

Pneumatic valves VUWS/valve manifold assembly VTUS

FESTO



Key features



Innovative

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

Flexible

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

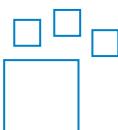
Reliable

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

Easy to install

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

Ordering data – Product options



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

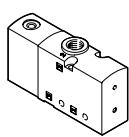
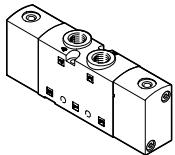
The configurator can be found under Products on the DVD or at
→ [www.festo.com/catalogue/...](http://www.festo.com/catalogue/)

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

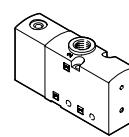
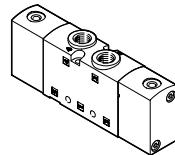
Key features

Pneumatic valves VUWS

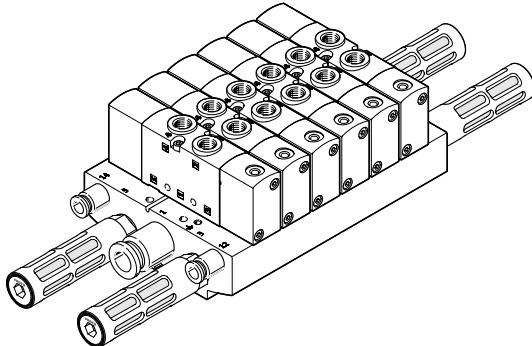
In-line valve VUWS-L as individual valve (piston spool valve)



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



Valve manifold assembly VTUS

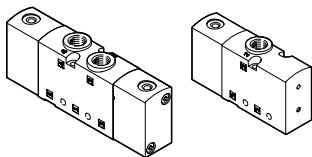


In-line valves are designed to be used without being linked pneumatically. All pneumatic connections are on the valve and can be equipped with fittings/tubing. By using a special seal set, the in-line valves can also be mounted on a manifold rail (pneumatic linking) as semi in-line valves.

Pneumatic valves VUWS have a sturdy design that enables them to be used in harsh environments. Pneumatic valves VUWS are extremely well suited for controlling cylinders or compressed air networks for easy clamping and locking processes in semi-automatic assembly and manufacturing.

Equipment options

VUWS-LT



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

Valve functions VUWS-LT

- 3/2-way valve, normally open, monostable:
- Reset via mechanical spring
 - Flow direction not reversible

- 3/2-way valve, normally closed, monostable:
- Reset via mechanical spring
 - Flow direction not reversible

- 2x 3/2-way valve, normally open, monostable:
- Reset via mechanical spring
 - Flow direction not reversible

- 2x 3/2-way valve, normally closed, monostable:
- Reset via mechanical spring
 - Flow direction not reversible

- 2x 3/2-way valve, 1x normally open, 1x normally closed, monostable:
- Reset via mechanical spring
 - Flow direction not reversible

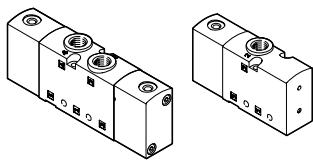
- 5/2-way monostable valve:
- Reset via mechanical spring
 - Flow direction not reversible
 - Can also be used as 3/2-way valve by closing one outlet port

- 5/2-way bistable valve:
- Flow direction not reversible

Key features

Equipment options

VUWS-L



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

Valve functions VUWS-L

- 3/2-way valve, normally open, monostable:
- External pneumatic spring connection (M32U-E)
 - Reset via pneumatic/mechanical spring
 - Flow direction reversible with mechanical spring return or external pneumatic spring connection
 - Dual-pressure operation possible
 - If the external pneumatic spring connection is used as signal input, the result is a dominant bistable valve

5/2-way monostable valve:

- External pneumatic spring connection (M52-E)
- Reset via pneumatic/mechanical spring
- Flow direction reversible with mechanical spring return or external pneumatic spring connection
- Can also be used as 3/2-way valve by closing one outlet port

5/2-way bistable valve:

- Flow direction reversible

5/3-way valve, mid-position

exhausted, pressurised or closed:

- Flow direction reversible
- Reset via mechanical spring

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

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

Key features

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

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

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

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

Design

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.

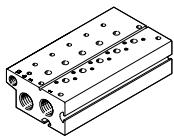
The dimensions, mounting points and existing pneumatic installations remain unchanged.

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

Key features

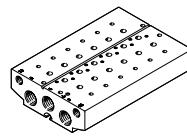
Standard manifold block

For 3/2-way valves



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

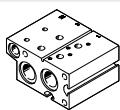
For 5/2- and 5/3-way valves



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

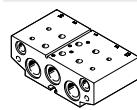
Extension for standard manifold block

For 3/2-way valves



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

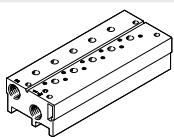
For 5/2- and 5/3-way valves



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

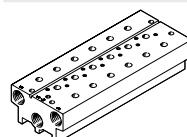
Compact manifold block

For 3/2-way valves



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

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



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

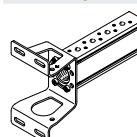
Common supply manifold

Mounting on both sides



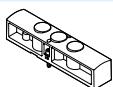
- Connection:
Size 20: G3/8
Size 25: G1/2
Size 30: G3/4
- Maximum 10 valve positions

Mounting on one side



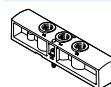
- Connection:
Size 20: G3/8
Size 25: G1/2
Size 30: G3/4
- Maximum 4 valve positions

Cover plate for vacant position



For covering unused valve positions

Supply plate



For additional air supply and exhaust via a valve position

Separator for pressure zones



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

Note

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

Key features – Pneumatic components

Creating pressure zones and separating exhaust air

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

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

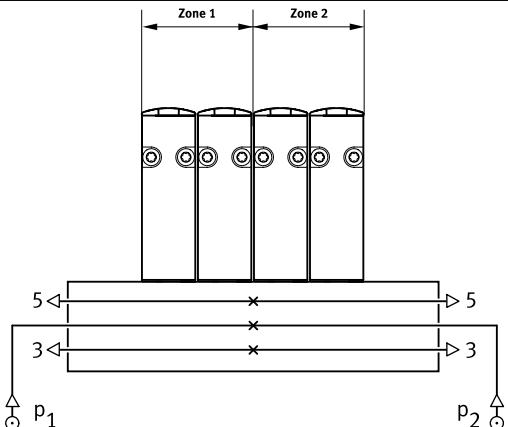
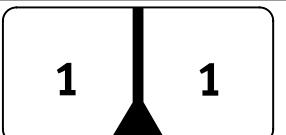
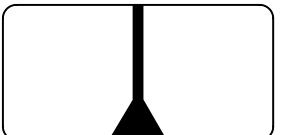
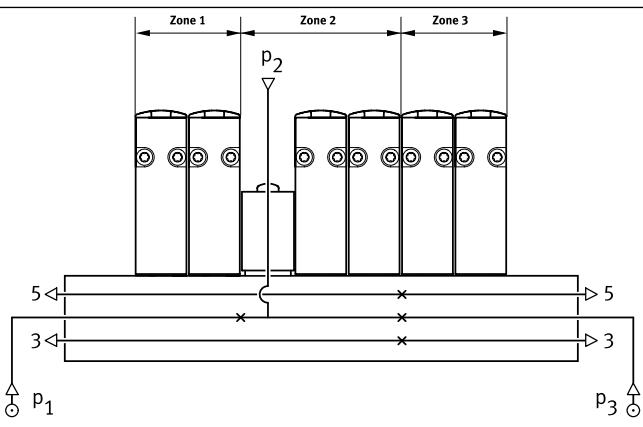
A pressure zone is created by isolating the internal ducts between the valve positions with an appropriate separator.

The separator can be used in the following ducts:

- Duct 1
- Duct 3
- Duct 5

 **Note**

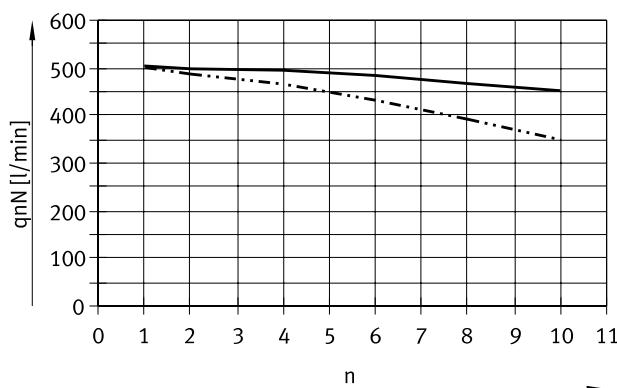
- Use a separator if the exhaust air pressures are high
- Use at least one supply plate/supply for each pressure zone

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

Key features – Pneumatic components VUWS-LT

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

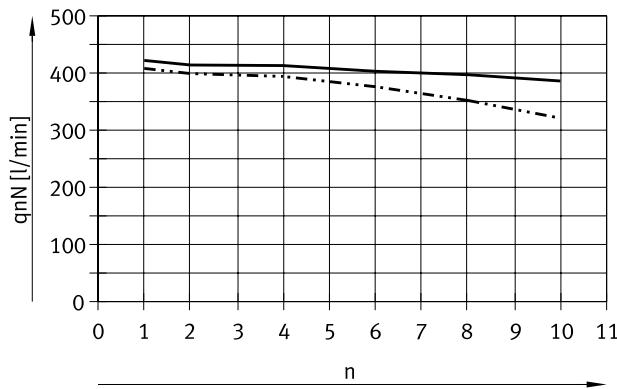
For 3/2-way valves



— Standard nominal flow rate per valve on standard manifold rail

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

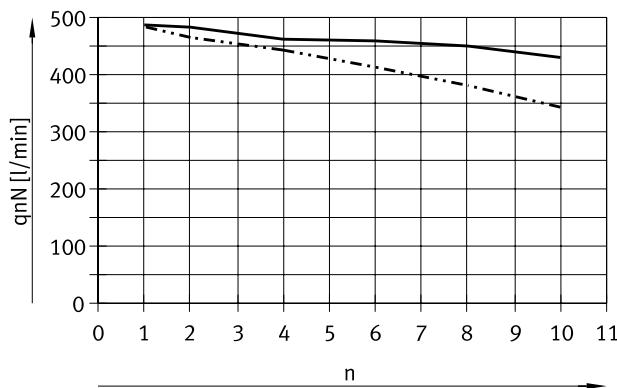
For 5/2-way valves, flow direction 1→2



— Standard nominal flow rate per valve on standard manifold rail

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

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



— Standard nominal flow rate per valve on standard manifold rail

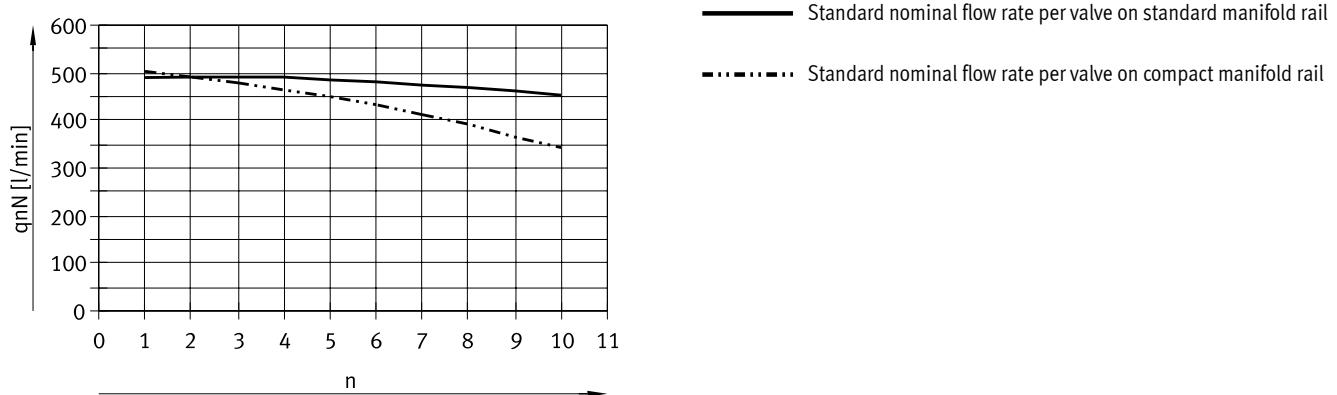
- - - - Standard nominal flow rate per valve on compact manifold rail

Key features – Pneumatic components VUWS-LT

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

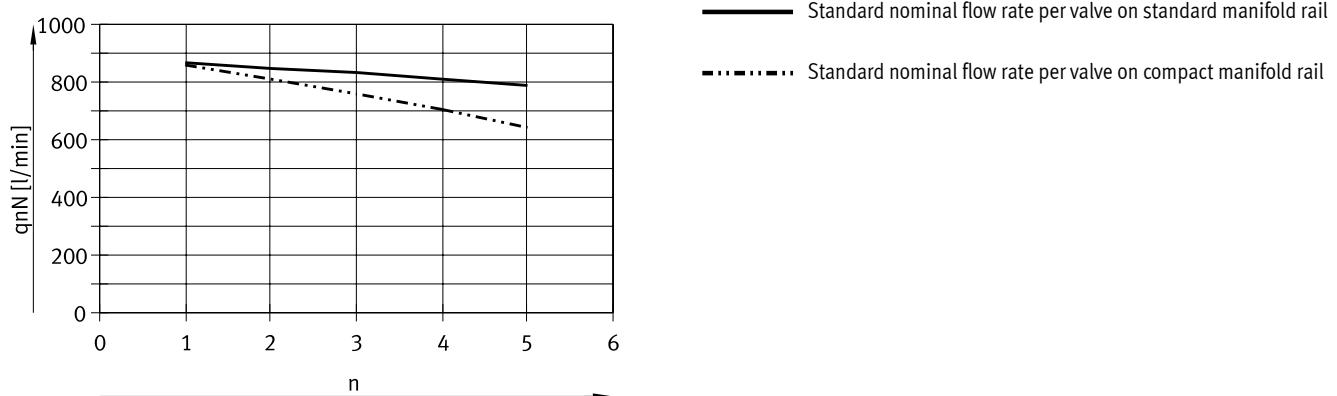
For 2x 3/2-way valves

One valve function per valve position in open switching position



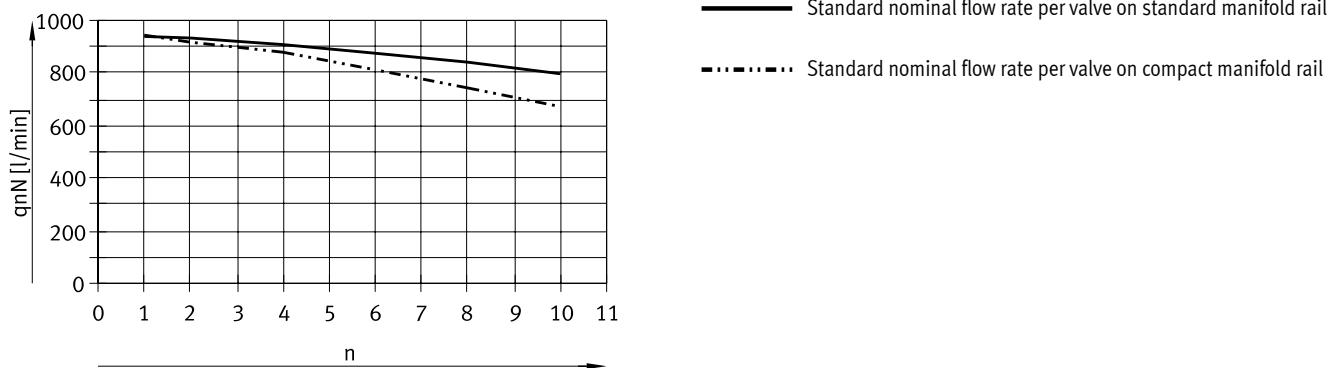
For 2x 3/2-way valves

Both valve functions per valve position simultaneously in open switching position

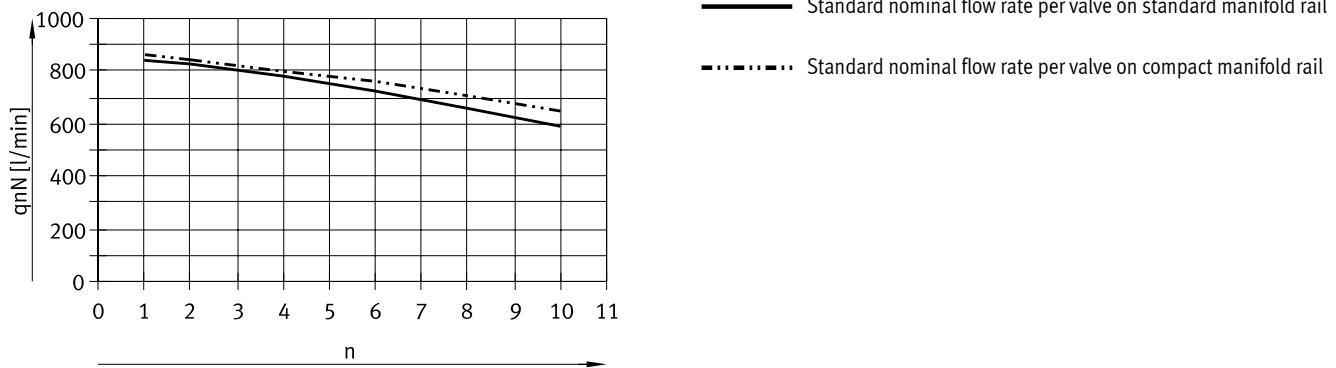


Key features – Pneumatic components VUWS-LT

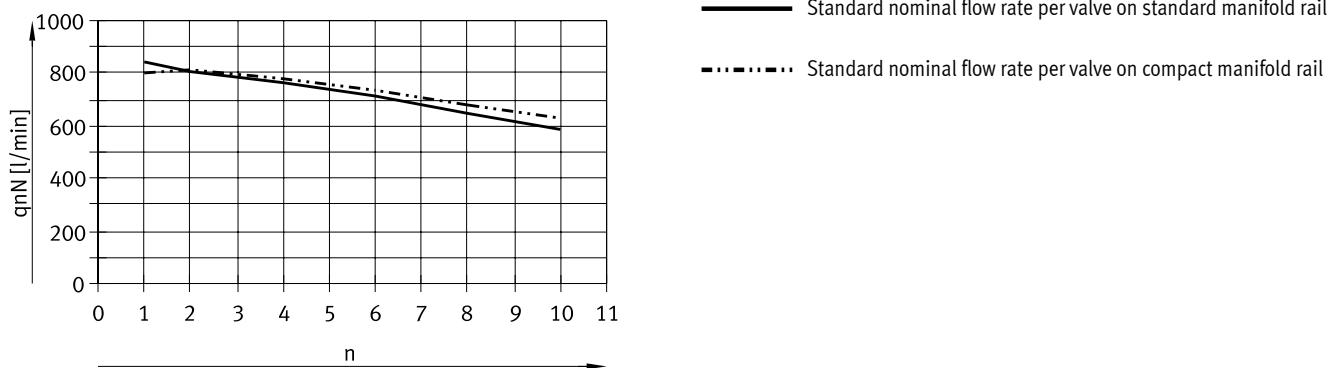
Size 25 – Standard nominal flow rate q_{nN} , with several valves n switched in parallel
For 3/2-way valves



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



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

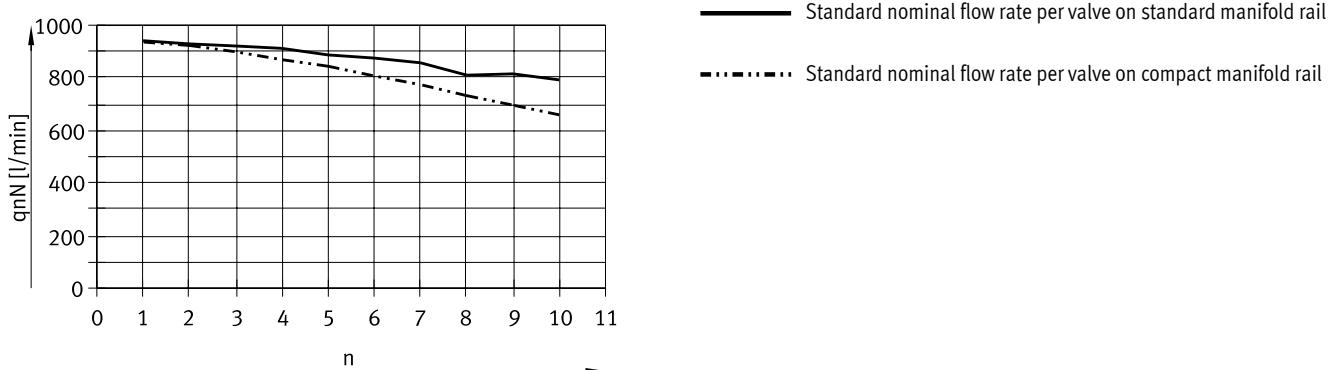


Key features – Pneumatic components VUWS-LT

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

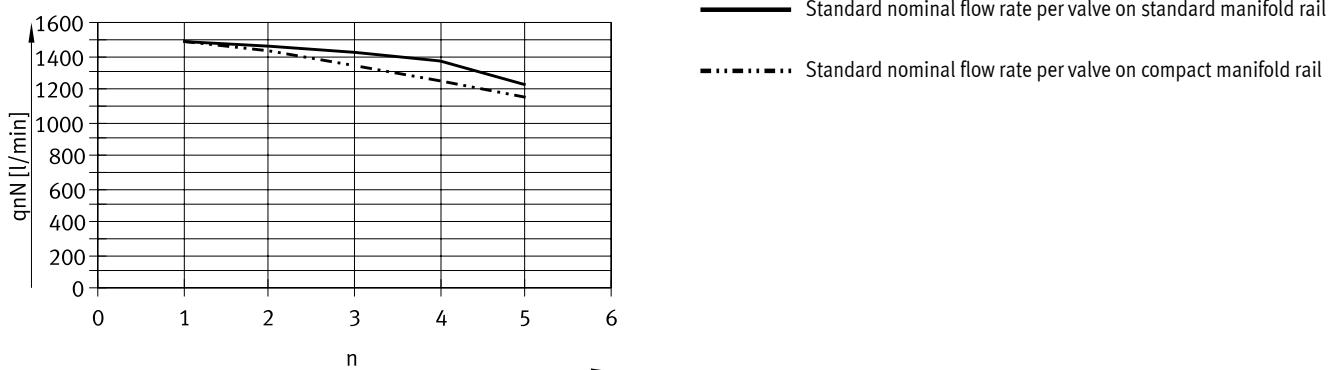
For 2x 3/2-way valves

One valve function per valve position in open switching position



For 2x 3/2-way valves

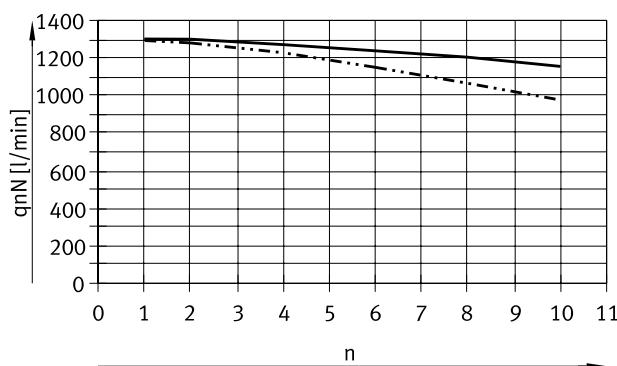
Both valve functions per valve position simultaneously in open switching position



Key features – Pneumatic components VUWS-LT

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

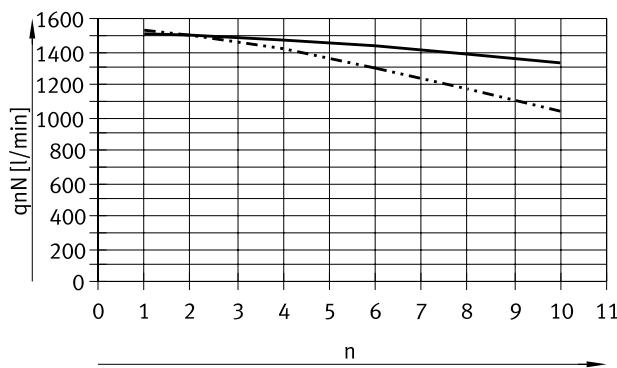
For 3/2-way valves



— Standard nominal flow rate per valve on standard manifold rail

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

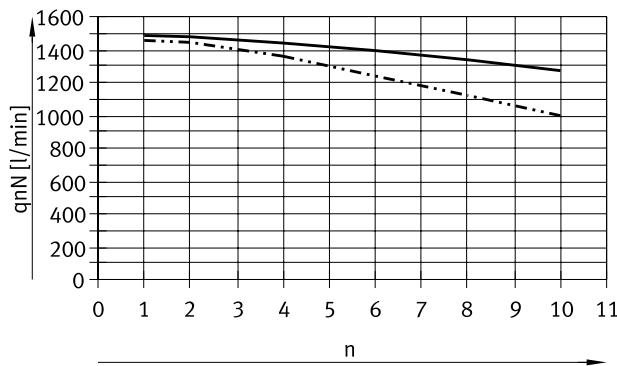
For 5/2-way valves, flow direction 1 → 2



— Standard nominal flow rate per valve on standard manifold rail

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

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



— Standard nominal flow rate per valve on standard manifold rail

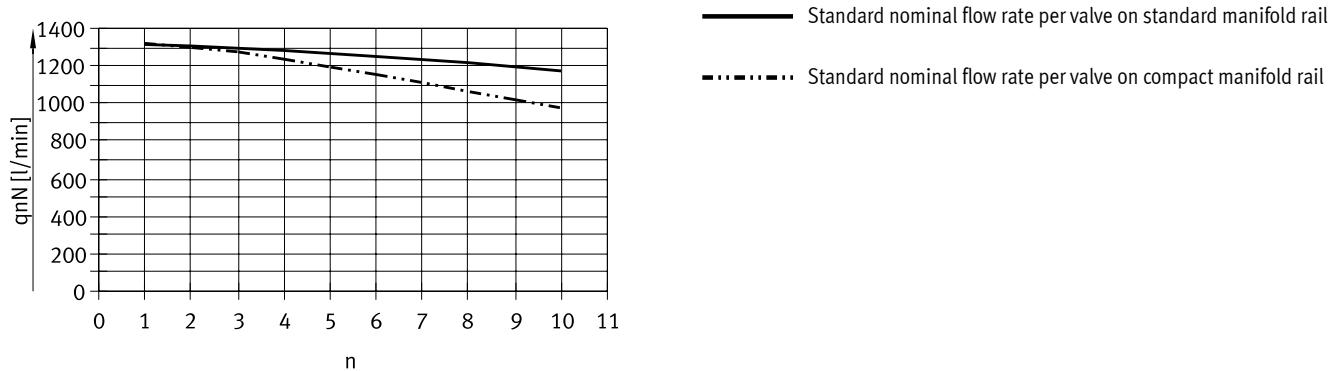
- - - - Standard nominal flow rate per valve on compact manifold rail

Key features – Pneumatic components VUWS-LT

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

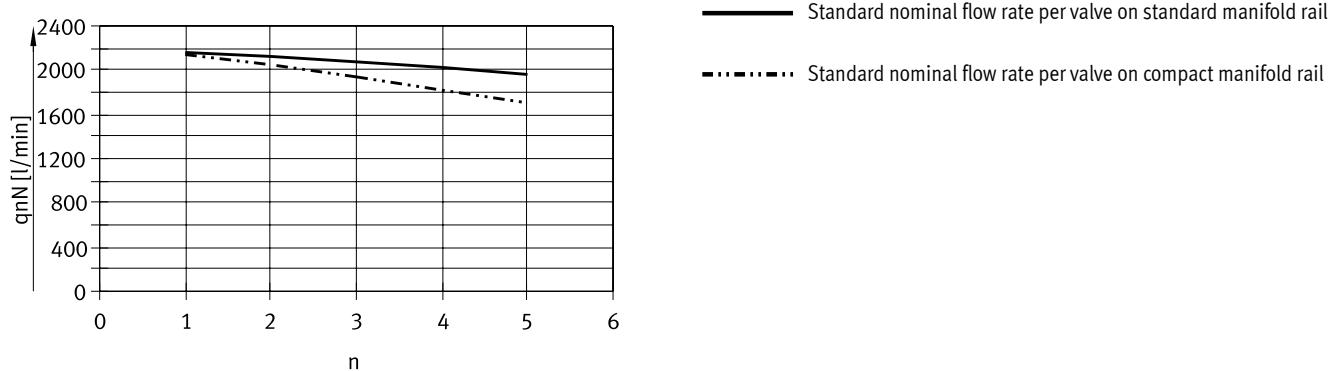
For 2x 3/2-way valves

One valve function per valve position in open switching position



For 2x 3/2-way valves

Both valve functions per valve position simultaneously in open switching position

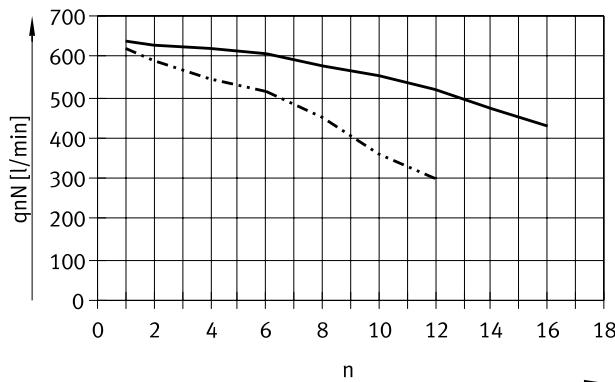


Key features – Pneumatic components VUWS-L

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

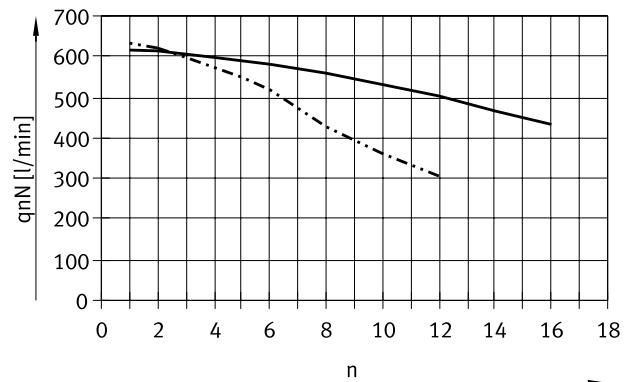
For 3/2-way valves

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



— Standard nominal flow rate per valve on standard manifold rail

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



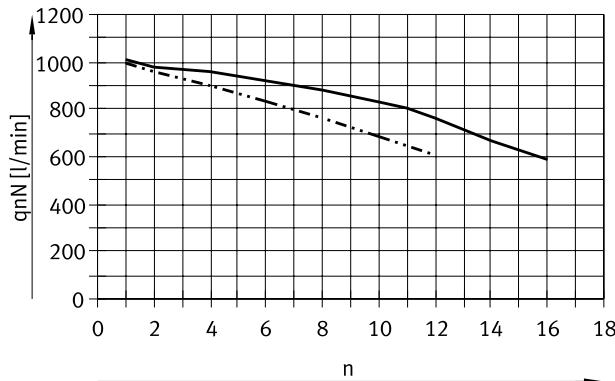
— Standard nominal flow rate per valve on standard manifold rail

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

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

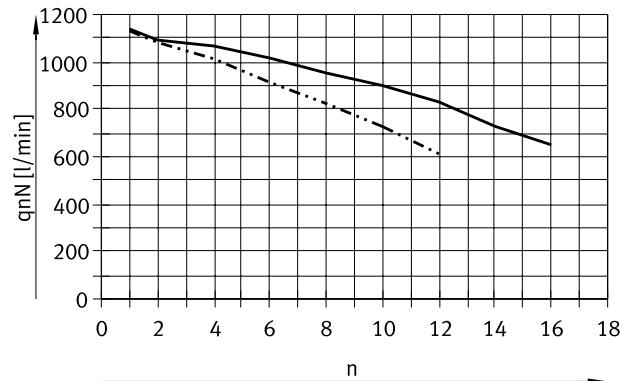
For 3/2-way valves

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



— Standard nominal flow rate per valve on standard manifold rail

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



— Standard nominal flow rate per valve on standard manifold rail

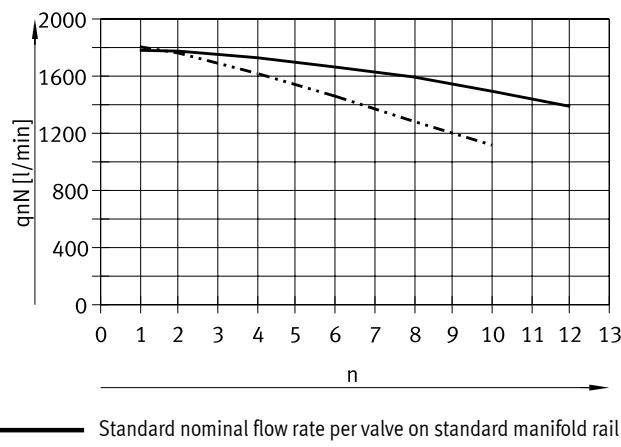
- - - - Standard nominal flow rate per valve on compact manifold rail

Key features – Pneumatic components VUWS-L

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

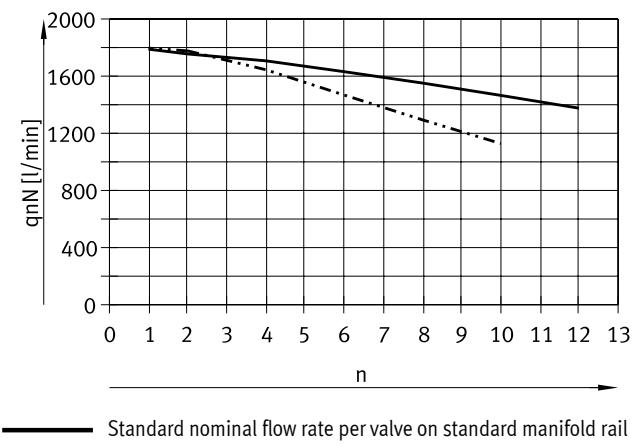
For 3/2-way valves

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



— Standard nominal flow rate per valve on standard manifold rail

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



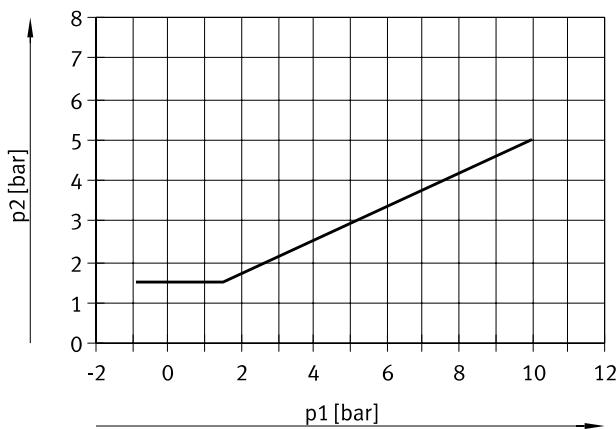
— Standard nominal flow rate per valve on standard manifold rail

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

Key features – VUWS-LT pneumatics

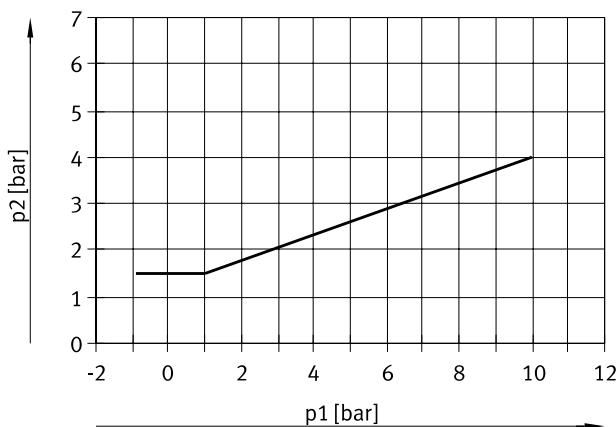
Size 20 – Pilot pressure p2 as a function of working pressure p1

For 3/2-way valves



Size 25 – Pilot pressure p2 as a function of working pressure p1

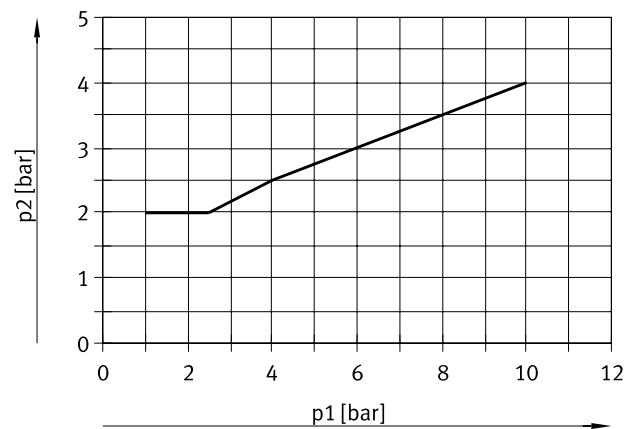
For 3/2-way valves



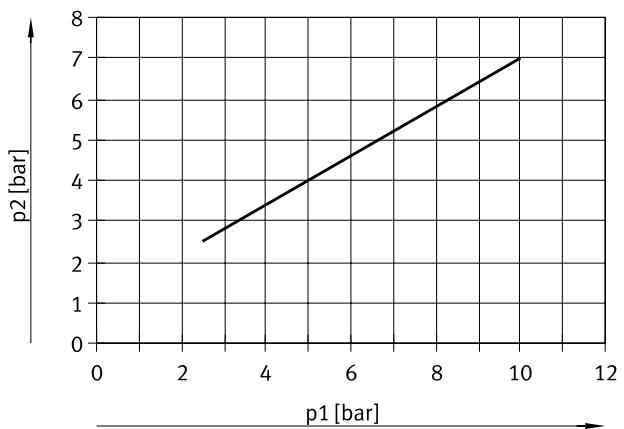
Key features – VUWS-LT pneumatics

Size 30 – Pilot pressure p2 as a function of working pressure p1

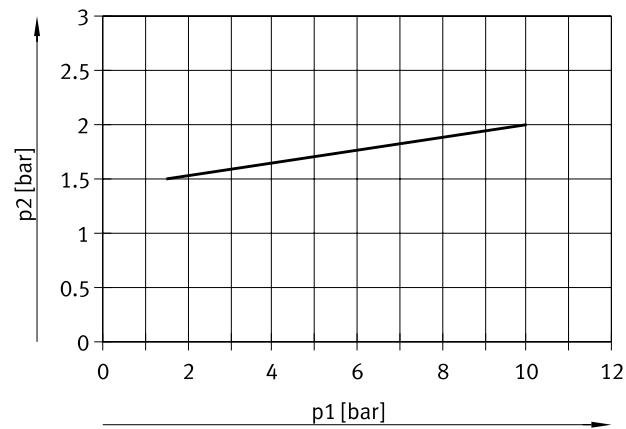
For 3/2-way valves



For 5/2-way monostable valves



For 5/2-way bistable valves



Key features – Mounting

Mounting the valve manifold assembly

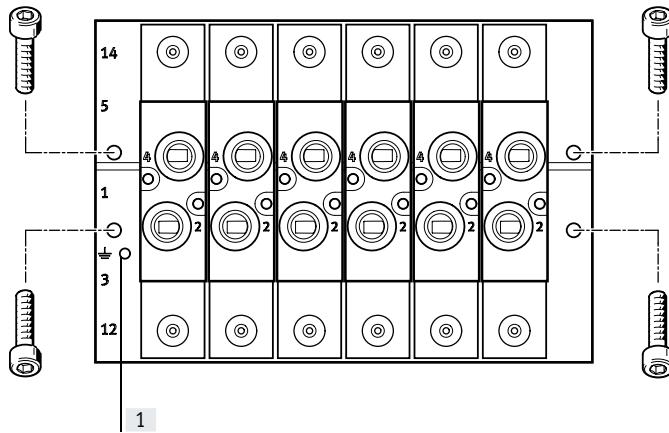
Sturdy manifold assembly thanks to:

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



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

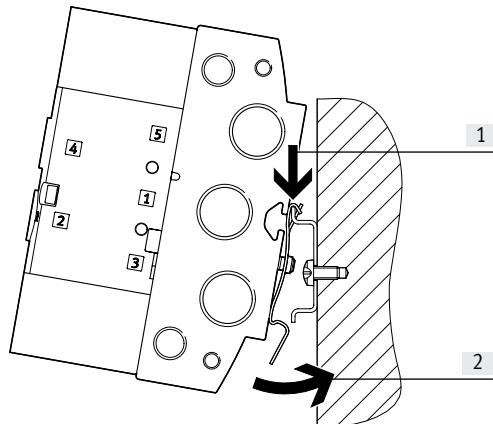
Wall mounting



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 1) and clipped into the H-rail at the bottom (arrow 2).



