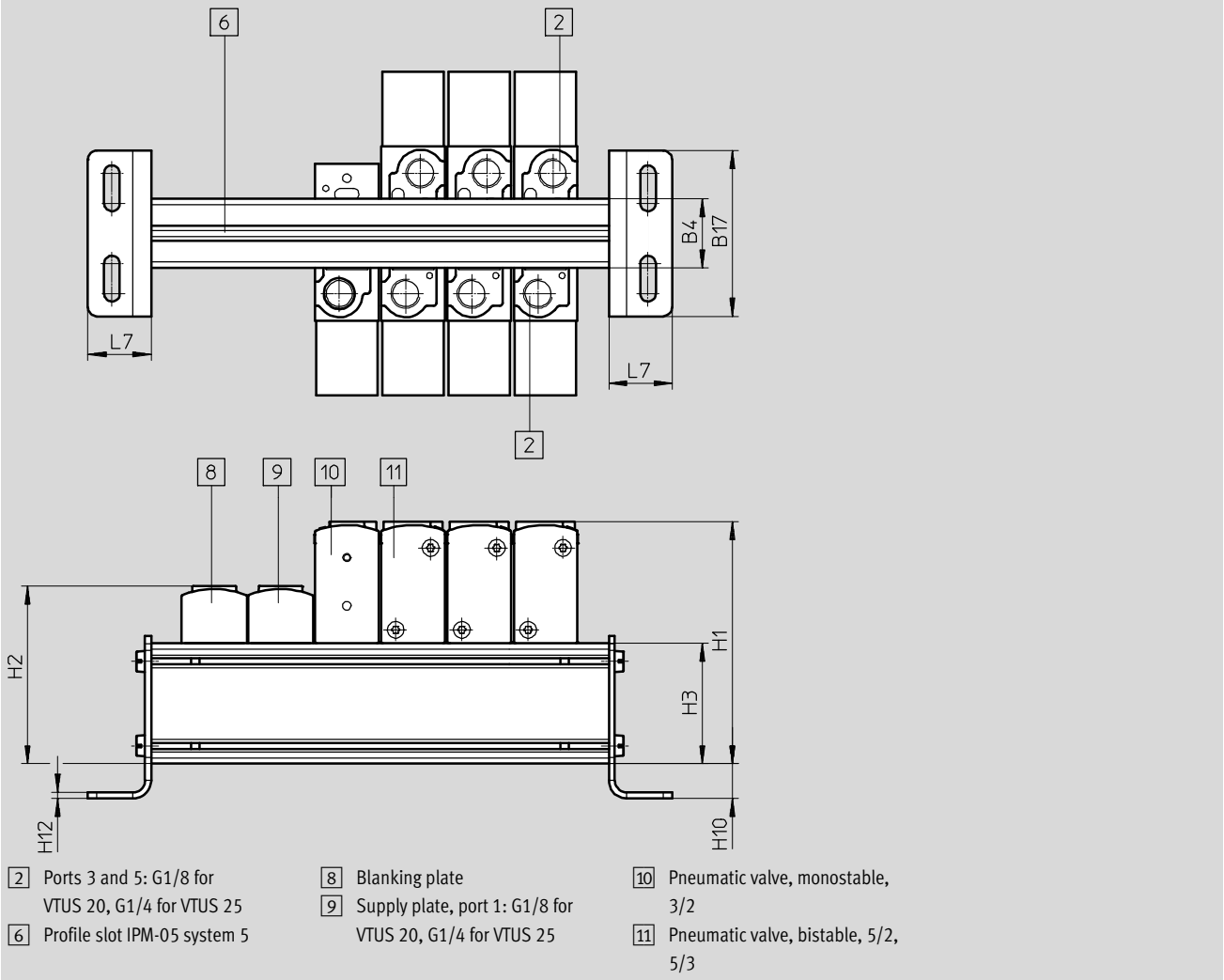
Valve manifold VTUS

Technical data – Valve manifold

Dimensions – Supply manifold

Download CAD data → www.festo.com

Mounting on both sides



Type	B4	B17	H1	H2	H3	H10	H12	L7
VTUS-20	23	55	80.4	59	40	11.5	2	22
VTUS-25	28.7	75	102.5	78	52	18	2	24

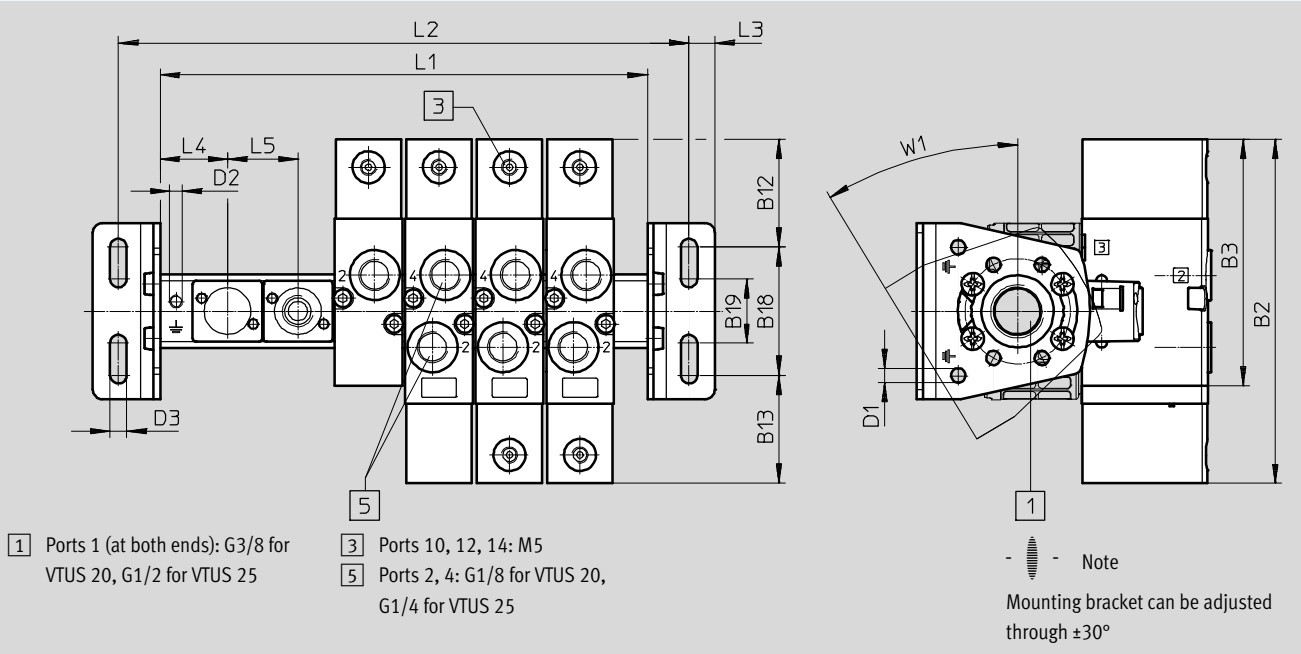
Valve manifold VTUS

Technical data – Valve manifold

Dimensions – Supply manifold

Download CAD data → www.festo.com

Mounting on both sides



Type	B2	B3	B12	B13	B18	B19
VTUS-20	107.4	77	33.7	33.7	40	20
VTUS-25	126	92	33	33	60	35

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

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

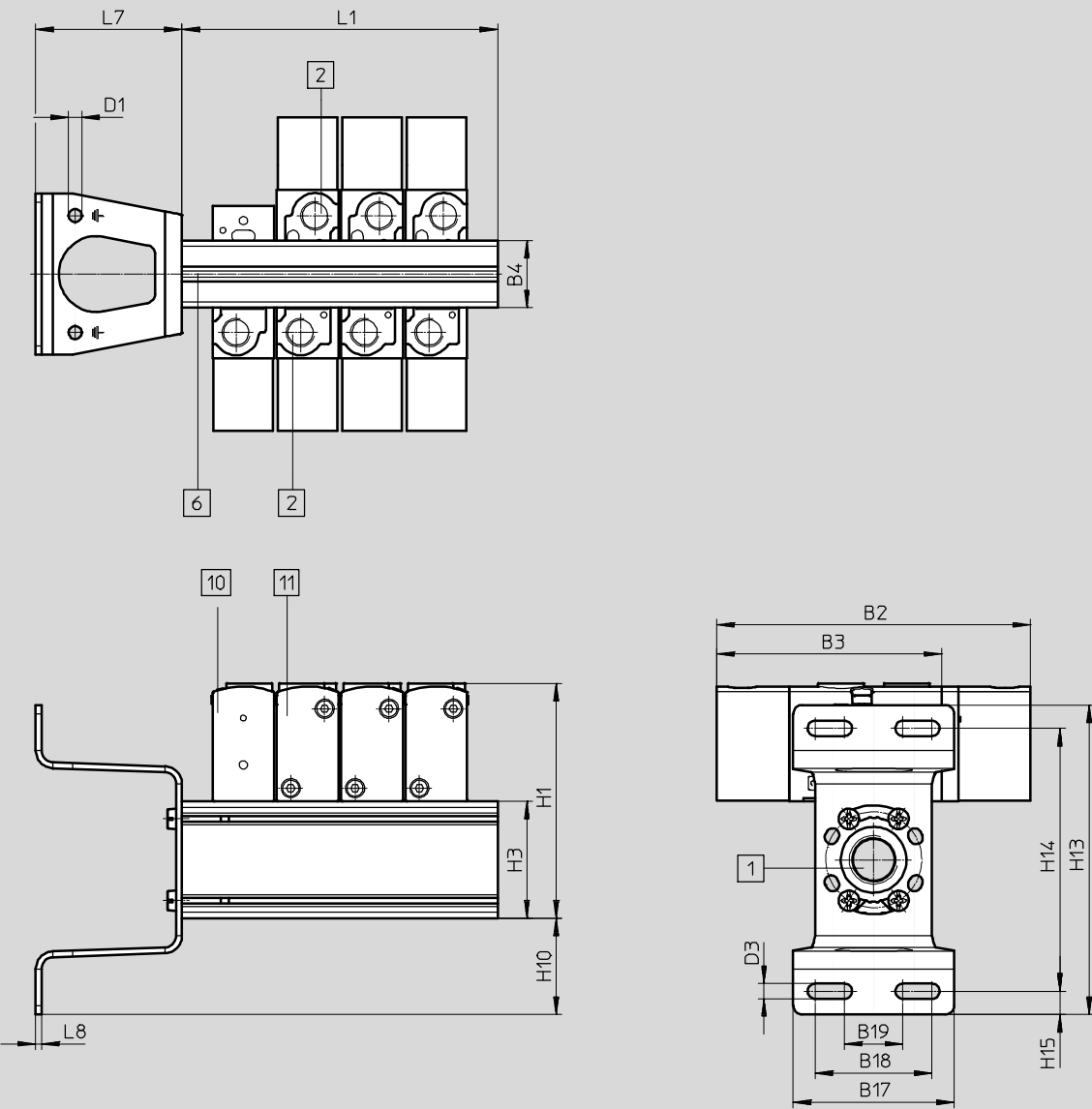
Valve manifold VTUS

Technical data – Valve manifold

Dimensions – Supply manifold

Download CAD data → www.festo.com

Mounting on one side




1 Ports 1 (at both ends): G3/8 for VTUS 20, G1/2 for VTUS 25

2 Ports 3 and 5: G1/8 for VTUS 20, G1/4 for VTUS 25

6 Profile slot IPM-05 system 5

10 Pneumatic valve, monostable, 5/2

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

-  - Note
Mounting bracket can be adjusted through ±30°

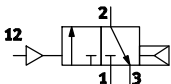
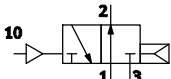
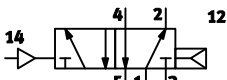
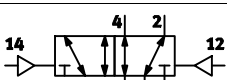
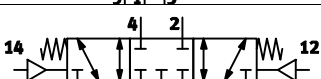
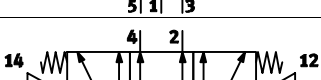

Type	B2	B3	B4	B17	B18	B19
VTUS-20	107.4	77	23	55	40	20
VTUS-25	126	92	28.7	80	60	35

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	9	49.5	2
VTUS-25	4.5	6.6	102.5	52	38	128	112	8	64	2

