

Pneumatic valves VUWS/valve manifold VTUS, NPT

FESTO



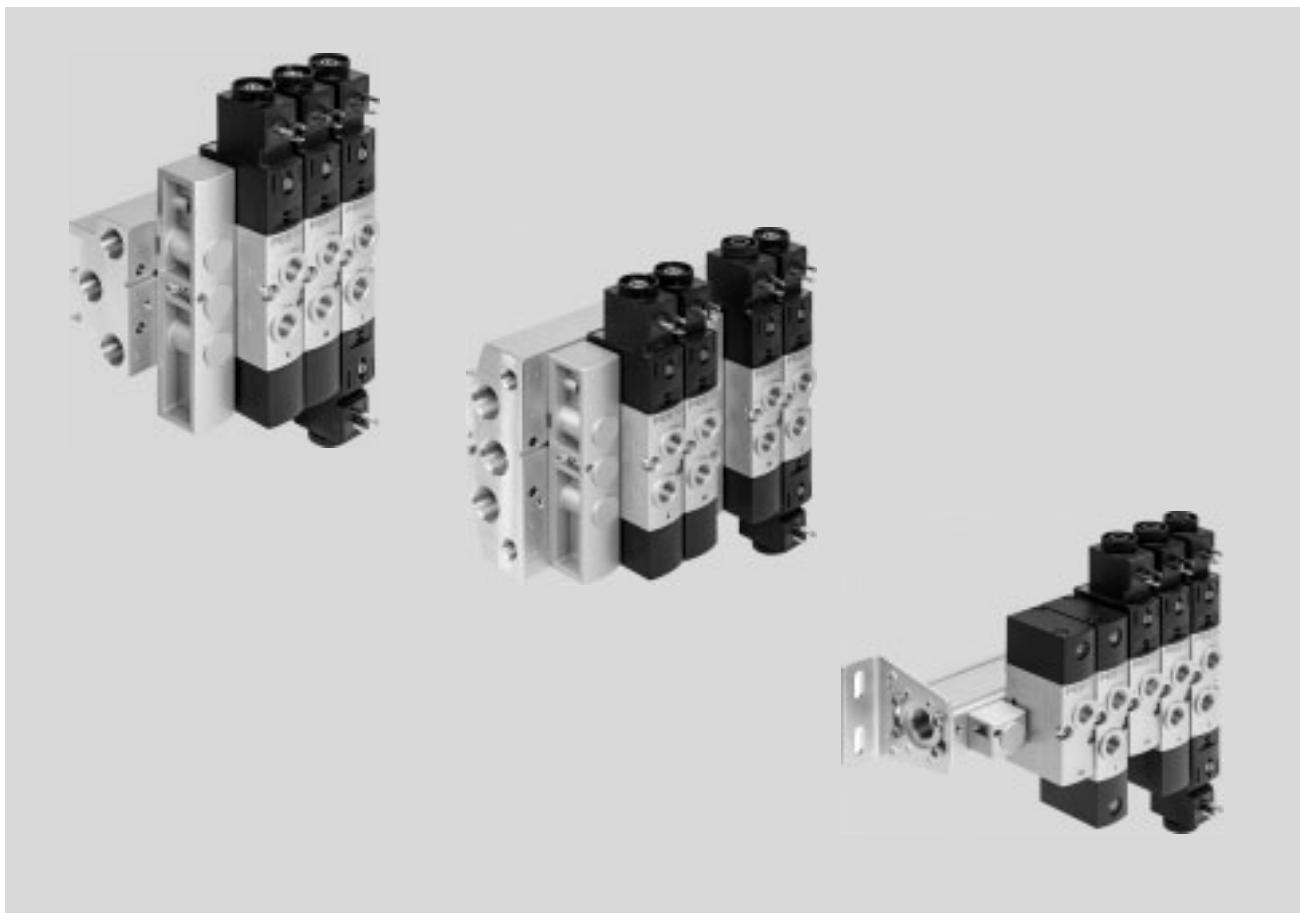
New

VUWS-LT20, VUWS-LT30

Pneumatic valves VUWS/valve manifold VTUS, NPT

Key features

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Innovative

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

Versatile

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

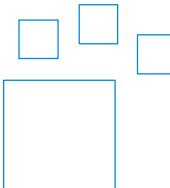
Reliable

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

Easy to install

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

Product configurator



Configurable product
This product and all its 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/)

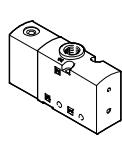
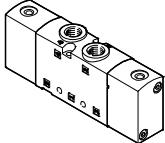
Part No.	Type
576517	VUWS-20
8022015	VUWS-25
8022018	VUWS-30
577304	VTUS-20
8022016	VTUS-25
8022019	VTUS-30

Pneumatic valves VUWS/valve manifold VTUS, NPT

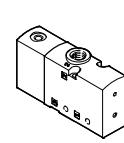
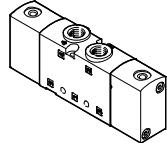
Key features

Pneumatic valves VUWS

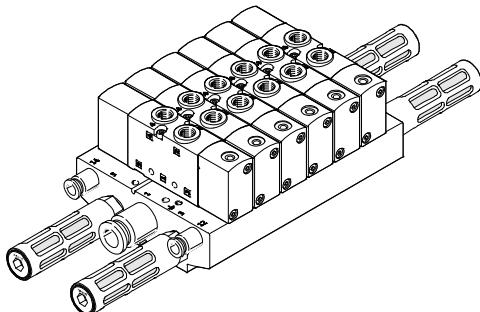
In-line valve VUWS-L as individual valve (piston spool valve)



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



Valve manifold VTUS



In-line valves are designed to be used without pneumatic linking. All pneumatic connections are on the valve and can be equipped with fittings/tubing.