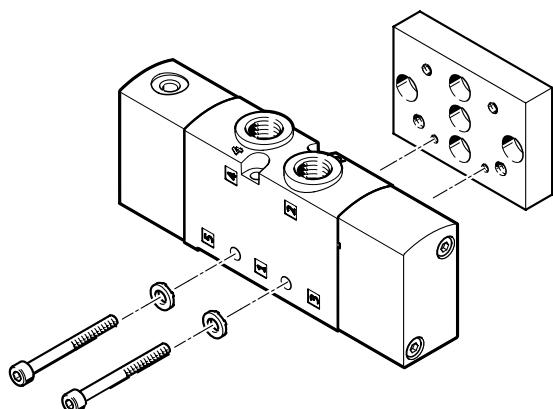
Note

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

Key features – Mounting

Mounting individual valve VUWS

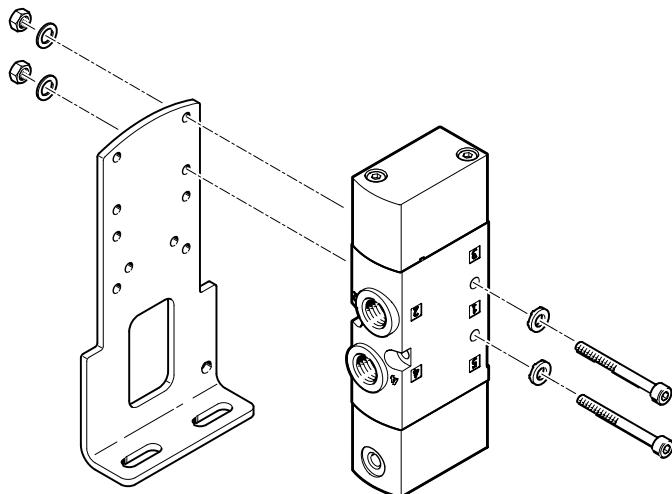
Wall mounting



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

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

Foot mounting



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

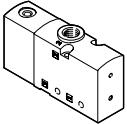
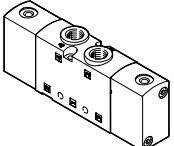
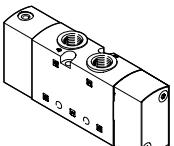
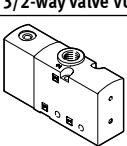
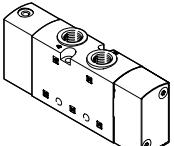
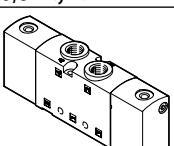
The screw set required is included with the foot mounting VAME-B10-...-A.

Note

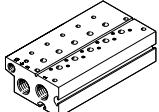
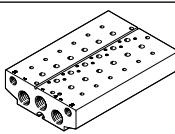
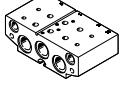
Further mounting options for foot mounting VAME-B10-...-A

→ Data sheet – Pneumatic valves, dimensions

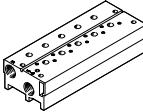
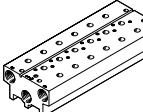
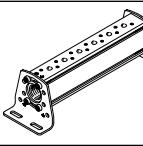
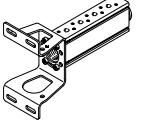
Product range overview

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

Product range overview

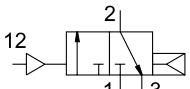
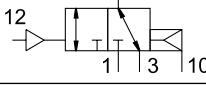
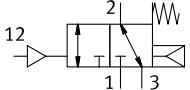
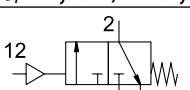
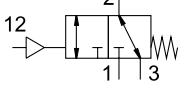
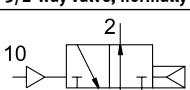
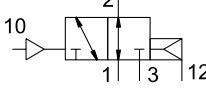
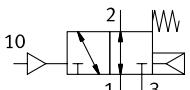
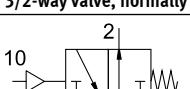
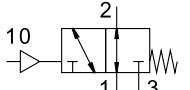
Design	Size	Description	→ Page/ Internet
Manifold block for 3/2-way valves, standard			
	20	VABM-B10-20E-G38- ... -P3	Connection G3/8
	25	VABM-B10-25E-G12- ... -P3	Connection G1/2
	30	VABM-B10-30E-G34- ... -P3	Connection G3/4
Manifold block extension module for 3/2-way valves, standard			
	20	VABM-B10-20EEE-G38-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

Product range overview

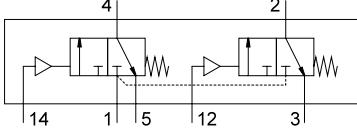
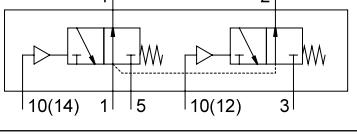
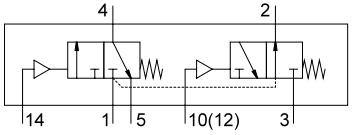
Design	Size	Description	→ Page/ Internet
Manifold block for 3/2-way valves, compact			
	20	VABM-B10-20S-G14-...-P3	Connection G1/4
	25	VABM-B10-25S-G38-...-P3	Connection G3/8
	30	VABM-B10-30S-G12-...-P3	Connection G1/2
Manifold block for 5/2- and 5/3-way valves, compact			
	20	VABM-B10-20S-G14-...	Connection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

Pneumatic valves VUWS

Valve function

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

Valve function

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

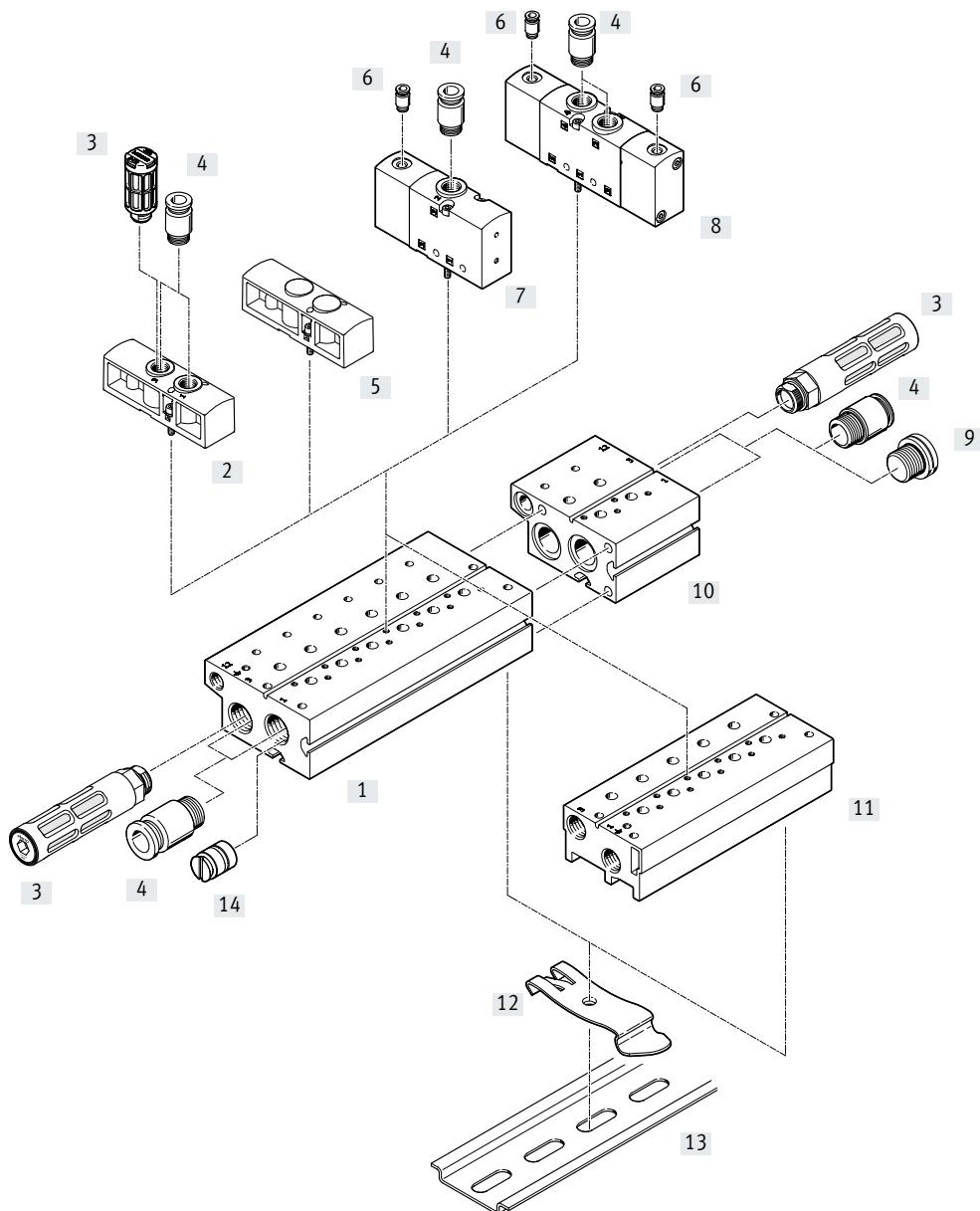
Pneumatic valves VUWS

Valve function

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

Peripherals overview VUWS-LT, VUWS-L

Manifold block for 3/2-way valves



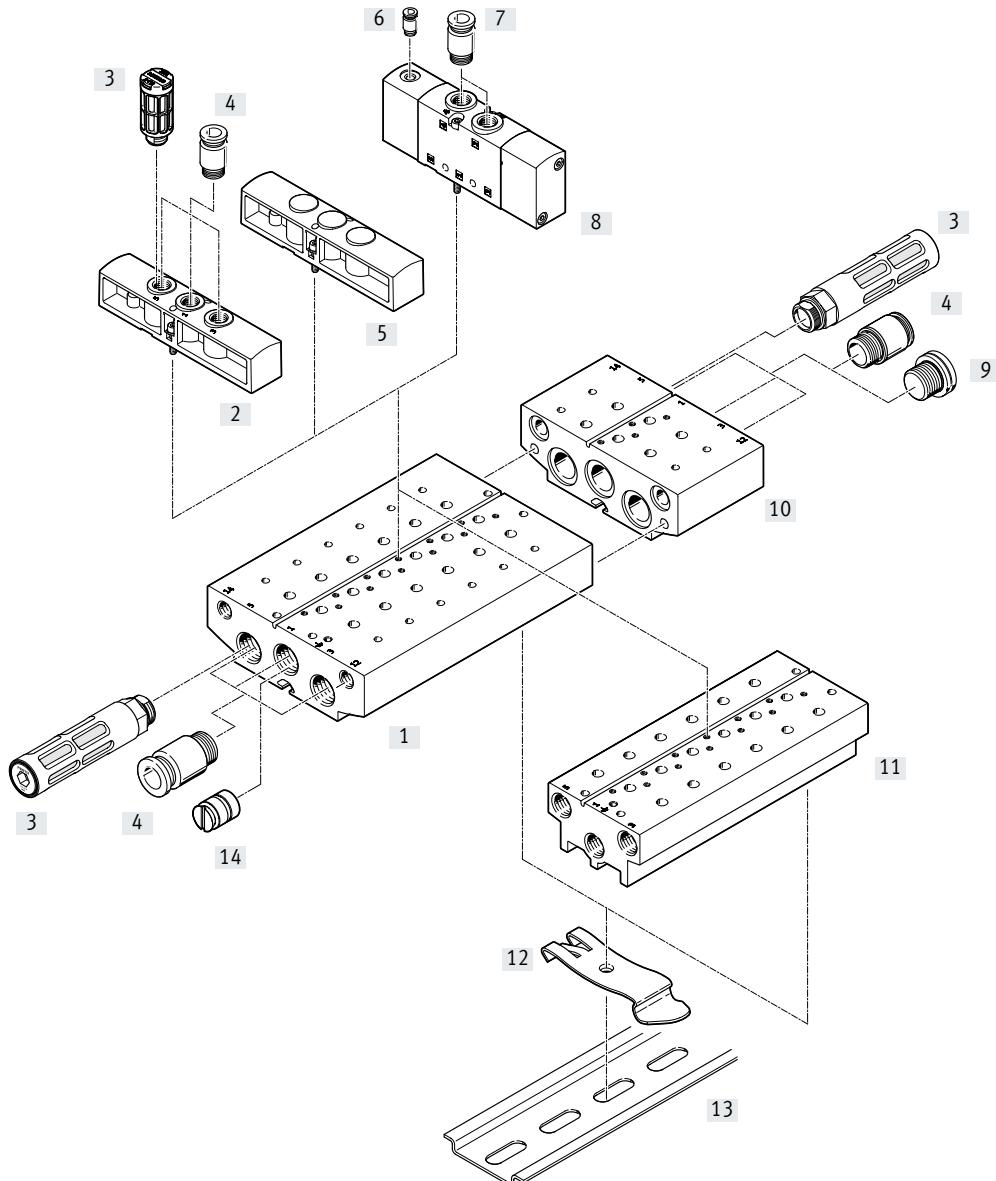
Accessories

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

Pneumatic valves VUWS/valve manifold assembly VTUS

Peripherals overview VUWS-LT, VUWS-L

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

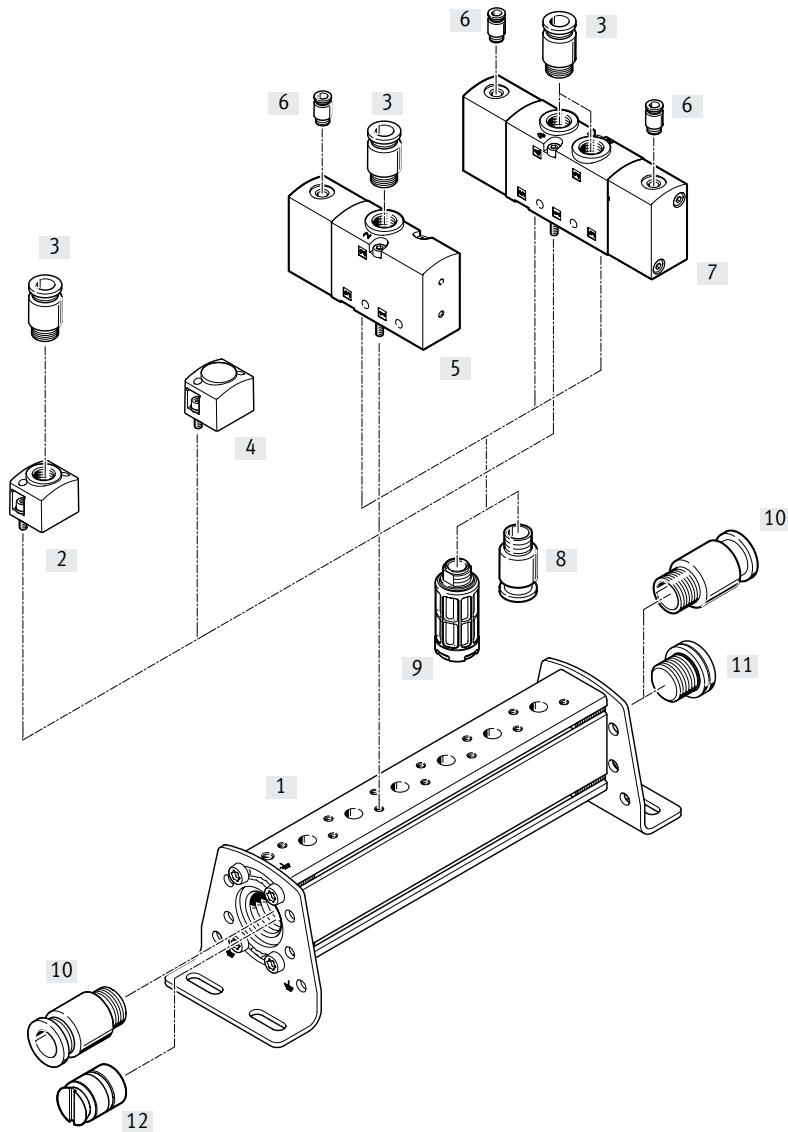


Accessories

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

Peripherals overview VUWS-LT, VUWS-L

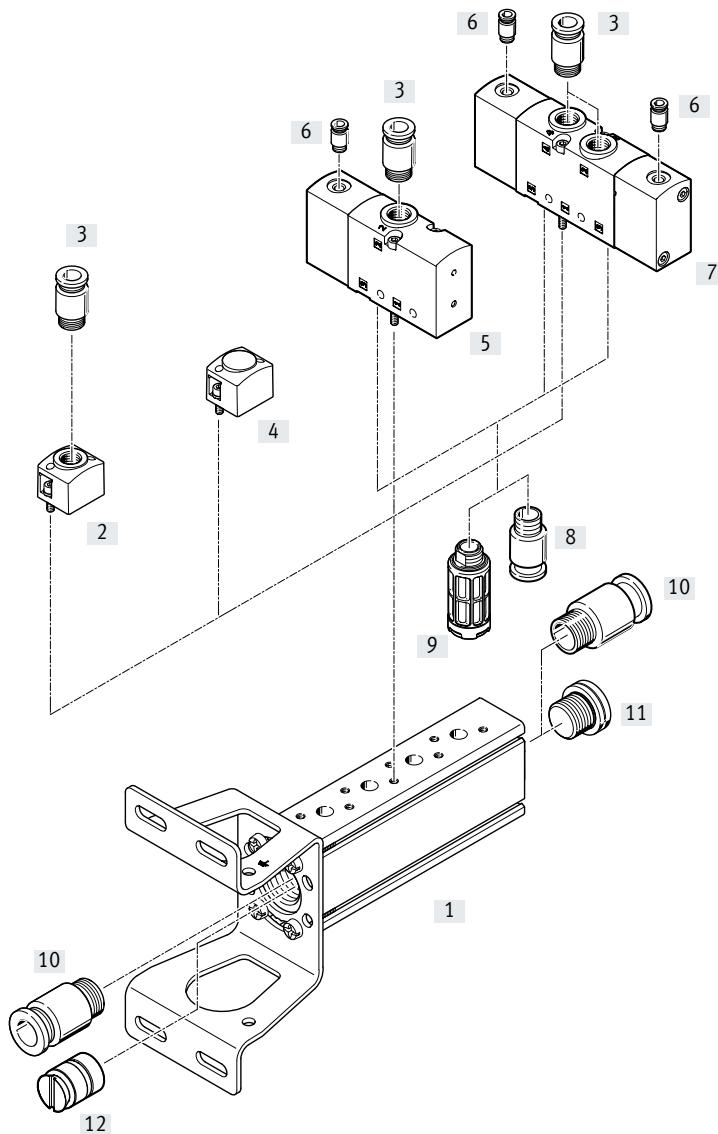
Common supply manifold for mounting on both sides



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

Peripherals overview VUWS-LT, VUWS-L

Common supply manifold for mounting on one side



Accessories

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

Data sheet – Valve manifold assembly

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



General technical data					
Size	20	25	30		
Valve manifold design	Fixed grid				
Valve width [mm]	21	26.5	31		
Valve design	VUWS-L VUWS-LT	Piston spool Poppet seat	Piston spool Poppet seat		
Reset method for valves	VUWS-L VUWS-LT	Pneumatic or mechanical spring			
Pneumatic spring	Mechanical spring				
Flow direction	VUWS-L VUWS-LT	Internal or external Reversible with restrictions			
Suitable for vacuum	VUWS-L VUWS-LT	Yes, with restrictions Yes, with restrictions	No		
Type of control	Direct				
Manual override (MO)	None				
Overlap	VUWS-L VUWS-LT	Positive overlap Negative overlap			
Sealing principle	Soft				
Max. no. of valve positions	16 (a maximum of 18 valve positions with extension for standard manifold block)				
Max. number of pressure zones	9				
Exhaust function	Can be throttled				
Type of actuation	Pneumatic				
Standard nominal flow rate [qN]	[l/min]	500...700 1000...1300	1600...2300		
Pilot air connection	Standard manifold block Compact manifold block Common supply manifold	12/14 12/14 12/14	G1/8 On the valve On the valve		
Pilot exhaust air port	82/84				
Mounting position	Any				
Materials					
Note on materials	RoHS-compliant				
Information on materials - seals	VUWS-L VUWS-LT	HNBR, NBR HNBR, NBR, TPE-U(PU)			

Data sheet – Valve manifold assembly

ATEX						
ATEX category for gas	II 3G					
Type of ignition protection for gas	Ex ec IICT4 X Gc					
ATEX category for dust	II 3D					
Type of ignition protection for dust	Ex tc IIIC T115°C X Dc					
Explosion-proof ambient temperature [°C]	-10°C <= Ta <= +60°C					
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)					
Operating and environmental conditions						
Valve design	Piston spool			Poppet seat		
Size	20	25	30	20	25	30
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)					
Operating pressure [bar]	-0.9 ... +10	-0.9 ... +10	-0.9 ... +10	-0.9 ... +10 (M32, T32)	-0.9 ... +10 (M32, T32)	-
	-	-	-	-	-	+1.0 ... +10 (32)
	-	-	-	+1.5 ... +10 (B52)	+1.5 ... +10 (B52)	+1.5 ... +10 (B52)
	+2.5 ... +10 (M32...-A, M32...-M, M52-A)	+2.5 ... +10 (M...-A, M52)	+2.5 ... +10 (M...-A)	+2.5 ... +10 (M52)	+2.5 ... +10 (M52)	+2.5 ... +10 (M52)
Pilot pressure [bar]	1.5 ... 10 (B52)	1.5 ... 10 (B52)	1.5 ... 10 (B52)	1.5 ... 10	1.5 ... 10 (B52)	1.5 ... 10 (B52)
	2.5 ... 10	2.5 ... 10	2.5 ... 10	2.5 ... 10 (M52)	2.5 ... 10	2.5 ... 10
Ambient temperature [°C]	-10 ... +60					
Temperature of medium [°C]	-10 ... +60					
Certification	c UL us - Recognized (OL)					
Corrosion resistance class CRC ¹⁾	2					

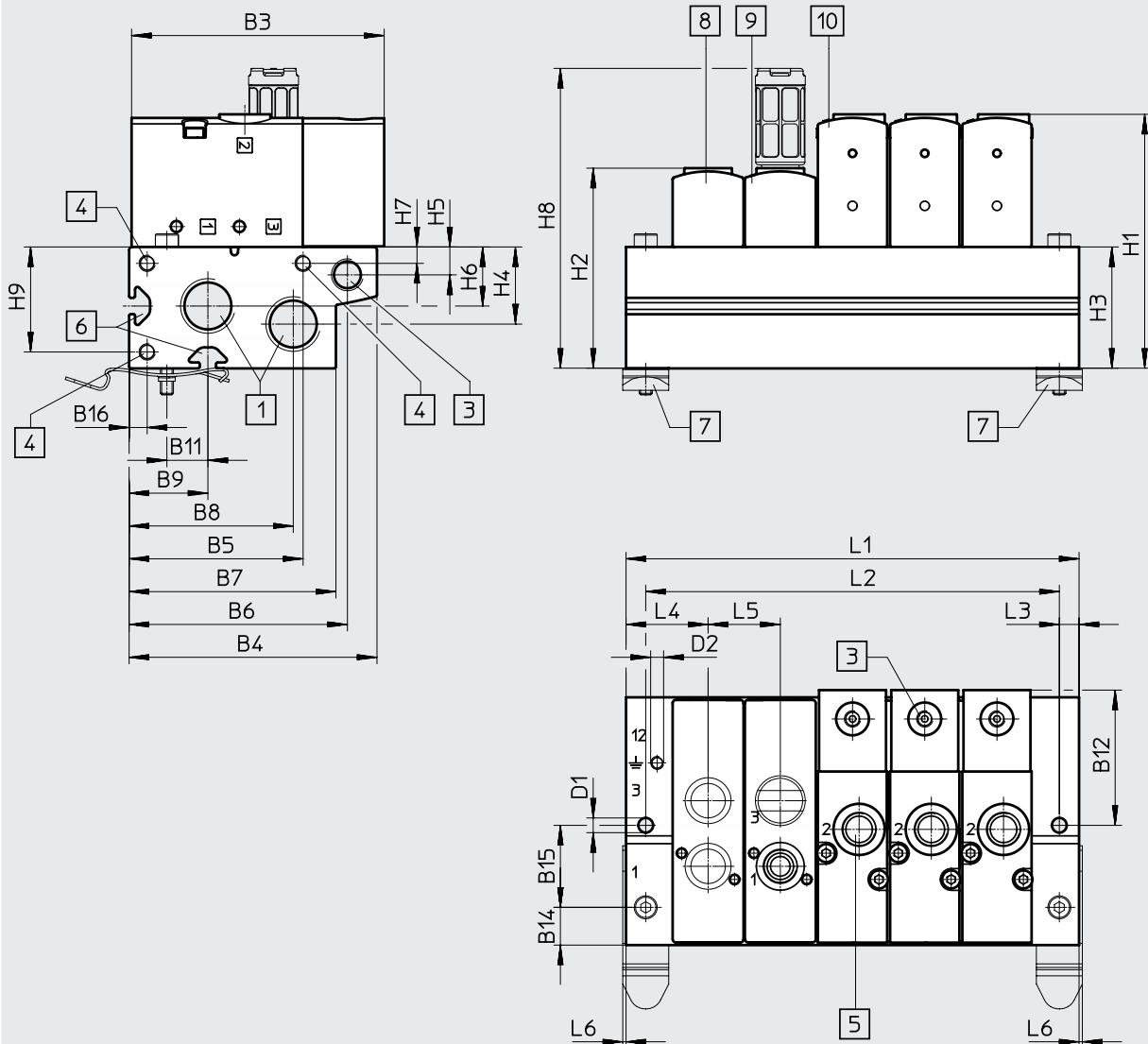
1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Data sheet

Dimensions

With 3/2-way valves, standard manifold rail

Download CAD data → www.festo.com

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

Note

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

Valve manifold assembly VTUS

Data sheet

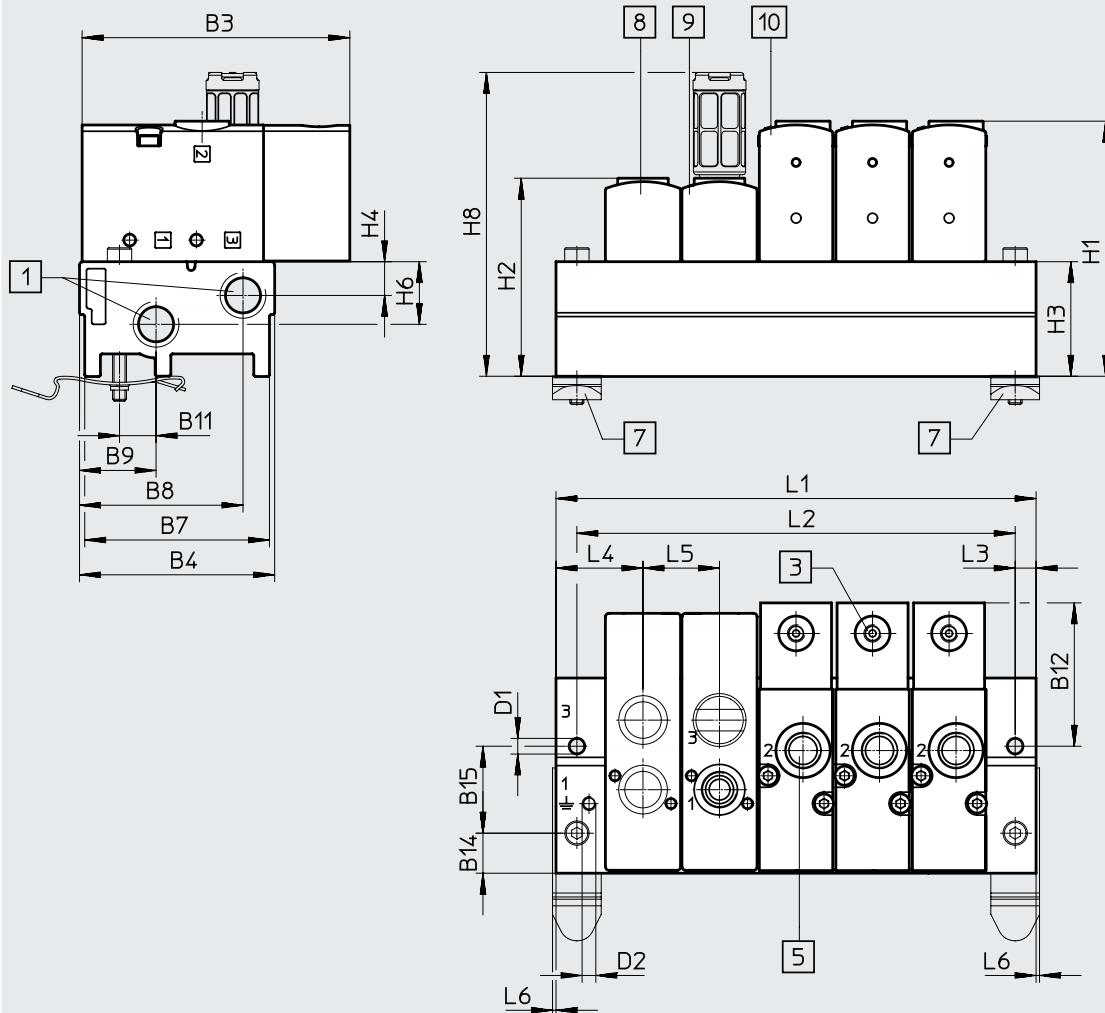
Type	B3	B4	B5	B6	B7	B8	B9	B11	B12	B14	B15	B16			
VTUS-20	77	75.5	53	66.5	63	50	24	12.5	41.2	11.5	25	5.5			
VTUS-25	92	93	67.5	80.5	78	62	30	16	–	14	32	6			
VTUS-30	109.2	108.2	79	93.2	94.7	75.7	36.2	19	55.5	17.2	38	6.5			
Type	D1 Ø	D2	H1	H2	H3	H4	H5	H6	H7	H8	H9	L3	L4	L5	L6
VTUS-20	4.5	M4x6.5	77.4	61	37	23.5	8.5	18	5	91.4	32	6	25	22	1
VTUS-25	5.5	M4x9	95.5	71	45	25	9	22	5	123.4	39	6	29.8	27.5	1
VTUS-30	6.3	M5x11	118	91	61	35	9	28.5	6.5	170.1	54.5	7.2	34	32	–

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

Data sheet – Valve manifold assembly

Dimensions – Valve manifold assembly

With 3/2-way valves, compact manifold rail

Download CAD data → www.festo.com

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

G1/4 for VTUS 20

G3/8 for VTUS 25

G1/2 for VTUS 30

[3] Ports 10 and 12 on the valve:

M5 for VTUS 20

M5 for VTUS 25

G1/8 for VTUS 30

[5] Port 2:

G1/8 for VTUS 20

G1/4 for VTUS 25

G3/8 for VTUS 30

[7] H-rail mounting VAME-T-M4 for

VTUS 20

VAME-T-M5 for VTUS 25

VAME-T-M6 for VTUS 30

[8] Blanking plate

[9] Supply plate, ports 1 and 3:

G1/8 for VTUS 20

G1/4 for VTUS 25

G3/8 for VTUS 30

[10] 3/2-way valve

Valve manifold assembly VTUS

Data sheet – Valve manifold assembly

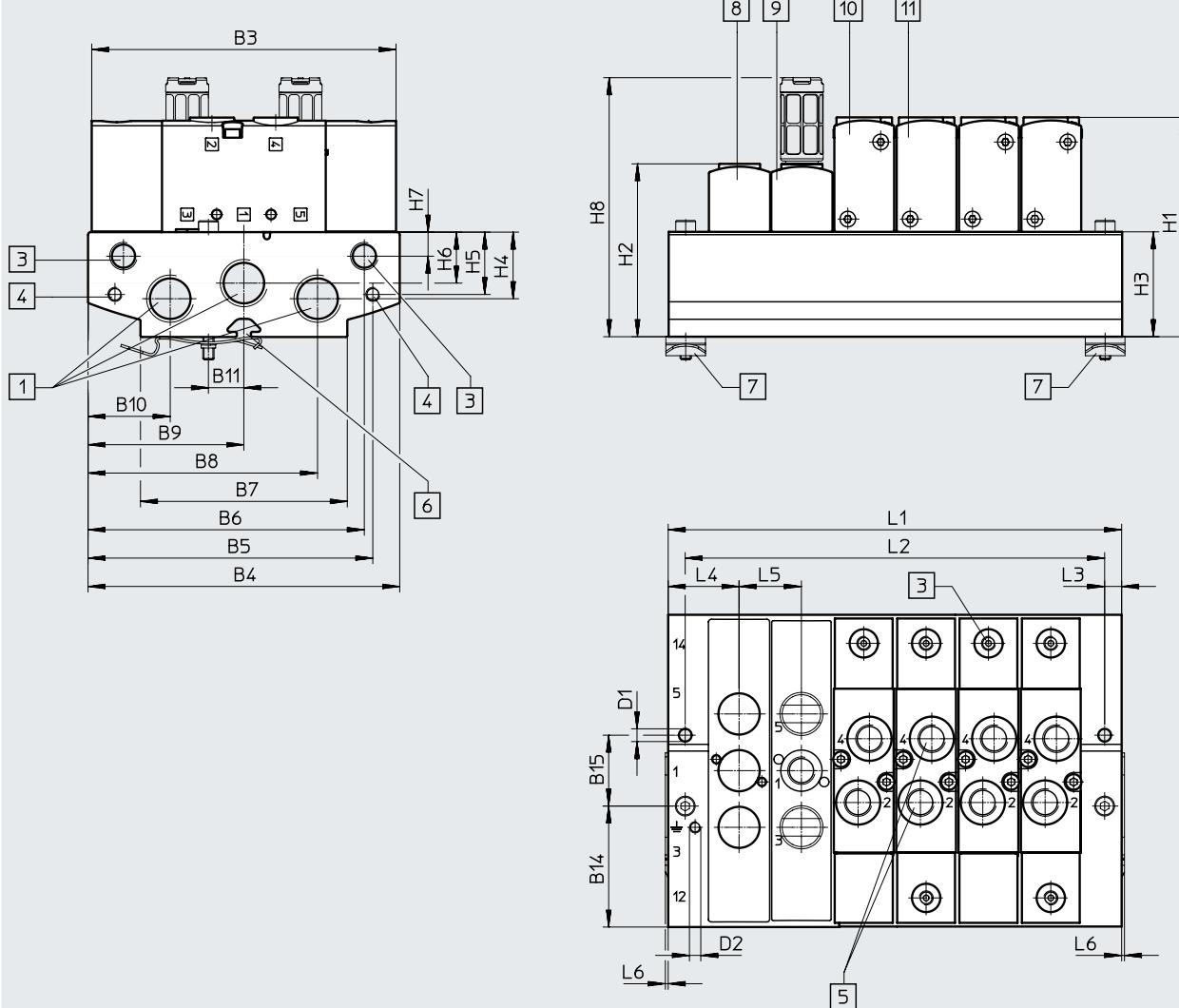
Type	B3	B4	B7	B8	B9	B11	B12	B14	B15			
VTUS-20	77	56.1	53.1	47	22	10.5	41.2	11.5	25			
VTUS-25	92	70.3	67.3	58.8	30	16	47	14	32			
VTUS-30	109.2	83	80	69.4	36	19	55.5	17	38			
Type	D1 Ø	D2	H1	H2	H3	H4	H6	H8	L3	L4	L5	L6
VTUS-20	4.5	M4x6.5	73.4	57	33	9.7	18	87.4	6	25	22	1
VTUS-25	5.5	M4x9	84.5	60	34	13.5	20	112.4	6	29.8	27.5	1
VTUS-30	6.3	M5x11	99.5	72.5	42.5	17.5	26	151.6	7.5	38	32	-

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

Data sheet – Valve manifold assembly

Dimensions – Valve manifold assembly

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

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

Note

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

Valve manifold assembly VTUS

Data sheet – Valve manifold assembly

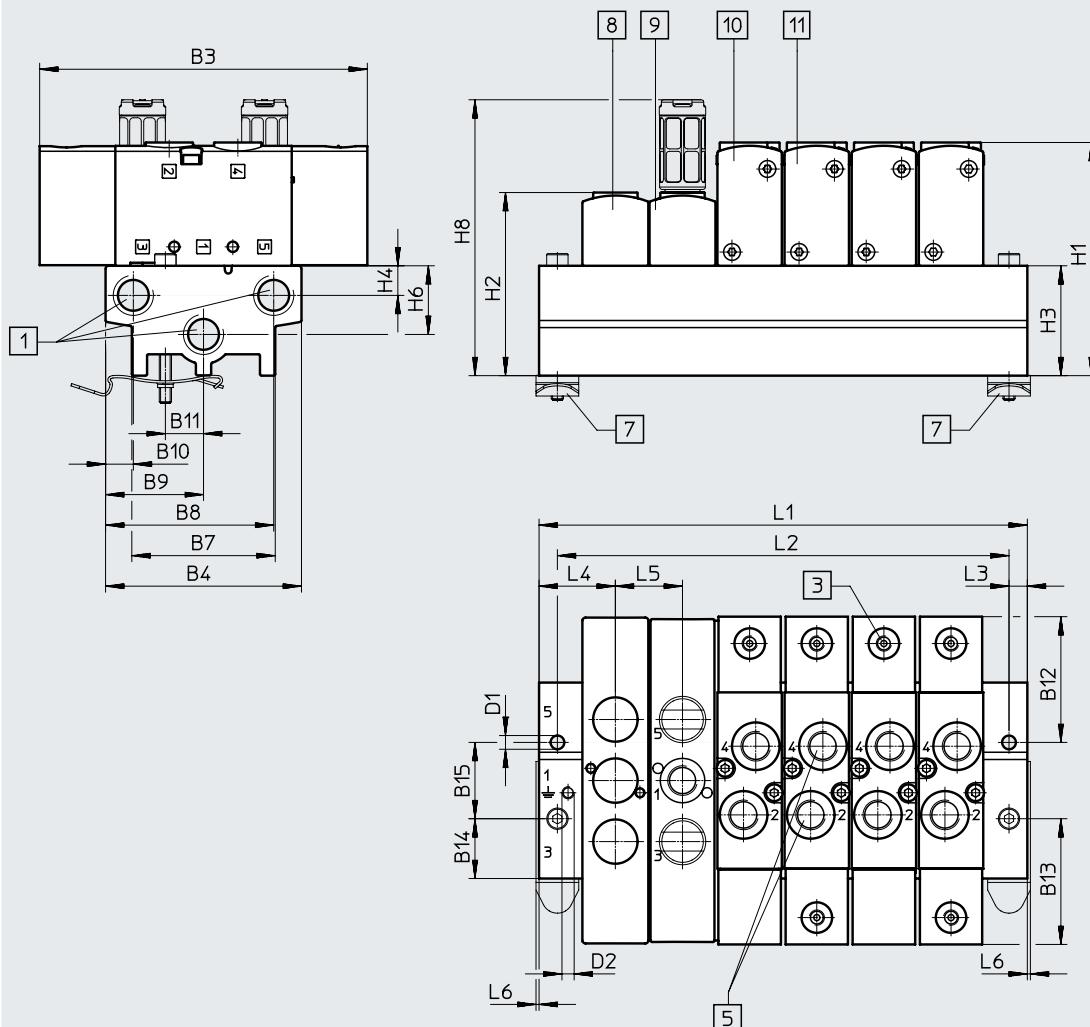
Type	B3	B4	B5	B6	B7	B8	B9	B10	B11	B14	B15			
VTUS-20	107.4	110	100.5	97.5	73	81	55	29	12.5	42.5	25			
VTUS-25	126	126	119	113.5	80	95	63	31	16	47	32			
VTUS-30	149	144	137	129	104	111.5	72	32.5	19	53	38			
Type	D1 Ø	D2	H1	H2	H3	H4	H5	H6	H7	H8	L3	L4	L5	L6
VTUS-20	4.5	M4x6.5	77.4	61	37	23.5	22	18	8.5	91.4	6	25	22	1
VTUS-25	5.5	M4x9	95.5	71	45	25	22	22	9	123.4	6	29.8	27.5	1
VTUS-30	6.3	M5x11	118	91	61	35	22	28.5	9	170.1	7.5	34	32	-

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

Data sheet – Valve manifold assembly

Dimensions – Valve manifold assembly

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

Download CAD data → www.festo.com

[1] Ports 1, 3 and 5 (at both ends):
G1/4 for VTUS 20
G3/8 for VTUS 25

G1/2 for VTUS 30

[3] Port 12 and 14 on the valve:
M5 for VTUS 20,

M5 for VTUS 25,

G1/8 for VTUS 30

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

[7] Port 12 and 14 on the valve:
VAME-T-M4 for VTUS 20

VAME-T-M5 for VTUS 25

VAME-T-M6 for VTUS 30

[8] Blanking plate

[9] Supply plate, ports 1, 3 and 5:
G1/8 for VTUS 20
G1/4 for VTUS 25

G3/8 for VTUS 30

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

Valve manifold assembly VTUS

Data sheet – Valve manifold assembly

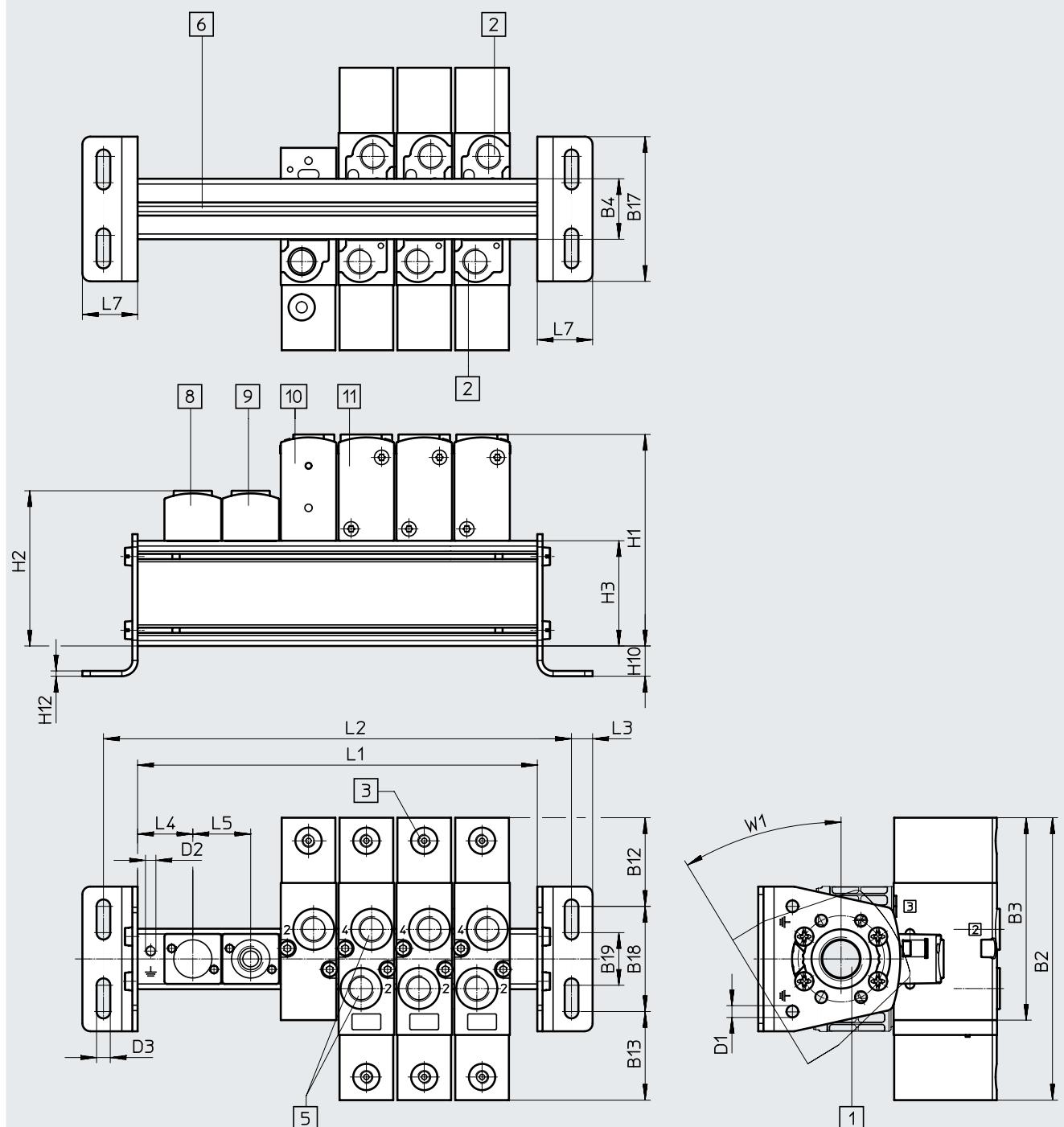
Type	B3	B4	B7	B8	B9	B10	B11	B12	B13	B14	B15	
VTUS-20	107.4	64.2	47	55.1	32.1	9.1	12.5	41.2	41.2	19.6	25	
VTUS-25	126	80.5	61.5	69	40.3	11.5	16	47	47	24.3	32	
VTUS-30	149	94	77	80.4	47	13.6	19	55.5	55.5	28	38	
Type	D1 Ø	D2	H1	H2	H3	H4	H6	H8	L3	L4	L5	L6
VTUS-20	4.5	M4x6.5	76.4	60	36	9.7	22.5	90.4	6	25	22	1
VTUS-25	5.5	M4x9	84.5	60	34	13.5	20	112.1	6	29.8	27.5	1
VTUS-30	6.3	M5x11	99.5	72.5	42.5	17.5	26	151.6	7.5	34	32	-

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

Data sheet – Valve manifold assembly

Dimensions – Common supply manifold

Mounting on both sides

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[1] Port 1 (at both ends):

G3/8 for VTUS 20

G1/2 for VTUS 25

G3/4 for VTUS 30

[2] Ports 3 and 5: G1/8 for VTUS 20

G1/4 for VTUS 25

G3/8 for VTUS 30

[3] Port 12 and 14 on the valve:

M5 for VTUS 20,

M5 for VTUS 25,

G1/8 for VTUS 30

[5] Ports 2 and 4:

G1/8 for VTUS 20

G1/4 for VTUS 25

G3/8 for VTUS 30

[6] Profile slot IPM-05, system 5

[8] Blanking plate

[9] Supply plate, port 1:

G1/8 for VTUS 20

G1/4 for VTUS 25

G3/8 for VTUS 30

[10] 3/2-way valve

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

way valve or 2x 3/2-way valve

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

Valve manifold assembly VTUS

Data sheet – Valve manifold assembly

Type	B2	B3	B4	B12	B13	B17	B18	B19	H1	H2	H3
VTUS-20	107.4	77	23	33.7	33.7	55	40	20	80.4	59	40
VTUS-25	126	92	28.7	33	33	75	60	35	102.5	78	52
VTUS-30	149	109.2	34	42	42	85	65	35	122	95	65
Type	H10	H12	D1 Ø	D2	D3 Ø	L3	L4	L5	L7	W1	
VTUS-20	11.5	2	4.5	M4x6.5	5.2	9	21	22	22	31.3°	
VTUS-25	18	2	4.5	M4x9	6.6	8	29.8	27.5	24	30°	
VTUS-30	17.5	2.5	5.5	M5x11	8.6	9	34	32	26	28°	

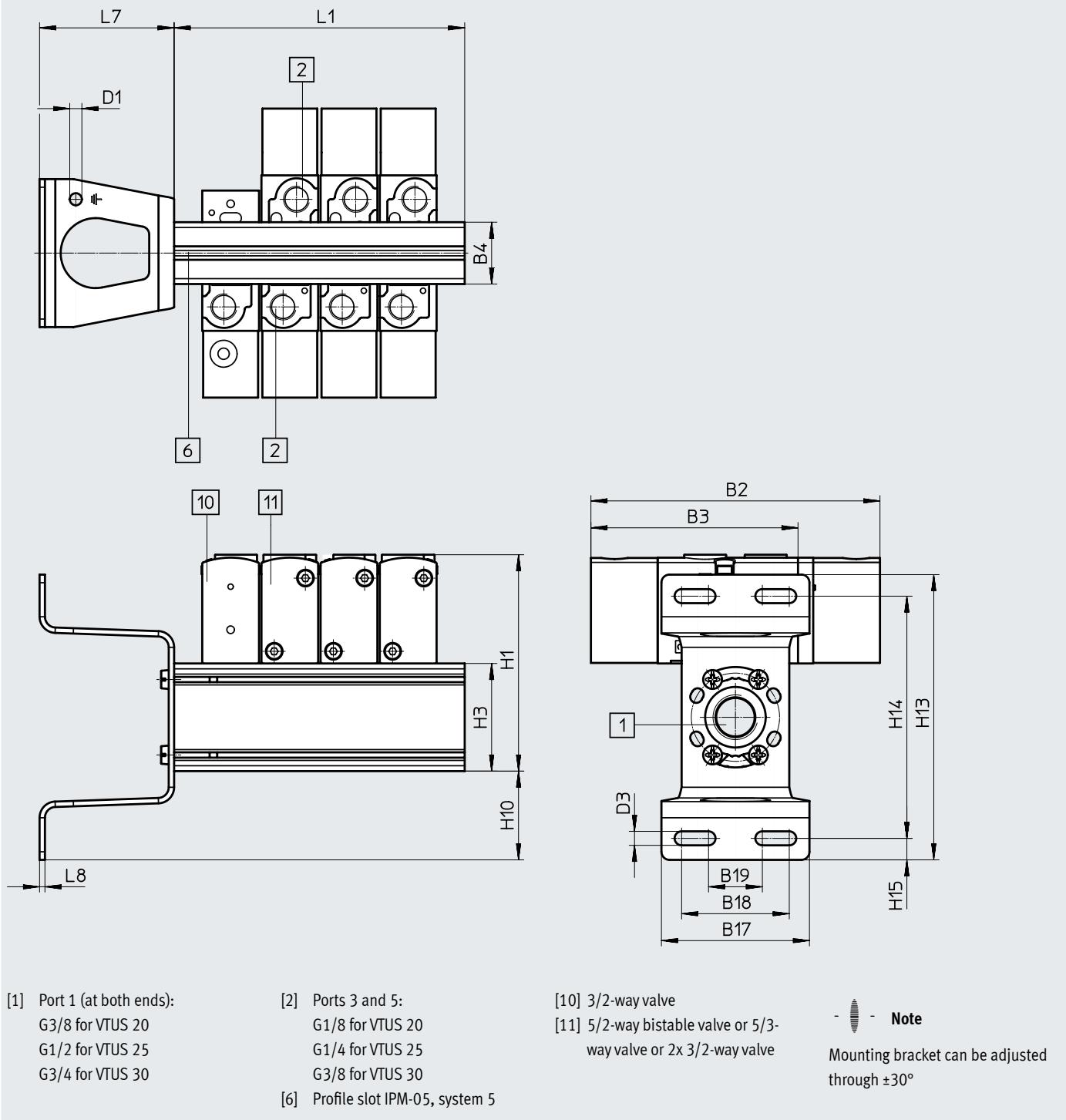
Valve positions	2	3	4	5	6	7	8	9	10	
VTUS-20	L1 [mm]	64	86	108	130	152	174	196	218	240
	L2 [mm]	90	112	134	156	178	200	222	244	266
VTUS-25	L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
	L2 [mm]	119	156.5	174	201.5	229	256.5	284	311.5	339
VTUS-30	L1 [mm]	100	132	164	196	228	260	292	324	356
	L2 [mm]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

Data sheet – Valve manifold assembly

Dimensions – Common supply manifold

Download CAD data → www.festo.com

Mounting on one side



Valve manifold assembly VTUS

Data sheet – Valve manifold assembly

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

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

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

Type codes – Pneumatic valves

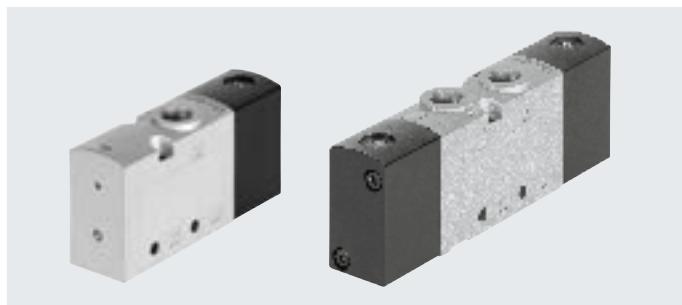
001	Series
VUWS	Pneumatic valve
002	Directional control valve type
L	In-line valve
003	Design principle
	Piston spool
T	Poppet valve
004	Size
20	Size 20
25	Size 25
30	Size 30
005	Valve function
M32U	3/2-way valve, normally open
M32C	3/2-way valve, normally closed
T32U	2x3/2-way valve, normally open
T32C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

006	Reset method for monostable valves
	None
A	Pneumatic spring
E	Pneumatic spring, external
M	Mechanical spring
007	Pneumatic connection
G18	G1/8
G14	G1/4
G38	G3/8
G12	G1/2
N18	1/8 NPT
N14	1/4 NPT
N38	3/8 NPT
Q4	Push-in connector 4 mm
Q6	Push-in connector 6 mm
Q8	Push-in connector 8 mm
Q10	Push-in connector 10 mm
Q12	Push-in connector 12 mm
T532	Push-in connector 5/32"
T14	Push-in connector 1/4"
T38	Push-in connector 3/8"
T516	Push-in connector 5/16"
T12	Push-in connector 1/2"
008	Exhaust
	No fitting
QN	With fitting
U	Silencer

Data sheet

-  - Flow rate
up to 600 l/min ($\pm 20\%$)

-  - Valve width
21 mm



General technical data

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

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

Data sheet

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

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

Order code for valves	T32C	T32U	T32H
Stable position	Monostable		
Reset method	Mechanical spring		
Switching times in [ms]	On Off	6 19	6 18
			6 19

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

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

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

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

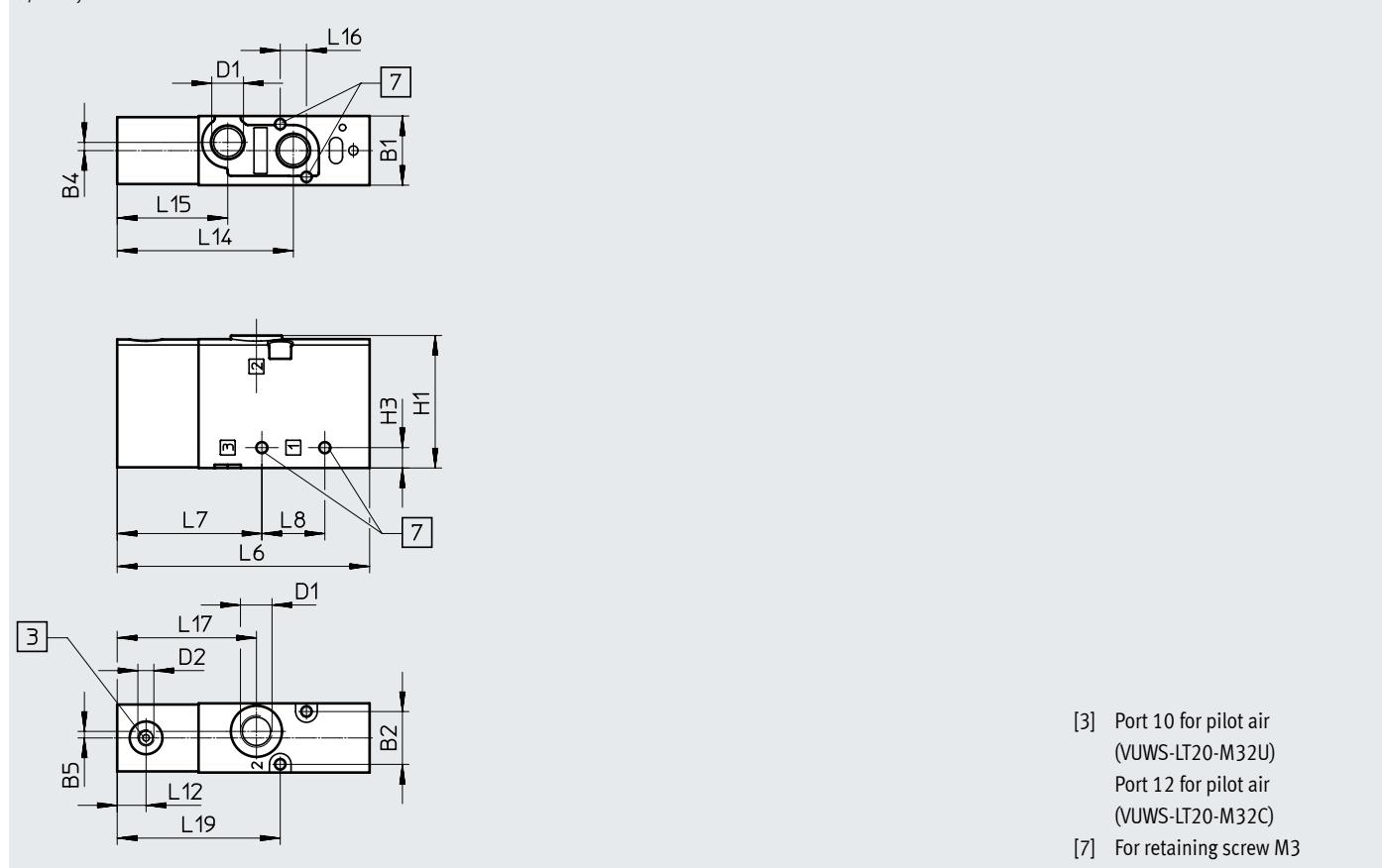
Information on materials	
Housing	Die-cast aluminium (painted)
Seals	HNBR, NBR, TPE-U(PU)
Screws	Galvanised steel
Note on materials	RoHS-compliant

Data sheet

Dimensions

Download CAD data → www.festo.com

3/2-way valve



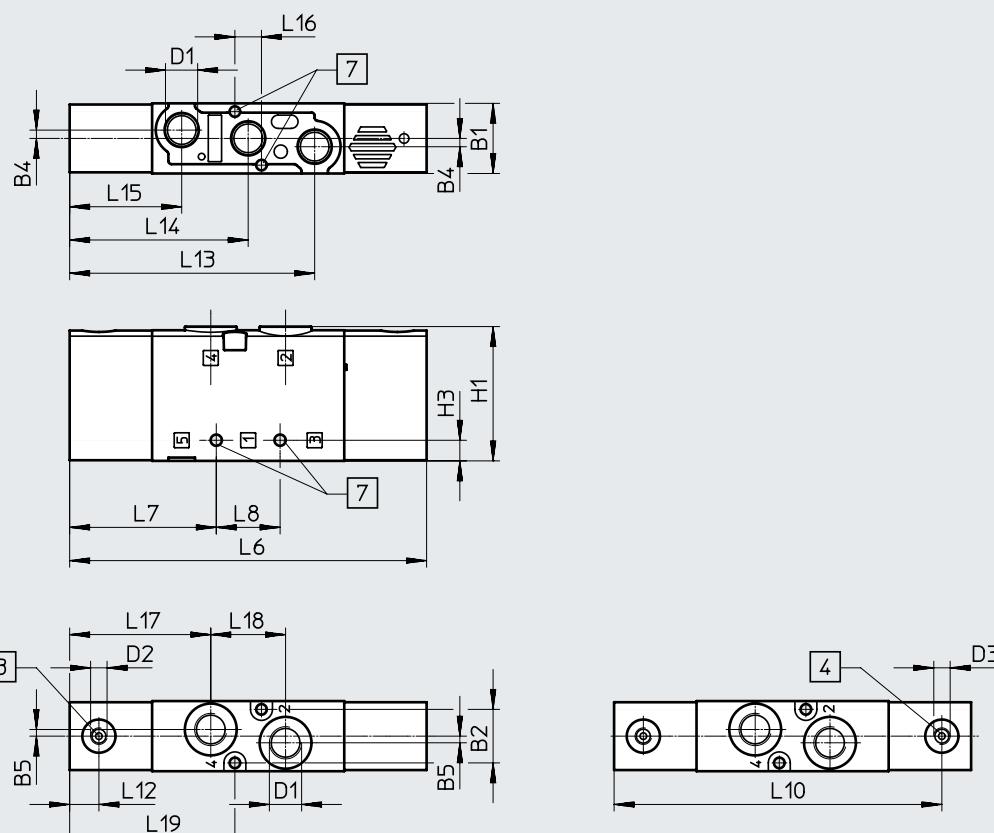
Type	B1	B2	B4	B5	D1	D2	H1	H3
VUWS-LT20-M32-...-G18	21.1	16.1	2.5	2	G1/8	M5	40.4	6.2

Type	L6	L7	L8	L12	L14	L15	L16	L17	L19
VUWS-LT20-M32-...-G18	77	44.1	19.2	8.8	53.7	33.7	8	42.5	49.7

Data sheet

Dimensions

5/2-way valve, monostable

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Type	B1	B2	B4	B5	D1	D2	D3	H1	H3	L6
VUWS-LT20-M52-M...-G18	21.1	16.1	2.5	2	G1/8	M5	-	40.4	6.2	107.4

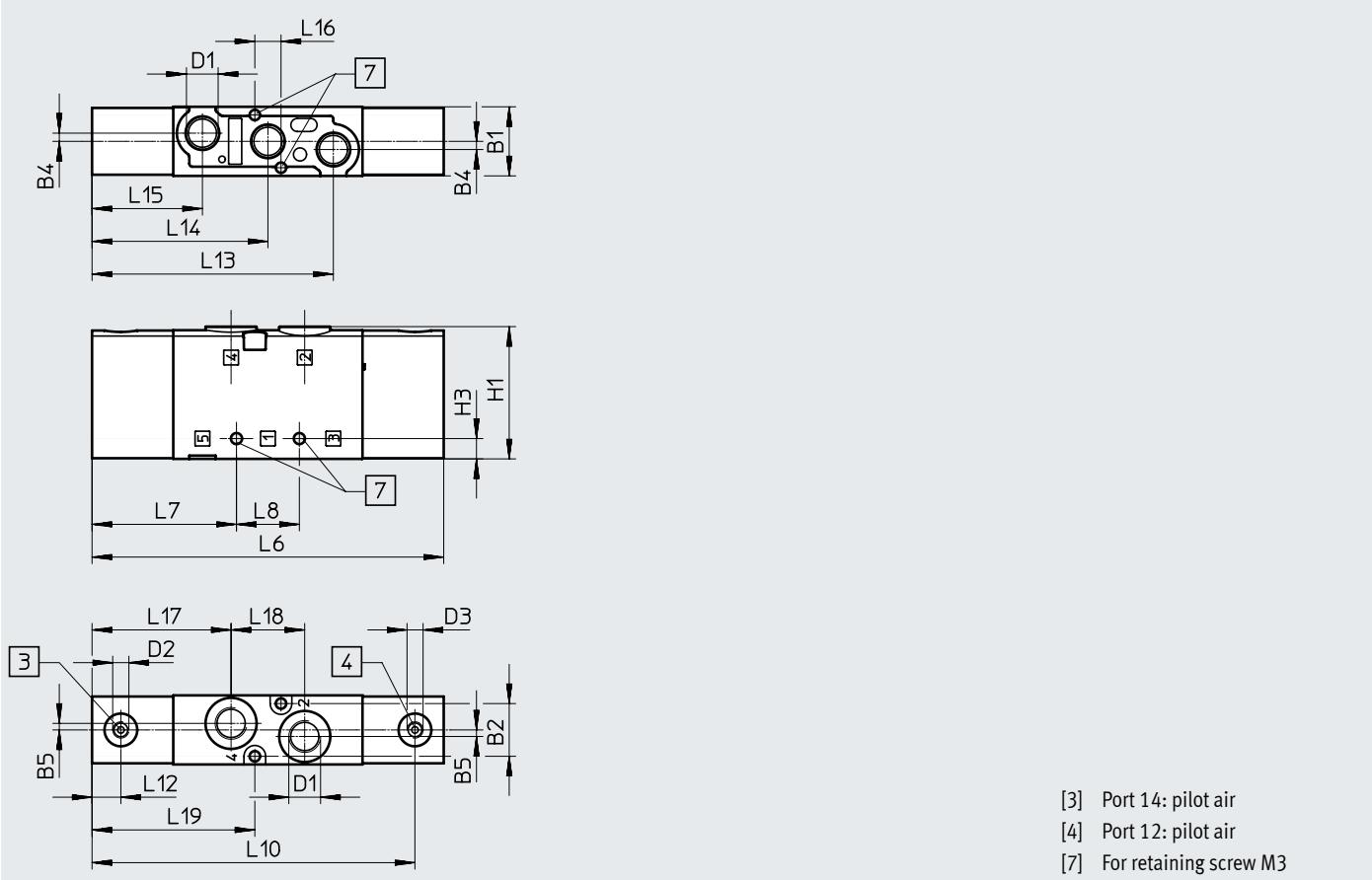
Type	L10	L7	L8	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-LT20-M52-M...-G18	-	44.1	19.2	8.8	73.7	53.7	33.7	8	42.5	22.5	49.7

Data sheet

Dimensions

Download CAD data → www.festo.com

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

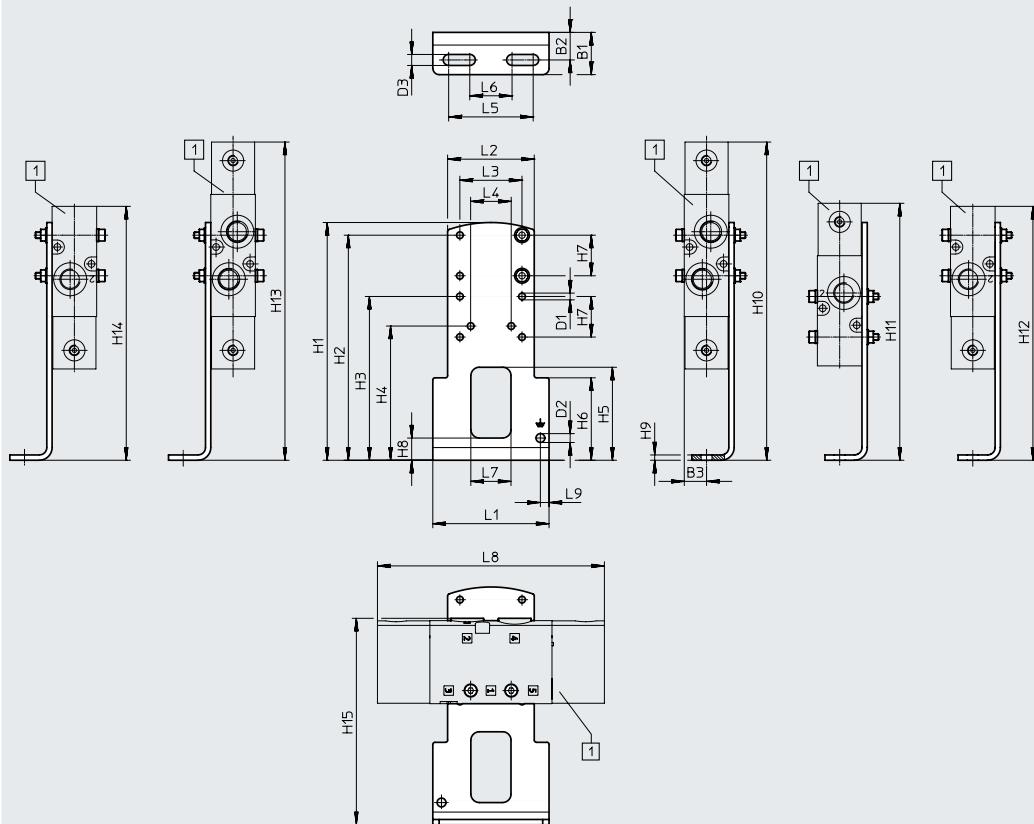


Type	B1	B2	B4	B5	D1	D2	D3	H1	H3			
VUWS-LT20-T32-...-M-G18	21.1	16.1	2.5	2	G1/8	M5	M5	40.4	6.2			
VUWS-LT20-B52-G18												
Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-L20-T32-...-M-G18	107.4	44.1	19.2	98.6	8.8	73.7	53.7	33.7	8	42.5	22.5	49.7
VUWS-LT20-B52-G18												