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

Pneumatic valves VUWS

Order code – Pneumatic valves


VUWS	-	L	-	-
Valve design				
In-line, individual valve		L		
Valve width				
21 mm			20	
26.5 mm			25	
Valve functions				
				M32C¹⁾
				M32U¹⁾
				M52¹⁾
				B52
				P53C
				P53U
				P53E


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

Exhaust	
-	Without fitting
QN	With fitting
U1	Silencer with metal housing
U3	Silencer with polymer housing
Pneumatic connection	
G18	Thread G 1/8
G14	Thread G 1/4
Q4	Push-in connector 4 mm
Q6	Push-in connector 6 mm
Q8	Push-in connector 8 mm
Q10	Push-in connector 10 mm
Type of reset	
-	None (for bistable valves)
A	Pneumatic spring
E	Pneumatic spring, external
M	Mechanical spring

Pneumatic valves VUWS

Technical data – Pneumatic valves, width 20

 - Flow rate
Up to 700 l/min

 - Valve width
21 mm



General technical data							
Valve function	3/2		5/2		5/3		
Order code for valves	M32C	M32U	M52	B52	P53C	P53U	P53E
Valve width [mm]	21						
Design	Piston spool valve						
Pneumatic spring supply	Internal or external (external: identified by E in type code)						
Type of pilot control	Direct						
Manual override (MO)	None						
Direction of flow	Reversible with restrictions (not reversible: identified by A in type code)						
Non-overlapping	Yes						
Sealing principle	Soft						
Type of mounting	Optionally via through-holes ¹⁾ or on manifold rail						
Standard nominal flow rate [qnN]	700		700		700	600	600
Through-holes (nominal width) [mm]	5.7		5.7		5.0	4.8	4.5
Product weight [g]	145		178/190 ²⁾		211	207	207
Actuation type	Pneumatic						
Mounting position	Any						
Exhaust air function	With flow control						
Venting hole	Not ducted						
Pneumatic connection 1, 2, 4, 3, 5	G1/8						
Pneumatic spring connection 12/14, 10	M5						

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

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

Technical data – 3/2-way valves					
Order code for valves		M32C			M32U
Normal position		Closed			Open
Stable 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	On	7	10	7	10
	Off	15	28	15	28
	Change-over	–	–	–	–

Pneumatic valves VUWS

Technical data – Pneumatic valves, width 20

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

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

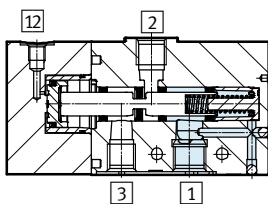
Operating and environmental conditions						
Valve function	M32 ... A M32 ... M	M32C-E M32U-E	M52-A	M52-E M52-M	B52	P53
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)					
Operating pressure [bar]	2.5 ... 10	–0.9 ... +10	2.5 ... 10	–0.9 ... +10	–0.9 ... +10	–0.9 ... +10
Pilot pressure [bar]	2.5 ... 10	2.5 ... 10	2.5 ... 10	2.5 ... 10	1.5 ... 10	2.5 ... 10
Ambient temperature [°C]	–10 ... +60					
Temperature of medium [°C]	–10 ... +60					
Corrosion resistance class CRC ¹⁾	2					

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

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

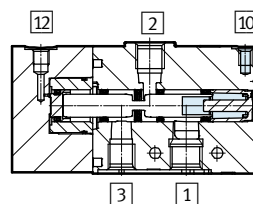
Special features of pneumatic 3/2-way valves

Reset: mechanical spring



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

Reset: pneumatic spring



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

Pneumatic valves VUWS

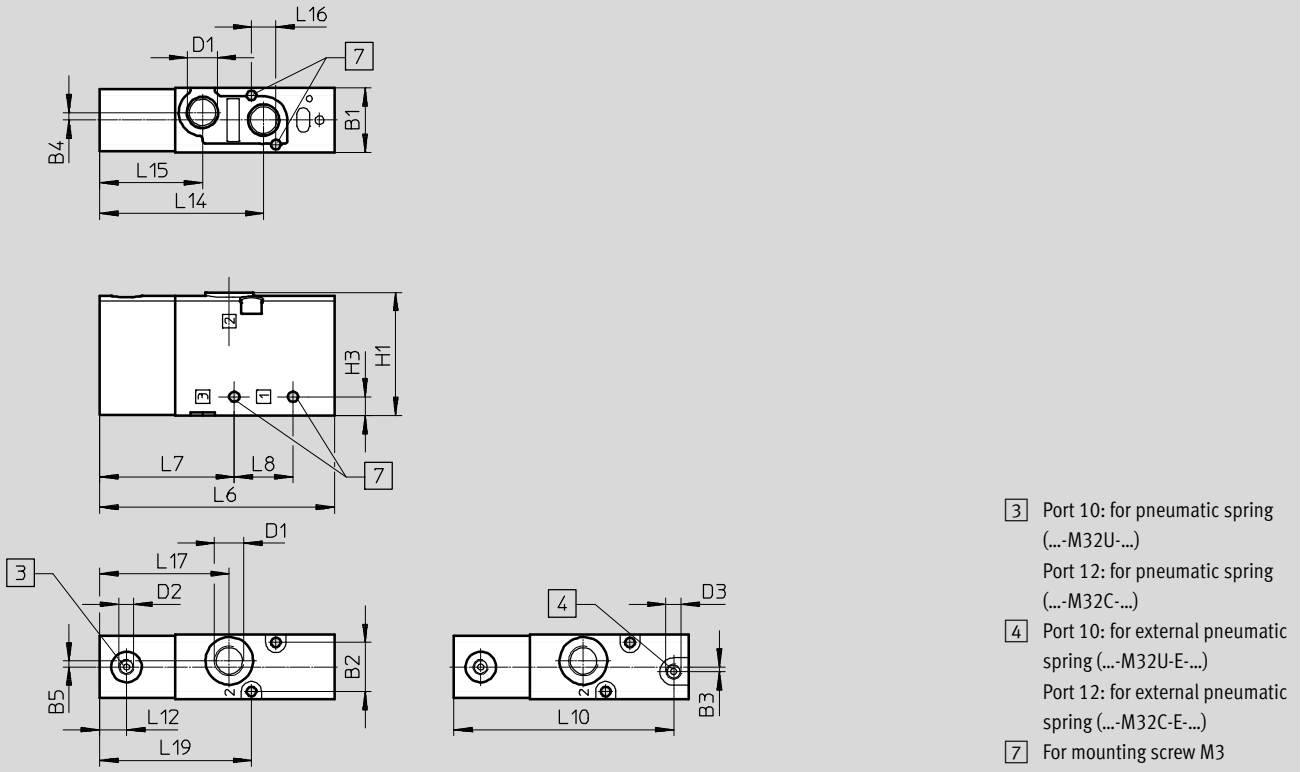
Technical data – Pneumatic valves, width 20

Dimensions

Download CAD data → www.festo.com

3/2-way valve, normally closed/open

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



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

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

Pneumatic valves VUWS

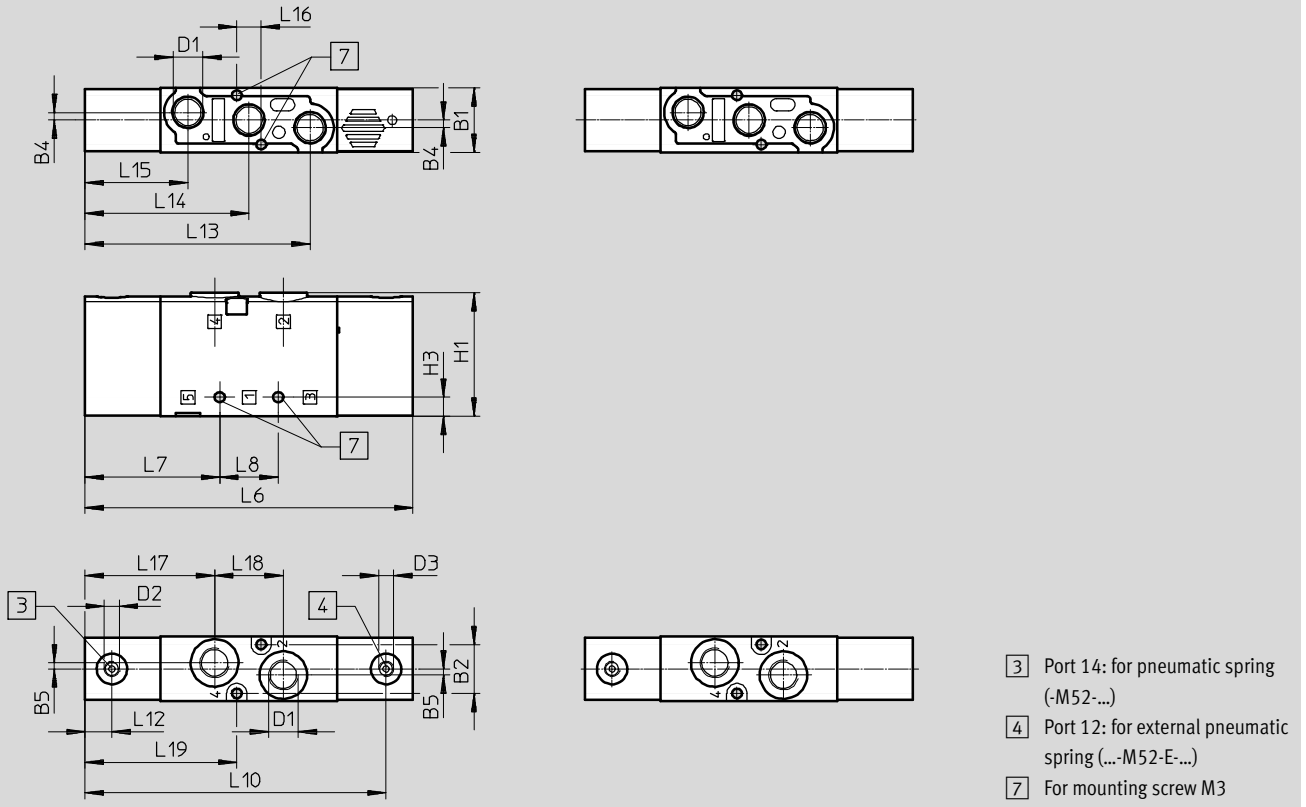
Technical data – Pneumatic valves, width 20

Dimensions

Download CAD data → www.festo.com

5/2-way valve, monostable

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



- 3 Port 14: for pneumatic spring (-M52-...)
- 4 Port 12: for external pneumatic spring (...-M52-E-...)
- 7 For mounting screw M3