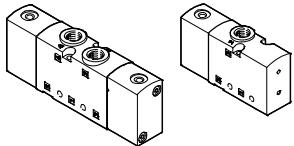
By using a special seal set, the in-line valves can also be mounted on a manifold rail (pneumatic linking) as semi-in-line valves.

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 of VUWS-LT

- 3/2-way valve, normal position open, single solenoid:
 • Reset via mechanical spring
 • Direction of flow not reversible

- 3/2-way valve, normal position closed, single solenoid:
 • Reset via mechanical spring
 • Direction of flow not reversible

- 2x 3/2-way valve, normal position open, single solenoid:
 • Reset via mechanical spring
 • Direction of flow not reversible

- 2x 3/2-way valve, normal position closed, single solenoid:
 • Reset via mechanical spring
 • Direction of flow not reversible

- 3/2-way valve, normal position 1x open, 1x closed, single solenoid:
 • Internal/external pilot air supply
 • Direction of flow not reversible

- 5/2-way single solenoid valve:
 • Reset via mechanical spring
 • Direction of flow not reversible
 • Can also be used as 3/2-way valve by closing one outlet port

- 5/2-way double solenoid valve:
 • Direction of flow not reversible

New

VUWS-LT20, VUWS-LT30

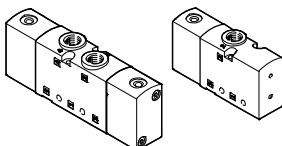
Pneumatic valves VUWS/valve manifold VTUS, NPT

Key features

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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 of VUWS-L

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

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

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

5/2-way valve, monostable:

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

5/2-way valve, bistable:

- Direction of flow reversible

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

- Direction of flow reversible
- Reset via mechanical spring

Key features

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

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

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

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

Design

Valve replacement

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

This means that the valves can be easily replaced.

Extension

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

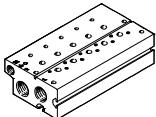
remain unchanged. For the standard manifold block, extension modules with 2 valve positions are available.

Pneumatic valves VUWS/valve manifold VTUS, NPT

Key features

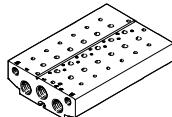
Standard manifold block

For 3/2-way valves



- Connection:
Size 20: 3/8 NPT
Size 25: 1/2 NPT
Size 30: 3/4 NPT
- Maximum 10 valve positions

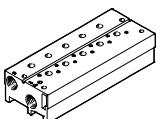
For 5/2- and 5/3-way valves



- Connection:
Size 20: 3/8 NPT
Size 25: 1/2 NPT
Size 30: 3/4 NPT
- Maximum 10 valve positions

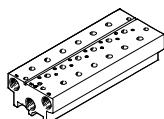
Compact manifold block

For 3/2-way valves



- Connection:
Size 20: 1/4 NPT
Size 25: 3/8 NPT
Size 30: 1/2 NPT
- Maximum 10 valve positions

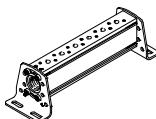
For 5/2- and 5/3-way valves



- Connection:
Size 20: 1/4 NPT
Size 25: 3/8 NPT
Size 30: 1/2 NPT
- Maximum 10 valve positions

Supply manifold

Mounting on both sides



- Connection:
Size 20: 3/8 NPT
Size 25: 1/2 NPT
Size 30: 3/4 NPT
- Maximum 10 valve positions

Blanking plate for unused valve position



For covering unused valve positions

Supply plate



For additional air supply and exhaust via a valve position

Separator for pressure zones



For creating pressure zones
(maximum 9 pressure zones permitted)

Note

A filter must be installed upstream of valves operated in vacuum mode.
This prevents any foreign matter in

the intake air getting into the valve
(e.g. when operating a suction cup).

Pneumatic valves VUWS/valve manifold VTUS, NPT

Key features – Pneumatics

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Creating pressure zones and separating exhaust air

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

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

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

The separator can be used in the following ducts:

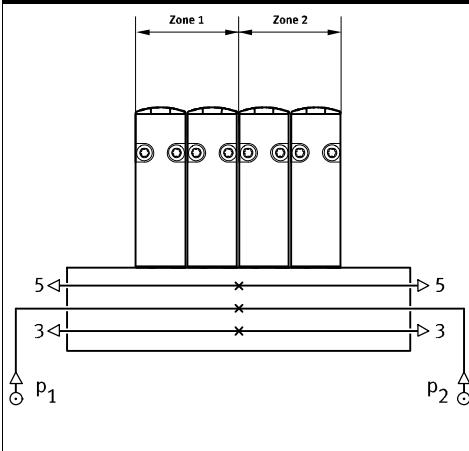
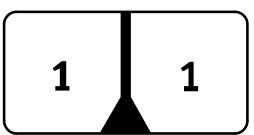
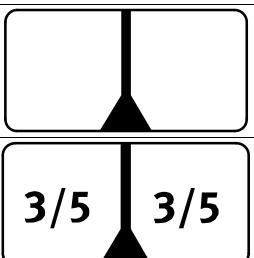
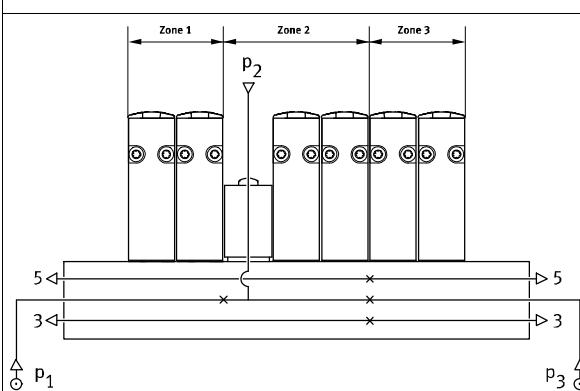
- Duct 1
- Duct 3
- Duct 5

- - Note

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

Duct separation

Description

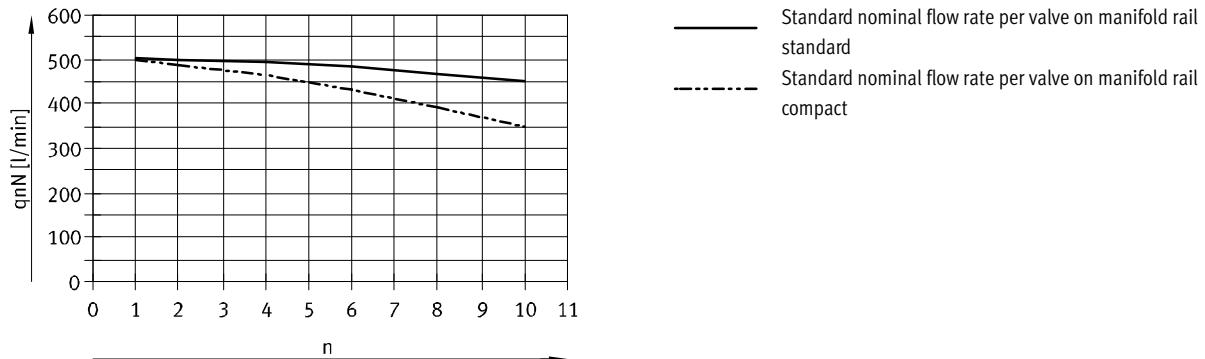
	<p>The pressure zones can be freely configured with the VTUS. The following duct separations are possible:</p> <ul style="list-style-type: none"> • Duct 1 closed  <ul style="list-style-type: none"> • Duct 1/3/5 closed  <ul style="list-style-type: none"> • Duct 3/5 closed
	<p>The number of pressure zones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