Data sheet

Dimensions

Foot mounting



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

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

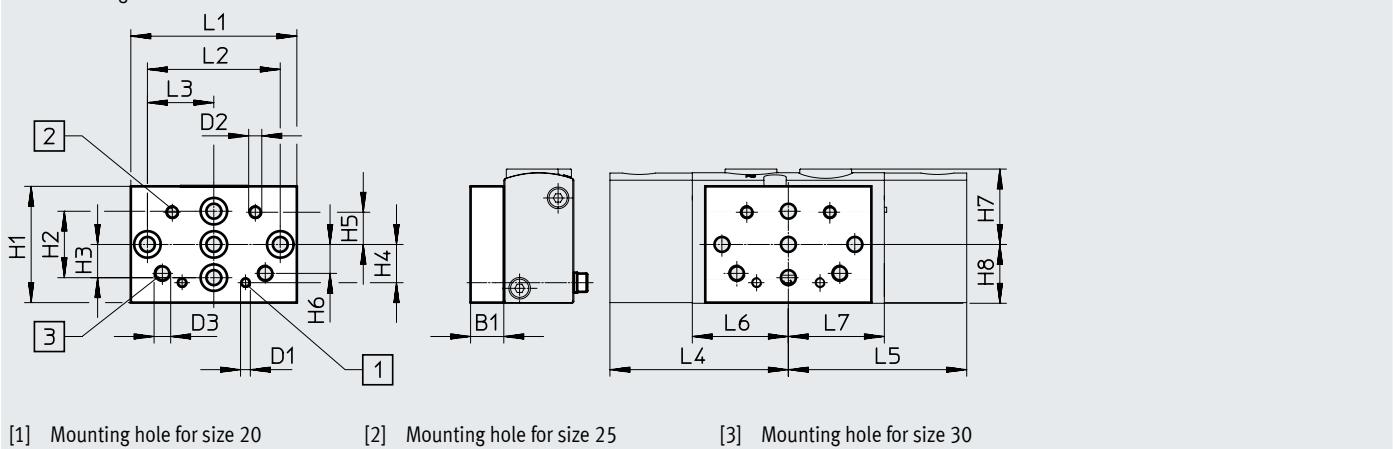
Type		H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-20-A	VUWS-LT20-B52/T32	44	39	19.2	10.5	2.5	150.6	121.6	150.6	150.6	150.6
	VUWS-LT20-M52										
	VUWS-LT20-M32										

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

Data sheet

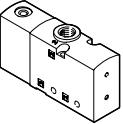
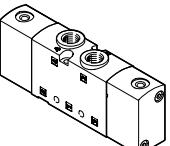
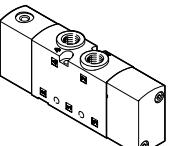
Dimensions

Wall mounting

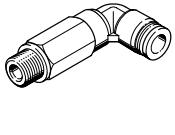
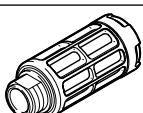


Type	B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUWS-LT20-B52/T32	10	M3	M4	M5	35	20	10	11.5	9.7
	VUWS-LT20-M52									8.7
	VUWS-LT20-M32									
Type	H7	H8	L1	L2	L3	L4	L5	L6	L7	
VAME-B10-20-W	22.7	17.7	50	40	20	53.7	53.7	28.9	28.9	
	VUWS-LT20-B52/T32									-
	VUWS-LT20-M52									
							23.3			

Ordering data – Pneumatic valves, size 20

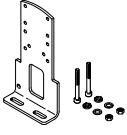
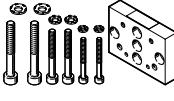
Ordering data	Code	Valve function	Part no.	Type
3/2-way valve				
 Normally closed, monostable M32C Reset via mechanical spring, internal pilot air supply, flow direction not reversible Normally open, monostable M32U Reset via pneumatic spring, internal pilot air supply, flow direction not reversible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

Accessories

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	QLS-G1/8-4	10
			132048	QLS-G1/8-4-100	100
		6 mm	186117	QLS-G1/8-6	10
			132049	QLS-G1/8-6-100	100
		8 mm	186119	QLS-G1/8-8	10
			132050	QLS-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
Silencer					
	With connecting thread G, polymer design	G1/8	2307	U-1/8	1
			534222	U-1/8-50	50
	With connecting thread G, metal design	G1/8	6841	U-1/8-B	1
	With connecting thread G, sintered design, long	G1/8	1205860	AMTE-M-LH-G18	20

1) Packaging unit

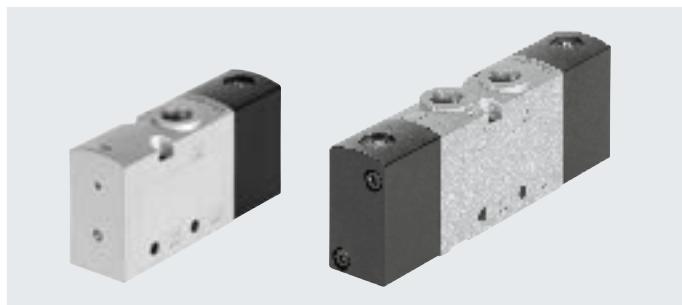
Accessories

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 for size 20, 25, 30, 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	
Inscription label					
	40 pieces in frame	-	565306	ASLR-C-E4	

Data sheet

-  - Flow rate
up to 1000 l/min ($\pm 20\%$)

-  - Valve width
26.5 mm



General technical data

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

Technical data – 3/2-way valves

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

Data sheet

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

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

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

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

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

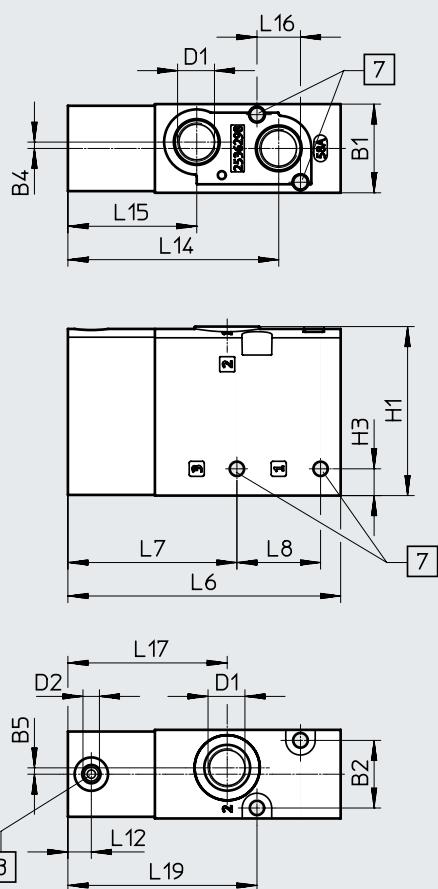
Information on materials	
Housing	Die-cast aluminium (painted)
Seals	HNBR, NBR, TPE-U(PU)
Screws	Galvanised steel
Note on materials	RoHS-compliant

Data sheet

Dimensions

3/2-way valve

Download CAD data → www.festo.com



[3] Port 10/12: pilot air

[7] For retaining screw M4

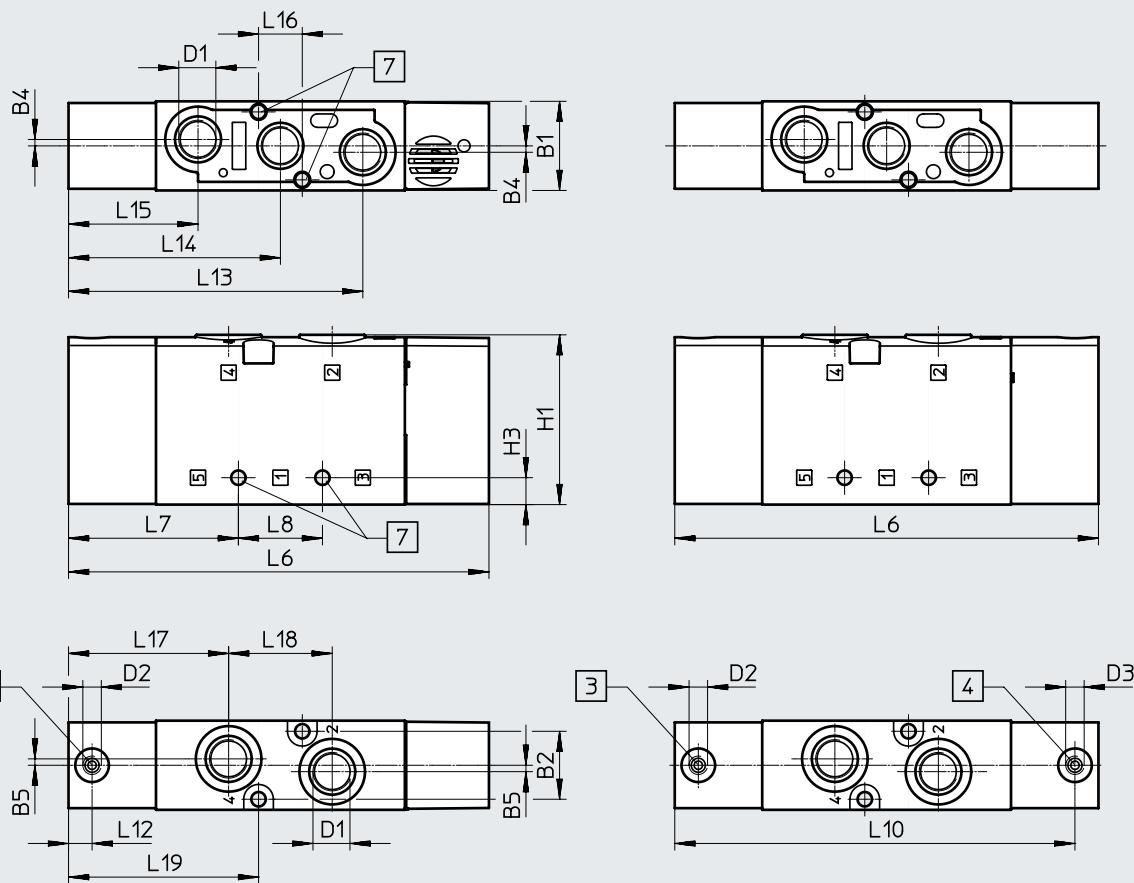
Type	B1	B2	B4	B5	D1	D2	H1	H3
VUWS-LT25-M32...-M-G14	26.5	20.2	1.9	1.9	G1/4	M5	50.5	8

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

Data sheet

Dimensions

5/2-way valve, monostable

Download CAD data → www.festo.com

[3] Port 14: pilot air

[4] Port 12: pilot air

[7] For retaining screw M4

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

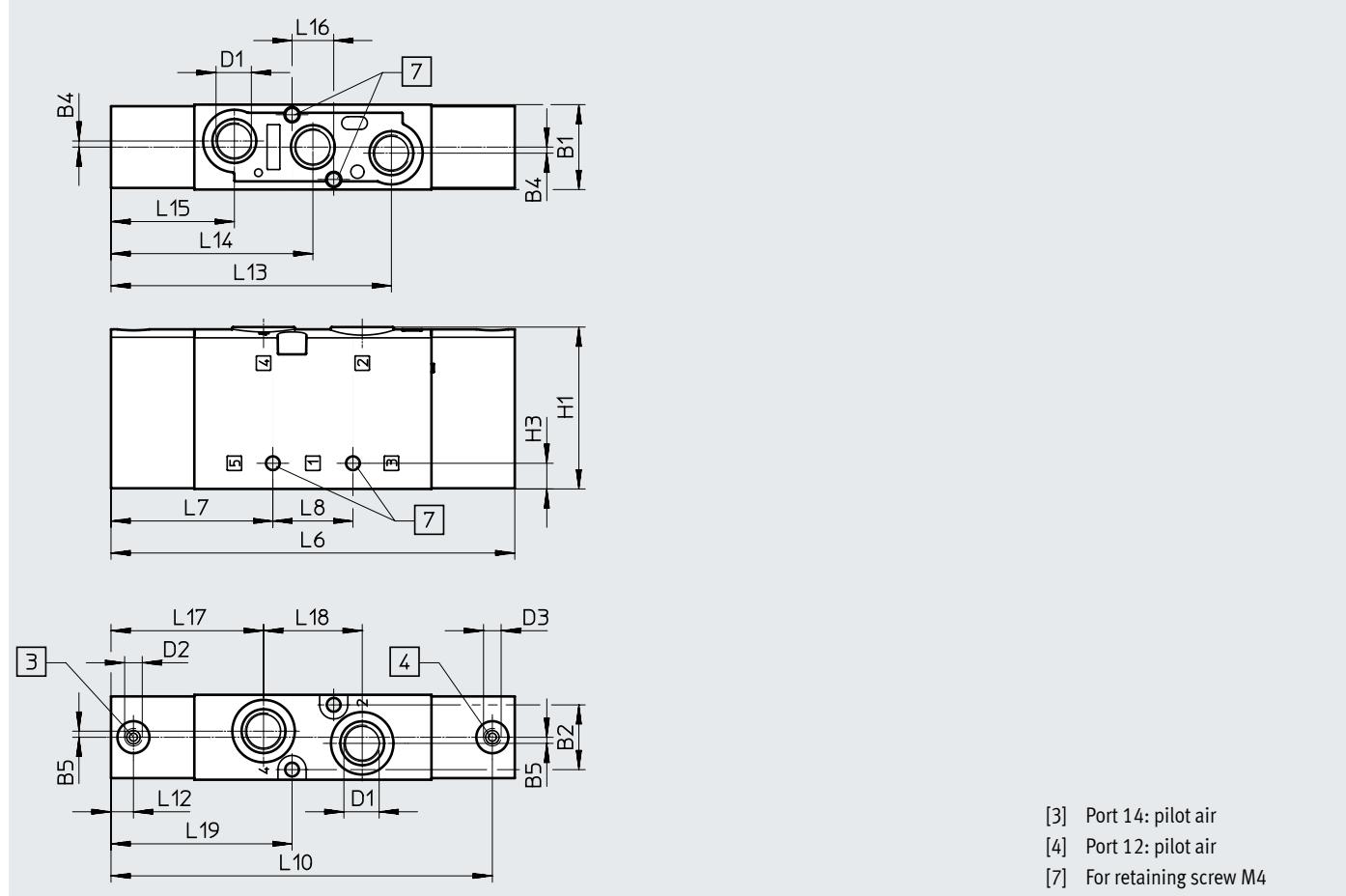
Type	L6	L7	L8	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-LT25-M52-M-G14	125	50.5	25	7	87.5	63	38.5	13	47.6	30.8	56.5

Data sheet

Dimensions

Download CAD data → www.festo.com

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



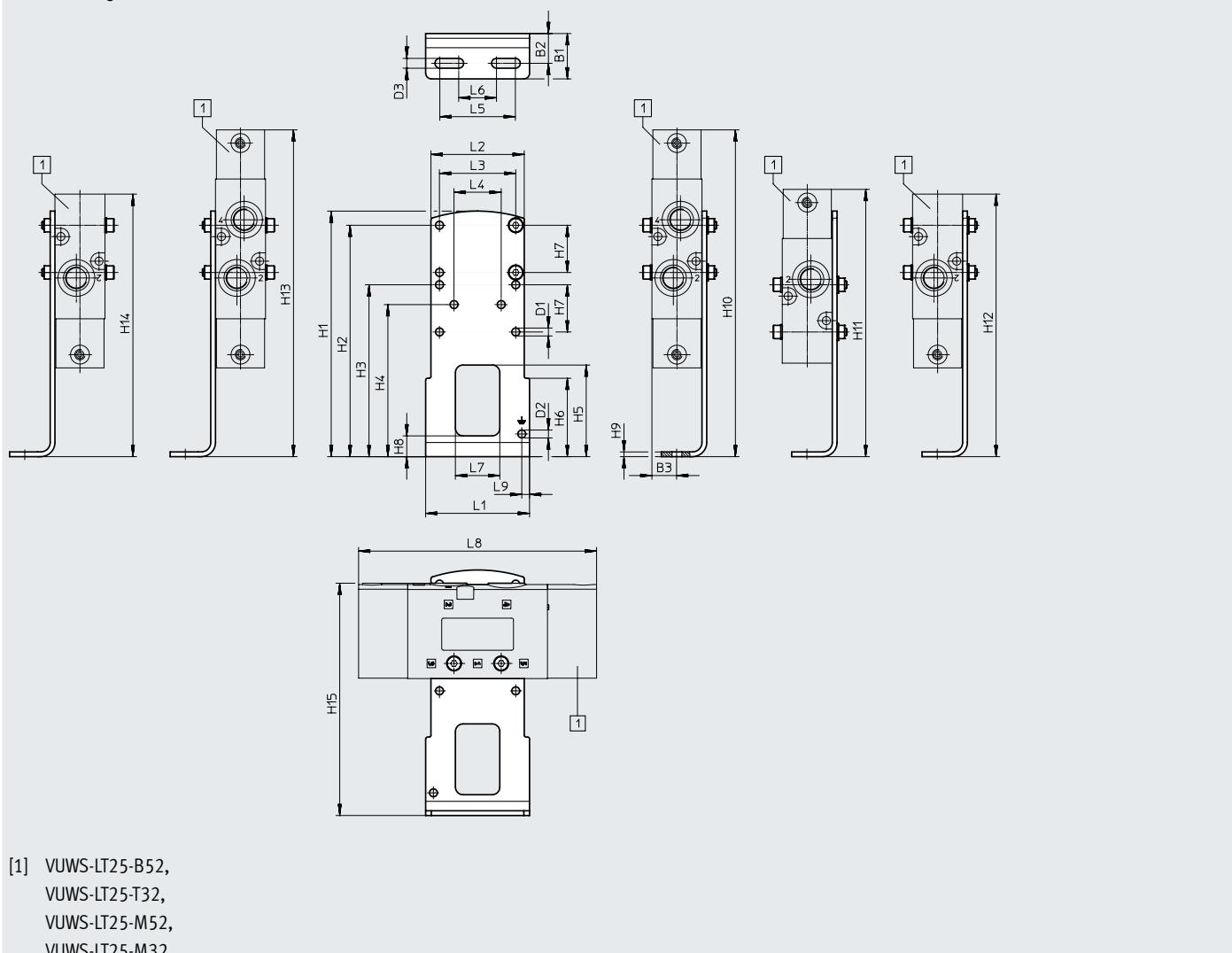
Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-LT25-B52-G14	26.5	20.2	1.9	1.9	G1/4	M5	M5	50.5	8
VUWS-LT25-T32...M-G14									

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

Accessories

Dimensions

Foot mounting

Download CAD data → www.festo.com

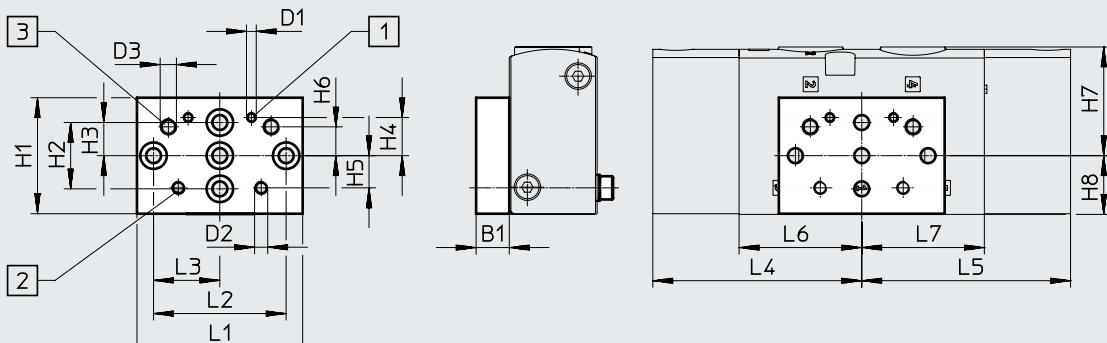
- [1] VUWS-LT25-B52,
- VUWS-LT25-T32,
- VUWS-LT25-M52,
- VUWS-LT25-M32

Type		B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	H1	H2	H3	H4
VAME-B10-25-A	VUWS-LT25-B52/T32	24	15.8	13.3	4.2	4.2	5.2	130	122.5	91	80.5
	VUWS-LT25-M52										
	VUWS-LT25-M32										
Type		H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-25-A	VUWS-LT25-B52/T32	48.5	41.5	25	11	2.5	173	141.5	173	173	173
	VUWS-LT25-M52										
	VUWS-LT25-M32										
Type		H15	L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-25-A	VUWS-LT25-B52/T32	123	55	49.4	40.4	25	40	20	23.5	126	4.1
	VUWS-LT25-M52										
	VUWS-LT25-M32										

Accessories

Dimensions

Wall mounting



[1] Mounting hole for size 20

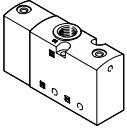
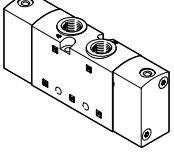
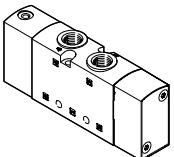
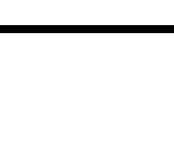
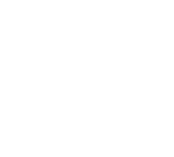
[2] Mounting hole for size 25

[3] Mounting hole for size 30

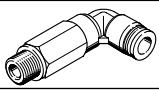
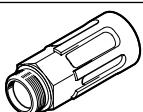
Download CAD data → www.festo.com

Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUWS-LT25-B52/T32	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUWS-LT25-M52										
	VUWS-LT25-M32										
Type		H7	H8	L1	L2	L3	L4	L5	L6	L7	
VAME-B10-20-W	VUWS-LT25-B52/T32	32.8	17.7	50	40	20	63	63	37	37	-
	VUWS-LT25-M52										
	VUWS-LT25-M32										

Accessories

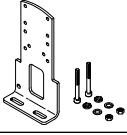
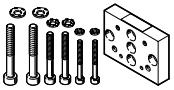
Ordering data – Pneumatic valves		Code	Valve function	Part no.	Type
3/2-way valve					
 Normally closed, monostable M32C-M Reset via mechanical spring, internal pilot air supply, flow direction not reversible Normally open, monostable M32U-M Reset via mechanical spring, internal pilot air supply, flow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

Accessories

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	QLS-G1/4-6	10
			132051	QLS-G1/4-6-100	100
		8 mm	186120	QLS-G1/4-8	10
			132052	QLS-G1/4-8-50	50
		10 mm	186122	QLS-G1/4-10	10
			132053	QLS-G1/4-10-50	50
Angled push-in fitting, long, with external hex					
	Connecting thread G1/4 for tubing O.D.	6 mm	186129	QSLL-G1/4-6	10
		8 mm	186131	QSLL-G1/4-8	10
		10 mm	186133	QSLL-G1/4-10	10
Silencer					
	With connecting thread G, polymer design	G1/4	2316	U-1/4	1
			534223	U-1/4-20	20
	With connecting thread G, metal design	G1/4	6842	U-1/4-B	1
	With connecting thread G, sintered design, long	G1/4	1205861	AMTE-M-LH-G14	20

1) Packaging unit

Accessories

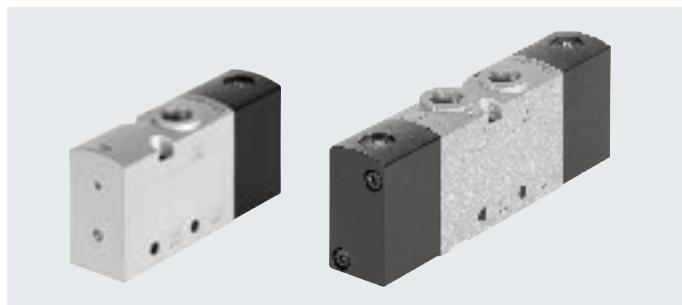
Ordering data		Description	Weight [g]	Part no.	Type
Foot mounting					
	With screw set for attaching the valve to the foot mounting	130	2293485	VAME-B10-25-A	
Wall mounting					
	With screw set for attaching the valve to the wall mounting	53	576413	VAME-B10-20-W	
Assortment of spare parts					
	Set comprising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

Pneumatic valves VUWS-LT, size 30

Data sheet

-  - Flow rate
up to 1800 l/min ($\pm 20\%$)

-  - Valve width
31 mm



General technical data

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

Technical data – 3/2-way valves

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

Data sheet

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

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

Operating and environmental conditions				
Order code for valves	M32	T32	M52	B52
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]			
Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4]			
Note on the operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)			
Operating pressure [bar]	1 ... 10	1 ... 10	2.5 ... 10	1.5 ... 10
Pilot pressure [bar]	2.5 ... 10	2.5 ... 10	2.5 ... 10	1.5 ... 10
Ambient temperature [°C]	–10 ... +60			
Temperature of medium [°C]	–10 ... +60			
Certification	cUL us - Recognized (OL)			
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 can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

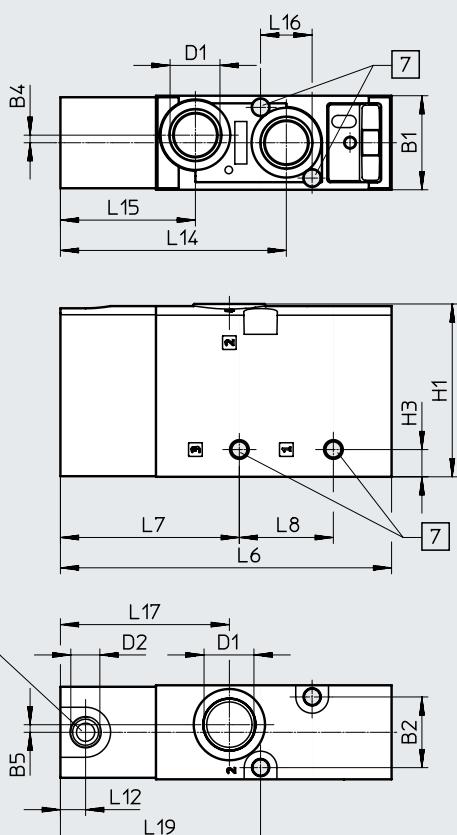
Information on materials				
Order code for valves	M32	T32	M52	B52
Housing	Die-cast aluminium (painted)			
Piston spool	POM			
Seals	HNBR, NBR, TPE-U(PU)			
Screws	Galvanised steel			
Note on materials	RoHS-compliant			

Data sheet

Dimensions

Download CAD data → www.festo.com

3/2-way valve, normally closed/open



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

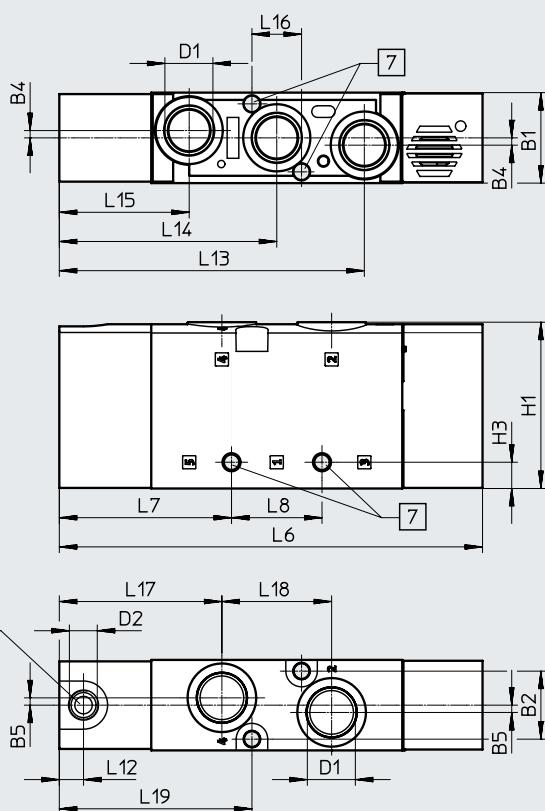
Type	B1	B2	B4	B5	D1	D2	H1	H3
VUWS-LT30-M32...-G38	31	23.3	2.5	2.5	G3/8	G1/8	57	9

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

Data sheet

Dimensions

5/2-way valve, monostable

Download CAD data → www.festo.com

[3] Port 14: pilot air

[7] For retaining screw M5

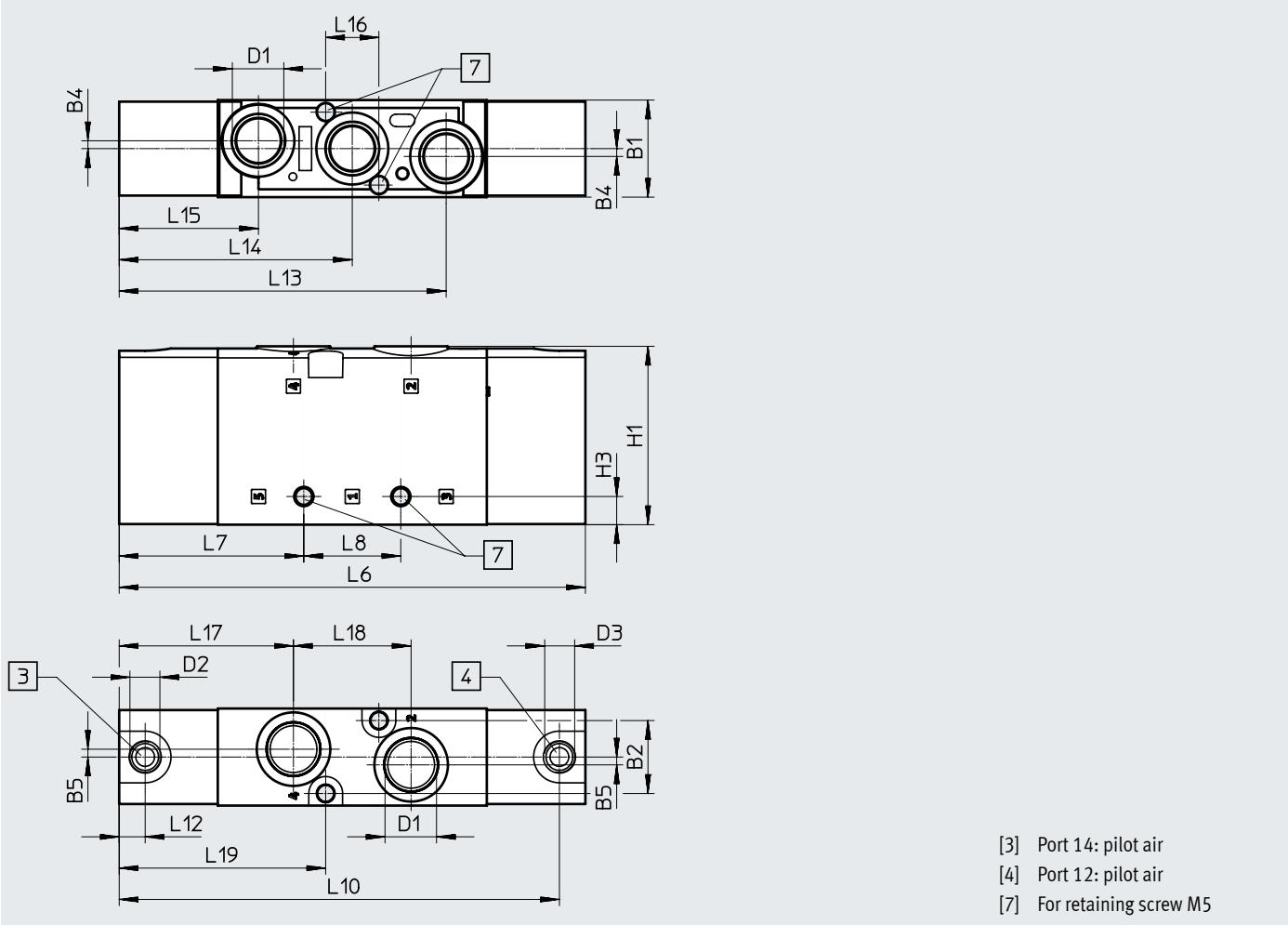
Type	B1	B2	B4	B5	D1	D2	H1	H3
VUWS-LT30-M52-G38	31	23.3	2.5	2.5	G3/8	G1/8	57	9
Type	L6	L7	L8	L12	L13	L14	L15	L17
VUWS-LT30-M52-G38	145	59	31	8.3	104.5	74.5	44.5	17

Data sheet

Dimensions

Download CAD data → www.festo.com

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



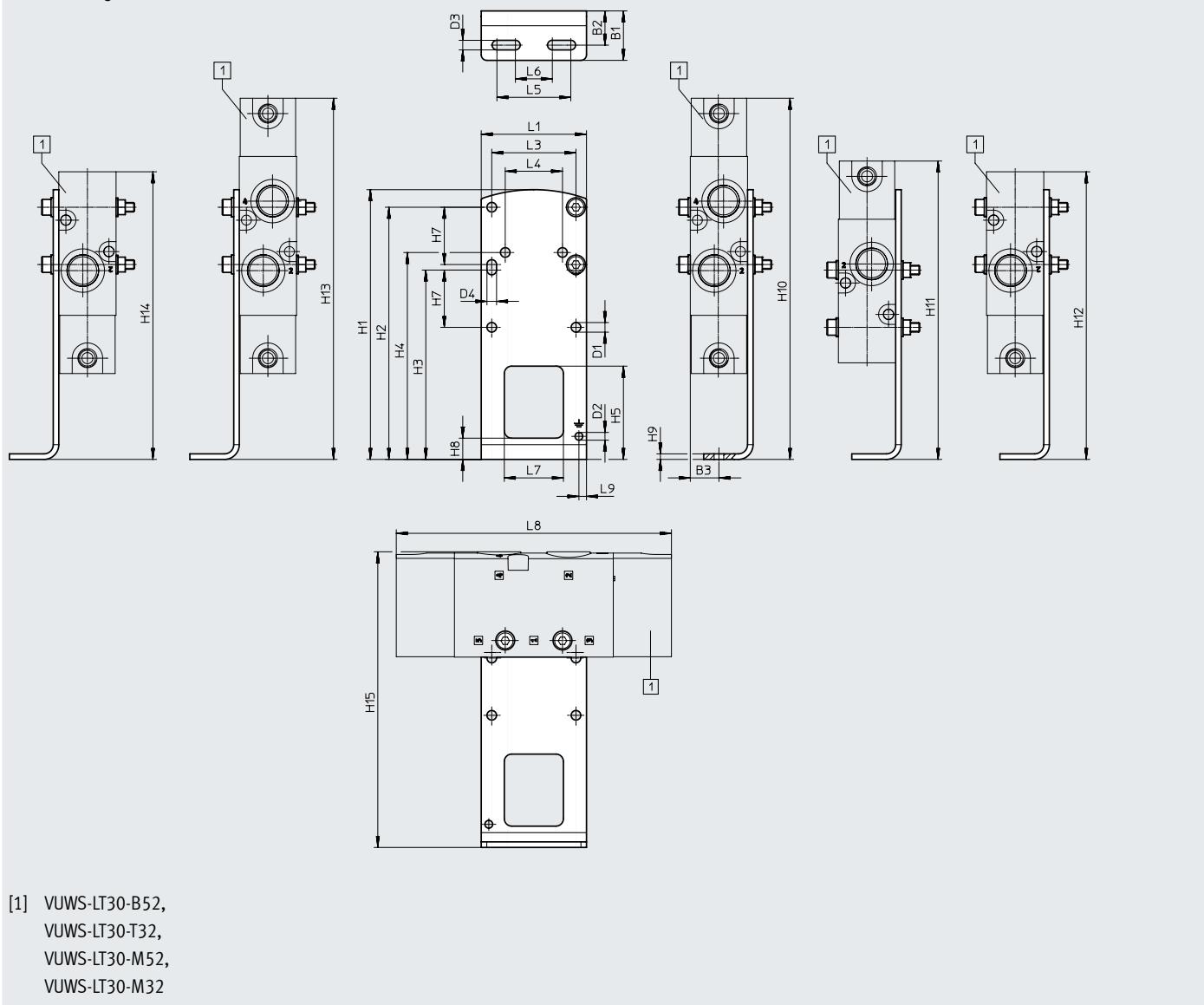
Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-LT30-B52-G38	31	23.3	2.5	2.5	G3/8	G1/8	G1/8	57	9
VUWS-LT30-T32....M-G38									