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

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

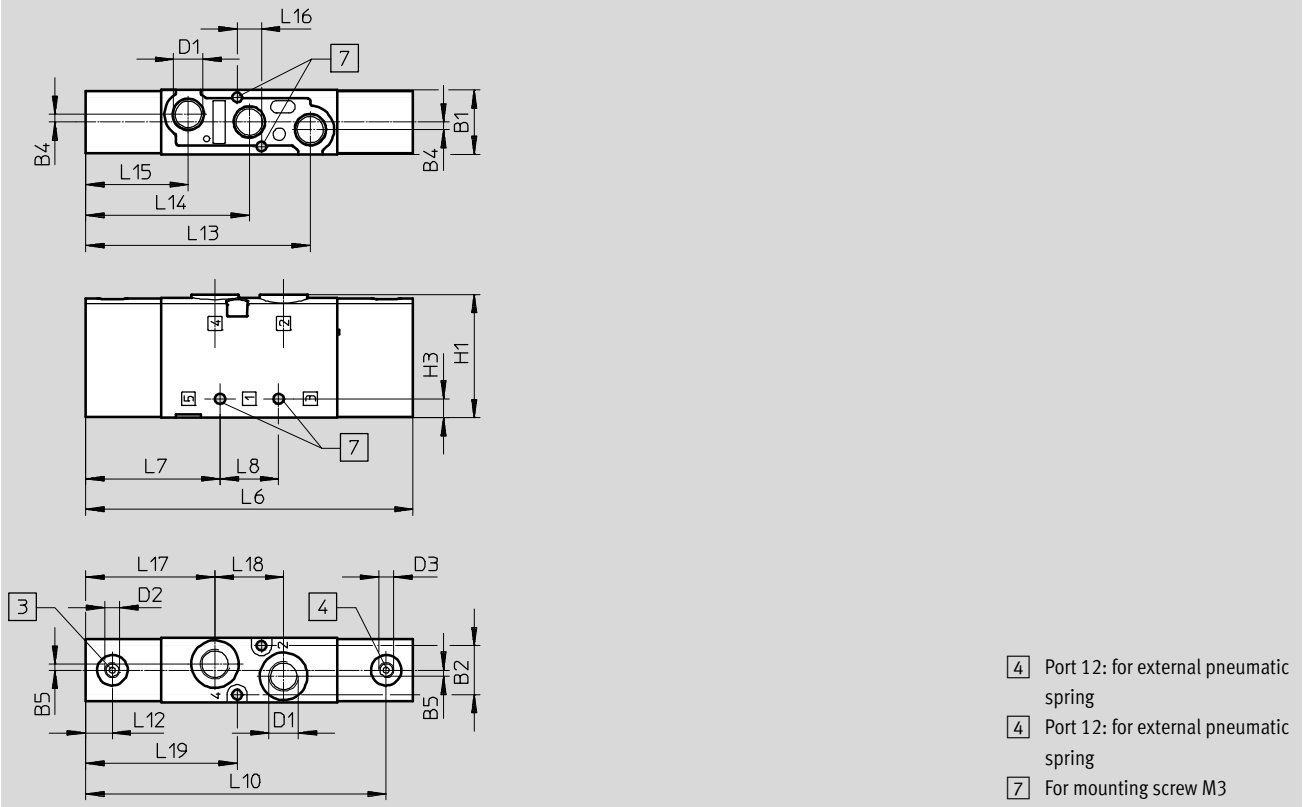
Pneumatic valves VUWS

Technical data – Pneumatic valves, width 20

Dimensions

Download CAD data → www.festo.com

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

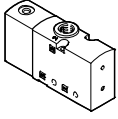
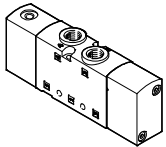
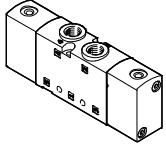


Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L20-P53-...-M-G18	21.1	16.1	2.5	2	G1/8	M5	M5	40.4	6.2
VUWS-L20-B52-G18									

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



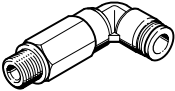
Pneumatic valves VUWS

Ordering data – Pneumatic valves, width 20

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

Pneumatic valves VUWS


Accessories – Pneumatic valves, width 20


Ordering data					
	Description		Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread M5 for tubing O.D.	4 mm	153315	QSM-M5-4-I	10
	Connecting thread G1/8 for tubing O.D.	4 mm	186106	QS-G1/8-4-I	10
		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
Angled push-in fitting with external hex					
	Connecting thread G1/8 for tubing O.D.	4 mm	186116	QSL-G1/8-4	10
			132048	QSL-G1/8-4-100	100
		6 mm	186117	QSL-G1/8-6	10
			132049	QSL-G1/8-6-100	100
		8 mm	186119	QSL-G1/8-8	10
			132050	QSL-G1/8-8-50	50
Angled push-in fitting, long, with external hex					
	Connecting thread G1/8 for tubing O.D.	4 mm	186127	QSLL-G1/8-4	10
			133015	QSLL-G1/8-4-100	100
		6 mm	186128	QSLL-G1/8-6	10
			133016	QSLL-G1/8-6-100	100
		8 mm	186130	QSLL-G1/8-8	10
			133017	QSLL-G1/8-8-100	100

1) Packaging unit

Pneumatic valves VUWS

Technical data – Pneumatic valves, width 25

 Flow rate
Up to 1300 l/min

 Valve width
26.5 mm



General technical data							
Valve function	3/2		5/2		5/3		
Order code for valves	M32C	M32U	M52	B52	P53C	P53U	P53E
Valve width [mm]	26.5						
Design	Piston spool valve						
Pneumatic spring supply	Internal or external (external: identified by E in type code)						
Type of pilot control	Direct						
Manual override (MO)	None						
Direction of flow	Reversible with restrictions (not reversible: identified by A in type code)						
Non-overlapping	Yes						
Sealing principle	Soft						
Type of mounting	Optionally via through-holes ¹⁾ or on manifold rail						
Nominal flow rate [qnN]	1000	1000	1300	1300	1200	1000	1000
Through-holes (nominal width) [mm]	6.3	6.3	6.9	6.9	6.5	6.3	6.3
Product weight [g]	268	268	330/360 ²⁾	363	364	364	364
Actuation type	Pneumatic						
Mounting position	Any						
Exhaust air function	With flow control						
Venting hole	Not ducted						
Pneumatic connection 1, 2, 4, 3, 5	G1/4						
Pneumatic spring connection 12/14, 10	M5						

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

2) With external pneumatic spring: 360 g, with internal pneumatic spring or mechanical spring: 330 g

Technical data – 3/2-way valves					
Order code for valves	M32C			M32U	
Normal position	Closed			Open	
Stable position	Monostable			Monostable	
Reset method	Pneumatic spring		Mechanical spring (supported internally by pneumatic spring)		Mechanical spring (supported internally by pneumatic spring)
Switching times	On	10	10	10	10
	Off	25	43	25	43
	Change-over	–	–	–	–

Pneumatic valves VUWS

Technical data – Pneumatic valves, width 25

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

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

Operating and environmental conditions						
Valve function	M32 ... A	M32 ... E M32 ... M	M52-A	M52-E M52-M	B52	P53
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)					
Operating pressure [bar]	2.5 ... 10	–0.9 ... +10	2.5 ... 10	–0.9 ... +10	–0.9 ... +10	–0.9 ... +10
Pilot pressure [bar]	2.5 ... 10	2.5 ... 10	2.5 ... 10	2.5 ... 10	1.5 ... 10	2.5 ... 10
Ambient temperature [°C]	–10 ... +60					
Temperature of medium [°C]	–10 ... +60					
Corrosion resistance class CRC ¹⁾	2					

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

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

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

Pneumatic valves VUWS

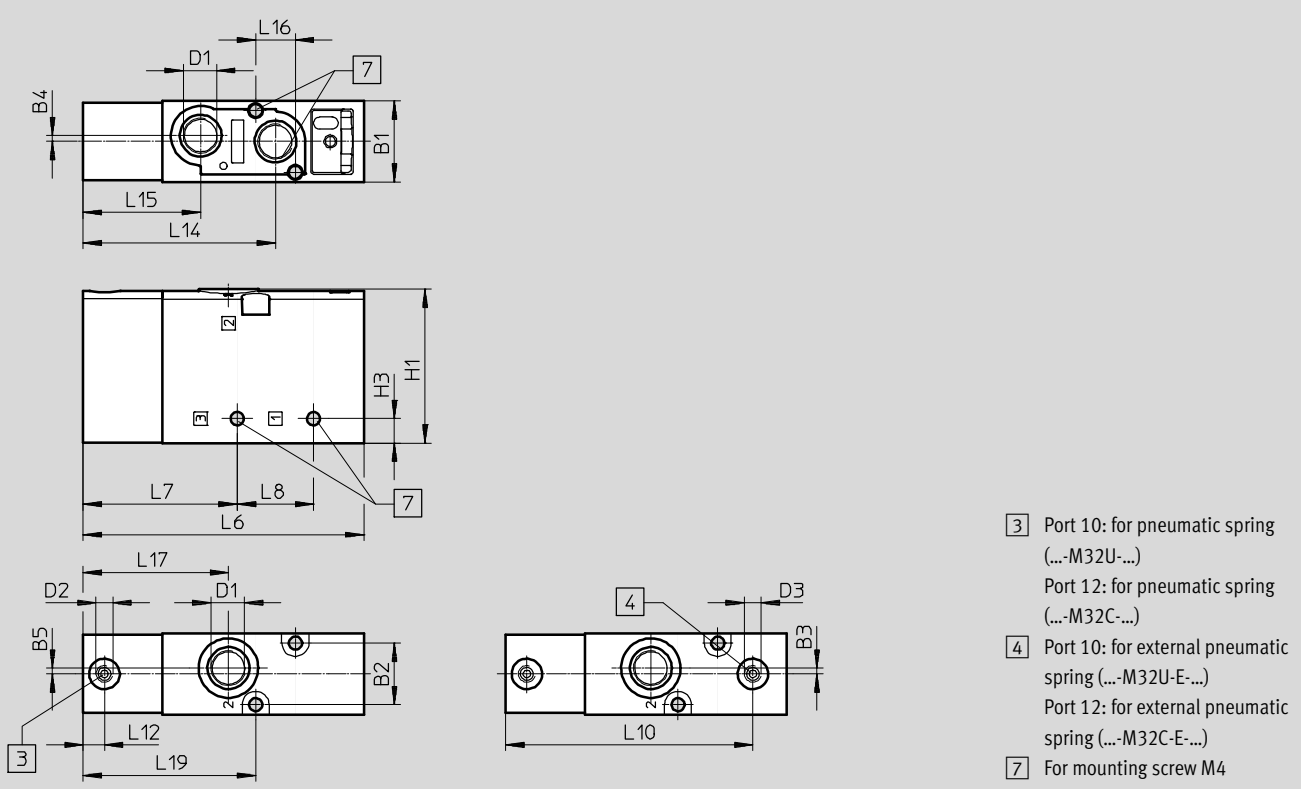
Technical data – Pneumatic valves, width 25

Dimensions

Download CAD data → www.festo.com

3/2-way valve, normally closed/open

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



- 3 Port 10: for pneumatic spring (...-M32U-...)
Port 12: for pneumatic spring (...-M32C-...)
- 4 Port 10: for external pneumatic spring (...-M32U-E-...)
Port 12: for external pneumatic spring (...-M32C-E-...)
- 7 For mounting 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						

Pneumatic valves VUWS

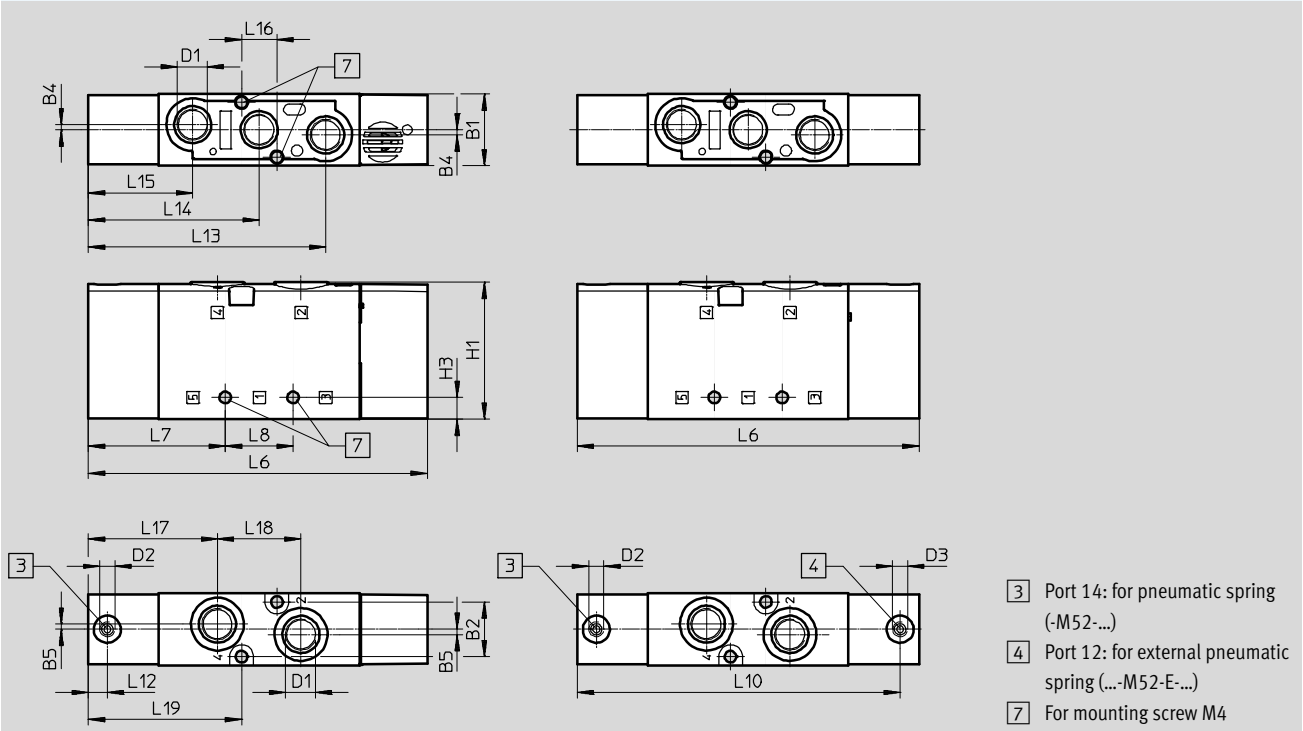
Technical data – Pneumatic valves, width 25