Pneumatic valves VUWS/valve manifold VTUS, NPT

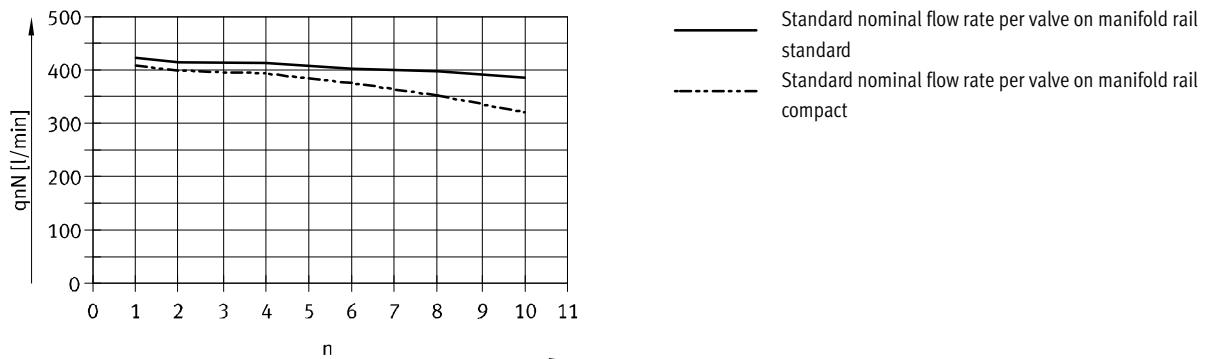
Key features – Pneumatics VUWS-LT

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

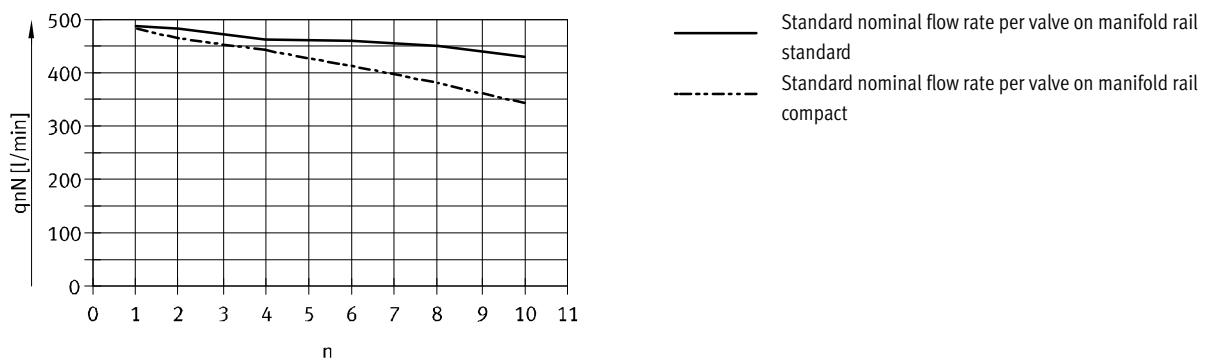
For 3/2-way valves



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



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





New

VUWS-LT20, VUWS-LT30

Pneumatic valves VUWS/valve manifold VTUS, NPT

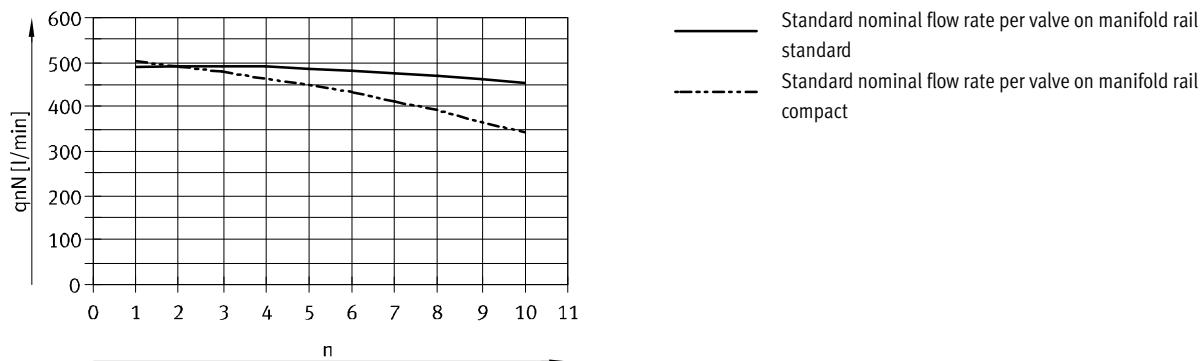
Key features – Pneumatics VUWS-LT

FESTO

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

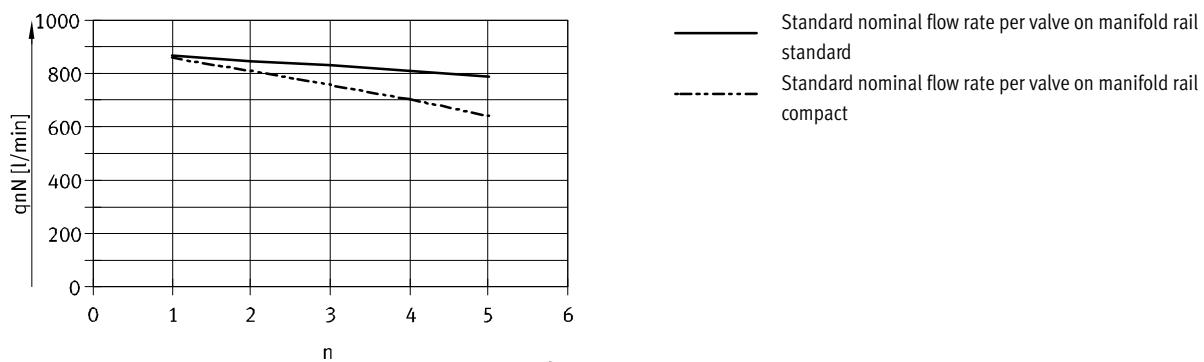
For 2x 3/2-way valves

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



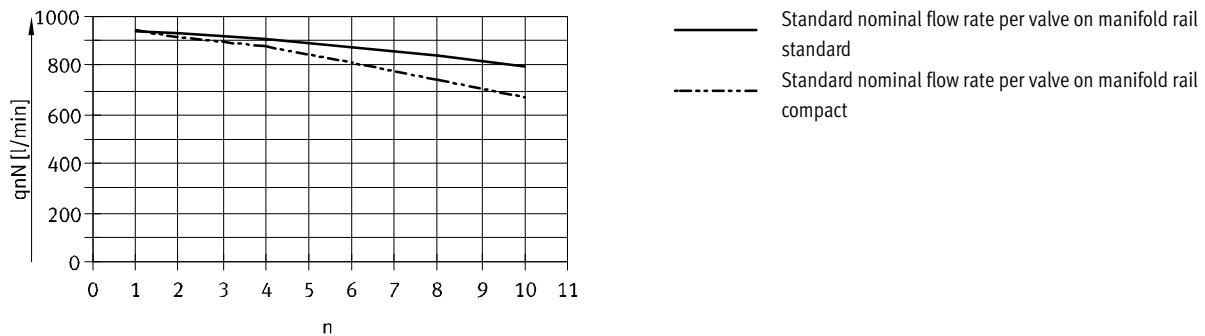
Pneumatic valves VUWS/valve manifold VTUS, NPT