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

Accessories

Dimensions

Foot mounting

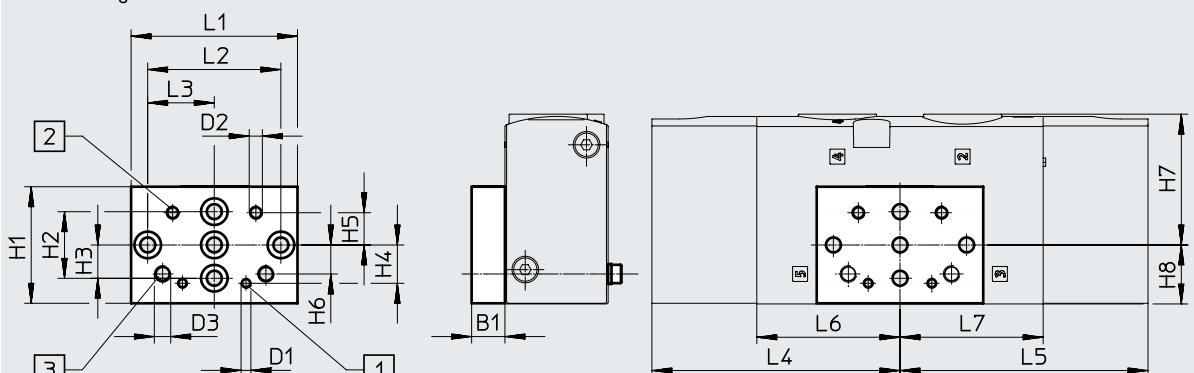


Type		B1	B2	B3	D1 Ø	D2 Ø	D3	D4	H1	H2	H3
VAME-B10-30-A	VUWS-LT30-B52/T32	26.8	18.5	15.5	5.2	4.2	5.2	5.2	146	136.5	102.5
	VUWS-LT30-M52										
	VUWS-LT30-M32										
Type		H4	H5	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-30-A	VUWS-LT30-B52/T32	112	50.5	31	11.5	3	195.5	161.5	195.5	195.5	195.5
	VUWS-LT30-M52										
	VUWS-LT30-M32										
Type		H15	L1	L3	L4	L5	L6	L7	L8	L9	
VAME-B10-30-A	VUWS-LT30-B52/T32	160	57	45.6	31	40	20	32	149	4.1	
	VUWS-LT30-M52										
	VUWS-LT30-M32										

Accessories

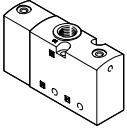
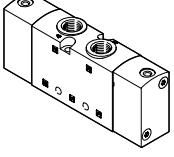
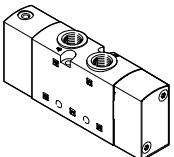
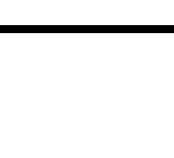
Dimensions

Wall mounting

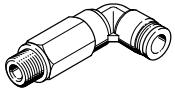
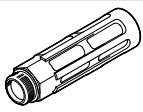


Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUWS-LT30-B52/T32	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUWS-LT30-M52										
	VUWS-LT30-M32										
VAME-B10-20-W	VUWS-LT30-B52/T32	39.3	17.7	50	40	20	74.5	74.5	43	43	-
	VUWS-LT30-M52										
	VUWS-LT30-M32										

Accessories

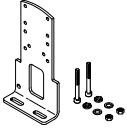
Ordering data – Pneumatic valves		Code	Valve function	Part no.	Type
3/2-way valve					
 Normally closed, monostable M32C-M Reset via mechanical spring, internal pilot air supply, flow direction not reversible Normally open, monostable M32U-M Reset via mechanical spring, internal pilot air supply, flow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

Accessories

Ordering data		Description	Part no.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread G1/8 for tubing O.D.	4 mm	186106	QS-G1/8-4-I	10
			133008	QS-G1/8-4-I-100	100
		6 mm	186107	QS-G1/8-6-I	10
			133009	QS-G1/8-6-I-100	100
	Connecting thread G3/8 for tubing O.D.	8 mm	186111	QS-G3/8-8-I	10
			186113	QS-G3/8-10-I	10
		12 mm	186114	QS-G3/8-12-I	10
Angled push-in fitting with external hex					
	Connecting thread G3/8 for tubing O.D.	8 mm	186121	QSL-G3/8-8	10
			132055	QSL-G3/8-8-50	50
		10 mm	186123	QSL-G3/8-10	10
			132056	QSL-G3/8-10-20	20
		12 mm	186124	QSL-G3/8-12	10
			132057	QSL-G3/8-12-20	20
Angled push-in fitting, long, with external hex					
	Connecting thread G3/8 for tubing O.D.	8 mm	186132	QSLL-G3/8-8	10
		10 mm	186134	QSLL-G3/8-10	10
		12 mm	186135	QSLL-G3/8-12	10
Silencer					
	With connecting thread G, metal design	G3/8	6843	U-3/8-B	1
	With connecting thread G, sintered design, long	G3/8	1205862	AMTE-M-LH-G38	10

1) Packaging unit

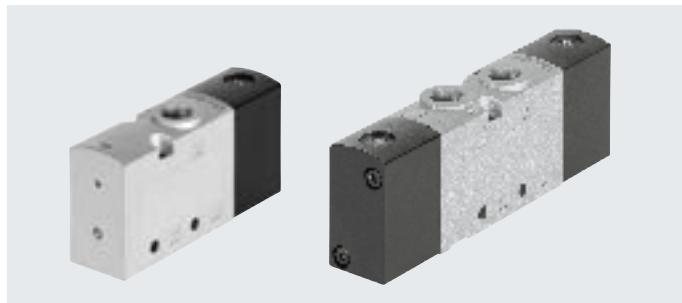
Accessories

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	–	8026337	VAME-B10-30-A	
Wall mounting					
	Set for mounting valves for size 20, 25, 30, 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	–	8035637	VAME-B10-30-MK	
Inscription label					
	40 pieces in frame	–	565306	ASLR-C-E4	

Data sheet

-  - Flow rate
up to 700 l/min ($\pm 20\%$)

-  - Valve width
21 mm



General technical data

Valve function	3/2	5/2	5/3				
Order code for valves	M32C	M32U	M52	B52	P53C	P53U	P53E
Valve width [mm]	21						
Design	Piston spool						
Pneumatic spring supply	Internal or external (external: identified by E in type code)						
Type of control	Direct						
Manual override (MO)	None						
Flow direction	Reversible with restrictions						
Overlap	Positive overlap						
Sealing principle	Soft						
Type of mounting	Optionally via through-holes ¹⁾ or on manifold rail						
Standard nominal flow rate qN [l/min]	700	700	700	600	600		
Through-holes (nominal width) [mm]	5.7	5.7	5.0	4.8	4.5		
Product weight [g]	145	178/190 ²⁾	211	207	207	207	
Type of actuation	Pneumatic						
Mounting position	Any						
Exhaust function	Can be throttled						
Venting hole	Not ducted						
Pneumatic connection 1, 2, 3	G1/8	G1/8	G1/8	G1/8	G1/8	G1/8	
connection 4, 5	-	-	G1/8	G1/8	G1/8	G1/8	
Pneumatic spring connection 12/14, 10	M5						

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

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

Data sheet

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

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

Order code for valves	P53C	P53U	P53E
Stable position	Monostable		
Reset method	Mechanical spring		
Switching times in [ms]	On	10	10
	Off	44	43
	Change-over	26	21

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

Operating and environmental conditions						
Valve function	M32 ... A M32 ... M	M32C-E M32U-E	M52-A	M52-E M52-M	B52	P53
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Note on the operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)					
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					
Certification	cUL us - Recognized (OL)					
Corrosion resistance class CRC ¹⁾	2					

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

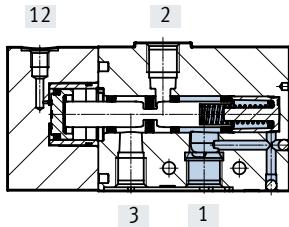
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Data sheet

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

Special features of pneumatic 3/2-way valves

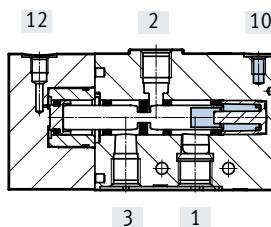
Reset: mechanical spring



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

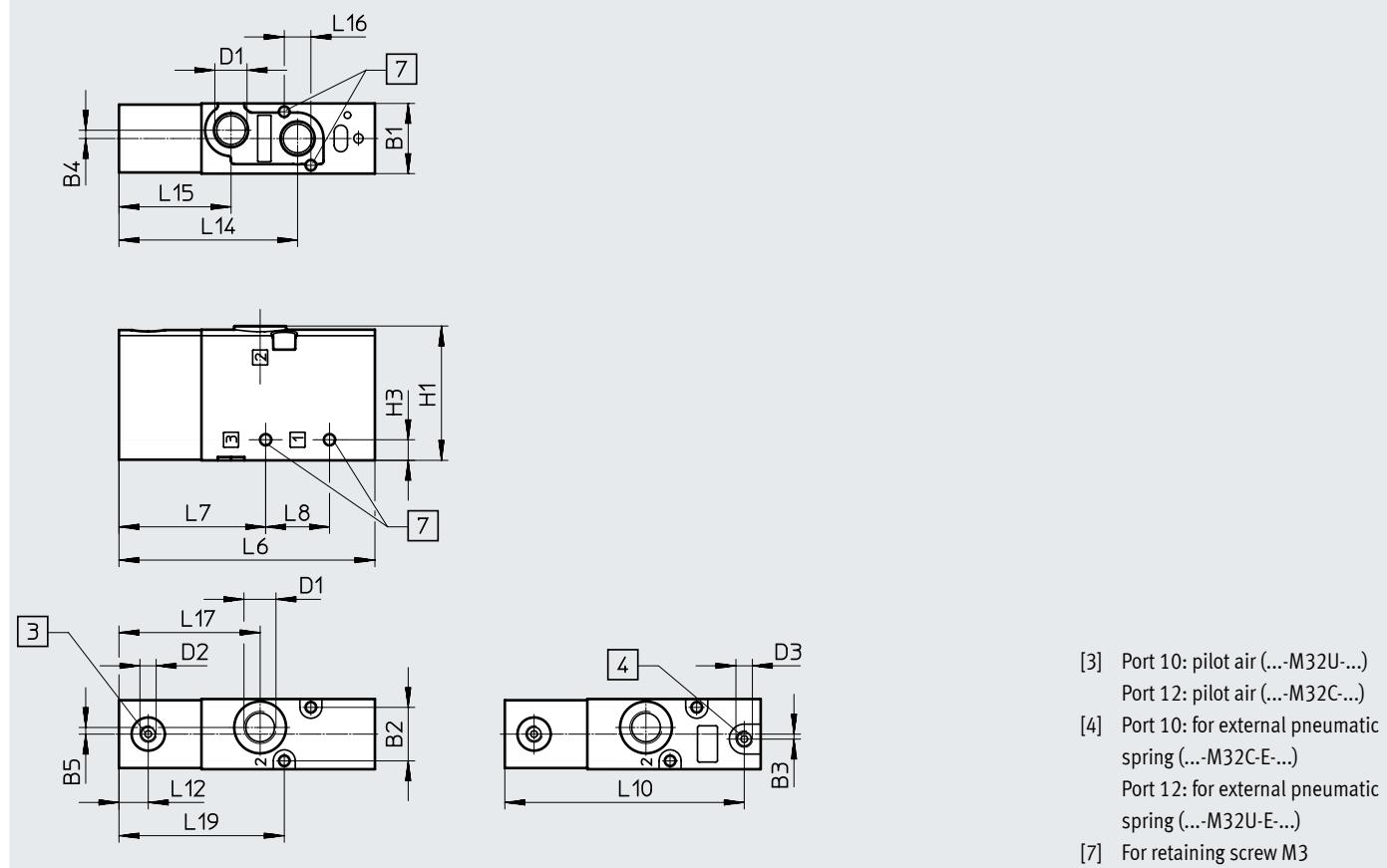
Data sheet

Dimensions

3/2-way valve, normally closed/open

Download CAD data → www.festo.com

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						

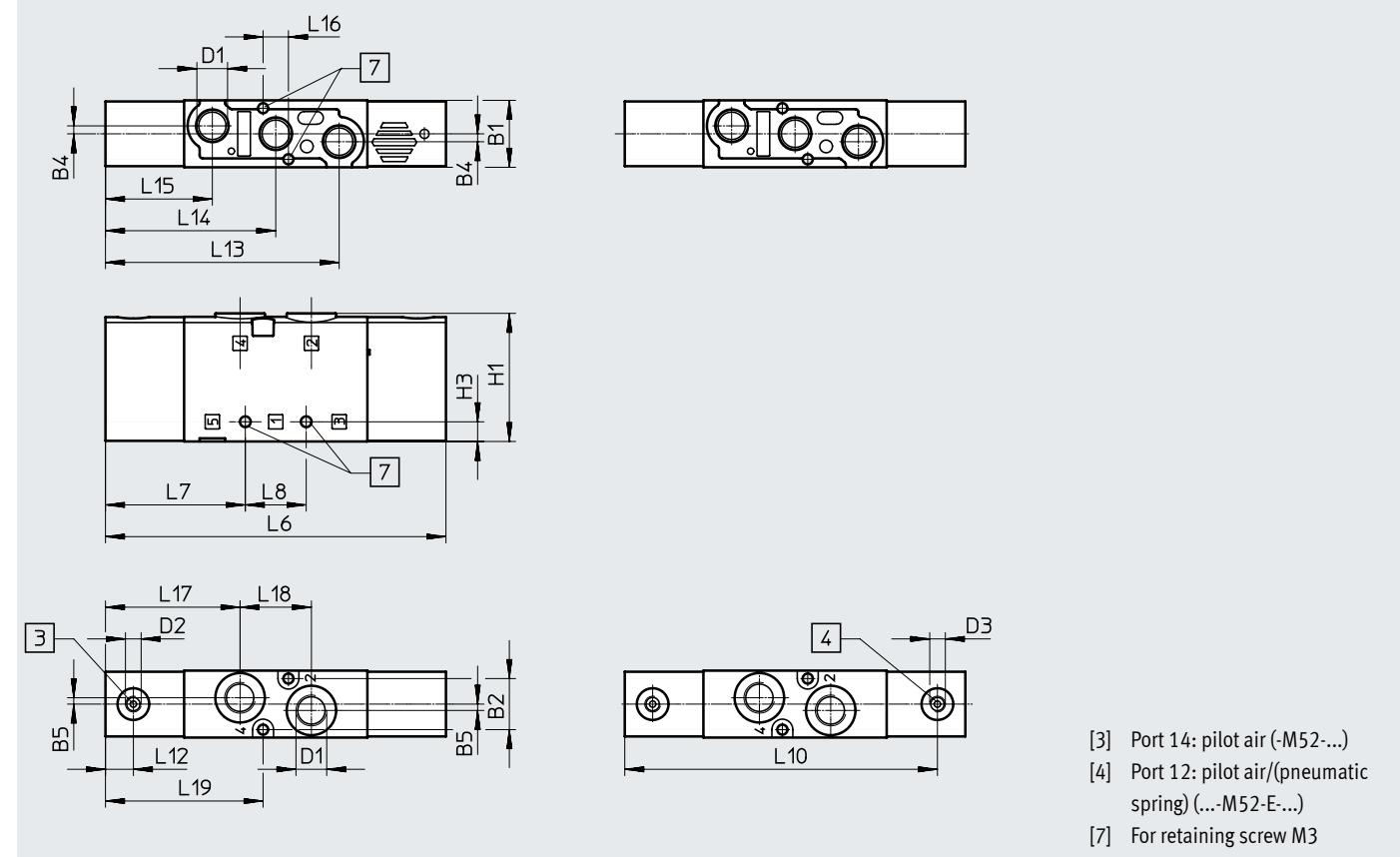
Data sheet

Dimensions

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

Download CAD data → www.festo.com

5/2-way valve, monostable



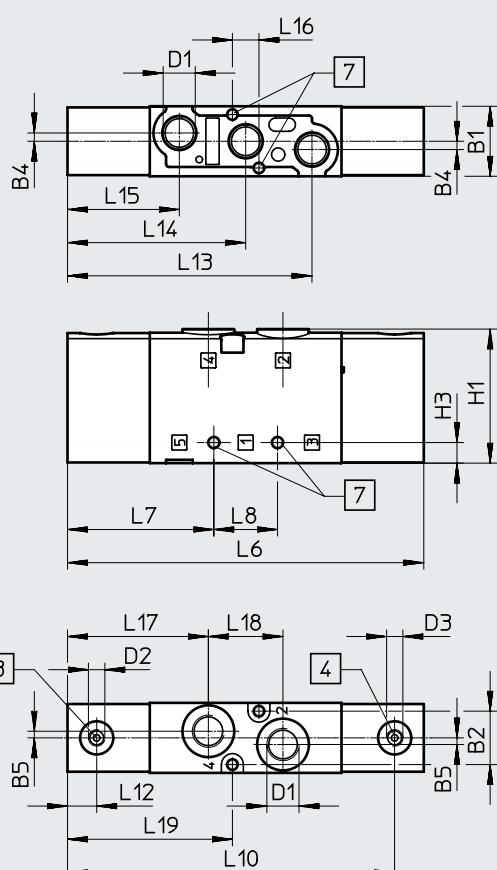
Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L20-M52-...-G18	21.1	16.1	2.5	2	G1/8	M5	-	40.4	6.2
VUWS-L20-M52-E-G18					G1/8	M5	M5		

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								

Data sheet

Dimensions

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

Download CAD data → www.festo.com

- [3] Port 14: pilot air
- [4] Port 12: pilot air
- [7] For retaining screw M3

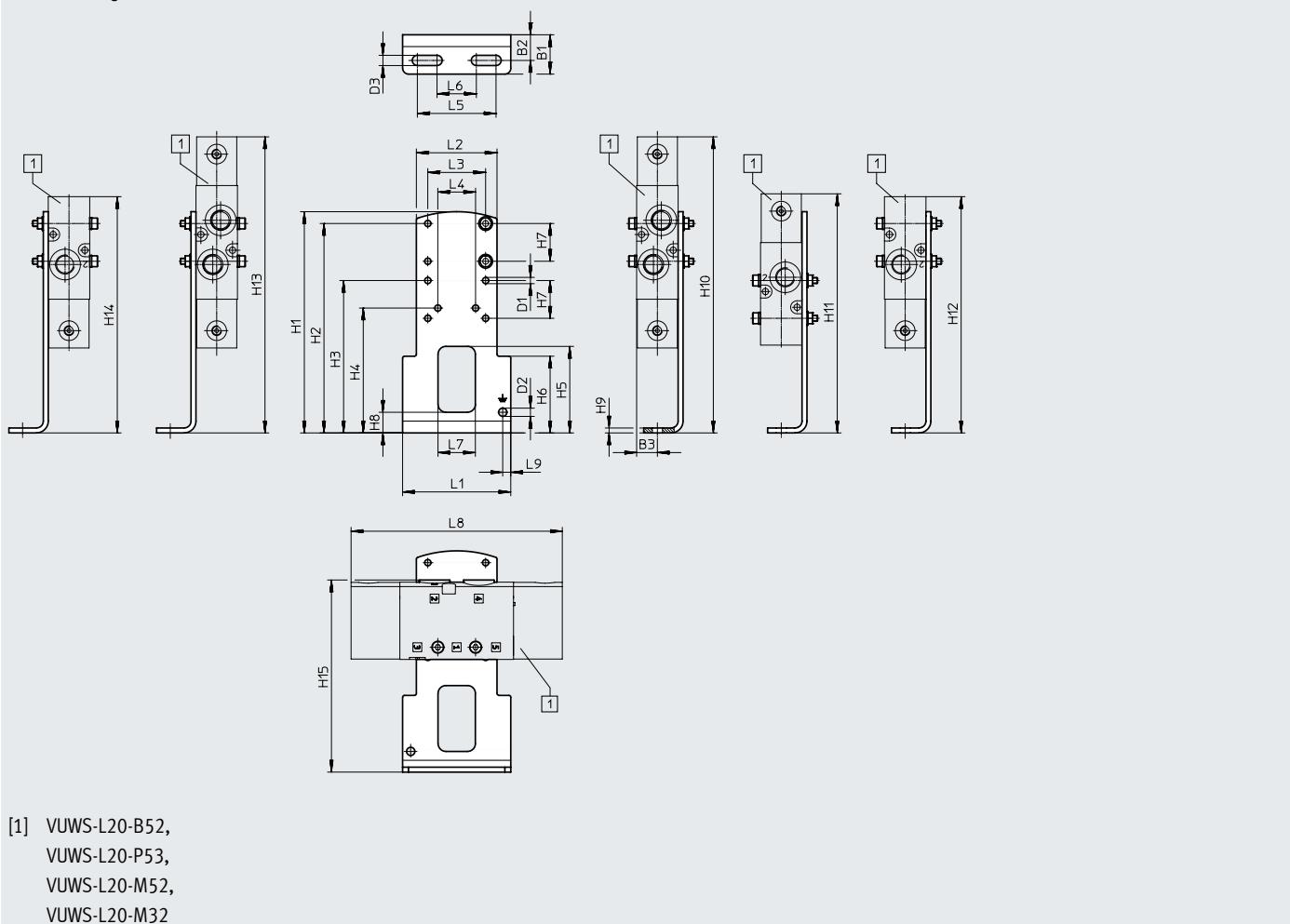
Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L20-P53....-M-G18	21.1	16.1	2.5	2	G1/8	M5	M5	40.4	6.2
VUWS-L20-B52-G18									

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

Data sheet

Dimensions

Foot mounting



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

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

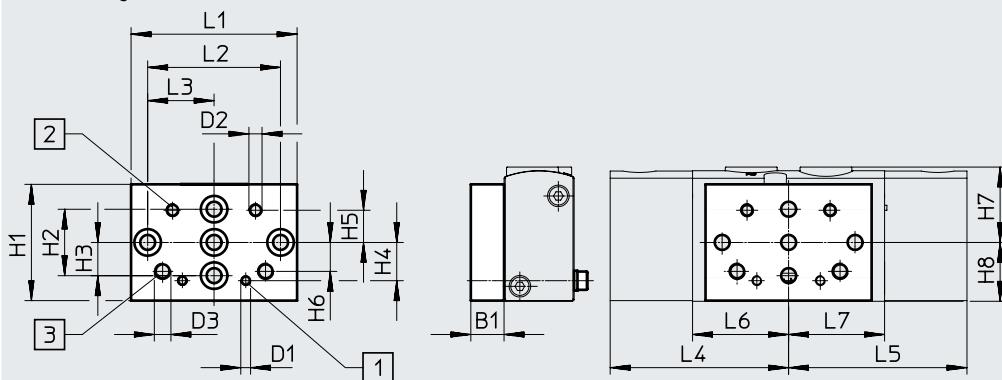
Type	H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-20-A	VUWS-L20-B52/P53	44	39	19.2	10.5	2.5	150.6	121.6	150.6	150.6
	VUWS-L20-M52									
	VUWS-L20-M32							120.2		120.2

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

Data sheet

Dimensions

Wall mounting



[1] Mounting hole for size 20

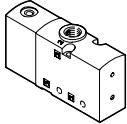
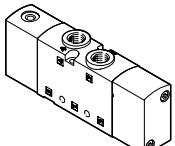
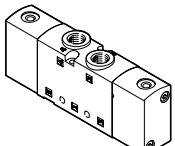
[2] Mounting hole for size 25

[3] Mounting hole for size 30

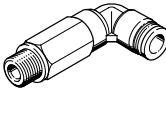
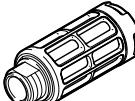
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUWS-L20-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUWS-L20-M52										
	VUWS-L20-M32										
VAME-B10-20-W	VUWS-L20-B52/P53	22.7	17.7	50	40	20	53.7	53.7	28.9	28.9	-
	VUWS-L20-M52										
	VUWS-L20-M32										

Pneumatic valves VUWS-L, size 20

Ordering data – Pneumatic valves, size 20

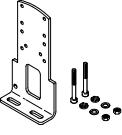
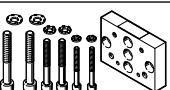
Ordering data – Pneumatic valves		Code	Valve function	Part no.	Type
3/2-way valve					
Normally closed, monostable					
	M32C-A	Reset via pneumatic spring, internal pneumatic spring, flow direction not reversible	575669	VUWS-L20-M32C-A-G18	
	M32C-E	Reset via pneumatic spring, external pneumatic spring,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

Accessories

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
Silencer					
	With connecting thread G, polymer design	G1/8	2307	U-1/8	1
			534222	U-1/8-50	50
	With connecting thread G, metal design	G1/8	6841	U-1/8-B	1
	With connecting thread G, sintered design, long	G1/8	1205860	AMTE-M-LH-G18	20

1) Packaging unit

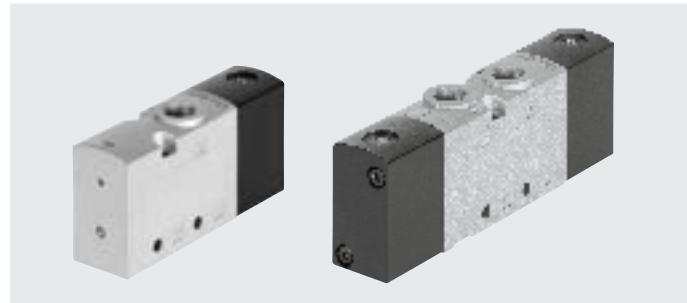
Accessories

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 for size 20, 25, 30, 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
Inscription label				
	40 pieces in frame	-	565306	ASLR-C-E4

Data sheet

-  - Flow rate
up to 1300 l/min ($\pm 20\%$)

-  - Valve width
26.5 mm



General technical data

Valve function	3/2	5/2	5/3				
Order code for valves	M32C	M32U	M52	B52	P53C	P53U	P53E
Valve width [mm]	26.5						
Design	Piston spool						
Pneumatic spring supply	Internal or external (external: identified by E in type code)						
Type of control	Direct						
Manual override (MO)	None						
Flow direction	Reversible with restrictions (not reversible: identified by A in type code)						
Overlap	Positive overlap						
Sealing principle	Soft						
Type of mounting	Optionally via through-holes ¹⁾ or on manifold rail						
Standard nominal flow rate qN [l/min]	1000	1000	1300	1300	1200	1000	1000
Through-holes (nominal width) [mm]	6.3	6.3	6.9	6.9	6.5	6.3	6.3
Product weight [g]	268	268	330/360 ²⁾	363	364	364	364
Type of actuation	Pneumatic						
Mounting position	Any						
Exhaust function	Can be throttled						
Venting hole	Not ducted						
Pneumatic connection 1, 2, 3	G1/4	G1/4	G1/4	G1/4	G1/4	G1/4	G1/4
connection 4, 5	–	–	G1/4	G1/4	G1/4	G1/4	G1/4
Pneumatic spring connection 12/14, 10	M5						

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

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

Technical data – 3/2-way valves

Order code for valves	M32C			M32U
Normal position	Closed			Open
Stable position	Monostable			Monostable
Reset method	Pneumatic spring	Mechanical spring	Pneumatic spring	Mechanical spring
Switching times in [ms]	On	10	10	10
	Off	25	43	25
	Change-over	–	–	–

Data sheet

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

Technical data – 5/3-way valves						
Order code for valves	P53C	P53U	P53E	P53F	P53G	P53H
Stable position	Monostable	–	–	–	–	–
Reset method	Mechanical spring	–	–	–	–	–
Switching times in [ms]	On	13	13	13	13	13
	Off	65	65	65	65	65
	Change-over	30	30	30	30	30

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

Operating and environmental conditions						
Valve function	M32 ... A	M32 ... E M32 ... M	M52-A	M52-E M52-M	B52	P53
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Note on the operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)					
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					
Certification	cUL us - Recognized (OL)					
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 can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

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

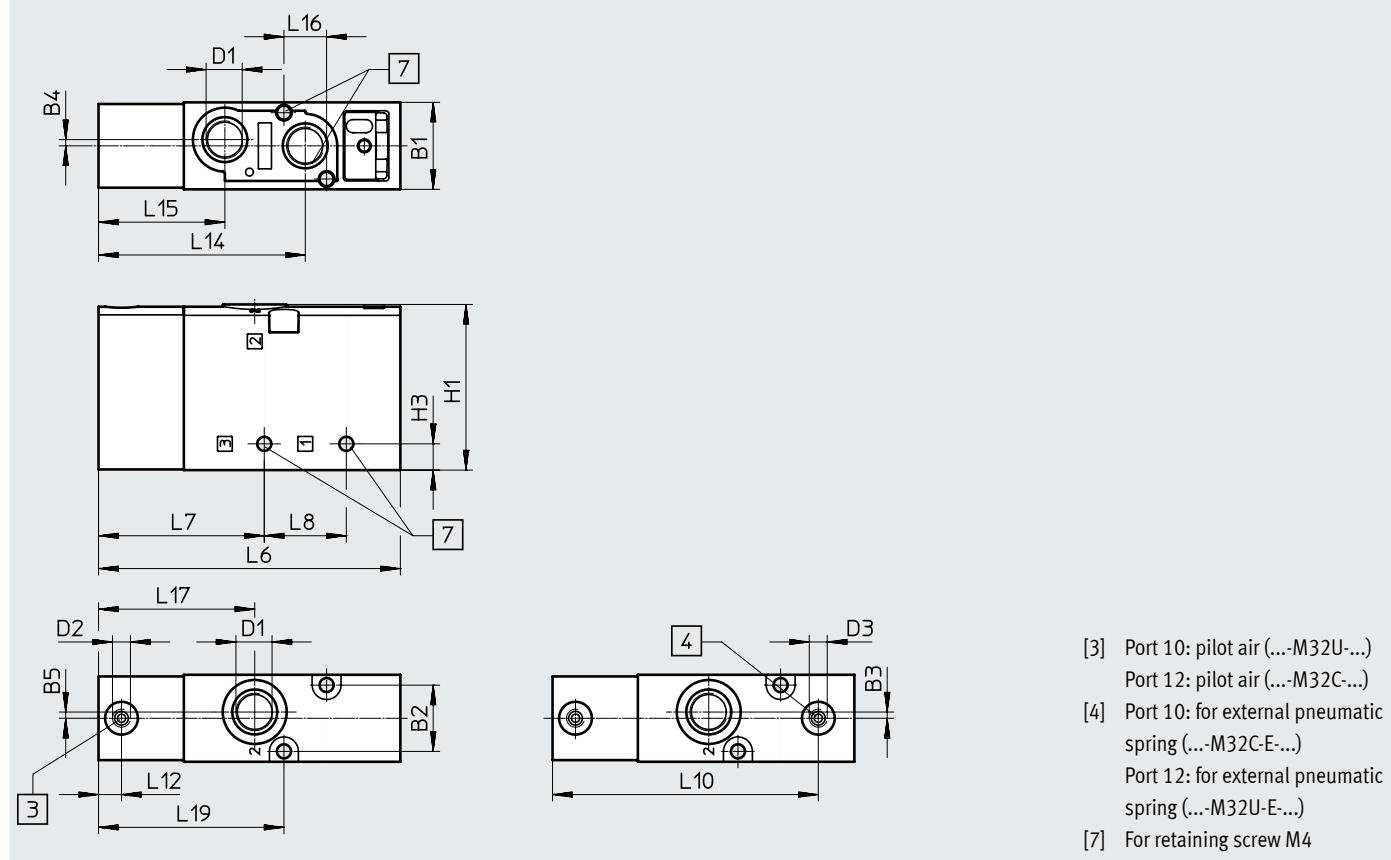
Data sheet

Dimensions

3/2-way valve, normally closed/open

Download CAD data → www.festo.com

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



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

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

Pneumatic valves VUWS-L, size 25

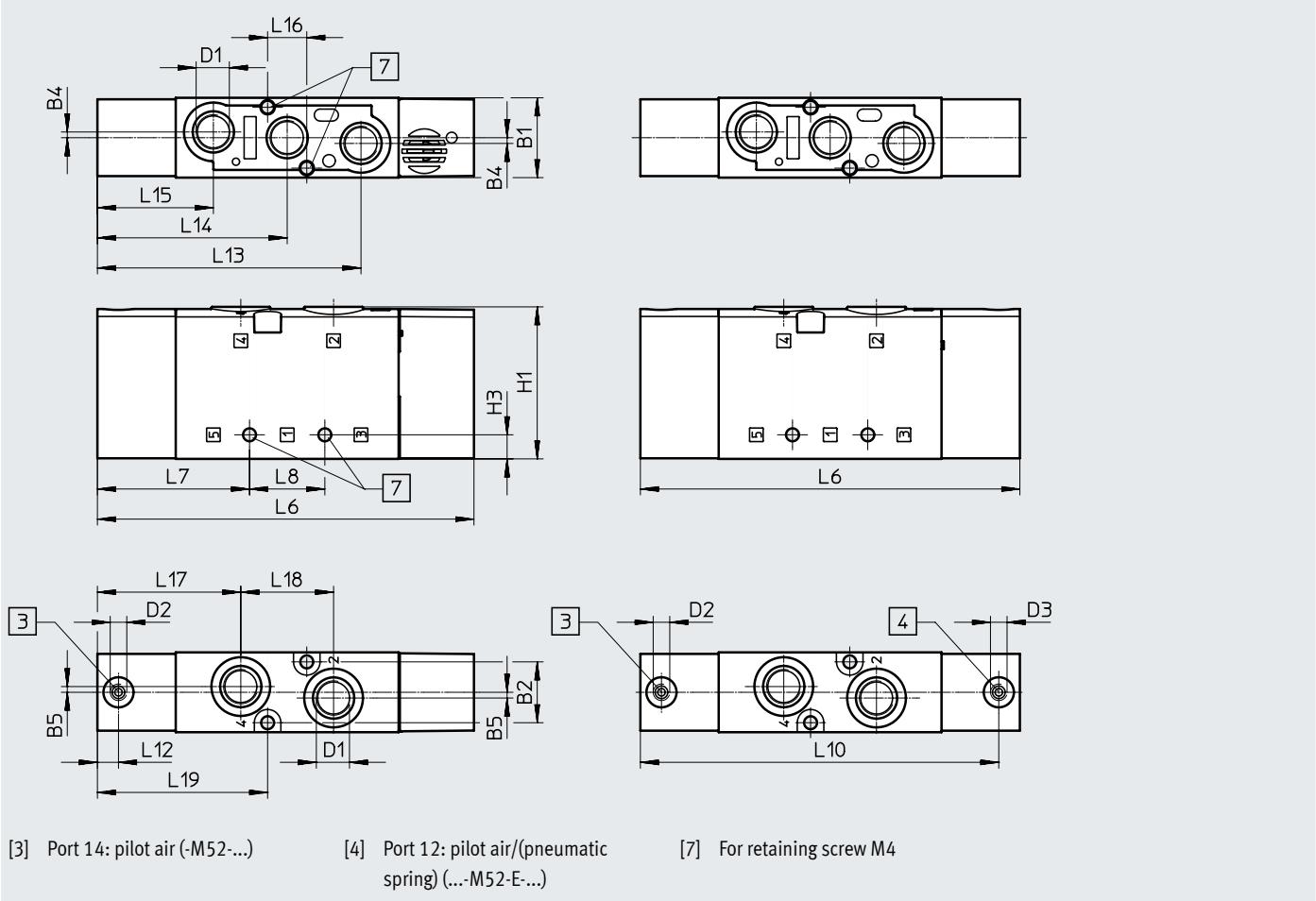
Data sheet

Dimensions

5/2-way valve, monostable

Download CAD data → www.festo.com

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



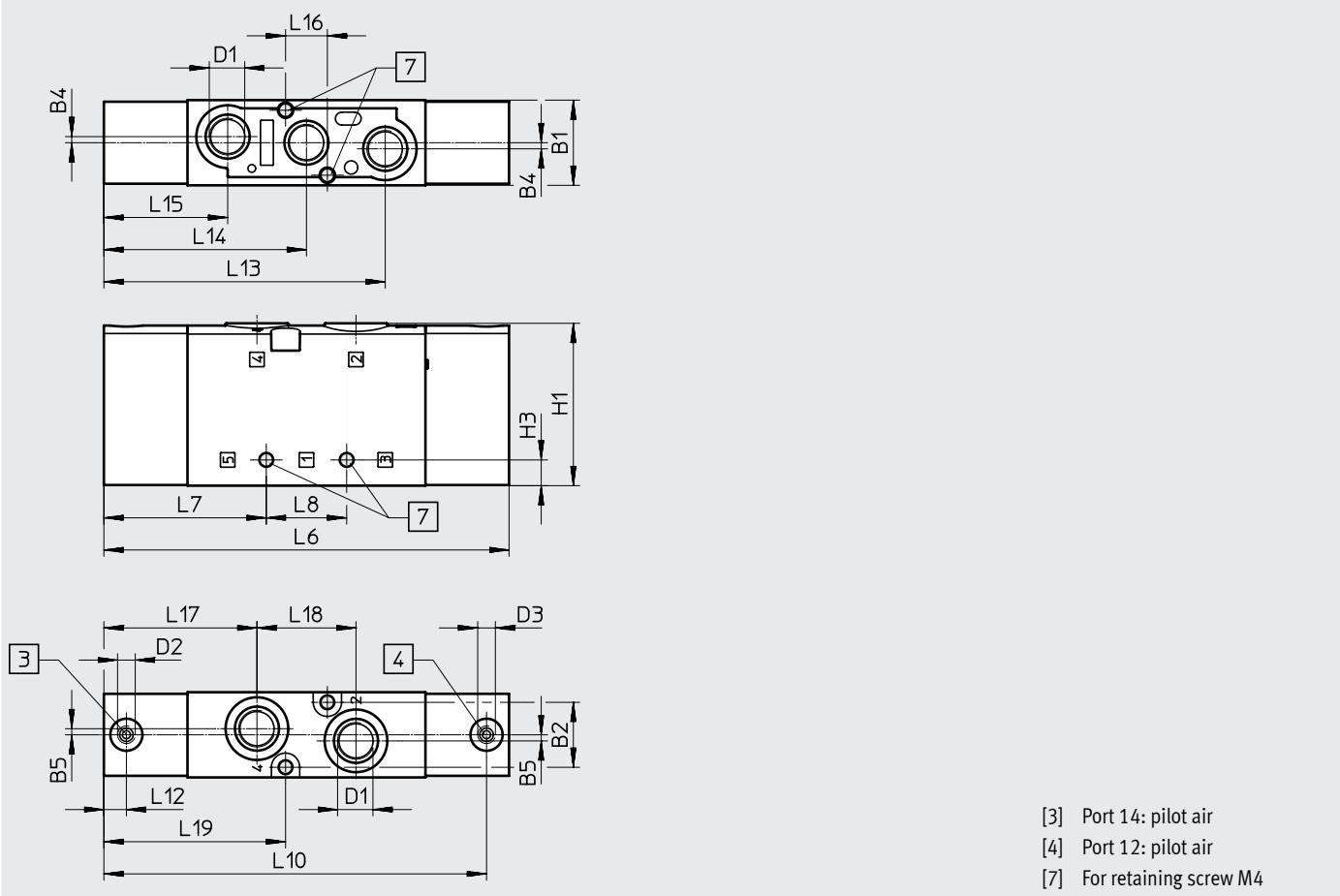
Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L25-M52-...-G14	26.5	20.2	1.9	1.9	G1/4	M5	-	50.5	8
VUWS-L25-M52-E-G14							M5		