Dimensions

Download CAD data → www.festo.com

5/2-way valve, monostable

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



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

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

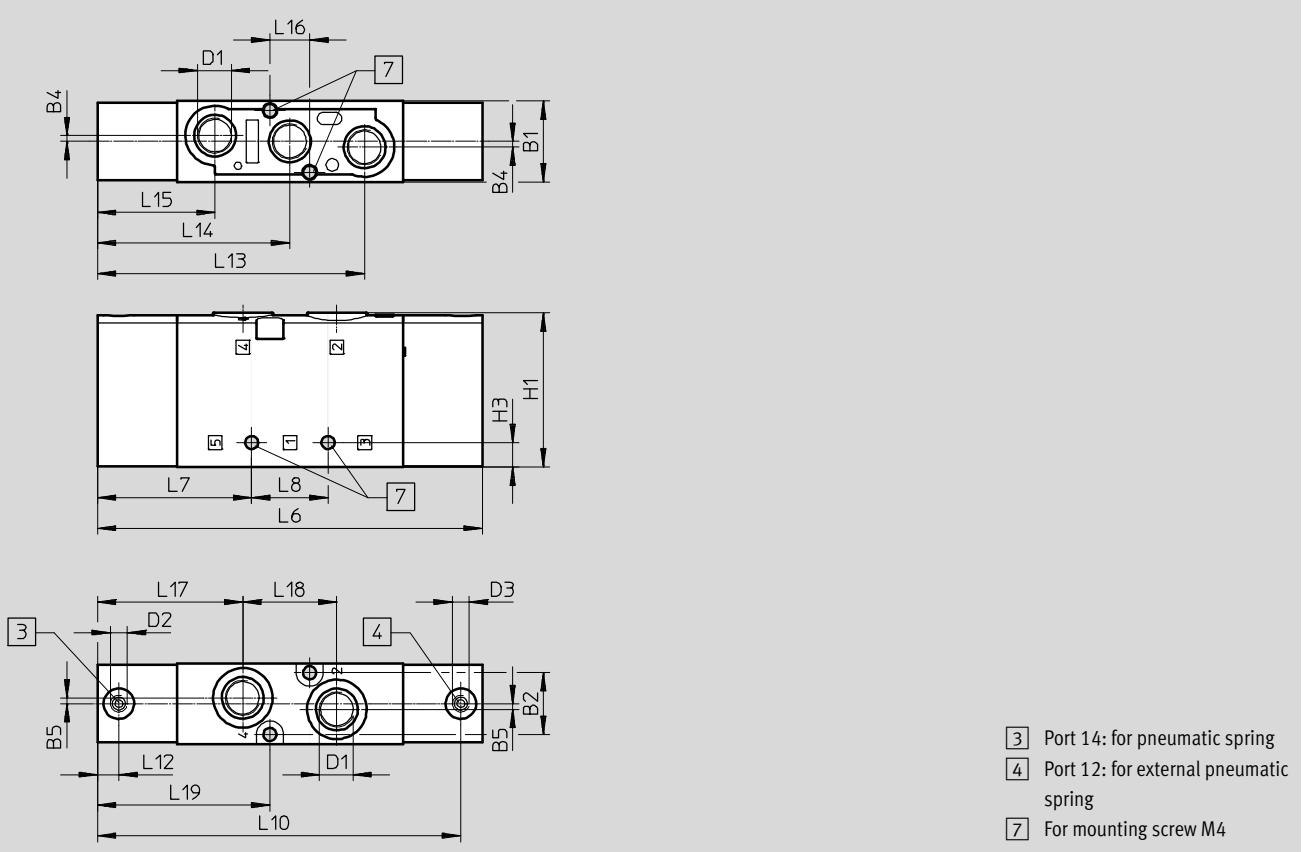
Pneumatic valves VUWS

Technical data – Pneumatic valves, width 25

Dimensions

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

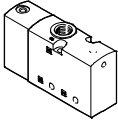
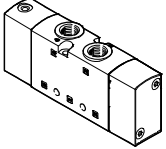
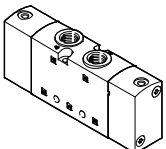


Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L25-P53-...-M-G14	26.5	20.2	1.9	1.9	G1/4	M5	M5	50.5	8
VUWS-L25-B52-G14									

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



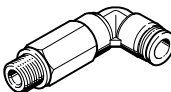
Pneumatic valves VUWS

Ordering data – Pneumatic valves, width 25

Ordering data – Pneumatic valves				
	Code	Valve function	Part No.	Type
Pneumatic valves				
	3/2-way valve, monostable, closed			
	M32C-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575483	VUWS-L25-M32C-A-G14
	M32C-E	Pneumatic spring return, external pneumatic spring, direction of flow reversible	575484	VUWS-L25-M32C-E-G14
	M32C-M	Mechanical spring return, internal pneumatic spring, direction of flow reversible	575485	VUWS-L25-M32C-M-G14
	3/2-way valve, monostable, open			
	M32U-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575498	VUWS-L25-M32U-A-G14
	M32U-E	Pneumatic spring return, external pneumatic spring, direction of flow reversible	575499	VUWS-L25-M32U-E-G14
	M32U-M	Mechanical spring return, internal pneumatic spring, direction of flow reversible	575500	VUWS-L25-M32U-M-G14
		5/2-way valve, monostable		
M52-A		Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575507	VUWS-L25-M52-A-G14
M52-E		Pneumatic spring return, external pneumatic spring, direction of flow reversible	575508	VUWS-L25-M52-E-G14
M52-M		Mechanical spring return, direction of flow reversible	575515	VUWS-L25-M52-M-G14
	5/2-way valve, bistable			
	B52	Direction of flow reversible	575522	VUWS-L25-B52-G14
	5/3-way valve			
	P53C	Closed, mechanical spring return, direction of flow reversible	575529	VUWS-L25-P53C-M-G14
	P53E	Exhausted, mechanical spring return, direction of flow reversible	575543	VUWS-L25-P53E-M-G14
	P53U	Pressurised, mechanical spring return, direction of flow reversible	575536	VUWS-L25-P53U-M-G14

Pneumatic valves VUWS

Accessories – Pneumatic valves, width 25

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

1) Packaging unit

Pneumatic valves VUWS/valve manifold VTUS


Order code – Manifold block

VABM	-	B10	-		-
Valve manifold parts					
Manifold block		VABM			
Valve series					
VUWS		B10			
Valve width					
21 mm				20	
26,5 mm				25	
Connection type					
Supply manifold					-
Manifold block compact					S
Manifold block standard					E
Extension module for standard manifold block					EEE

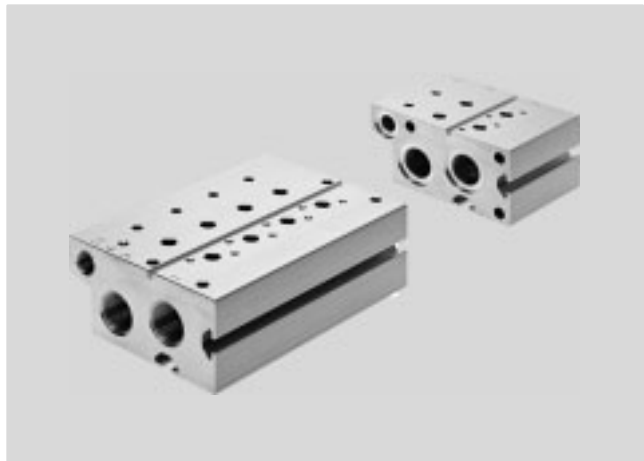
	-		-		-	
Mounting						
E						Supply manifold with mounting on one side
-						Standard mounting
Connection for valve function						
-						Manifold block for 5/2- and 5/3-way valves
P3						Manifold block for 3/2-way valves
P53						Supply manifold
Number of valve positions						
2 ... 10						2 to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

Manifold block VABM

Technical data – Manifold block, width 20

 Flow rate
Up to 700 l/min

 Valve width
21 mm



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

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

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

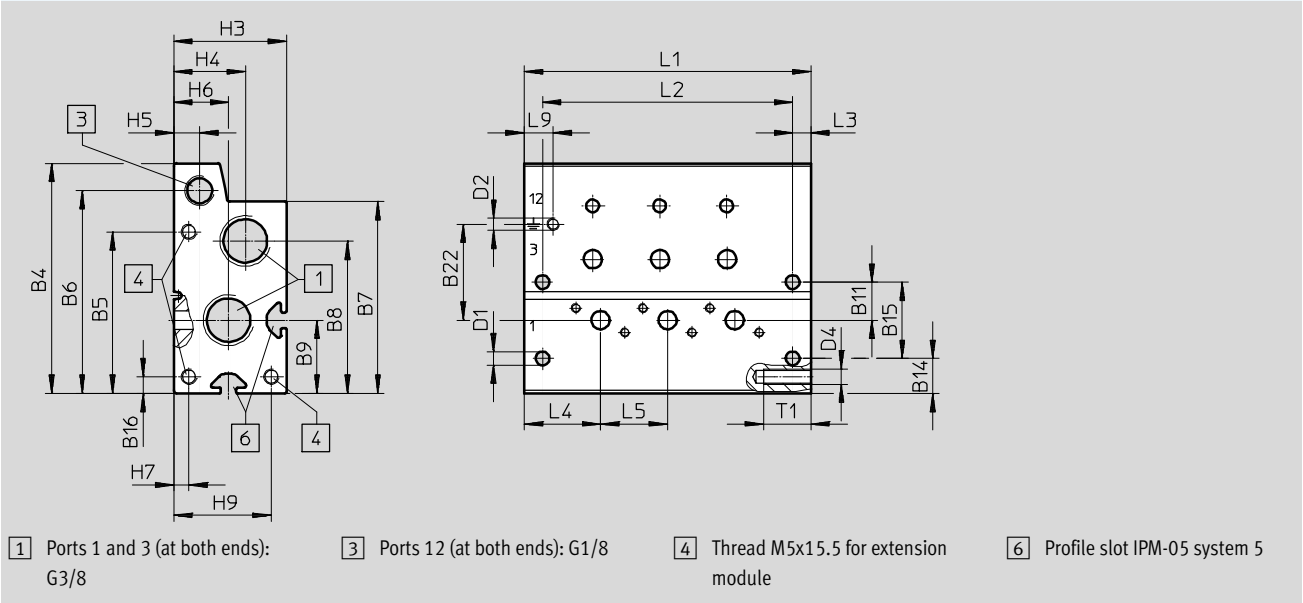
Information on materials	
Materials	Wrought aluminium alloy
Note on materials	RoHS-compliant

Manifold block VABM

Technical data – Manifold block, width 20

Dimensions

Manifold block for 3/2-way valves, standard



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

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

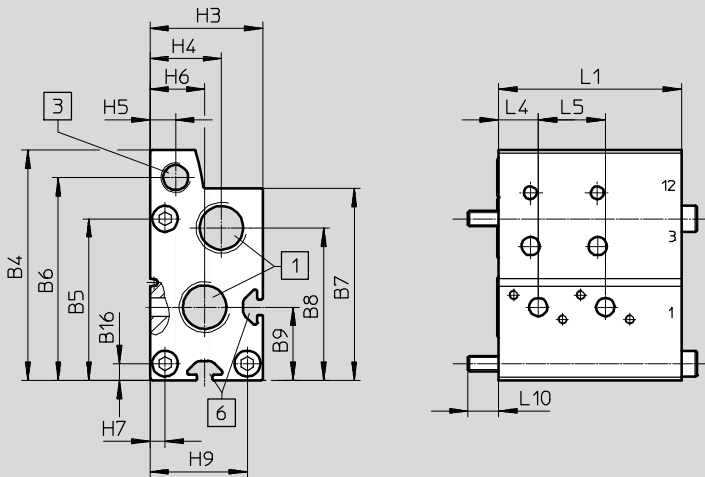
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	72	94	116	138	160	182	204	226	248
L2 [mm]	60	82	104	126	148	170	192	214	236