FESTO

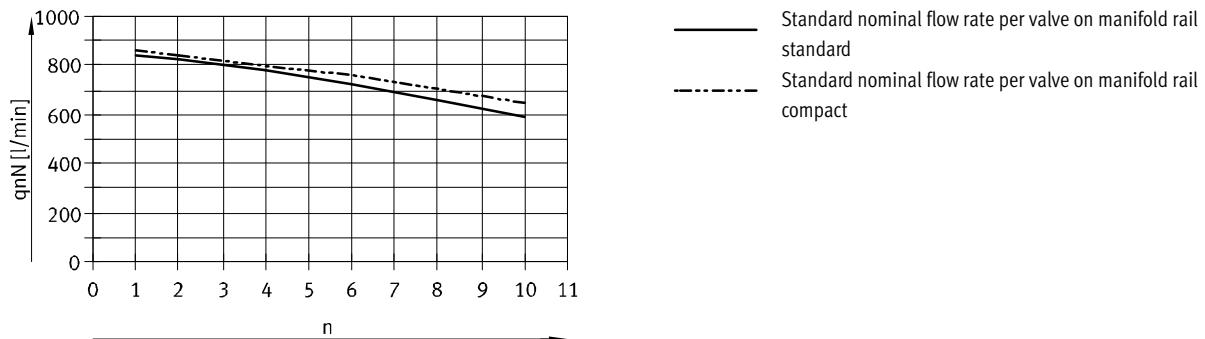
Key features – Pneumatics VUWS-LT

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

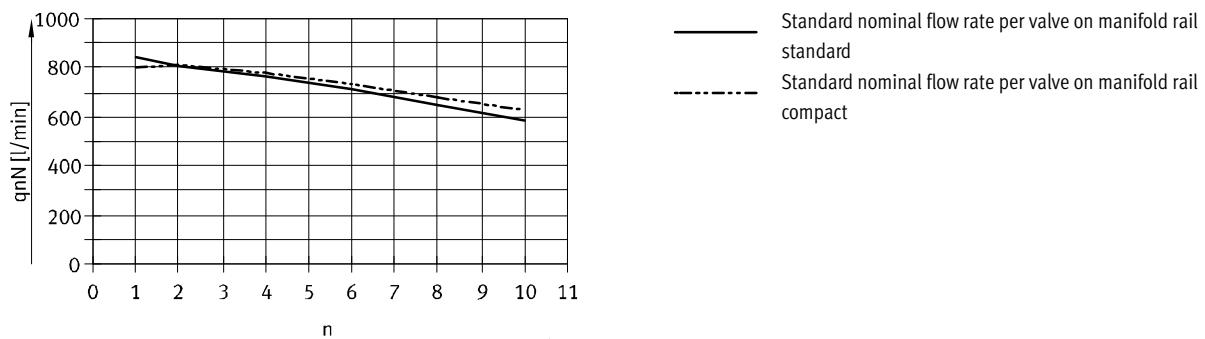
For 3/2-way valves



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



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



Pneumatic valves VUWS/valve manifold VTUS, NPT

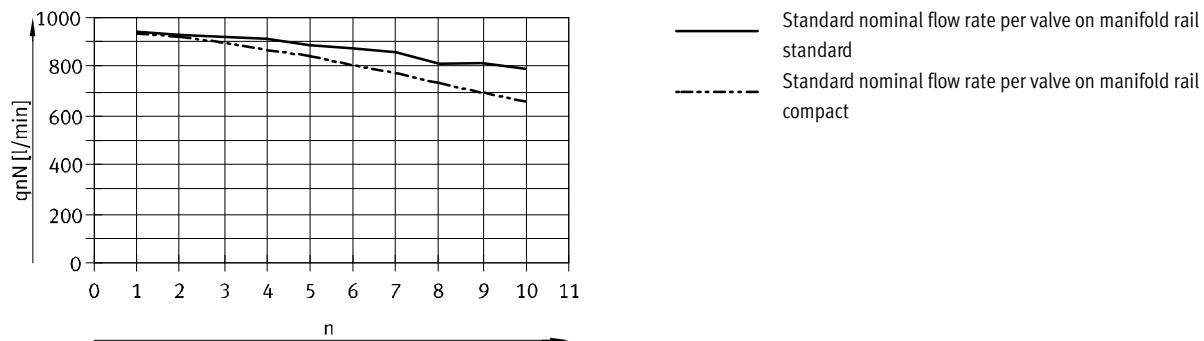
Key features – Pneumatics VUWS-LT

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

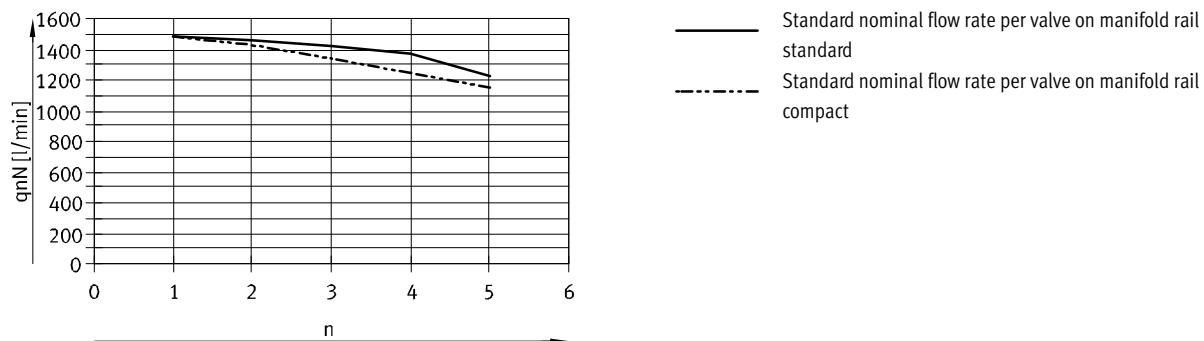