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								

Data sheet

Dimensions

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

Download CAD data → www.festo.com

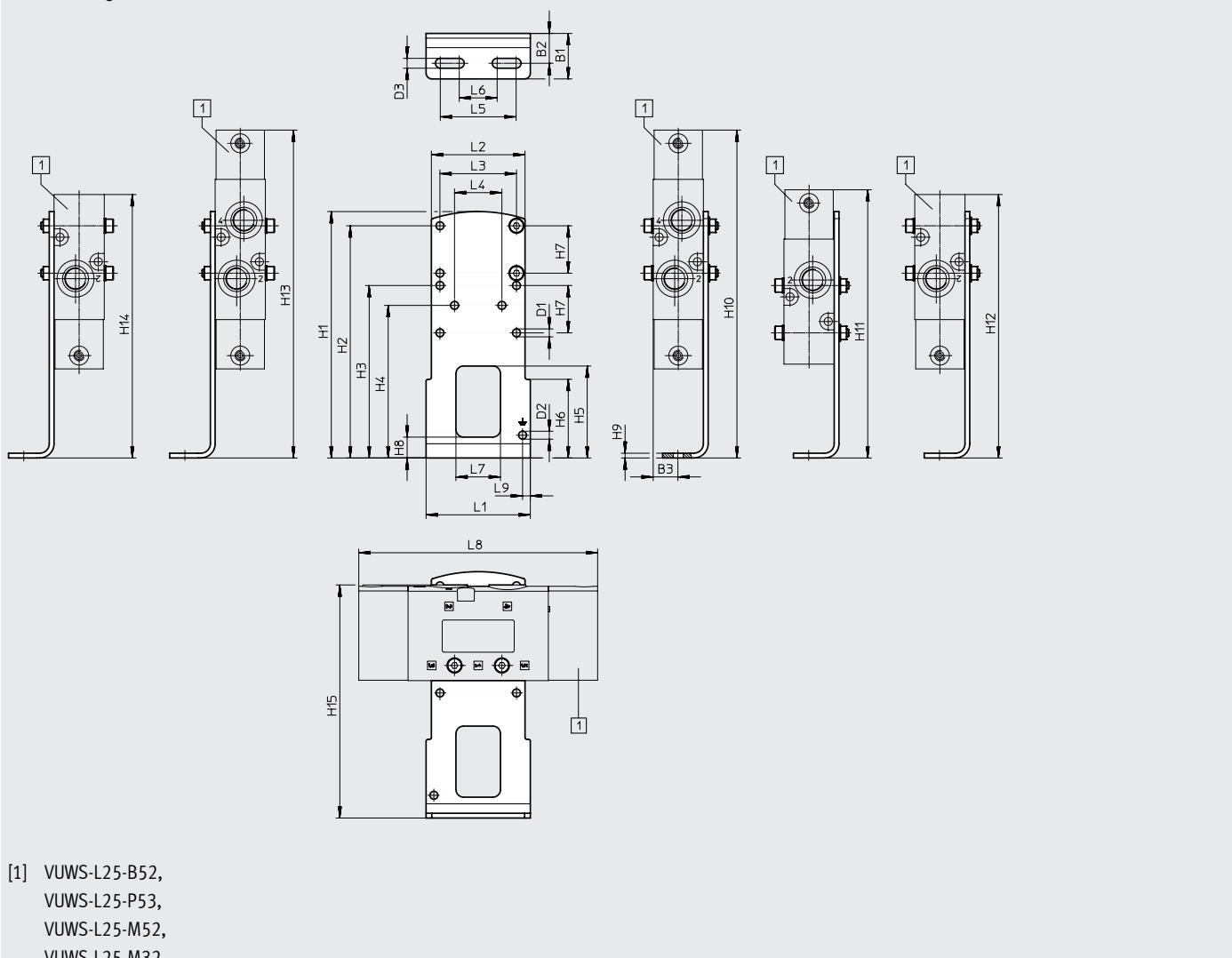
Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L25-P53....M-G14	26.5	20.2	1.9	1.9	G1/4	M5	M5	50.5	8
VUWS-L25-B52-G14									

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												

Data sheet

Dimensions

Foot mounting



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

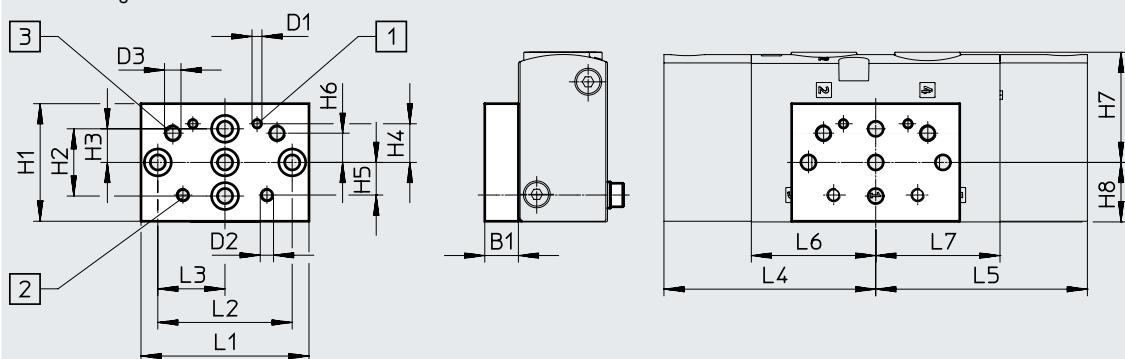
Type	H5	H6	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-25-A	VUWS-L25-B52/P53	48.5	41.5	25	11	2.5	173	141.5	173	173
	VUWS-L25-M52-E									172
	VUWS-L25-M52									139
	VUWS-L25-M32									

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

Data sheet

Dimensions

Wall mounting



[1] Mounting hole for size 20

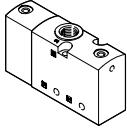
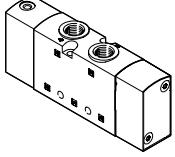
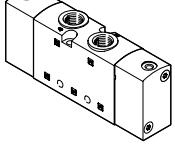
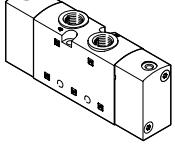
[2] Mounting hole for size 25

[3] Mounting hole for size 30

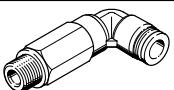
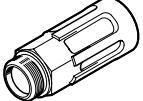
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUWS-L25-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUWS-L25-M52-E										
	VUWS-L25-M52										
	VUWS-L25-M32										
Type		H7	H8	L1	L2	L3	L4	L5	L6	L7	
VAME-B10-20-W	VUWS-L25-B52/P53	32.8	17.7	50	40	20	63	63	37	37	
	VUWS-L25-M52-E										
	VUWS-L25-M52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

Pneumatic valves VUWS-L, size 25

Ordering data

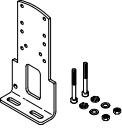
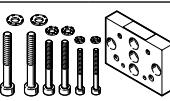
Ordering data – Pneumatic valves		Code	Valve function	Part no.	Type		
3/2-way valve							
	Normally closed, monostable						
	M32C-A	Reset via pneumatic spring, internal pneumatic spring, flow direction not reversible	575483	VUWS-L25-M32C-A-G14			
	M32C-E	Reset via pneumatic spring, external pneumatic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

Accessories

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	QSLL-G1/4-6	10
		8 mm	186131	QSLL-G1/4-8	10
		10 mm	186133	QSLL-G1/4-10	10
Silencer					
	With connecting thread G, polymer design	G1/4	2316	U-1/4	1
			534223	U-1/4-20	20
	With connecting thread G, metal design	G1/4	6842	U-1/4-B	1
	With connecting thread G, sintered design, long	G1/4	1205861	AMTE-M-LH-G14	20

1) Packaging unit

Accessories

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 for size 20, 25, 30, 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	12	8035636	VAME-B10-25-MK
Inscription label				
	40 pieces in frame	-	565306	ASLR-C-E4

Data sheet

- - Flow rate
up to 2300 l/min ($\pm 20\%$)

- - Valve width
31 mm

**General technical data**

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

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

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

Technical data – 3/2-way valves

Order code for valves	M32C-A	M32C-E	M32C-M	M32U-A	M32U-E	M32U-M
Normal position	Closed			Open		
Stable position	Monostable			Monostable		
Reset method	Pneumatic spring		Mechanical spring	Pneumatic spring		Mechanical spring
Switching times in [ms]	On	19	21	16	19	21
	Off	36	40	73	37	40
						73

Data sheet

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

Technical data – 5/3-way valves						
Order code for valves	P53C	P53U	P53E	P53F	P53G	P53H
Stable position	Monostable	—	—	—	—	—
Reset method	Mechanical spring	—	—	—	—	—
Switching times in [ms]	On	19	19	19	19	19
	Off	98	98	98	98	98
	Change-over	41	41	41	41	41

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

Operating and environmental conditions						
Valve function	M32 ... A M32 ... M	M32 ... E	M52-A	M52-E M52-M	B52	P53
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Note on the operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)					
Operating pressure [bar]	-0.9 ... 10	-0.9 ... +10	2.5 ... 10	-0.9 ... +10	-0.9 ... +10	-0.9 ... +10
Pilot pressure [bar]	2.5 ... 10	2.5 ... 10	2.5 ... 10	2.5 ... 10	1.5 ... 10	2.5 ... 10
Ambient temperature [°C]	-10 ... +60					
Temperature of medium [°C]	-10 ... +60					
Certification	c UL us - Recognized (OL)					
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 can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

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

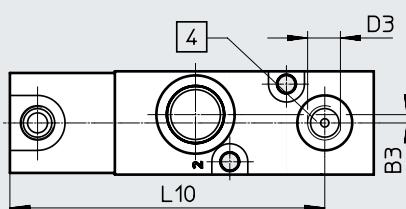
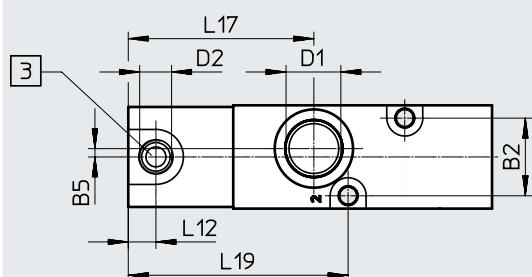
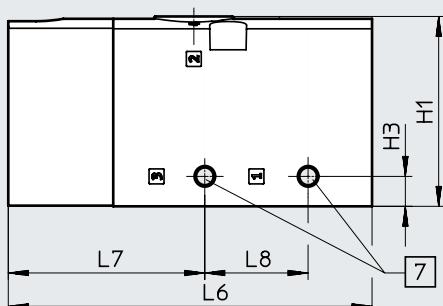
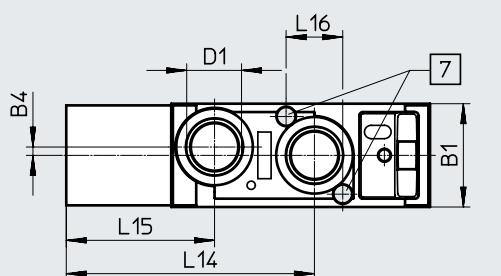
Data sheet

Dimensions

3/2-way valve, normally closed/open

Download CAD data → www.festo.com

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



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

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

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

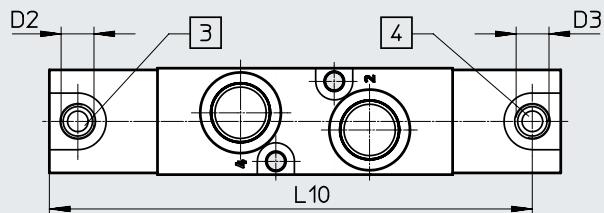
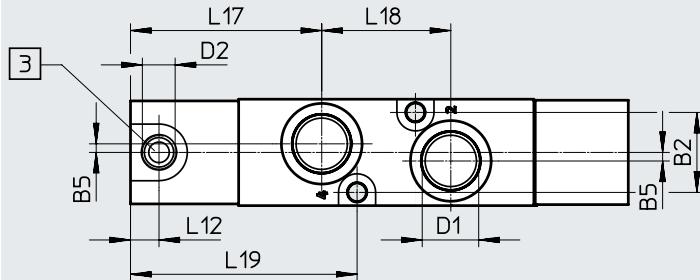
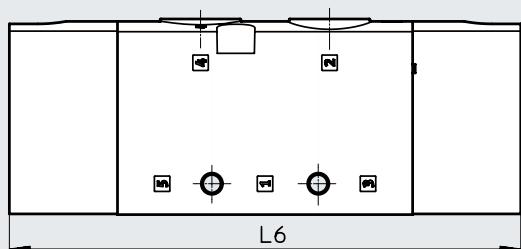
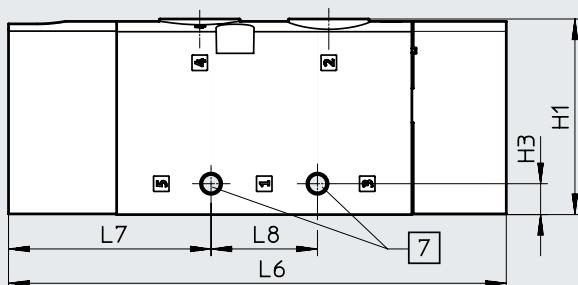
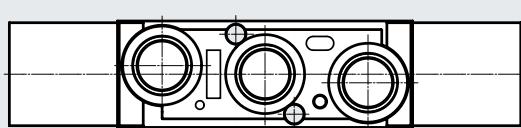
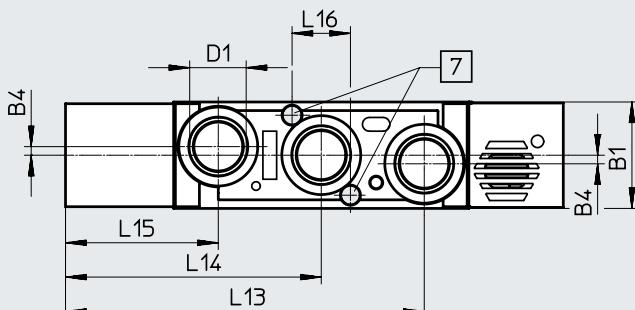
Data sheet

Dimensions

5/2-way valve, monostable

Download CAD data → www.festo.com

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



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

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

[7] For retaining screw M5

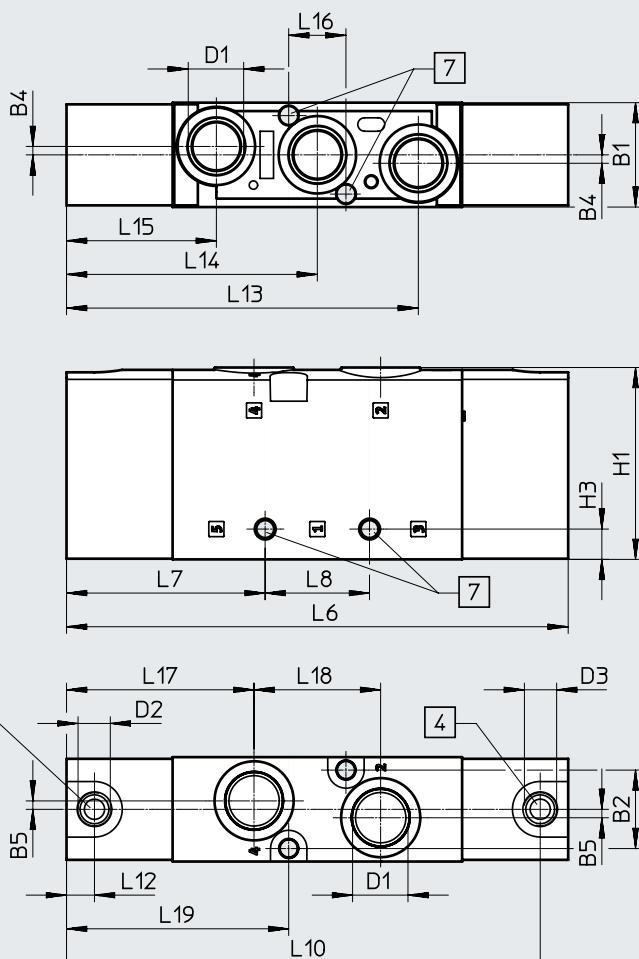
Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L30-M52-...-G38	31	23.3	2.5	2.5	G3/8	G1/8	-	57	9
VUWS-L30-M52-E-G38							G1/8		

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

Data sheet

Dimensions

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

Download CAD data → www.festo.com

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

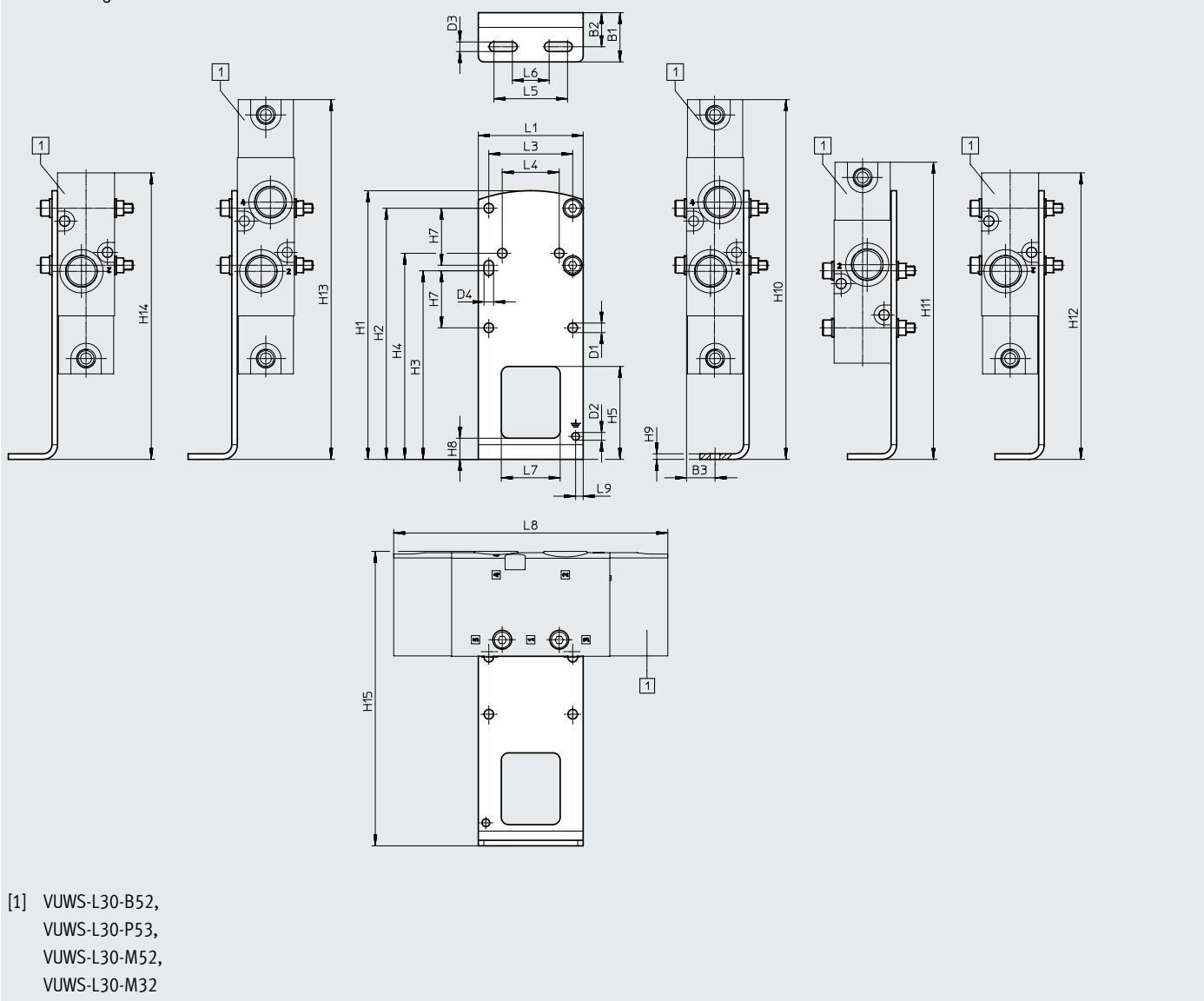
Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L30-P53....-M-G38	31	23.3	2.5	2.5	G3/8	G1/8	G1/8	57	9
VUWS-L30-B52-G38									

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

Data sheet

Dimensions

Foot mounting



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

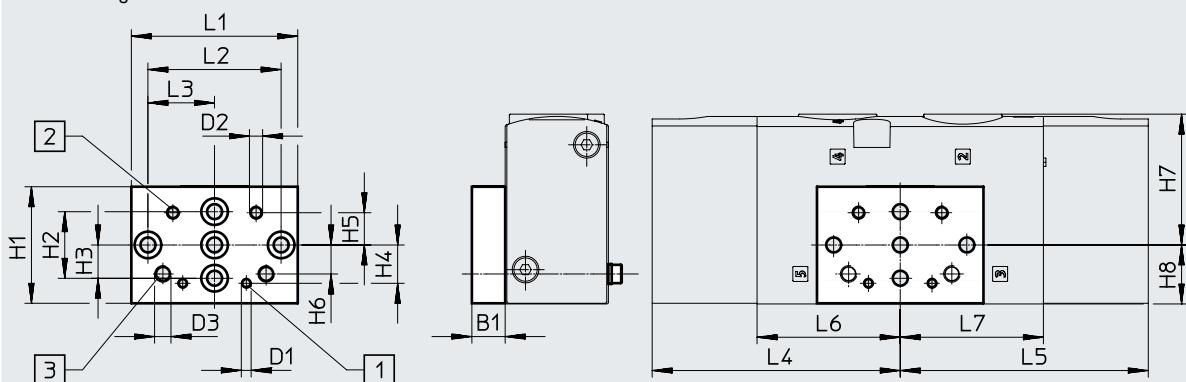
Type		H4	H5	H7	H8	H9	H10	H11	H12	H13	H14
VAME-B10-30-A	VUWS-L30-B52/P53	112	50.5	31	11.5	3	195.5	161.5	195.5	195.5	195.5
	VUWS-L30-M52-E										
	VUWS-L30-M52										
	VUWS-L30-M32										

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

Data sheet

Dimensions

Wall mounting



[1] Mounting hole for size 20

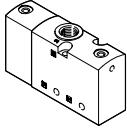
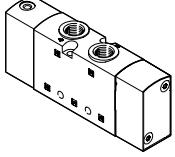
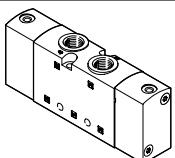
[2] Mounting hole for size 25

[3] Mounting hole for size 30

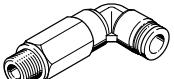
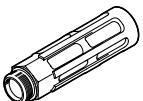
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUWS-L30-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUWS-L30-M52										
	VUWS-L30-M32										
VAME-B10-20-W	VUWS-L30-B52/P53	39.3	17.7	50	40	20	74.5	74.5	43	43	-
	VUWS-L30-M52										
	VUWS-L30-M32										

Pneumatic valves VUWS-L, size 30

Ordering data

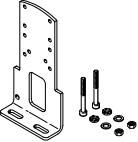
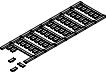
Ordering data – Pneumatic valves		Code	Valve function	Part no.	Type	
3/2-way valve						
	Normally closed, monostable	M32C-A	Reset via pneumatic spring, internal pneumatic spring, flow direction not reversible	575576	VUWS-L30-M32C-A-G38	
	M32C-E	Reset via pneumatic spring, external pneumatic spring,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

Accessories

Ordering data		Description	Part no.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread G1/8 for tubing O.D.	4 mm	186106	QS-G1/8-4-I	10
			133008	QS-G1/8-4-I-100	100
		6 mm	186107	QS-G1/8-6-I	10
			133009	QS-G1/8-6-I-100	100
	Connecting thread G3/8 for tubing O.D.	8 mm	186111	QS-G3/8-8-I	10
		10 mm	186113	QS-G3/8-10-I	10
		12 mm	186114	QS-G3/8-12-I	10
Angled push-in fitting with external hex					
	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, long, with external hex					
	Connecting thread G3/8 for tubing O.D.	8 mm	186132	QSLL-G3/8-8	10
		10 mm	186134	QSLL-G3/8-10	10
		12 mm	186135	QSLL-G3/8-12	10
Silencer					
	With connecting thread G, metal design	G3/8	6843	U-3/8-B	1
	With connecting thread G, sintered design, long	G3/8	1205862	AMTE-M-LH-G38	10

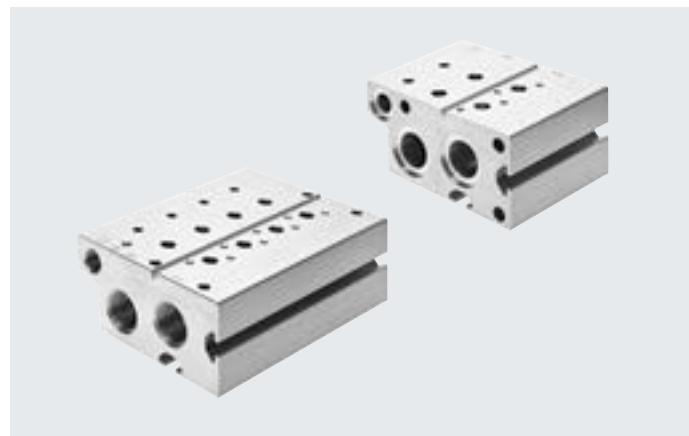
1) Packaging unit

Accessories

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	–	8026337	VAME-B10-30-A
Wall mounting				
	Set for mounting valves for size 20, 25, 30, 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	–	8035637	VAME-B10-30-MK
Inscription label				
	40 pieces in frame	–	565306	ASLR-C-E4

Data sheet – Manifold block, size 20

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



General technical data		Manifold block standard		Extension module for standard manifold block		Manifold block compact		Common supply manifold	
		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	3/2, 5/2, 5/3
Grid dimension [mm]		22							
Type of mounting		Via through-hole						Via 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 can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

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
Common supply manifold for mounting on both sides									
VABM-B10-20-G38-...-P53	226	268	310	352	395	437	479	521	563
Common supply manifold for mounting on one side									
VABM-B10-20-G38-...-P53-E	240	282	324	–	–	–	–	–	–

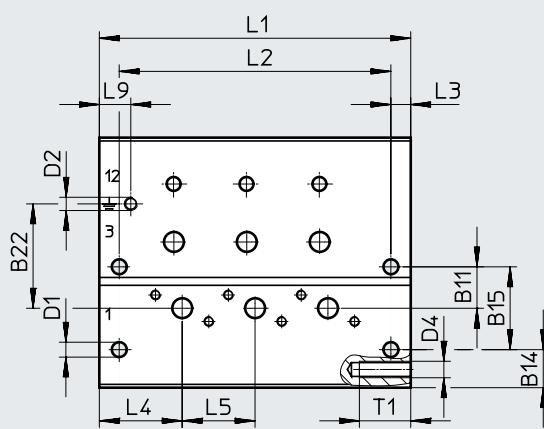
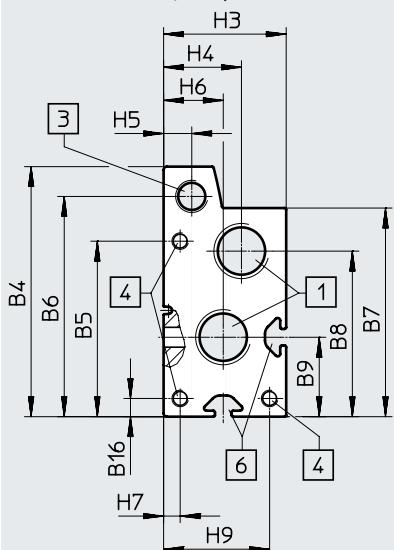
Information on materials									
Information on materials	Wrought aluminium alloy								
Note on materials	RoHS-compliant								

Manifold block VABM

Data sheet – Manifold block, size 20

Dimensions

Manifold block for 3/2-way valves, standard



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

[3] Port 12 (at both ends): G1/8

[4] Thread M5x15.5 for extension
module

[6] Profile slot IPM-05, system 5

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

Type	D1 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

Data sheet – Manifold block, size 20

Dimensions

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

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

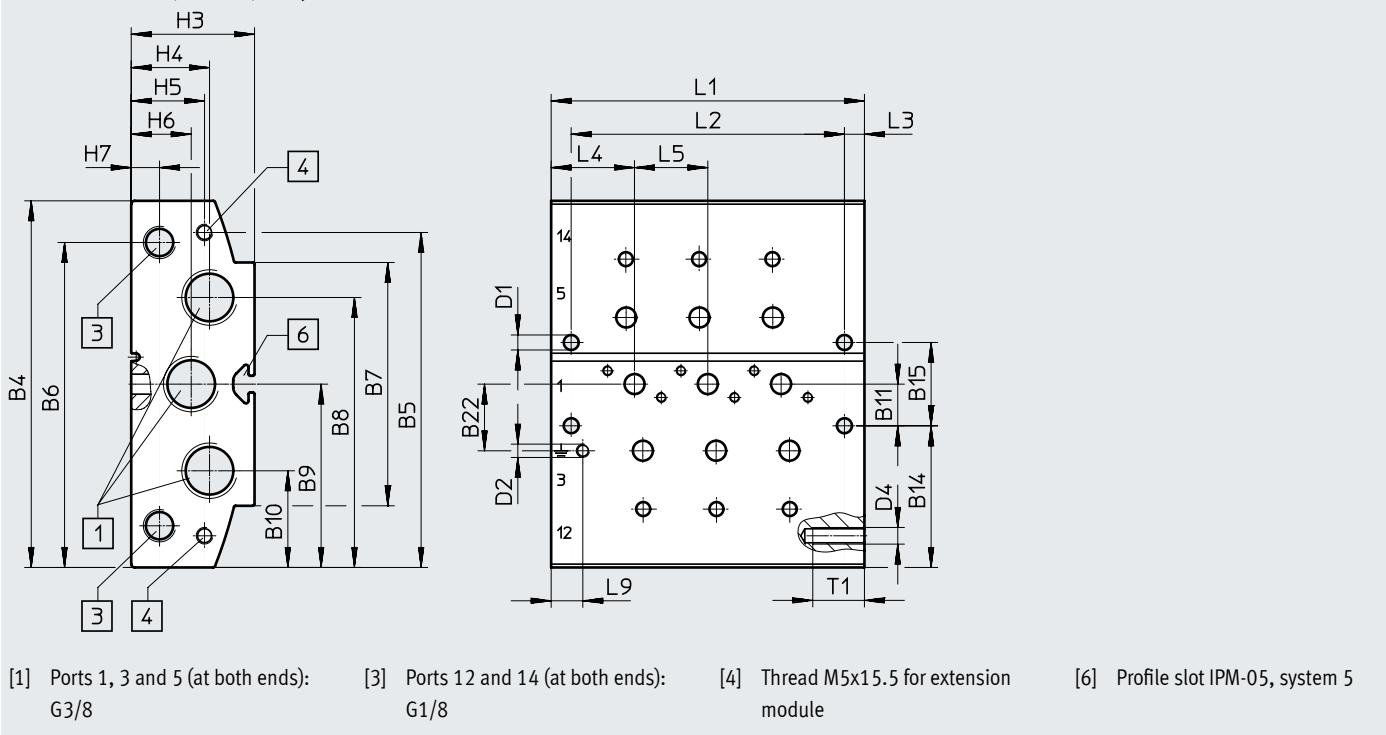
Type	B4	B5	B6	B7	B8	B9	B16	H3	H4	H5	H6	H7	H9	L4	L5	L10
VABM-B10-20EEE-G38-2-P3	75.5	53	66.5	63	50	24	5.5	37	23.5	8.5	18	5	32	13	22	10
Valve positions	2															
L1 [mm]	60															

Manifold block VABM

Data sheet – Manifold block, size 20

Dimensions

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



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

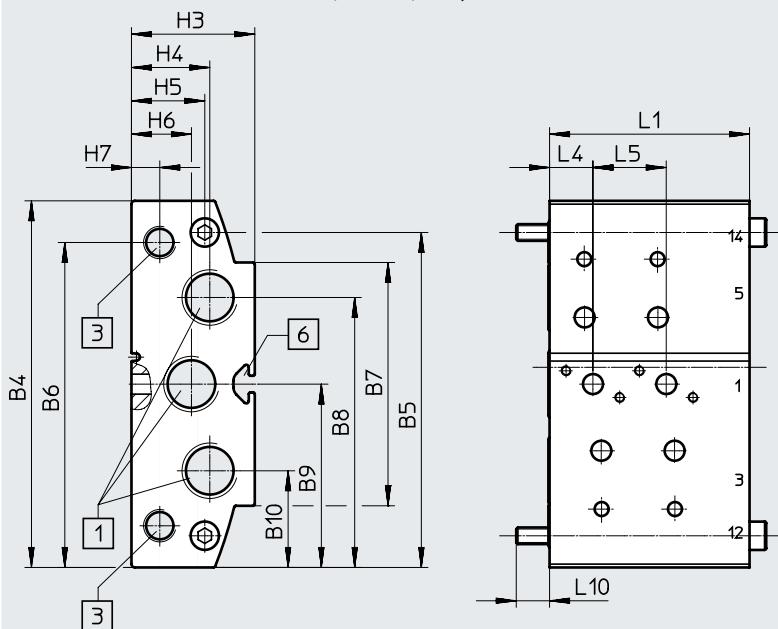
Type	D1 Ø	D2	D4	H3	H4	H5	H6	H7	L3	L4	L5	T1
VABM-B10-20E-G38...	4.5	M4x6.5	M5	37	23.5	22	18	8.5	6	25	22	9.5