Manifold block VABM

Technical data – Manifold block, width 20

Dimensions

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



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

Type	B4	B5	B6	B7	B8	B9	B16	H3	H4	H5	H6	H7	H9	L4	L5	L10
VABM-B10-20EEE-G38-2-P3	75.5	53	66.5	63	50	24	5.5	37	23.5	8.5	18	5	32	13	22	10

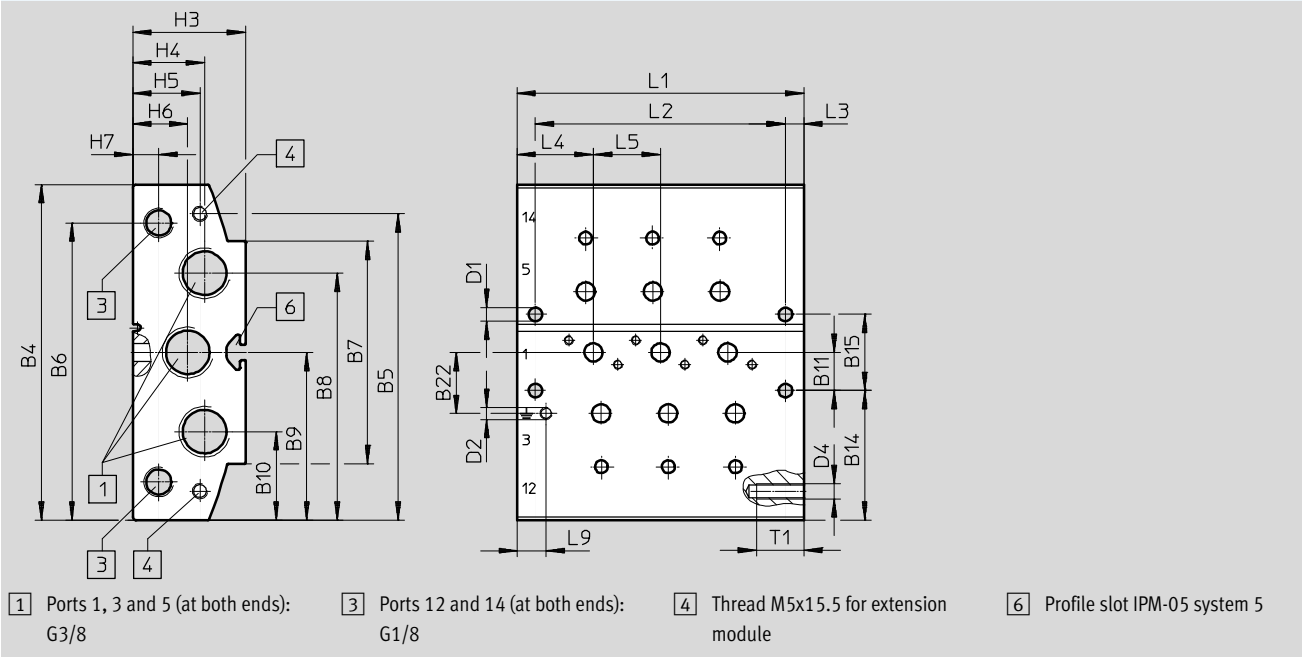
Valve positions	2
L1 [mm]	60

Manifold block VABM

Technical data – Manifold block, width 20

Dimensions

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



Type	B4	B5	B6	B7	B8	B9	B10	B11	B14	B15	B22
VABM-B10-20E-...G38-...	110	100.5	97.5	73	81	55	29	12.5	42.5	25	20

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

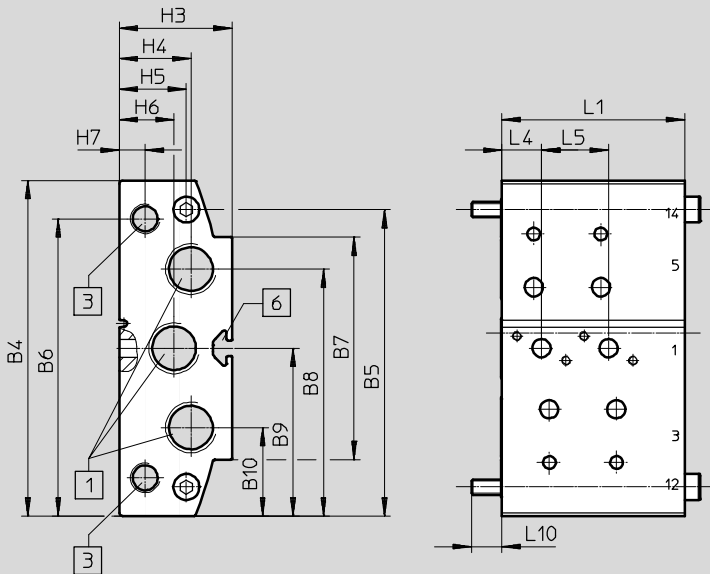
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	72	94	116	138	160	182	204	226	248
L2 [mm]	60	82	104	126	148	170	192	214	236

Manifold block VABM

Technical data – Manifold block, width 20

Dimensions

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



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

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

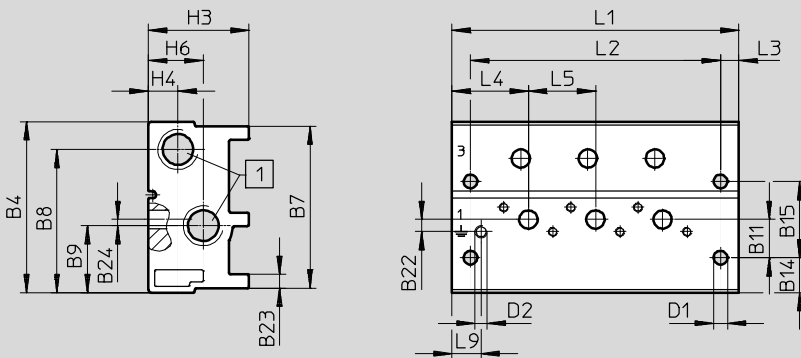
Valve positions	2
L1 [mm]	60

Manifold block VABM

Technical data – Manifold block, width 20

Dimensions

Manifold block for 3/2-way valves, compact



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

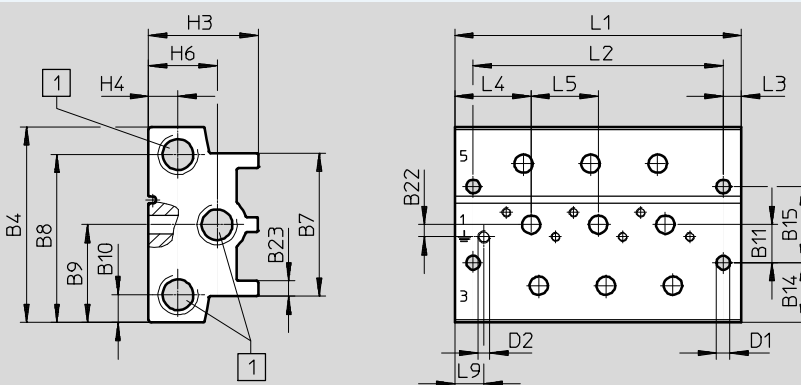
Type	B4	B7	B8	B9	B11	B14	B15	B22	B23	B24
VABM-B10-20S-...G14-...-P3	56.1	53.1	471	22	12.5	11.5	25	4	5	2

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

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

Dimensions

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



1 Ports 1, 3 and 5 (at both ends):
G1/4

Type	B4	B7	B8	B9	B10	B11	B14	B15	B22	B23
VABM-B10-20S-...G14-...	64.2	47	55.1	32.1	9.1	12.5	149.6	25	4	5

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

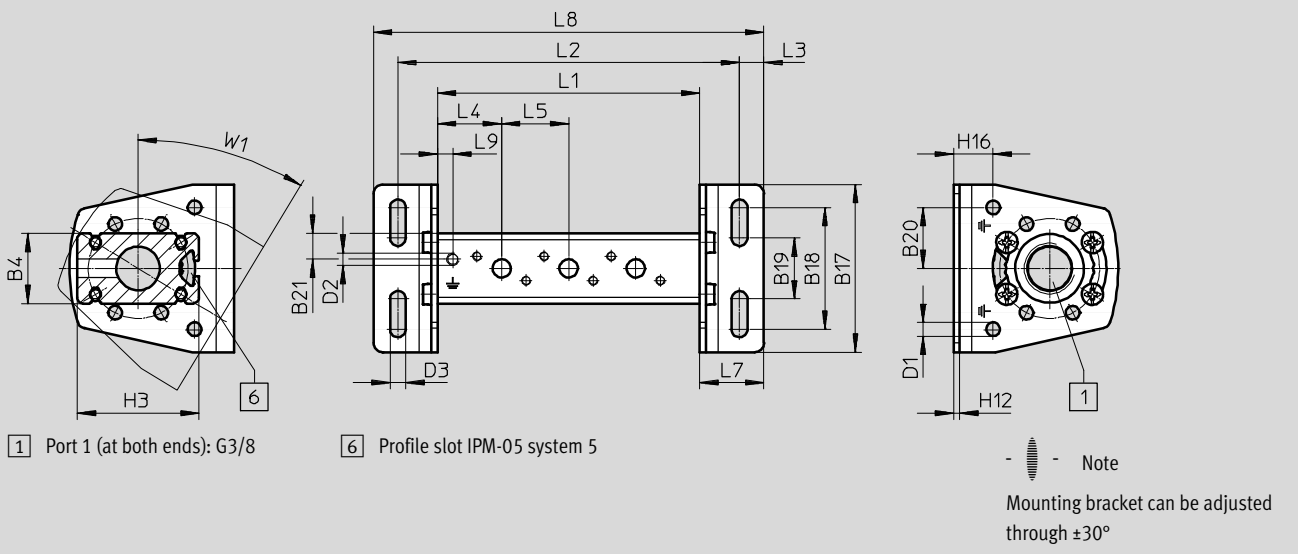
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	72	94	116	138	160	182	204	226	248
L2 [mm]	60	82	104	126	148	170	192	214	236

Manifold block VABM

Technical data – Manifold block, width 20

Dimensions

Supply manifold, mounting on both sides

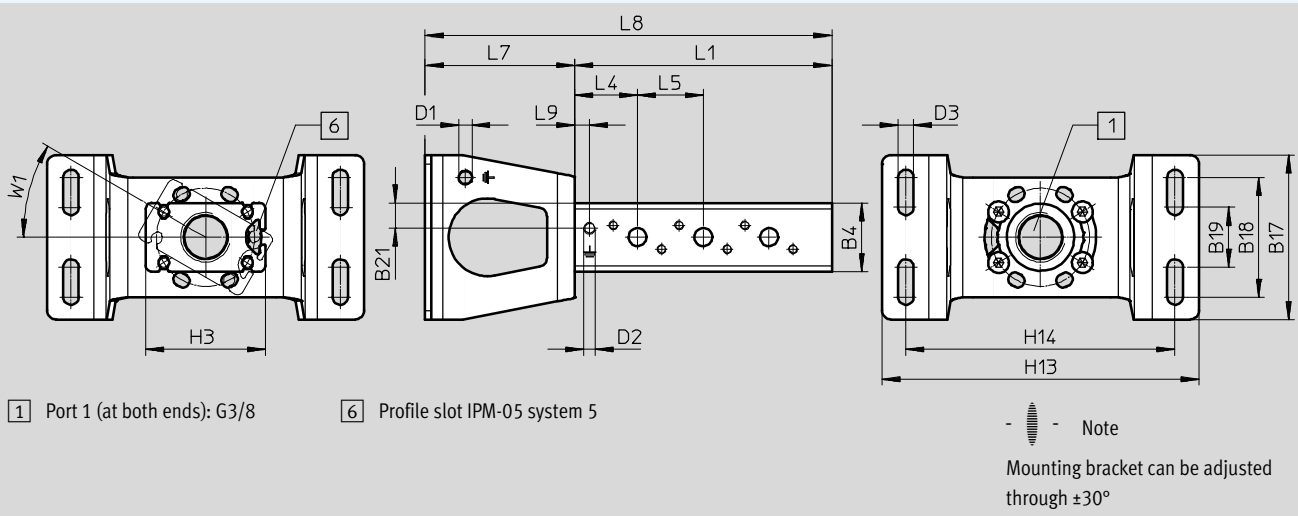


Type	B4	B17	B18	B19	B20	B21	D1 \varnothing	D2	D3 \varnothing	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-20-...G38-...-P53	23	55	40	20	20	8.5	4.5	M4x6.5	5.2	40	2	13	9	21	22	22	5	31.3°