For 2x 3/2-way valves

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

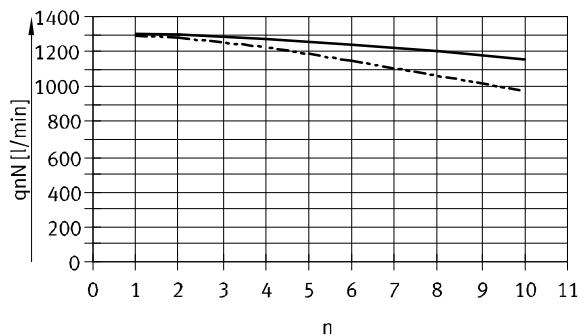


Pneumatic valves VUWS/valve manifold VTUS, NPT

Key features – Pneumatics VUWS-LT

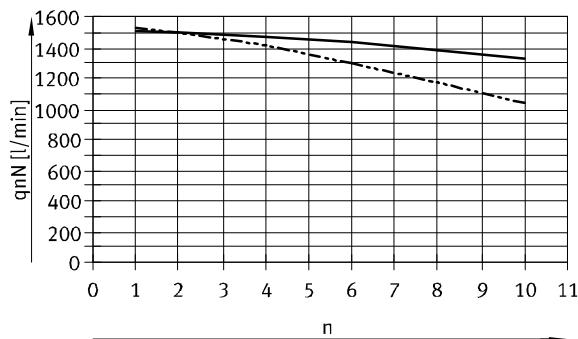
Size 30 – Standard nominal flow rate q_{nN} , with several valves n switched in parallel

For 3/2-way valves



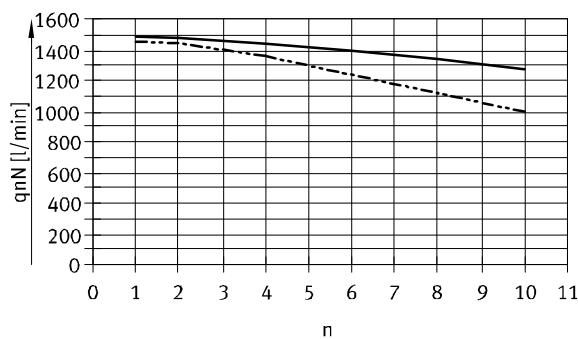
- Standard nominal flow rate per valve on manifold rail standard
- - - Standard nominal flow rate per valve on manifold rail compact