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

Data sheet – Manifold block, size 20

Dimensions

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



[1] Ports 1, 3 and 5; threaded connection G3/8 at one end

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

[6] Profile slot IPM-05, system 5

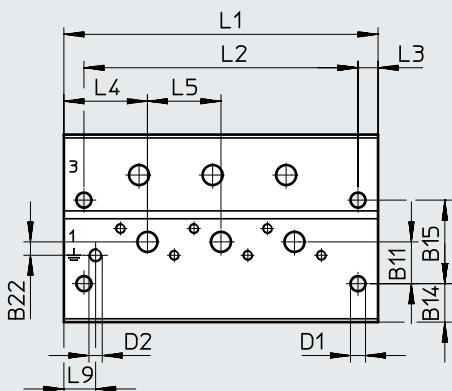
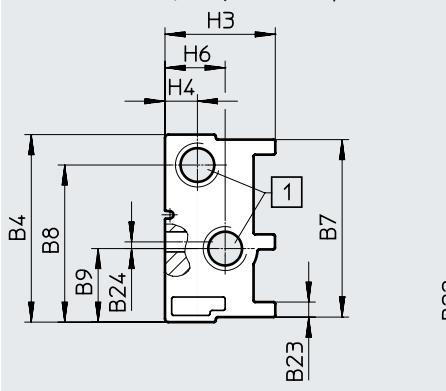
Type	B4	B5	B6	B7	B8	B9	B10	H3	H4	H5	H6	H7	L4	L5	L10
VABM-B10-20EEE-G38-2	110	100.5	97.5	73	81	55	29	37	23.5	22	18	8.5	13	22	10
Valve positions	2														
L1 [mm]	60														

Manifold block VABM

Data sheet – Manifold block, size 20

Dimensions

Manifold block for 3/2-way valves, compact

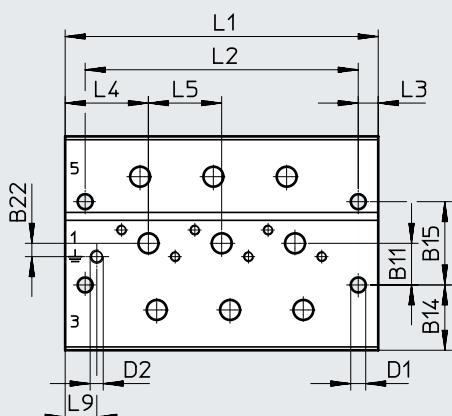
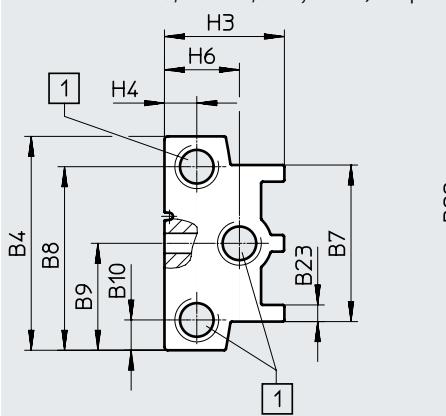


[1] Ports 1 and 3 (at both ends):
G1/4

Type	B4	B7	B8	B9	B11	B14	B15	B22	B23	B24
VABM-B10-20S-G14-...-P3	56.1	53.1	471	22	12.5	11.5	25	4	5	2
Type	D1 Ø	D2	H3	H4	H6	L3	L4	L5	L9	
VABM-B10-20S-G14-...-P3	4.5	M4x6.5	33	9.7	18	6	25	22	9.5	
Valve positions	2	3	4	5	6	7	8	9	10	
L1 [mm]	72	94	116	138	160	182	204	226	248	
L2 [mm]	60	82	104	126	148	170	192	214	236	

Dimensions

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



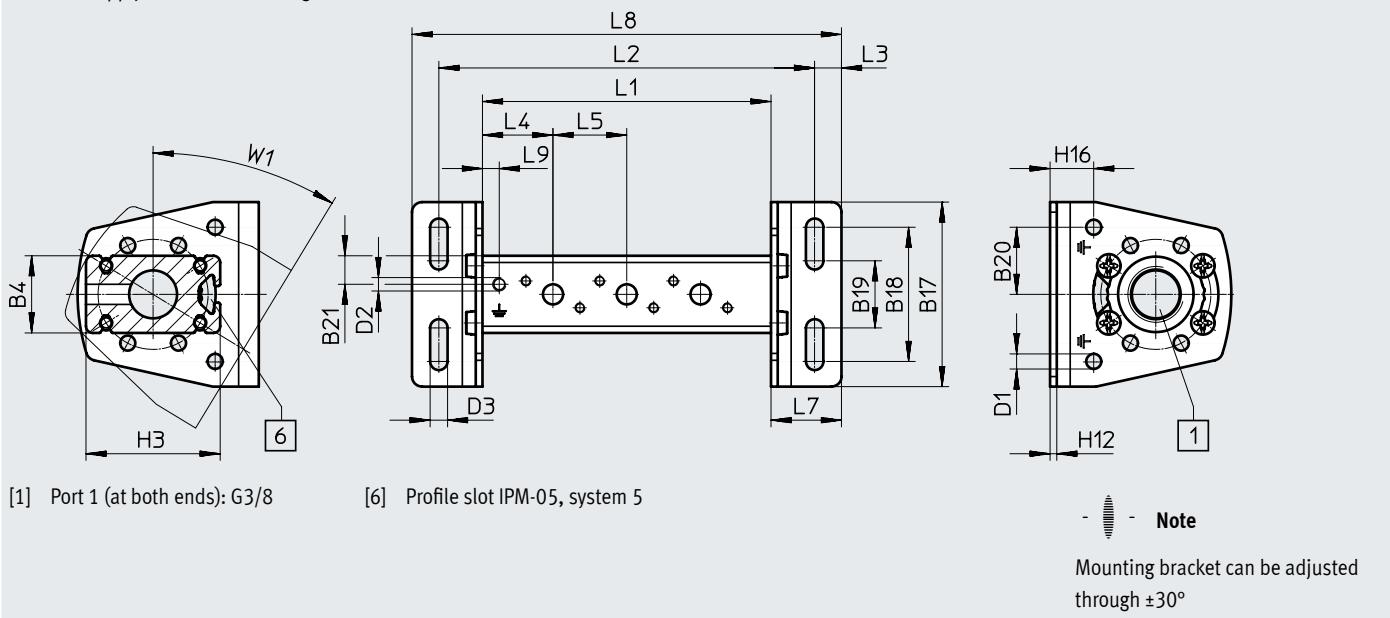
[1] Ports 1, 3 and 5 (at both ends):
G1/4

Type	B4	B7	B8	B9	B10	B11	B14	B15	B22	B23
VABM-B10-20S-G14-...	64.2	47	55.1	32.1	9.1	12.5	149.6	25	4	5
Type	D1 Ø	D2	H3	H4	H6	L3	L4	L5	L9	
VABM-B10-20S-G14-...	4.5	M4x6.5	36	9.7	22.5	6	25	22	9.5	
Valve positions	2	3	4	5	6	7	8	9	10	
L1 [mm]	72	94	116	138	160	182	204	226	248	
L2 [mm]	60	82	104	126	148	170	192	214	236	

Data sheet – Manifold block, size 20

Dimensions

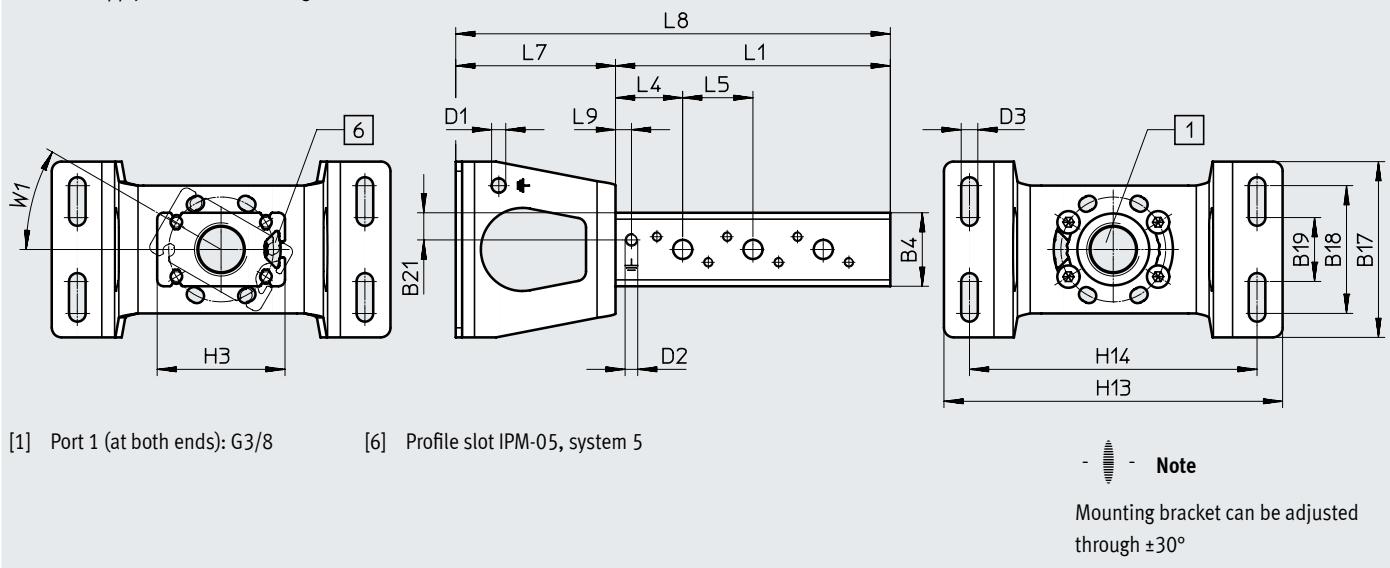
Common supply manifold, mounting on both sides



Type	B4	B17	B18	B19	B20	B21	D1 Ø	D2	D3 Ø	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-20-G38...-P53	23	55	40	20	20	8.5	4.5	M4x6.5	5.2	40	2	13	9	21	22	22	5	31.3°
Valve positions	2	3		4		5		6		7		8		9		10		
L1 [mm]	64	86		108		130		152		174		196		218		240		
L2 [mm]	90	112		134		156		178		200		222		244		266		
L8 [mm]	106	128		150		172		194		216		238		260		282		

Dimensions

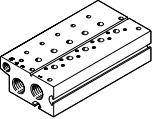
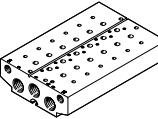
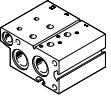
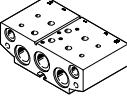
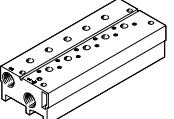
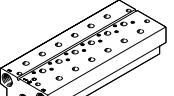
Common supply manifold, mounting on one side



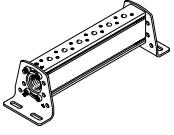
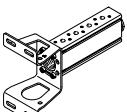
Type	B4	B17	B18	B19	B21	D1 Ø	D2	D3 Ø	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-20-G38...-P53-E	23	55	40	20	8.5	4.5	M4x6.5	5.2	40	106	90	21	22	50	5	30°
Valve positions	2			3								4				
L1 [mm]	64			86								108				
L8 [mm]	114			136								158				

Manifold block VABM

Ordering data – Manifold block, size 20

Ordering data	Description	Valve positions	Part no.	Type
Standard manifold block				
	For 3/2-way valves, incl. seals and screws for mounting valves -  Note Blanking plugs for sealing the supply ports (1, 3 and 14) at one end are included in the scope of delivery.	2 3 4 5 6 7 8 9 10	576441 576442 576443 576444 576445 576446 576447 576448 576449	VABM-B10-20E-G38-2-P3 VABM-B10-20E-G38-3-P3 VABM-B10-20E-G38-4-P3 VABM-B10-20E-G38-5-P3 VABM-B10-20E-G38-6-P3 VABM-B10-20E-G38-7-P3 VABM-B10-20E-G38-8-P3 VABM-B10-20E-G38-9-P3 VABM-B10-20E-G38-10-P3
	For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly -  Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) at one end are included in the scope of delivery.	2 3 4 5 6 7 8 9 10	576339 576340 576341 576342 576343 576344 576345 576346 576347	VABM-B10-20E-G38-2 VABM-B10-20E-G38-3 VABM-B10-20E-G38-4 VABM-B10-20E-G38-5 VABM-B10-20E-G38-6 VABM-B10-20E-G38-7 VABM-B10-20E-G38-8 VABM-B10-20E-G38-9 VABM-B10-20E-G38-10
Manifold block, extension module for standard manifold block				
	For 3/2-way valves, incl. seals and screws for mounting valves	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 mounting valves -  Note Blanking plugs for sealing the supply ports (1 and 3) at one end are included in the scope of delivery.	2 3 4 5 6 7 8 9 10	576465 576466 576467 576468 576469 576470 576471 576472 576473	VABM-B10-20S-G14-2-P3 VABM-B10-20S-G14-3-P3 VABM-B10-20S-G14-4-P3 VABM-B10-20S-G14-5-P3 VABM-B10-20S-G14-6-P3 VABM-B10-20S-G14-7-P3 VABM-B10-20S-G14-8-P3 VABM-B10-20S-G14-9-P3 VABM-B10-20S-G14-10-P3
	For 5/2 and 5/3-way valves, incl. seals and screws for valve assembly -  Note Blanking plugs for sealing the supply ports (1, 3 and 5) at one end are included in the scope of delivery.	2 3 4 5 6 7 8 9 10	576417 576418 576419 576420 576421 576422 576423 576424 576425	VABM-B10-20S-G14-2 VABM-B10-20S-G14-3 VABM-B10-20S-G14-4 VABM-B10-20S-G14-5 VABM-B10-20S-G14-6 VABM-B10-20S-G14-7 VABM-B10-20S-G14-8 VABM-B10-20S-G14-9 VABM-B10-20S-G14-10

Ordering data – Manifold block, size 20

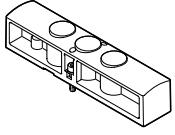
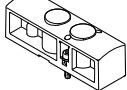
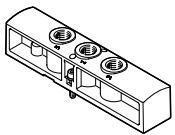
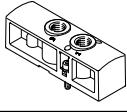
Ordering data	Description	Valve positions	Part no.	Type
Common supply manifold				
	For mounting on both sides, incl. seals and screws for valve mounting	2 3 4 5 6 7 8 9 10	576363 576364 576365 576366 576367 576368 576369 576370 576371	VABM-B10-20-G38-2-P53 VABM-B10-20-G38-3-P53 VABM-B10-20-G38-4-P53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

-  - Note

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

Manifold block VABM

Accessories – Manifold block, size 20

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

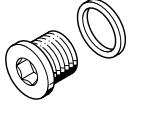
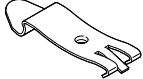
Accessories – Manifold block, size 20

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
		16 mm	186348	QSL-G3/8-16	1
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, size 20

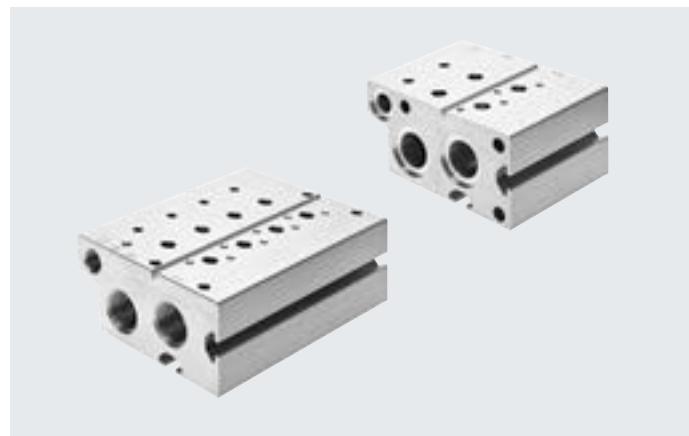
Ordering data		Description	Part no.	Type	PU ¹⁾
Silencer					
	With connecting thread G, polymer design	G1/8	2307	U-1/8	1
			534222	U-1/8-50	50
		G1/4	2316	U-1/4	1
			534223	U-1/4-20	20
	With connecting thread G, metal design	G3/8	534224	U-3/8-20	20
		G1/8	6841	U-1/8-B	1
		G1/4	6842	U-1/4-B	1
		G3/8	6843	U-3/8-B	1
	With connecting thread G, sintered design, long	G1/4	1205861	AMTE-M-LH-G14	20
		G3/8	1205862	AMTE-M-LH-G38	10
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
	For creating pressure zones		534215	B-3/8-20	20
		G1/4	569996	VABD-10-B	1
	For creating pressure zones	G3/8	574483	VABD-14-B	1
H-rail mounting					
	For size 20, for mounting on standard H-rails TH 35-7.5 or TH 35-15 to EN 60715		569998	VAME-T-M4	2

1) Packaging unit

Data sheet – Manifold block, size 25

- - Flow rate
up to 1300 l/min

- - Valve width
26.5 mm



General technical data								
	Manifold block standard		Extension module for standard manifold block			Manifold block compact		Common supply manifold
For valves	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2	5/2, 5/3	On both sides	On one side
Grid dimension [mm]	27.5							
Type of mounting	Via through-hole						Via 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 can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

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...P3	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...P3	438	579	720	861	1002	1143	1284	1425	1566
Common supply manifold for mounting on both sides									
VABM-B10-25...G12...P53	258	340	422	504	586	668	750	832	914
Common supply manifold for mounting on one side									
VABM-B10-25-G12...P53-E	258	340	422	–	–	–	–	–	–

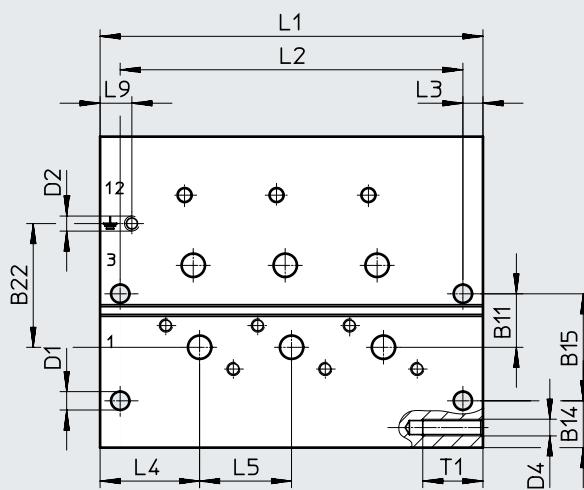
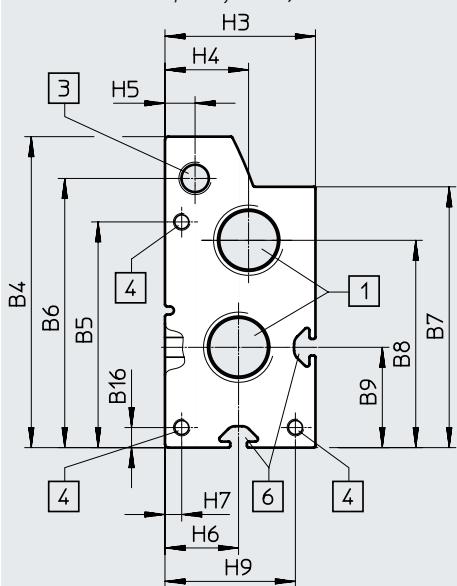
Information on materials									
Information on materials	Wrought aluminium alloy								
Note on materials	RoHS-compliant								

Manifold block VABM

Data sheet – Manifold block, size 25

Dimensions

Manifold block for 3/2-way valves, standard



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

[3] Port 12 (at both ends): G1/8

[4] Thread M5x18 for extension
module

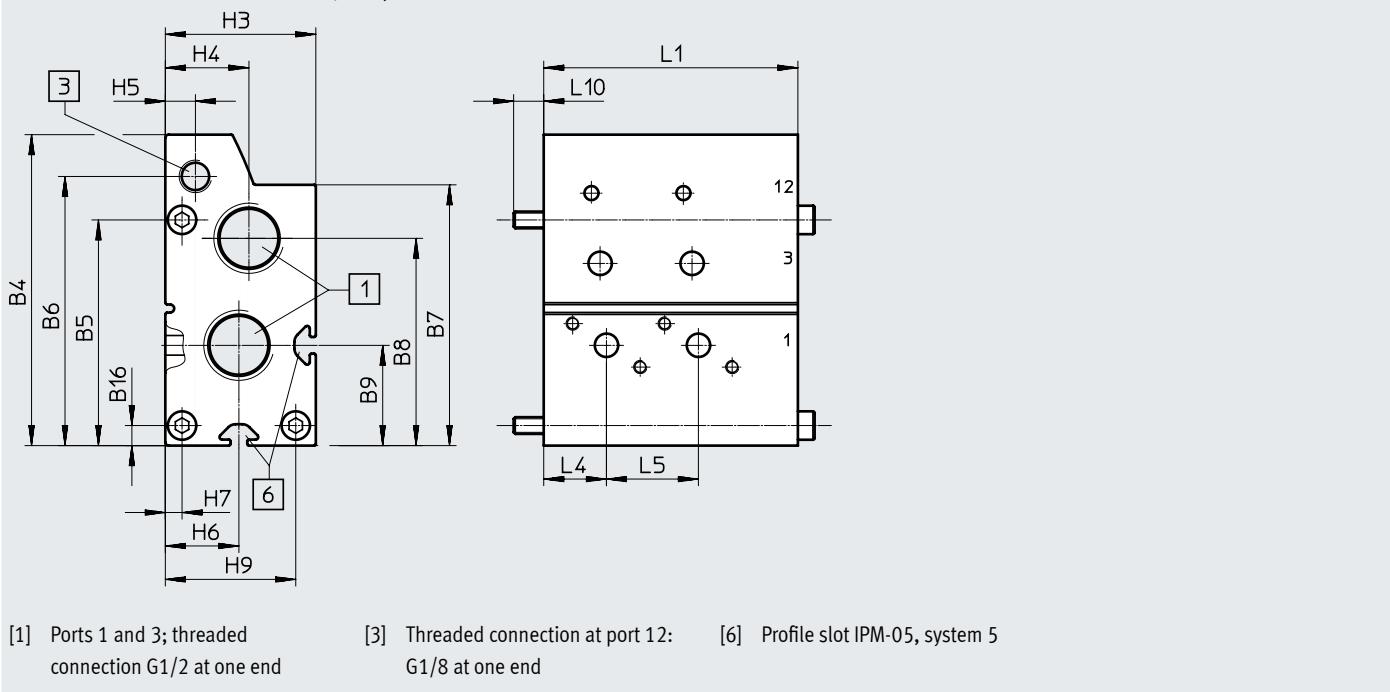
[6] Profile slot IPM-05, system 5

Type	B4	B5	B6	B7	B8	B9	B11	B14	B15	B16	B22			
VABM-B10-25-E...G12....P3	93	67.5	80.5	78	62	30	16	14	32	6	37			
Type	D1 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					

Data sheet – Manifold block, size 25

Dimensions

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



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

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

[6] Profile slot IPM-05, system 5

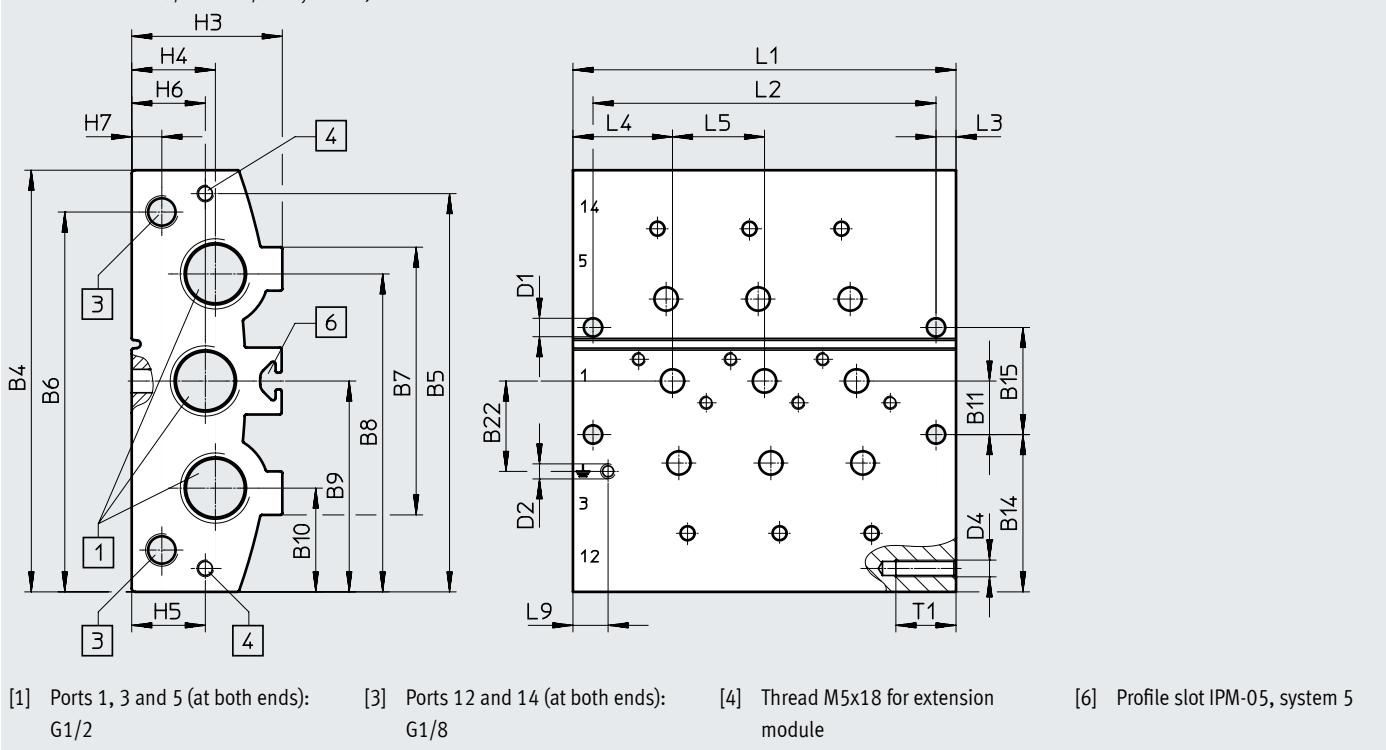
Type	B4	B5	B6	B7	B8	B9	B16	H3	H4	H5	H6	H7	H9	L4	L5	L10
VABM-B10-25EEE-G12-2-P3	93	67.5	80.5	78	62	30	6	45	25	9	22	5	39	18.8	27.5	9
Valve positions	2															
L1 [mm]	76															

Manifold block VABM

Data sheet – Manifold block, size 25

Dimensions

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

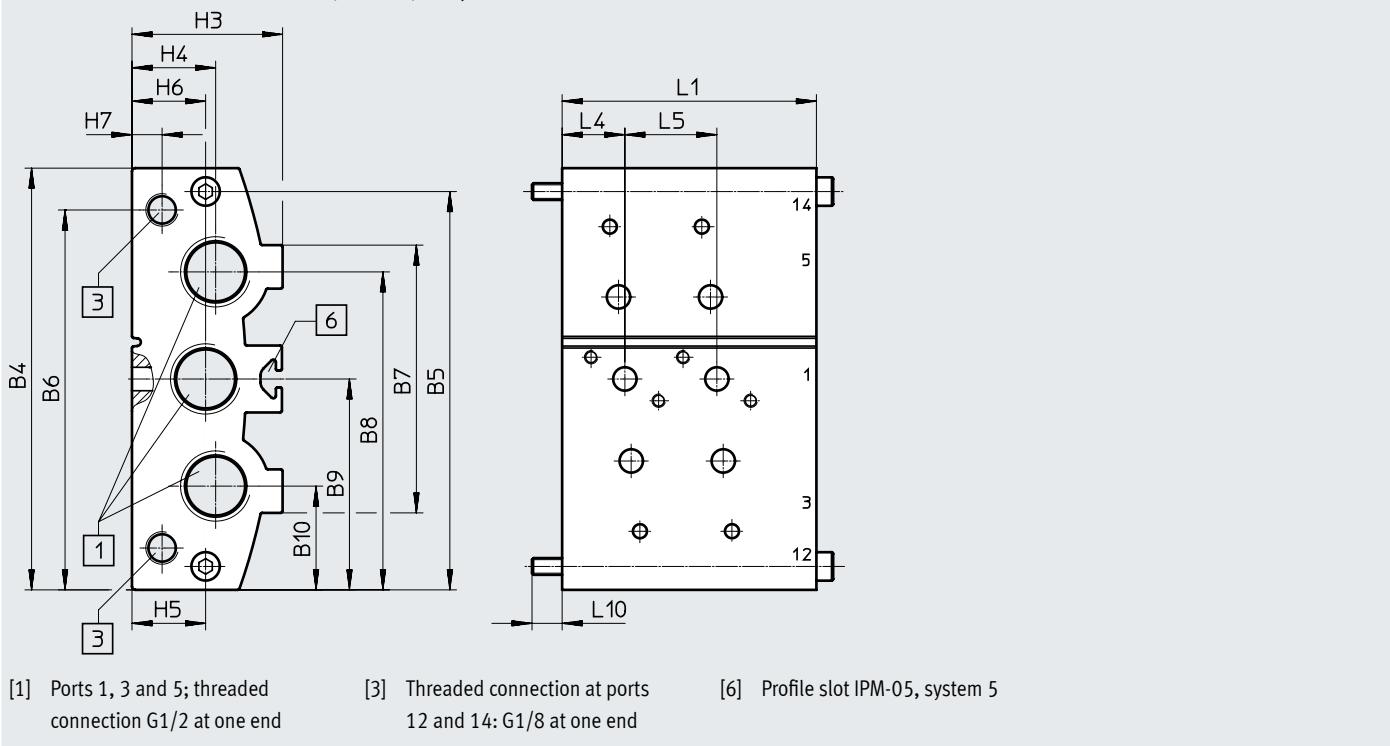


Type	B4	B5	B6	B7	B8	B9	B10	B11	B14	B15	B22		
VABM-B10-25E....G12....	126	119	113.5	80	95	63	31	16	47	32	27		
Type	D1 Ø	D2	D4	H3	H4	H5	H6	H7	L3	L4	L5	L9	T1
VABM-B10-25E....G12....	5.5	M4x9	M5	45	25	22	22	9	6	29.8	27.5	10.5	18
Valve positions	2	3	4	5	6	7	8	9	10				
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307				
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295				

Data sheet – Manifold block, size 25

Dimensions

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



Type	B4	B5	B6	B7	B8	B9	B10	H3	H4	H5	H6	H7	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

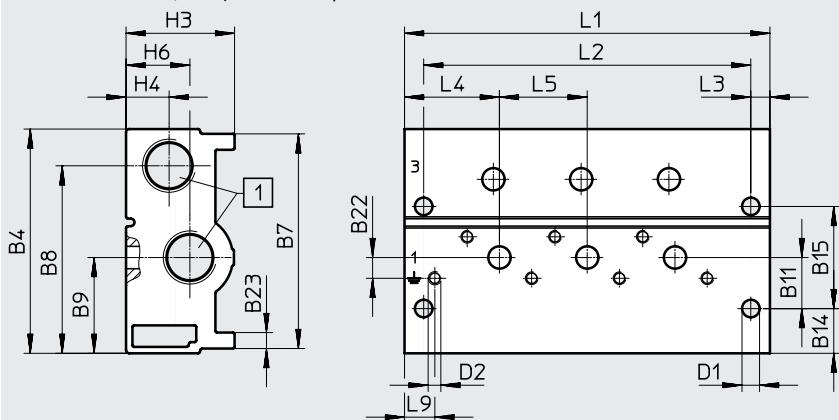
Valve positions	2
L1 [mm]	76

Manifold block VABM

Data sheet – Manifold block, size 25

Dimensions

Manifold block for 3/2-way valves, compact



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

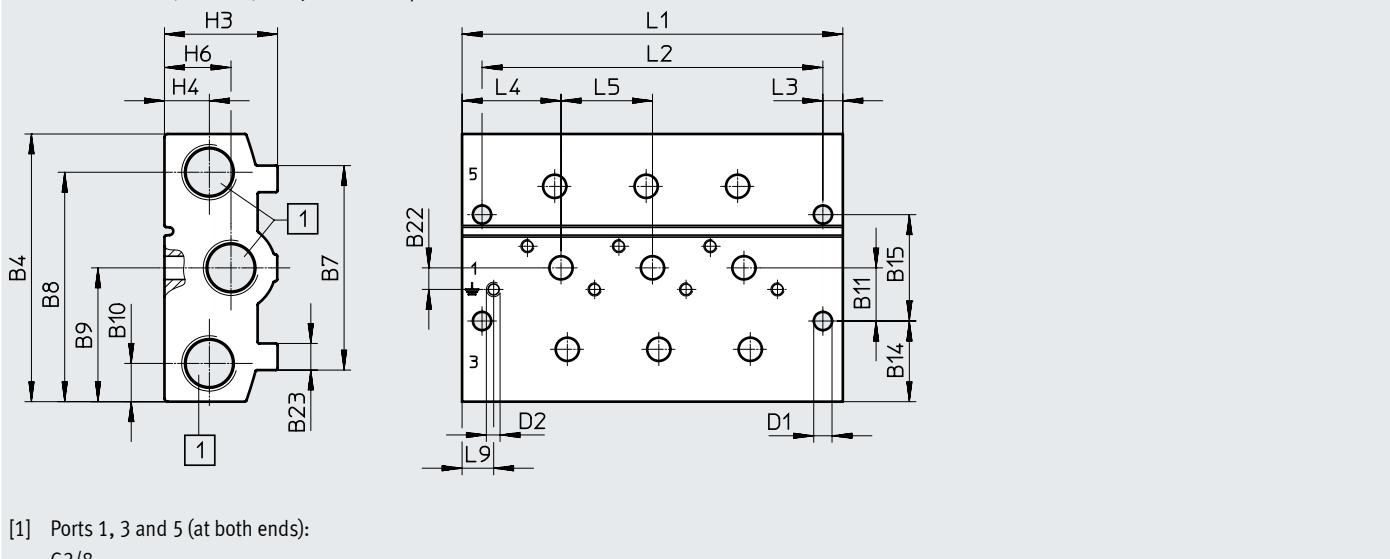
G3/8

Type	B4	B7	B8	B9	B11	B14	B15	B22	B23
VABM-B10-25S...G38...-P3	70.3	67.3	58.8	30	16	14	32	6.5	5
Type	D1 Ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-25S...G38...-P3	5.5	M4x9	34	13.5	20	6	29.8	27.5	9.5
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

Data sheet – Manifold block, size 25

Dimensions

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



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

G3/8

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

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

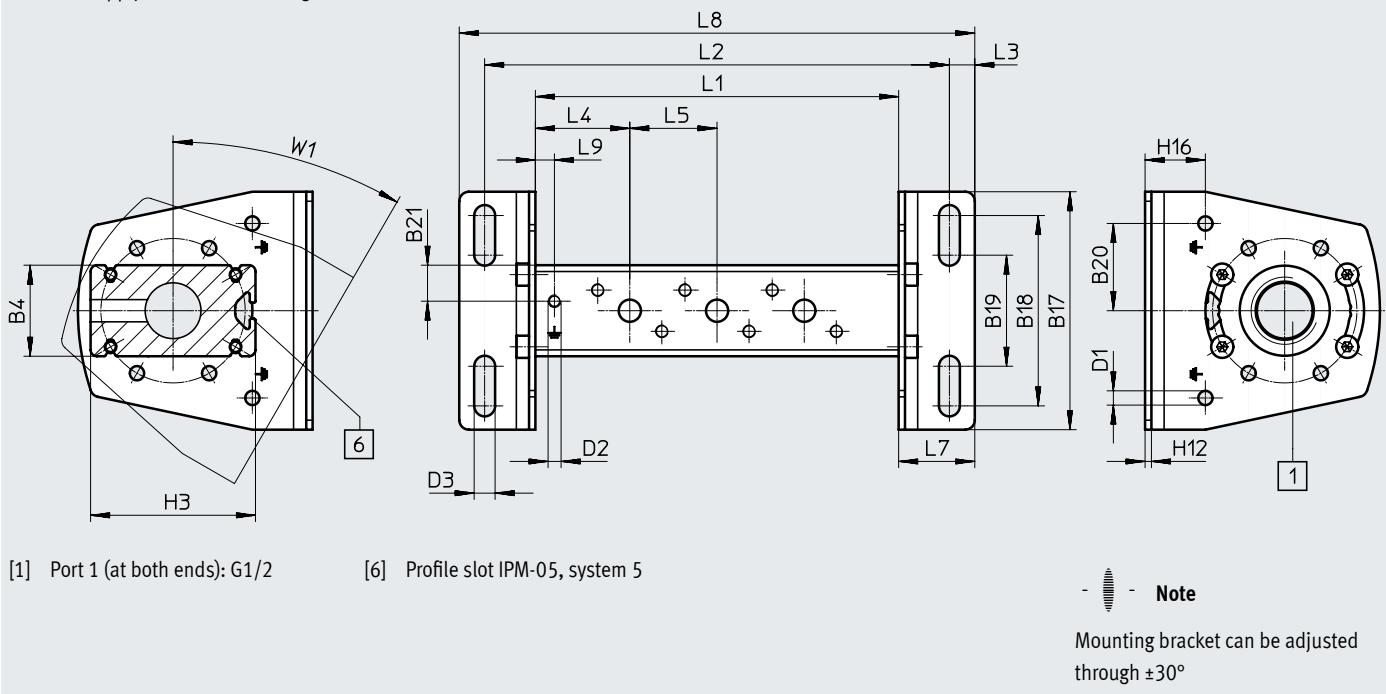
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