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]	108	130	152	174	196	218	240	262	284

Dimensions

Supply manifold, mounting on one side



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

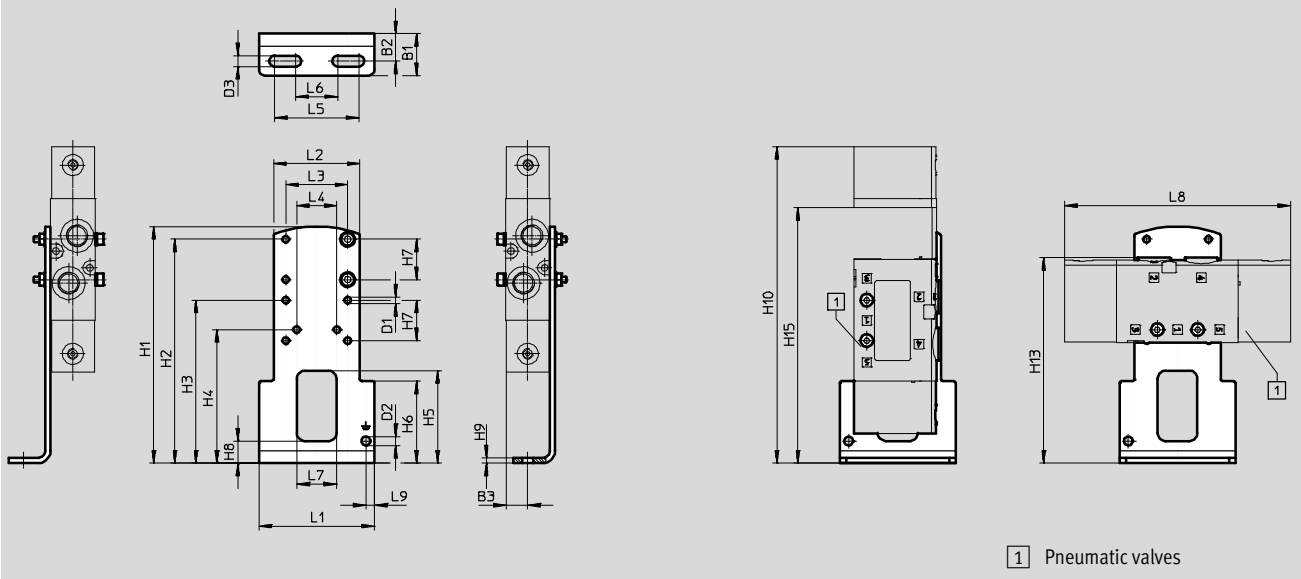
Valve positions	2	3	4
L1 [mm]	64	86	108
L8 [mm]	114	136	158

Manifold block VABM

Technical data – Manifold block, width 20

Dimensions

Foot mounting



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

Type		H6	H7	H8	H9	H10	H11	H12
VAME-B10-20-A	VUWS-L20-B52/P53	39	19.2	10.5	2.5	150.6	97.7	121.6
	VUWS-L20-M52					150.6		
	VUWS-L20-M32					120.2		

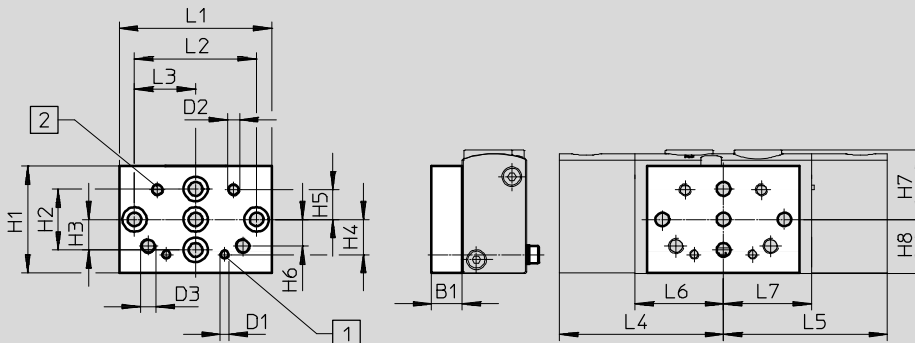
Type		L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-20-A	VUWS-L20-B52/P53	55	41	29.4	19.2	40	20	19	107.4	4.1
	VUWS-L20-M52								107.4	
	VUWS-L20-M32								77	

Manifold block VABM

Technical data – Manifold block, width 20

Dimensions

Wall mounting



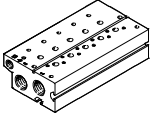
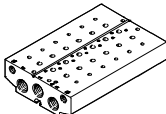
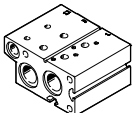
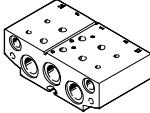
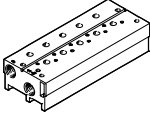
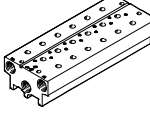
1 Mounting hole for width 20 2 Mounting hole for width 25

Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6	H7	H8
VAME-B10-20-W	VUWS-L20-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7	22.7	17.7
	VUWS-L20-M52												
	VUWS-L20-M32												

Type		L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUWS-L20-B52/P53	50	40	20	53.7	53.7	28.9	53.7
	VUWS-L20-M52				53.7		28.9	
	VUWS-L20-M32				-		23.3	

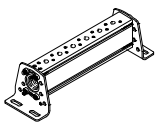
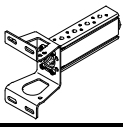
Manifold block VABM

Ordering data – Manifold block, width 20

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

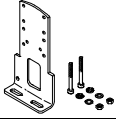
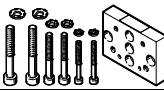

Manifold block VABM

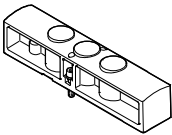
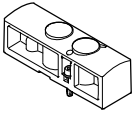

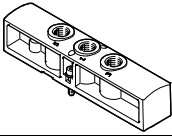
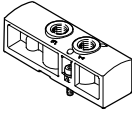

Ordering data – Manifold block, width 20

Ordering data			
Description	Valve positions	Part No.	Type
Supply manifold			
 <p>For mounting on both sides, incl. seals and screws for valve assembly</p>	2	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
	 <p>For mounting on one side, incl. seals and screws for valve assembly</p>	2	576414
3		576415	VABM-B10-20-G38-3-P53-E
4		576416	VABM-B10-20-G38-4-P53-E

Manifold block VABM



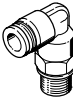

Accessories – Manifold block, width 20

Ordering data			
Description	Weight [g]	Part No.	Type
Foot mounting			
 Set for mounting valves, comprising: <ul style="list-style-type: none"> • Mounting bracket and • Screw set for mounting 	97	576412	VAME-B10-20-A
Wall mounting			
 Set for mounting valves, comprising: <ul style="list-style-type: none"> • Wall mounting and • Screw set for mounting 	53	576413	VAME-B10-20-W
Assortment of spare parts			
 Set comprising: <ul style="list-style-type: none"> • Seals and • Screws 	10	8026203	VAME-B10-20-MK

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

Manifold block VABM


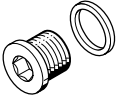

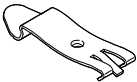
Accessories – Manifold block, width 20

Ordering data					
	Description		Part No.	Type	PU ¹⁾
Push-in fitting with external hex					
	Connecting thread M5 for tubing O.D.	12 mm	186350	QS-G1/4-12	10
	Connecting thread G3/8 for tubing O.D.	16 mm	186347	QS-G3/8-16	1
Push-in fitting with internal hex					
	Connecting thread M5 for tubing O.D.	4 mm	153315	QSM-M5-4-I	10
	Connecting thread G1/8 for tubing O.D.	4 mm	186106	QS-G1/8-4-I	10
			133008	QS-G1/8-4-I-100	100
		6 mm	186107	QS-G1/8-6-I	10
			133009	QS-G1/8-6-I-100	100
		8 mm	186109	QS-G1/8-8-I	10
			133010	QS-G1/8-8-I-100	100
	Connecting thread G1/4 for tubing O.D.	8 mm	186110	QS-G1/4-8-I	10
		10 mm	186112	QS-G1/4-10-I	10
	Connecting thread G3/8 for tubing O.D.	8 mm	186111	QS-G3/8-8-I	10
		10 mm	186113	QS-G3/8-10-I	10
		12 mm	186114	QS-G3/8-12-I	10
Angled push-in fitting with external hex					
	Connecting thread G1/8 for tubing O.D.	4 mm	186116	QSL-G1/8-4	10
			132048	QSL-G1/8-4-100	100
		6 mm	186117	QSL-G1/8-6	10
			132049	QSL-G1/8-6-100	100
		8 mm	186119	QSL-G1/8-8	10
			132050	QSL-G1/8-8-50	50
	Connecting thread G1/4 for tubing O.D.	8 mm	186120	QSL-G1/4-8	10
			132052	QSL-G1/4-8-50	50
		10 mm	186122	QSL-G1/4-10	10
			132053	QSL-G1/4-10-50	50
		12 mm	186351	QSL-G1/4-12	10
			132054	QSL-G1/4-12-20	20
	Connecting thread G3/8 for tubing O.D.	8 mm	186121	QSL-G3/8-8	10
			132055	QSL-G3/8-8-50	50
		10 mm	186123	QSL-G3/8-10	10
132056			QSL-G3/8-10-20	20	
12 mm		186124	QSL-G3/8-12	10	
		132057	QSL-G3/8-12-20	20	
Angled push-in fitting with external hex					
	Connecting thread G1/8 for tubing O.D.	4 mm	186116	QSL-G1/8-4	10
			132048	QSL-G1/8-4-100	100
		6 mm	186117	QSL-G1/8-6	10
			132049	QSL-G1/8-6-100	100
		8 mm	186119	QSL-G1/8-8	10
			132050	QSL-G1/8-8-50	50

1) Packaging unit

Manifold block VABM


Accessories – Manifold block, width 20


Ordering data					
	Description	Part No.	Type	PU ¹⁾	
Silencer					
	With connecting thread G	G1/8	2307	U-1/8	1
			534222	U-1/8-50	50
		G1/4	2316	U-1/4	1
			534223	U-1/4-20	20
		G3/8	6843	U-3/8-B	1
Blanking plug					
	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			
Separator					
	For creating pressure zones	G1/4	569996	VABD-10-B	1
		G3/8	574483	VABD-14-B	1
H-rail mounting					
	For width 20, for mounting on standard H-rails TH 35-7.5 or TH 35-15 to EN 60715	569998	VAME-T-M4	2	

1) Packaging unit

Manifold block VABM

Technical data – Manifold block, width 25

 Flow rate
Up to 1300 l/min

 Valve width
26.5 mm



General technical data								
	Manifold block standard		Extension module for standard manifold block		Manifold block compact		Supply manifold	
							On both sides	On one side
For valves	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2, 5/2, 5/3	
Grid dimension [mm]	27.5							
Type of mounting	With through-hole						With mounting bracket	
Maximum number of valve positions	10	10	2	2	10	10	10	4
Port 1	G1/2	G1/2	G1/2	G1/2	G3/8	G3/8	G1/2	G1/2
Port 3	G1/2	G1/2	G1/2	G1/2	G3/8	G3/8	–	–
Port 5	–	G1/2	–	G1/2	–	G3/8	–	–
Port 12	G1/8	G1/8	G1/8	G1/8	–	–	–	–
Port 14	–	G1/8	–	G1/8	–	–	–	–
CRC ¹⁾	2 ¹⁾							