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



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

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



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



New

VUWS-LT20, VUWS-LT30

Pneumatic valves VUWS/valve manifold VTUS, NPT

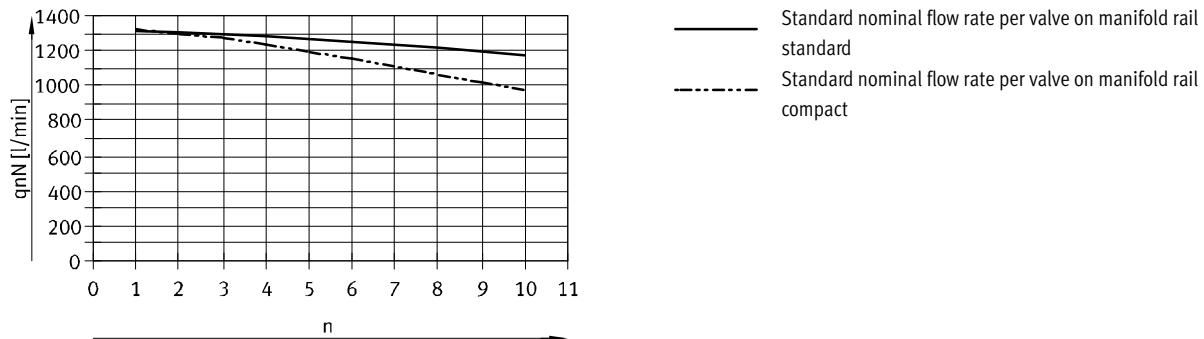
Key features – Pneumatics VUWS-LT

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

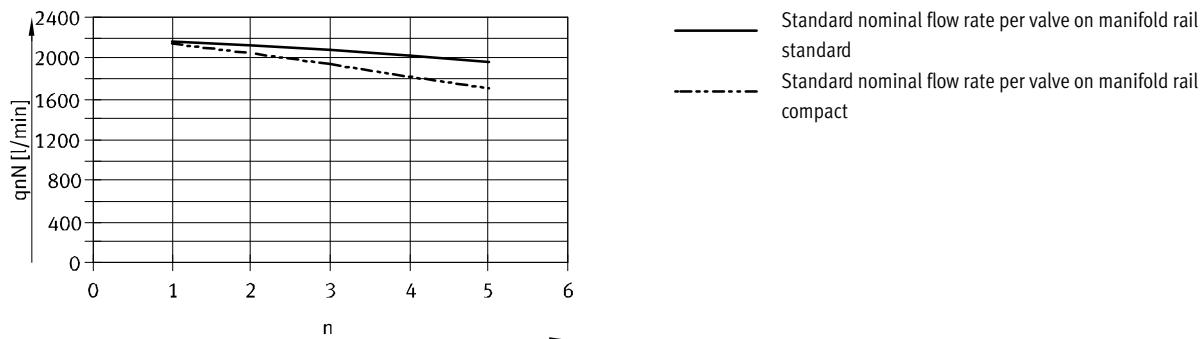
For 2x 3/2-way valves

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



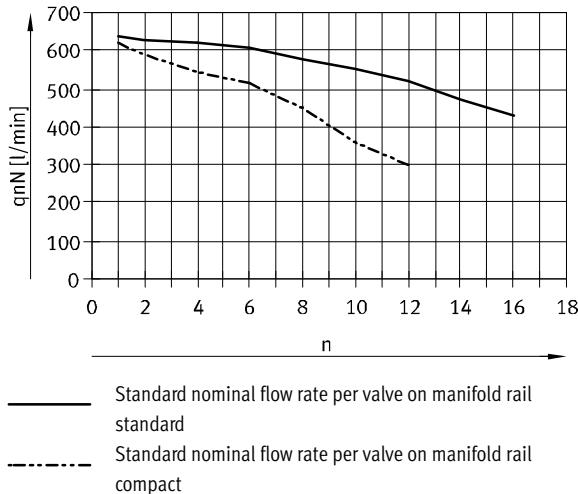
Pneumatic valves VUWS/valve manifold VTUS, NPT

FESTO

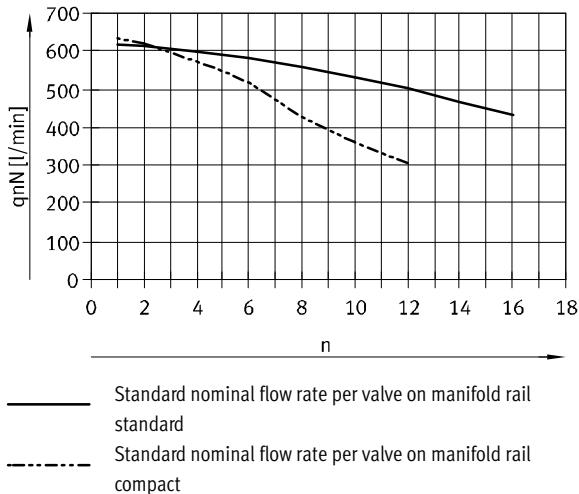
Key features – Pneumatics VUWS-L

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

For 3/2-way valves

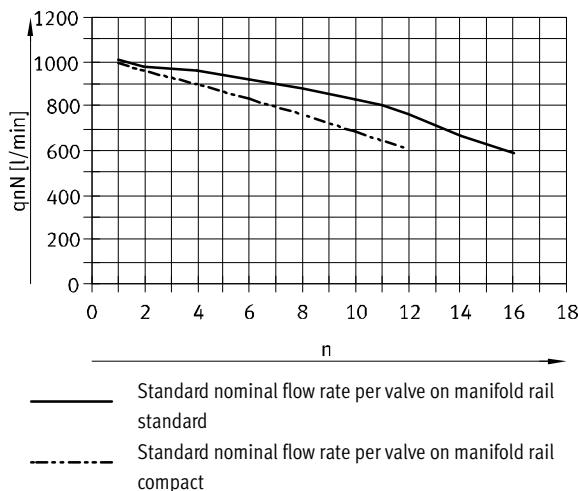


For 5/2- and 5/3-way valves

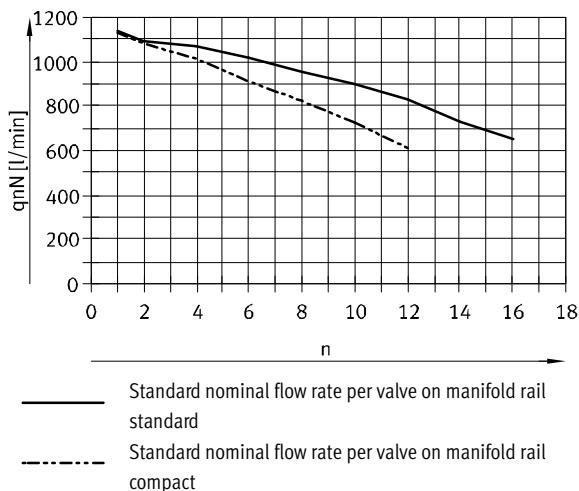


Size 25 – Standard nominal flow rate q_{nN} , with several valves n switched in parallel