Manifold block VABM

Data sheet – Manifold block, size 25

Dimensions

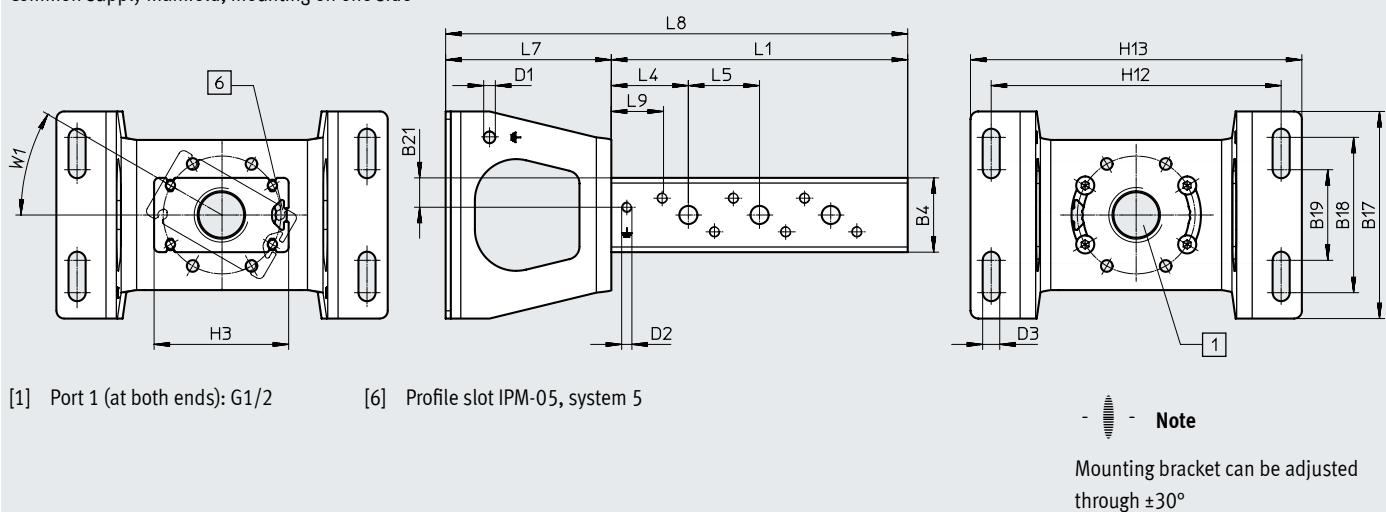
Common supply manifold, mounting on both sides



Type	B4	B17	B18	B19	B20	B21	D1 Ø	D2	D3 Ø	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-25-G12....P53	28.7	75	60	35	27.5	11.4	4.5	M4x9	6.6	52	2	19	8	29.8	27.5	24	6	30
Valve positions	2	3	4	5	6	7	8	9	10									
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307									
L2 [mm]	119	146.5	174	201.5	229	256.5	284	311.5	339									
L8 [mm]	135	162.5	190	217.5	245	272.5	300	327.5	355									

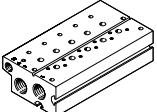
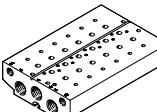
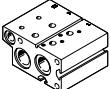
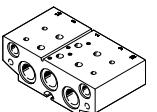
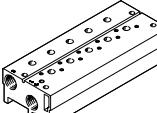
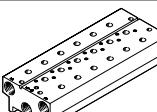
Dimensions

Common supply manifold, mounting on one side



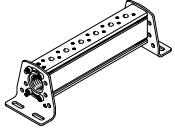
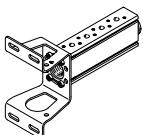
Type	B4	B17	B18	B19	B21	D1 Ø	D2	D3 Ø	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-25-G12....P53-E	28.7	80	60	35	11.4	4.5	M4x9	6.6	52	128	112	29.8	27.5	64	6	30°
Valve positions	2									3						
L1 [mm]	87									114.5						
L8 [mm]	151									178.5						

Ordering data – Manifold block, size 25

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

Manifold block VABM

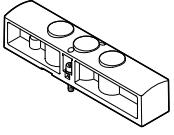
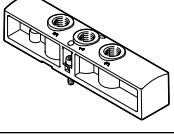
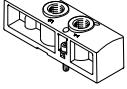
Ordering data – Manifold block, size 25

Ordering data	Description	Valve positions	Part no.	Type
Common 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 mounting	2	8026237	VABM-B10-25-G12-2-P53-E
		3	8026238	VABM-B10-25-G12-3-P53-E
		4	8026239	VABM-B10-25-G12-4-P53-E

- - **Note**

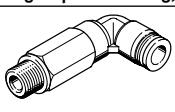
Blanking plug for sealing the supply port (1) at one end included in the scope of delivery.

Accessories – Manifold block, size 25

Ordering data	Description	Weight [g]	Part no.	Type
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 common 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
	For valve position on common supply manifold	26	8026317	VABF-B10-25-P1-G14

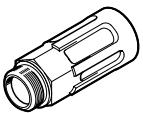
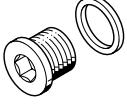
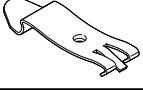
Manifold block VABM

Accessories – Manifold block, size 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
	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
	Connecting thread G3/8 for tubing O.D.	8 mm	186111	QS-G3/8-8-I	10
		10 mm	186113	QS-G3/8-10-I	10
		12 mm	186114	QS-G3/8-12-I	10
	Connecting thread G1/2 for tubing O.D.	12 mm	186115	QS-G1/2-12-I	1
	Angled push-in fitting with external hex				
	Connecting thread G1/4 for tubing O.D.	6 mm	186118	QLS-G1/4-6	10
			132051	QLS-G1/4-6-100	100
	8 mm	8 mm	186120	QLS-G1/4-8	10
			132052	QLS-G1/4-8-50	50
		10 mm	186122	QLS-G1/4-10	10
			132053	QLS-G1/4-10-50	50
		12 mm	186121	QLS-G3/8-8	10
	10 mm		132055	QLS-G3/8-8-50	50
		8 mm	186123	QLS-G3/8-10	10
			132056	QLS-G3/8-10-20	20
		12 mm	186124	QLS-G3/8-12	10
			132057	QLS-G3/8-12-20	20
	12 mm	16 mm	186348	QLS-G3/8-16	1
			186125	QLS-G1/2-12	1
			132058	QLS-G1/2-12-20	20
		16 mm	186126	QLS-G1/2-16	1
			132059	QLS-G1/2-16-20	20
Angled push-in fitting, long, with external hex					

1) Packaging unit

Accessories – Manifold block, size 25

Ordering data		Description	Part no.	Type	PU ¹⁾
Silencer					
	With connecting thread G, polymer design	G1/4	2316	U-1/4	1
			534223	U-1/4-20	20
		G3/8	534224	U-3/8-20	20
	With connecting thread G, metal design	G1/4	6842	U-1/4-B	1
		G3/8	6843	U-3/8-B	1
		G1/2	6844	U-1/2-B	1
	With connecting thread G, sintered design, long	G3/8	1205862	AMTE-M-LH-G38	10
		G1/2	1205863	AMTE-M-LH-G12	10
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 size 25, for mounting on standard H-rails TH 35-7.5 or TH 35-15 to EN 60715		2636436	VAME-T-M5	2

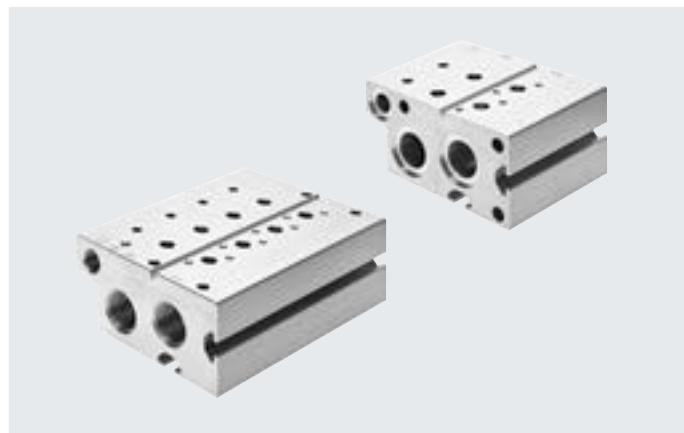
1) Packaging unit

Manifold block VABM

Data sheet – Manifold block, size 30

-  - Flow rate
up to 2300 l/min

-  - Valve width
31 mm



General technical data		Manifold block standard		Extension module for standard manifold block		Manifold block compact		Common supply manifold	
								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	3/2, 5/2, 5/3
Grid dimension [mm]		32							
Type of mounting		Via through-hole						Via mounting bracket	
Maximum number of valve positions		10	10	2	2	10	10	10	4
Port 1		G3/4	G3/4	G3/4	G3/4	G1/2	G1/2	G3/4	G3/4
Port 3		G3/4	G3/4	G3/4	G3/4	G1/2	G1/2	–	–
Port 5		–	G3/4	–	G3/4	–	G1/2	–	–
Port 12		G1/8	G1/8	G1/8	G1/8	–	–	–	–
Port 14		–	G1/8	–	G1/8	–	–	–	–
CRC ¹⁾		2 ¹⁾							

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

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

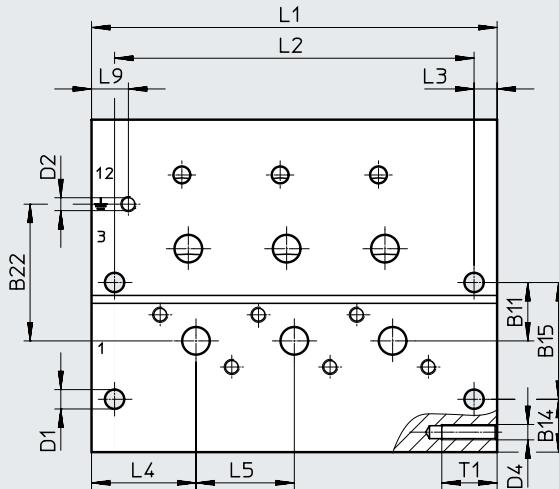
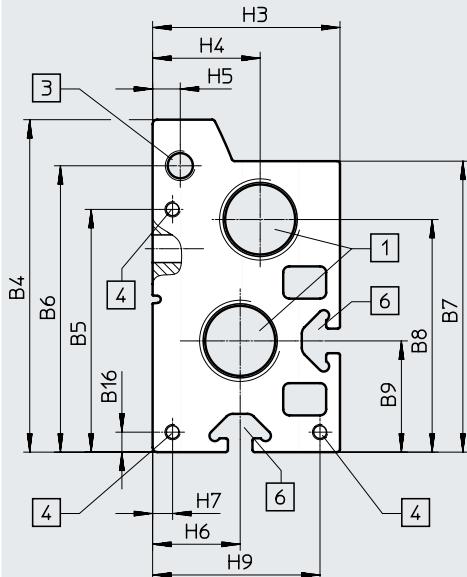
Weight [g]									
Valve positions	2	3	4	5	6	7	8	9	10
Manifold block for 3/2-way valves, standard									
VABM-B10-30E-G34-...P3	1411	1828	2245	2662	3079	3496	3913	4330	4747
Manifold block, extension module for 3/2-way valves, standard									
VABM-B10-30EE-G34-2-P3	1111	–	–	–	–	–	–	–	–
Manifold block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

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

Data sheet – Manifold block, size 30

Dimensions

Manifold block for 3/2-way valves, standard



[1] Ports 1 and 3 (at both ends):
G3/4

[3] Port 12 (at both ends): G1/8

[4] Thread M5x18 for extension
module

[6] Profile slot IPM-08, system 8

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

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

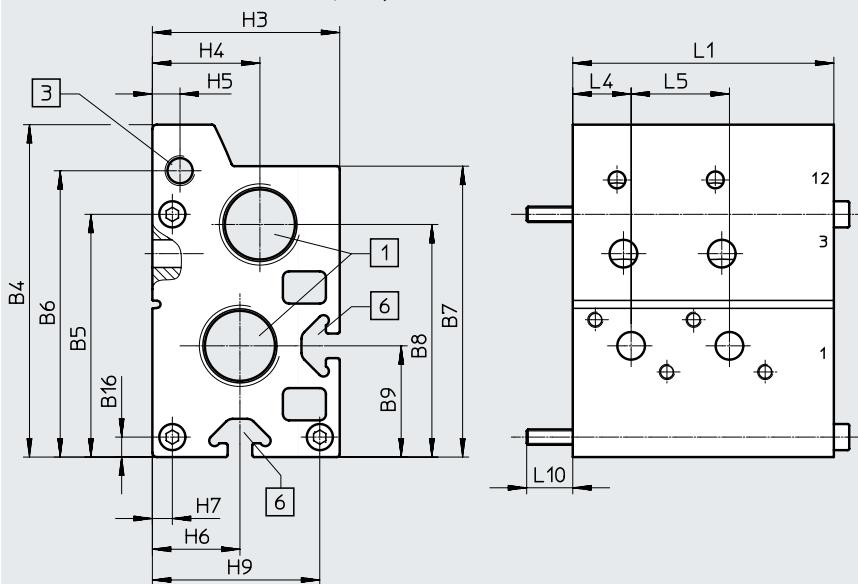
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	100	132	164	196	228	260	292	324	356
L2 [mm]	85	117	149	181	213	245	277	309	341

Manifold block VABM

Data sheet – Manifold block, size 30

Dimensions

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



[1] Ports 1 and 3; threaded connection G3/4 at one end

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

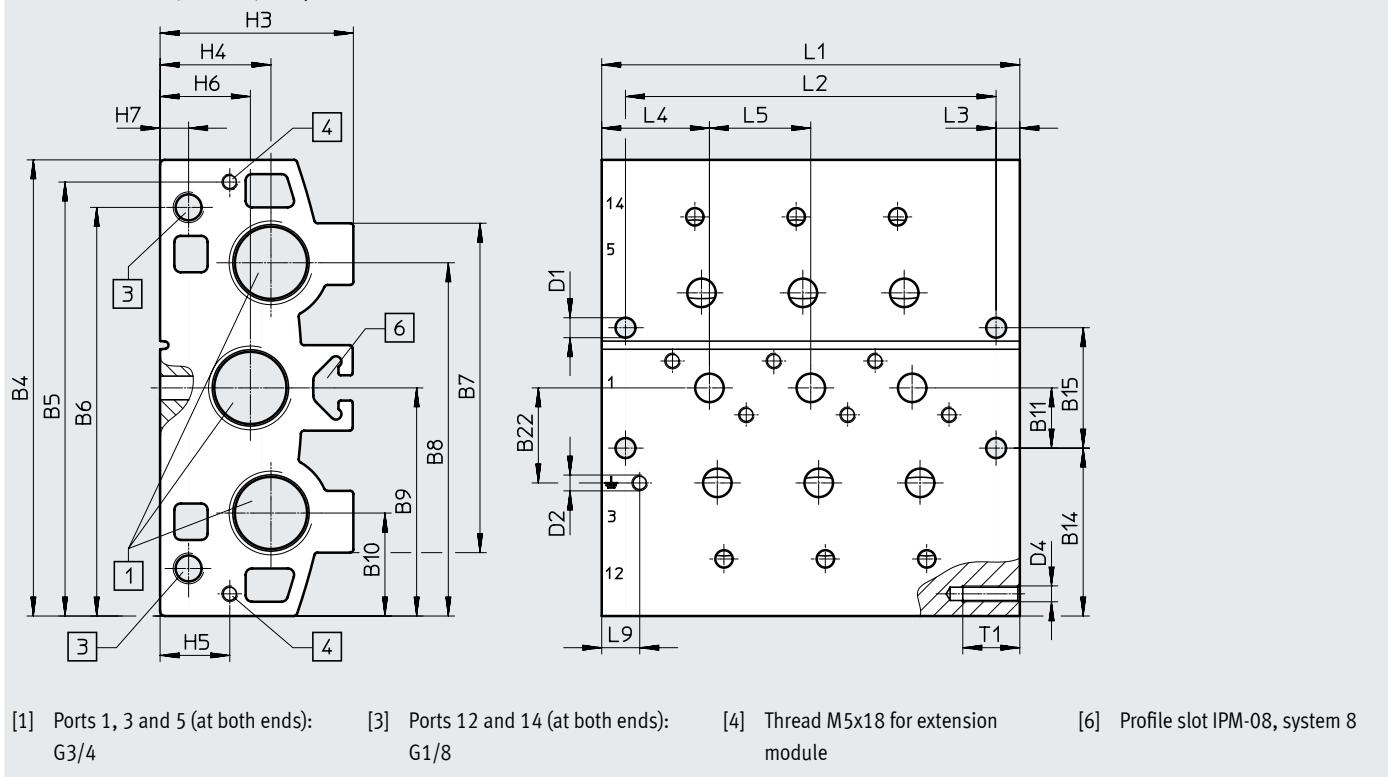
[6] Profile slot IPM-08, system 8

Type	B4	B5	B6	B7	B8	B9	B16	H3	H4	H5	H6	H7	H9	L4	L5	L10
VABM-B10-30EEE-G34-2-P3	108.2	79	93.2	94.7	75.7	36.2	6.5	61	35	9	28.5	6.5	54.5	19	32	15
Valve positions	2															
L1 [mm]	85															

Data sheet – Manifold block, size 30

Dimensions

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



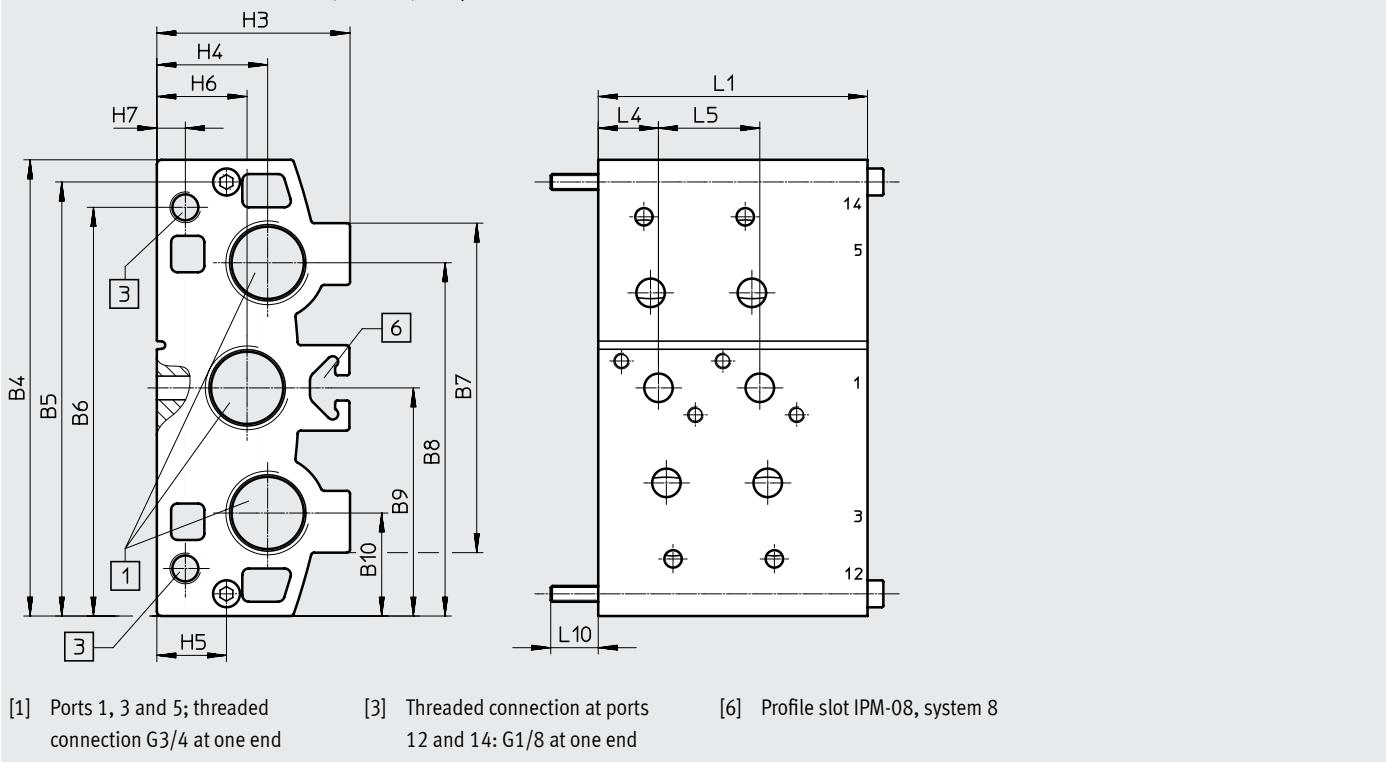
Type	B4	B5	B6	B7	B8	B9	B10	B11	B14	B15	B22		
VABM-B10-30E-G34...	144	137	129	104	111.5	72	32.5	19	53	38	30		
Type	D1 Ø	D2	D4	H3	H4	H5	H6	H7	L3	L4	L5	L9	T1
VABM-B10-30E-G34...	6.3	M5*11	M5	61	35	22	28.5	9	7.5	34	32	12	18
Valve positions	2	3	4	5	6	7	8	9	10				
L1 [mm]	100	132	164	196	228	260	292	324	356				
L2 [mm]	85	117	149	181	213	245	277	309	341				

Manifold block VABM

Data sheet – Manifold block, size 30

Dimensions

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



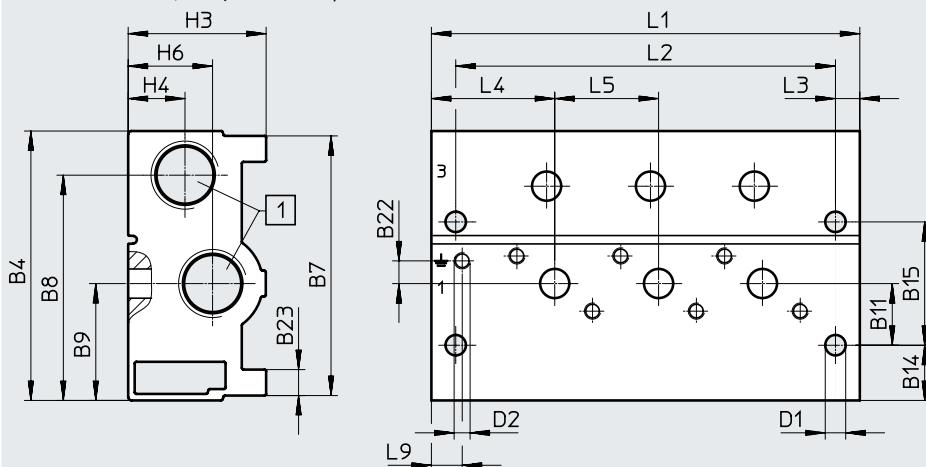
Type	B4	B5	B6	B7	B8	B9	B10	H3	H4	H5	H6	H7	L4	L5	L10
VABM-B10-30EEE-G34-2	144	137	129	104	111.5	72	32.5	61	35	22	28.5	9	19	32	15

Valve positions	2
L1 [mm]	85

Data sheet – Manifold block, size 30

Dimensions

Manifold block for 3/2-way valves, compact



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

G1/2

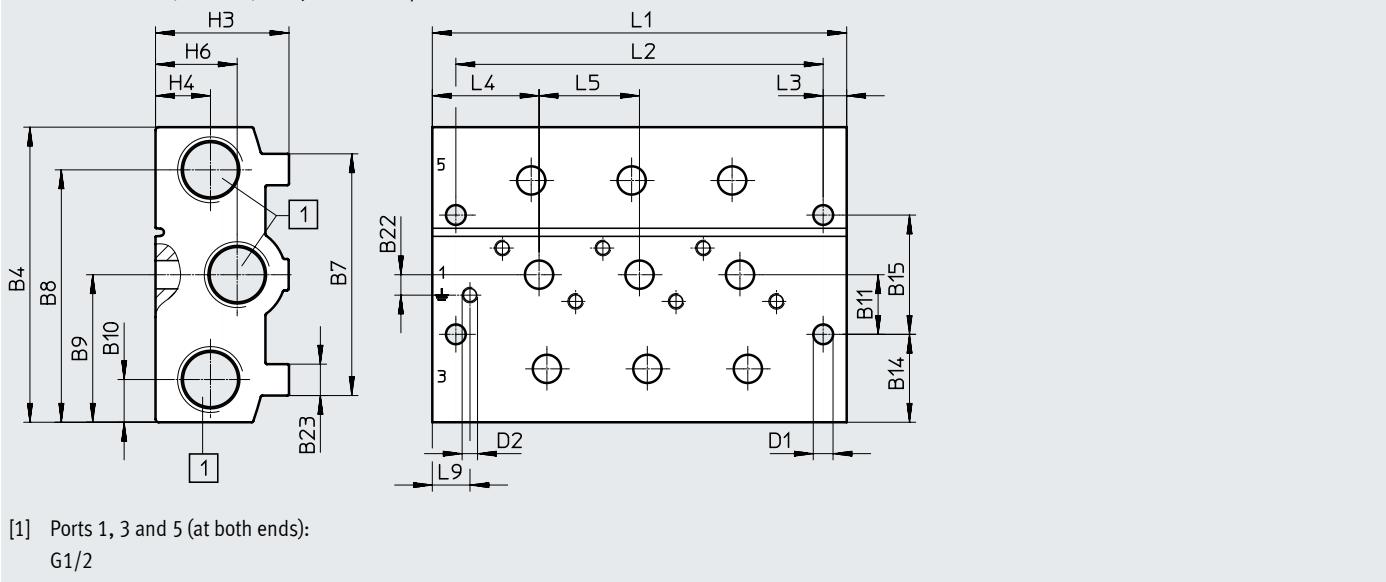
Type	B4	B7	B8	B9	B11	B14	B15	B22	B23
VABM-B10-30S-G12...-P3	83	80	69.4	36	19	17	38	7	8
Type	D1 Ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-30S-G12...-P3	6.3	M5x11	42.5	17.5	26	7.5	38	32	12
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	100	132	164	196	228	260	292	324	356
L2 [mm]	85	117	149	181	213	245	277	309	341

Manifold block VABM

Data sheet – Manifold block, size 30

Dimensions

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



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

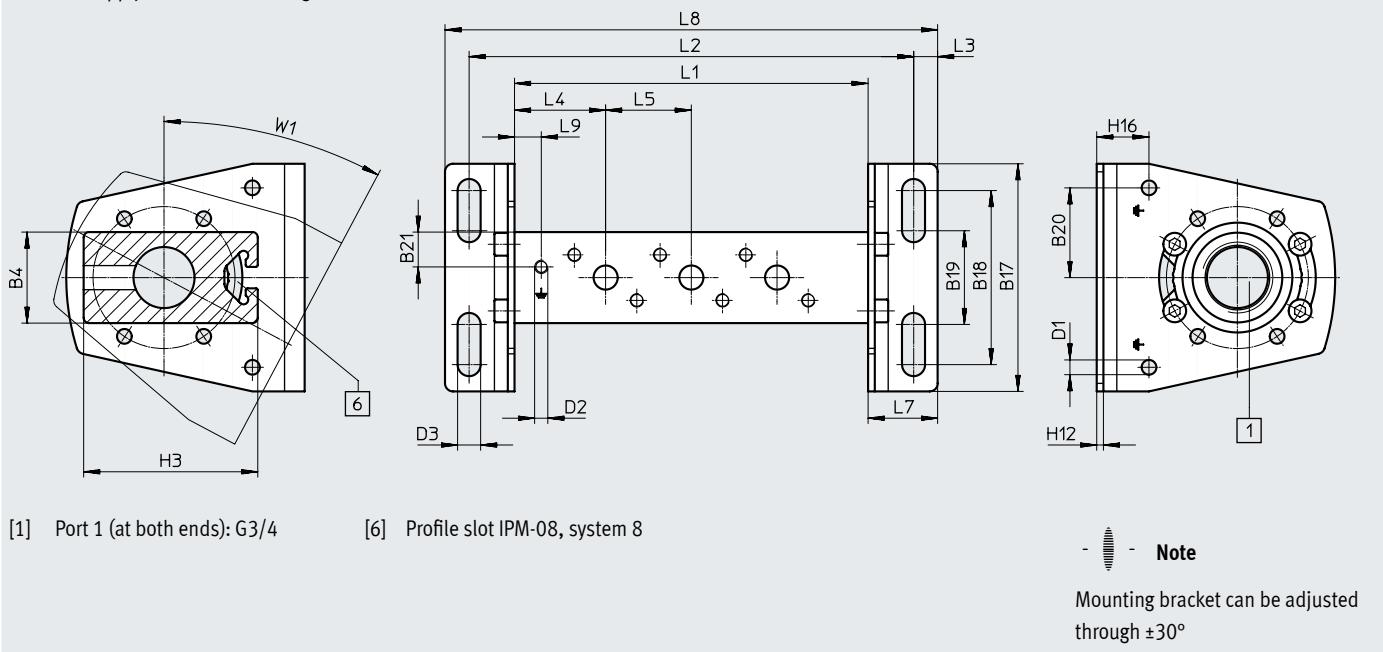
Type	D1 Ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-30S-G12...	6.3	M5x11	42.5	17.5	26	7.5	34	32	12

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

Data sheet – Manifold block, size 30

Dimensions

Common supply manifold, mounting on both sides

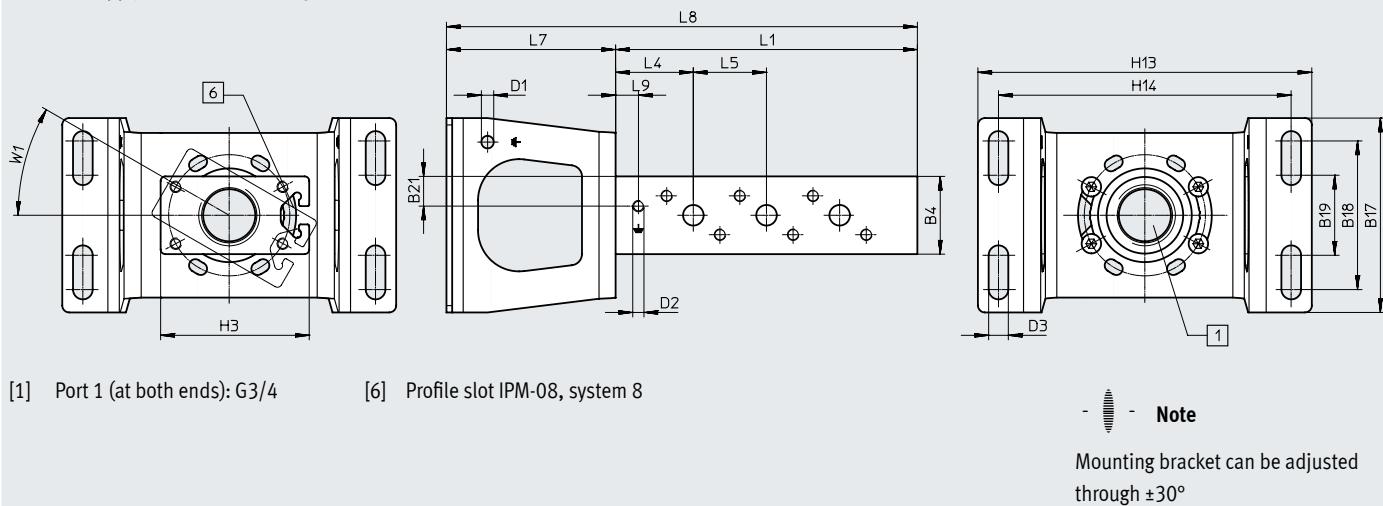


Type	B4	B17	B18	B19	B20	B21	D1 Ø	D2	D3 Ø	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-30-G34...-P53	34	85	65	35	33.5	13	5.5	M5x11	8.6	65	2.5	19.5	9	34	32	26	10	28°

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

Dimensions

Common supply manifold, mounting on one side

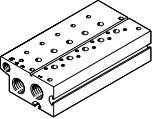
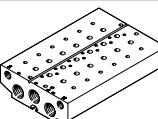
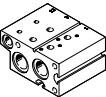
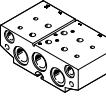
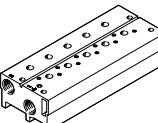
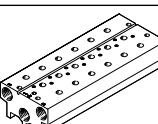


Type	B4	B17	B18	B19	B21	D1 Ø	D2	D3 Ø	H3	H13	H14	L4	L5	L7	L9	W1
VABM-B10-30-G34...-P53-E	34	85	65	35	13	5.5	M5x11	8.6	65	146	128	34	32	74	10	30°

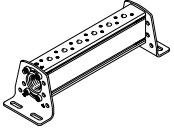
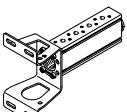
Valve positions	2	3	4
L1 [mm]	100	132	164
L8 [mm]	168	200	232

Manifold block VABM

Ordering data – Manifold block, size 30

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

Ordering data – Manifold block, size 30

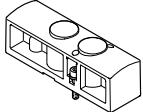
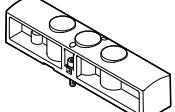
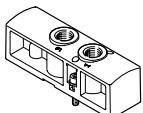
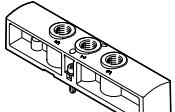
Ordering data	Description	Valve positions	Part no.	Type
Common supply manifold				
	For mounting on both sides, incl. seals and screws for valve mounting	2 3 4 5 6 7 8 9 10	8026338 8026339 8026340 8026341 8026342 8026343 8026344 8026345 8026346	VABM-B10-30-G34-2-P53 VABM-B10-30-G34-3-P53 VABM-B10-30-G34-4-P53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

- - - Note

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

Manifold block VABM

Accessories – Manifold block, size 30

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

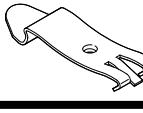
Accessories – Manifold block, size 30

Ordering data		Description	Part no.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread G1/8 for tubing O.D.	4 mm	186106	QS-G1/8-4-I	10
			133008	QS-G1/8-4-I-100	100
		6 mm	186107	QS-G1/8-6-I	10
			133009	QS-G1/8-6-I-100	100
	Connecting thread G3/8 for tubing O.D.	8 mm	186111	QS-G3/8-8-I	10
			186113	QS-G3/8-10-I	10
		12 mm	186114	QS-G3/8-12-I	10
	Connecting thread G1/2 for tubing O.D.	12 mm	186115	QS-G1/2-12-I	1
Push-in fitting with external hex					
	Connecting thread G1/2 for tubing O.D.	16 mm	186105	QS-G1/2-16	1
			132047	QS-G1/2-16-20	20
Angled push-in fitting with external hex					
	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
	Connecting thread G1/2 for tubing O.D.	12 mm	186124	QSL-G3/8-12	10
			132057	QSL-G3/8-12-20	20
		16 mm	186125	QSL-G1/2-12	1
			132058	QSL-G1/2-12-20	20
Angled push-in fitting, long, with external hex					
	Connecting thread G1/2 for tubing O.D.	8 mm	186132	QSLL-G3/8-8	10
		10 mm	186134	QSLL-G3/8-10	10
		12 mm	186135	QSLL-G3/8-12	10
Barbed fitting with external hex					
	Connecting thread G3/4 for tubing I.D. Aluminium design	13 mm	3612	N-3/4-P-13	1
		19 mm	3613	N-3/4-P-19	1
	Connecting thread G3/4 for tubing I.D. Brass design	13 mm	15637	N-3/4-P-13-MS	1
		19 mm	15638	N-3/4-P-19-MS	1

1) Packaging unit

Manifold block VABM

Accessories – Manifold block, size 30

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

1) Packaging unit