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

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

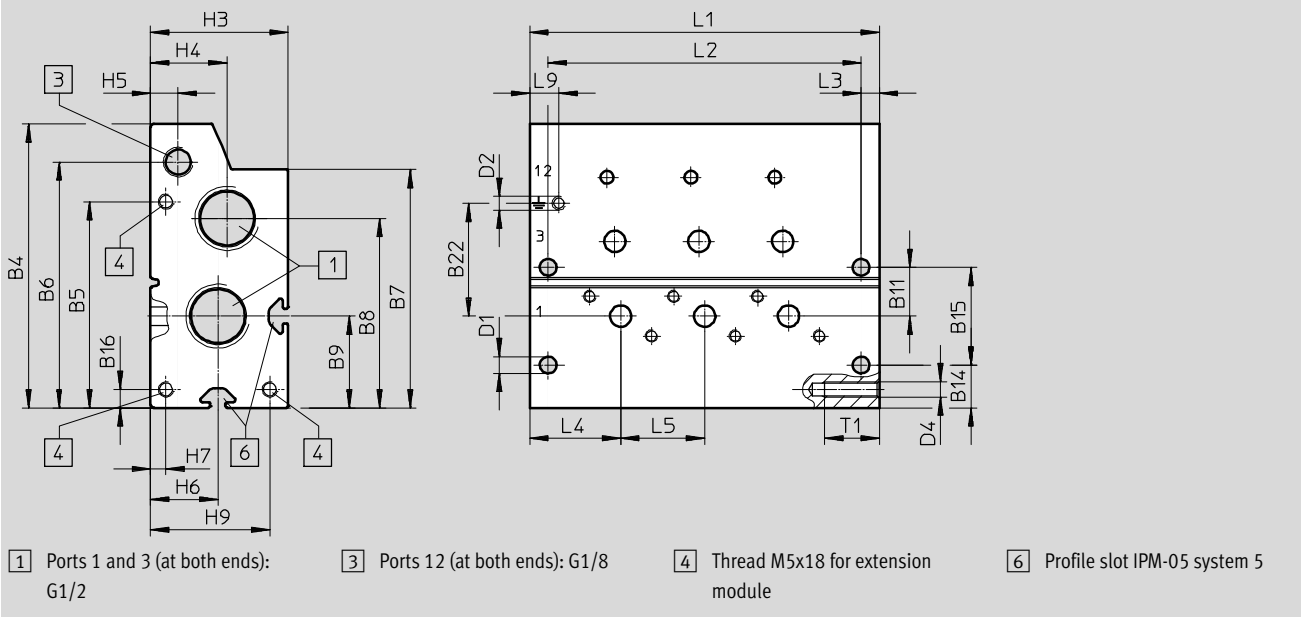
Information on materials	
Materials	Wrought aluminium alloy
Note on materials	RoHS-compliant

Manifold block VABM

Technical data – Manifold block, width 25

Dimensions

Manifold block for 3/2-way valves, standard



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

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

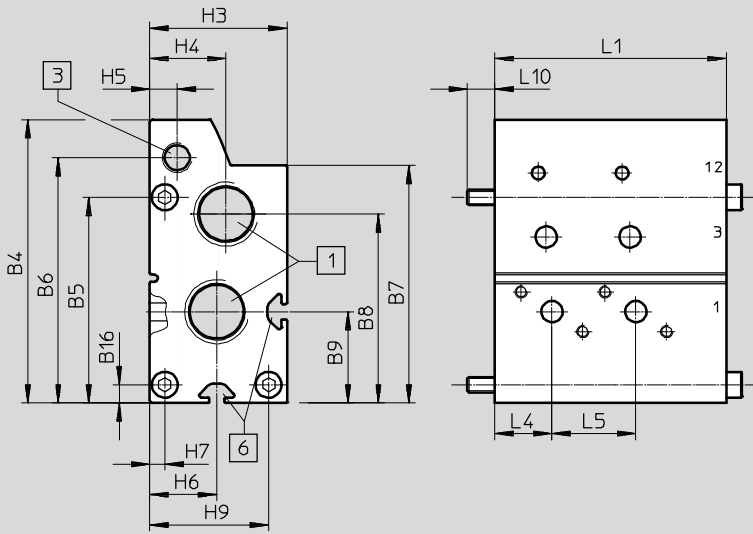
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

Manifold block VABM

Technical data – Manifold block, width 25

Dimensions

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



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

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

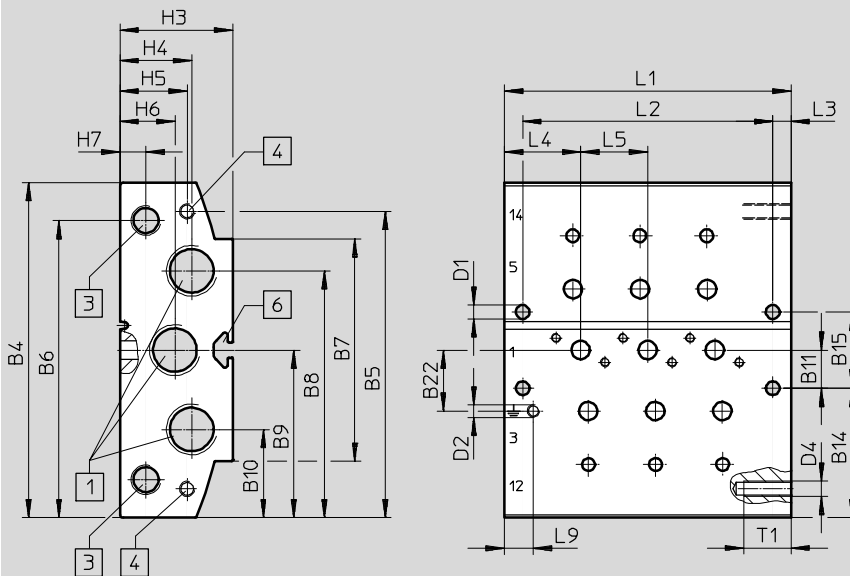
Valve positions	2
L1 [mm]	76

Manifold block VABM

Technical data – Manifold block, width 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

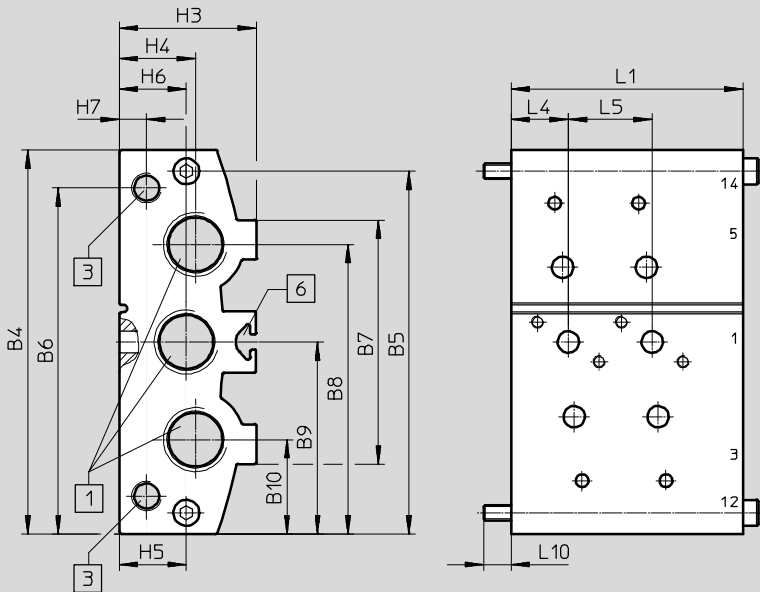
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

Manifold block VABM

Technical data – Manifold block, width 25

Dimensions

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



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

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

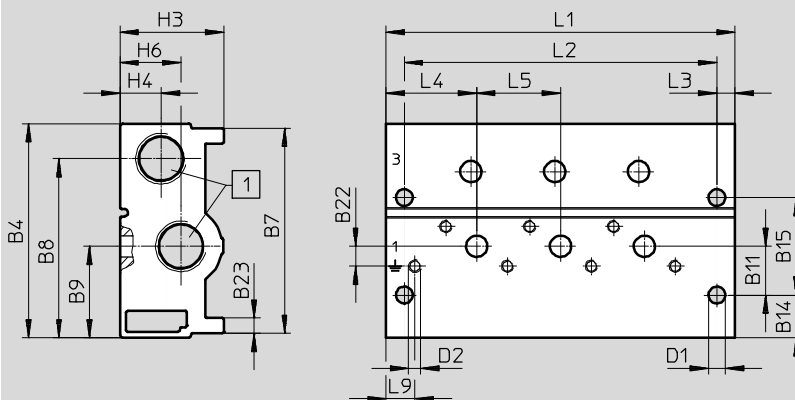
Valve positions	2
L1 [mm]	76

Manifold block VABM

Technical data – Manifold block, width 25

Dimensions

Manifold block for 3/2-way valves, compact



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

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

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

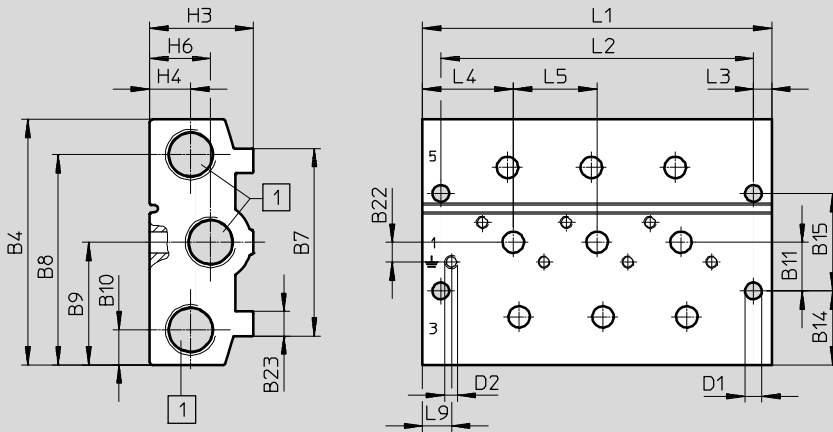
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

Manifold block VABM

Technical data – Manifold block, width 25

Dimensions

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



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

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

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

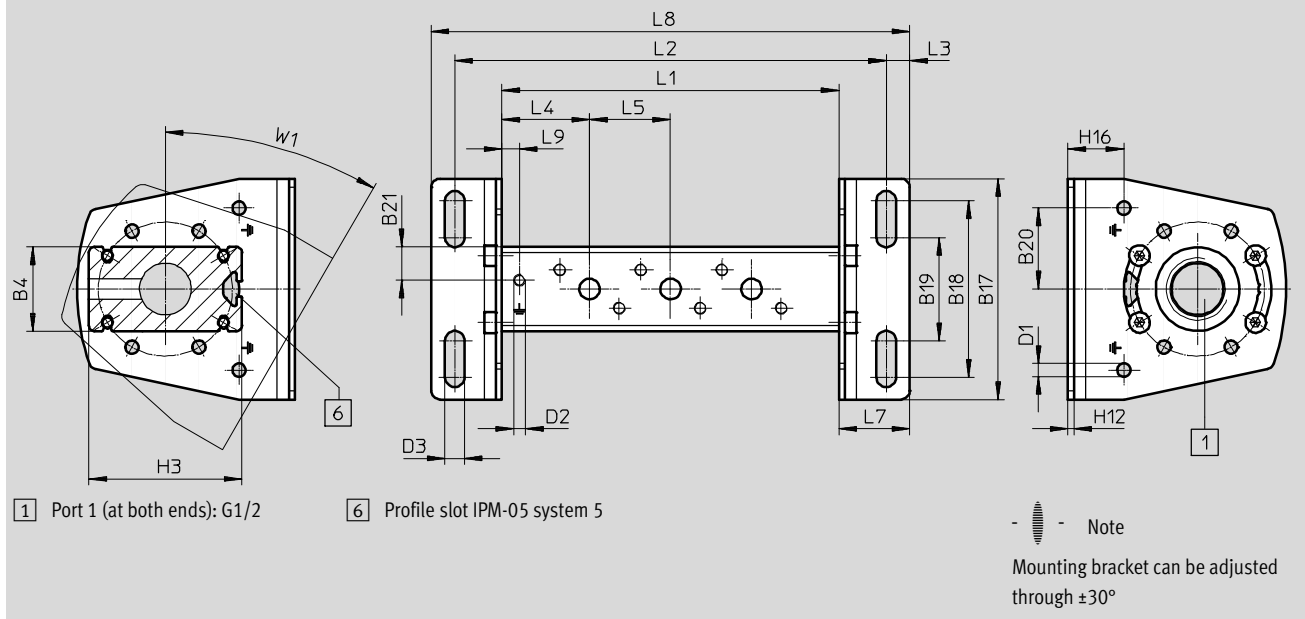
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

Manifold block VABM

Technical data – Manifold block, width 25

Dimensions

Supply manifold, mounting on both sides

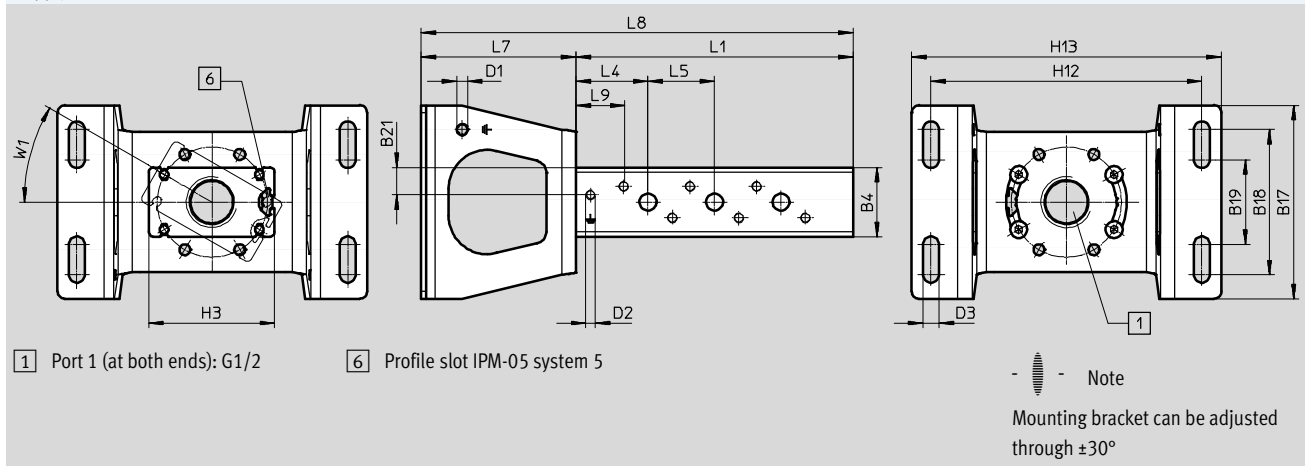


Type	B4	B17	B18	B19	B20	B21	D1 \varnothing	D2	D3 \varnothing	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-25-G12-...-P53	28.7	75	60	35	27.5	11.4	4.5	M4x9	6.6	52	2	19	8	29.8	27.5	24	6	30

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

Dimensions

Supply manifold, mounting on one side



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

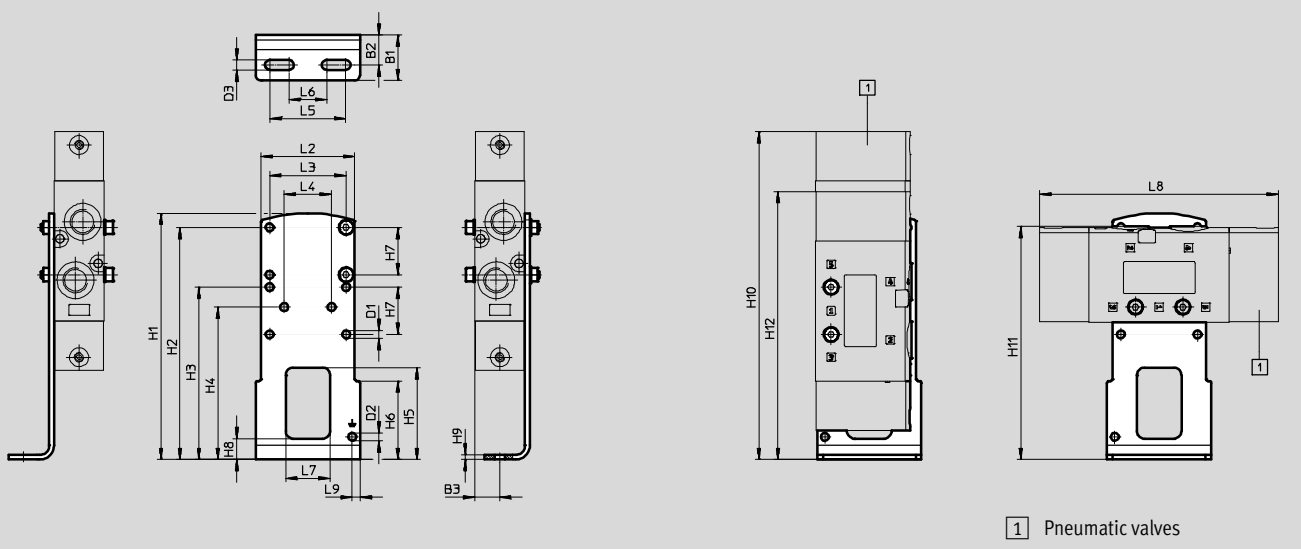
Valve positions	2	3	4
L1 [mm]	87	114.5	142
L8 [mm]	151	178.5	206

Manifold block VABM

Technical data – Manifold block, width 25

Dimensions

Foot mounting



1 Pneumatic valves

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

Type		H6	H7	H8	H9	H10	H11	H12
VAME-B10-25-A	VUWS-L25-B52/P53	41.5	25	11	2.5	173	123	141.5
	VUWS-L25-M52					173		
	VUWS-L25-M32					139		

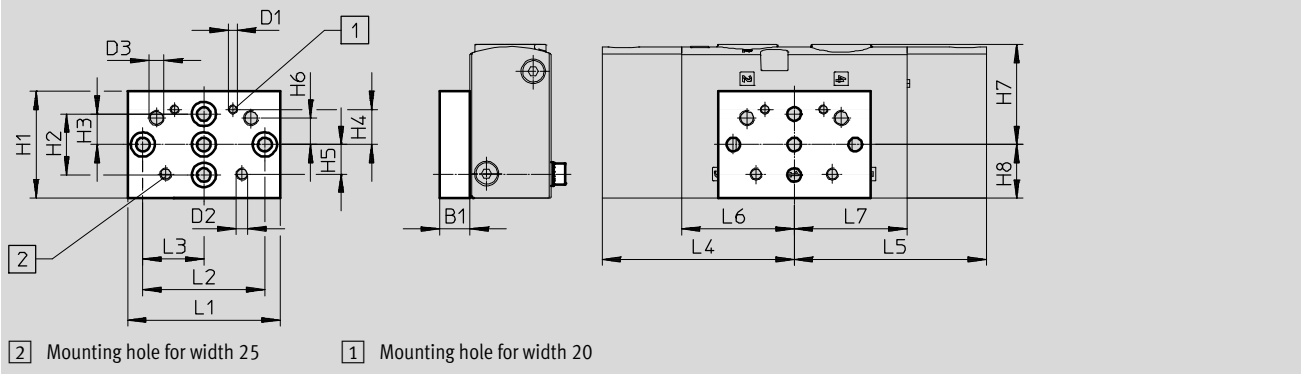
Type		L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-25-A	VUWS-L25-B52/P53	55	49.4	40.4	25	40	20	23.5	126	4.1
	VUWS-L25-M52								126	
	VUWS-L25-M32								92	

Manifold block VABM

Technical data – Manifold block, width 25

Dimensions

Wall mounting

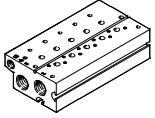
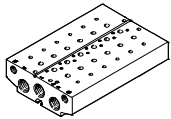
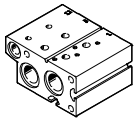
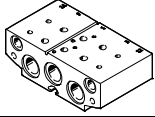
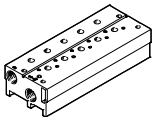
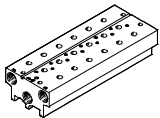


Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6	H7	H8
VAME-B10-20-W	VUWS-L25-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7	32.8	17.7
	VUWS-L25-M52												
	VUWS-L25-M32												

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

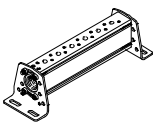
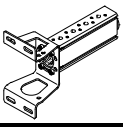
Manifold block VABM

Ordering data – Manifold block, width 25

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

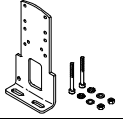
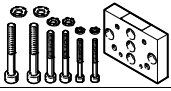
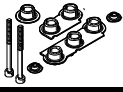
Manifold block VABM

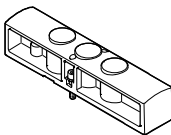
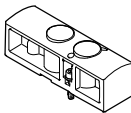

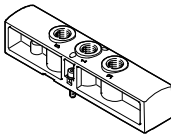
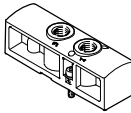

Ordering data – Manifold block, width 25

Ordering data			
Description	Valve positions	Part No.	Type
Supply manifold			
	For mounting on both sides, incl. seals and screws for valve assembly	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 assembly
3	8026238 VABM-B10-25-G12-3-P53-E		
4	8026239 VABM-B10-25-G12-4-P53-E		

Manifold block VABM




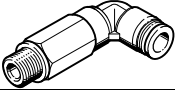
Accessories – Manifold block, width 25

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

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

Manifold block VABM


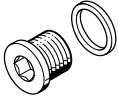

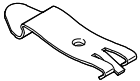
Accessories – Manifold block, width 25

Ordering data					
	Description		Part No.	Type	PU ¹⁾
Push-in fitting with external hex					
	Connecting thread G3/8 for tubing O.D.	16 mm	186347	QS-G3/8-16	1
	Connecting thread G1/2 for tubing O.D.	16 mm	186105	QS-G1/2-16	1
			132047	QS-G1/2-16-20	20
Push-in fitting with internal hex					
	Connecting thread M5 for tubing O.D.	4 mm	153315	QSM-M5-4-I	10
	Connecting thread G1/8 for tubing O.D.	6 mm	186107	QS-G1/8-6-I	10
			133009	QS-G1/8-6-I-100	100
			186108	QS-G1/4-6-I	10
	Connecting thread G1/4 for tubing O.D.	6 mm	186110	QS-G1/4-8-I	10
		8 mm	186112	QS-G1/4-10-I	10
		10 mm	186111	QS-G3/8-8-I	10
	Connecting thread G3/8 for tubing O.D.	8 mm	186113	QS-G3/8-10-I	10
		10 mm	186114	QS-G3/8-12-I	10
		12 mm	186115	QS-G1/2-12-I	1
Angled push-in fitting with external hex					
	Connecting thread G1/4 for tubing O.D.	6 mm	186118	QSL-G1/4-6	10
			132051	QSL-G1/4-6-100	100
		8 mm	186120	QSL-G1/4-8	10
			132052	QSL-G1/4-8-50	50
		10 mm	186122	QSL-G1/4-10	10
			132053	QSL-G1/4-10-50	50
	Connecting thread G3/8 for tubing O.D.	8 mm	186121	QSL-G3/8-8	10
			132055	QSL-G3/8-8-50	50
		10 mm	186123	QSL-G3/8-10	10
			132056	QSL-G3/8-10-20	20
		12 mm	186124	QSL-G3/8-12	10
			132057	QSL-G3/8-12-20	20
	Connecting thread G1/2 for tubing O.D.	12 mm	186348	QSL-G3/8-16	1
			186125	QSL-G1/2-12	1
		16 mm	132058	QSL-G1/2-12-20	20
16 mm	186126	QSL-G1/2-16	1		
	132059	QSL-G1/2-16-20	20		
Angled push-in fitting, long, with external hex					
	Connecting thread G1/4 for tubing O.D.	6 mm	186129	QSL-G1/4-6	10
		8 mm	186131	QSL-G1/4-8	10
		10 mm	186133	QSL-G1/4-10	10

1) Packaging unit

Manifold block VABM

Accessories – Manifold block, width 25

Ordering data					
	Description	Part No.	Type	PU ¹⁾	
Silencer					
	With connecting thread G	G1/4	2316	U-1/4	1
			534223	U-1/4-20	20
		G3/8	6843	U-3/8-B	1
			534224	U-3/8-20	20
		G1/2	6844	U-1/2-B	1
Blanking plug					
	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
Separator					
	For creating pressure zones	G1/8	569995	VABD-8-B	1
		G3/8	574483	VABD-14-B	1
		G1/2	8022483	VABD-17.5-B	1
H-rail mounting					
	For width 25, for mounting on standard H-rails TH 35-7.5 or TH 35-15 to EN 60715	2636436	VAME-T-M5	2	

1) Packaging unit