For 3/2-way valves



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



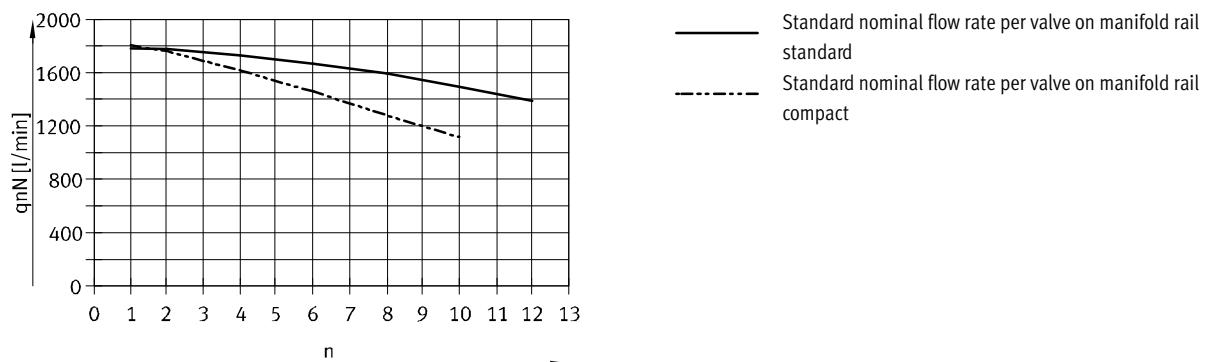
Pneumatic valves VUWS/valve manifold VTUS, NPT

Key features – Pneumatics VUWS-L

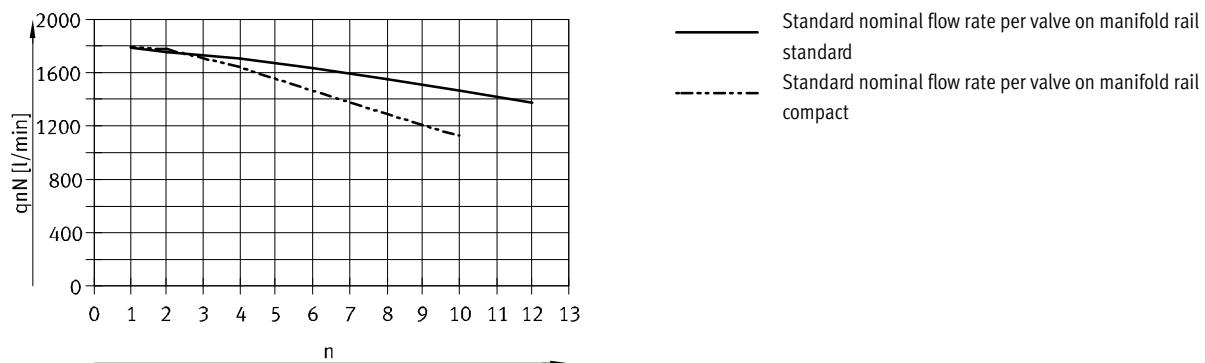
FESTO

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

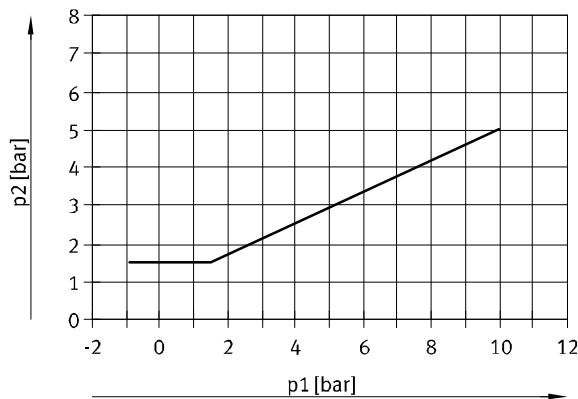


Pneumatic valves VUWS/valve manifold VTUS, NPT

Key features – Pneumatics VUWS-LT

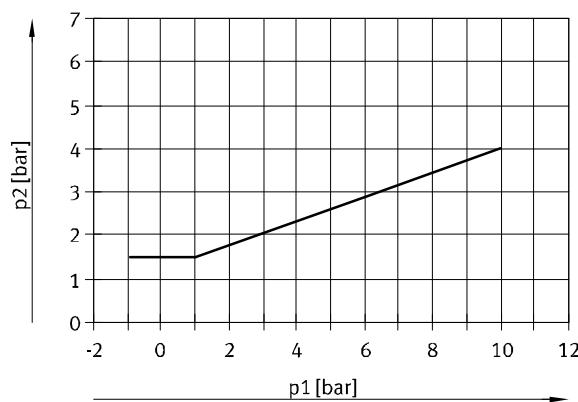
Size 20 – Pilot pressure p2 as a function of working pressure p1

For 3/2-way valves



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

For 3/2-way valves





New

VUWS-LT20, VUWS-LT30

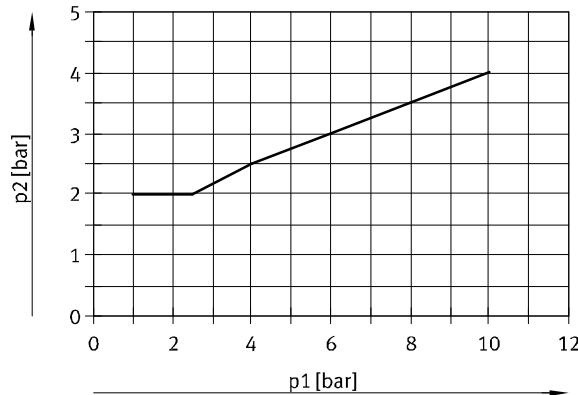
Pneumatic valves VUWS/valve manifold VTUS, NPT

Key features – Pneumatics VUWS-LT

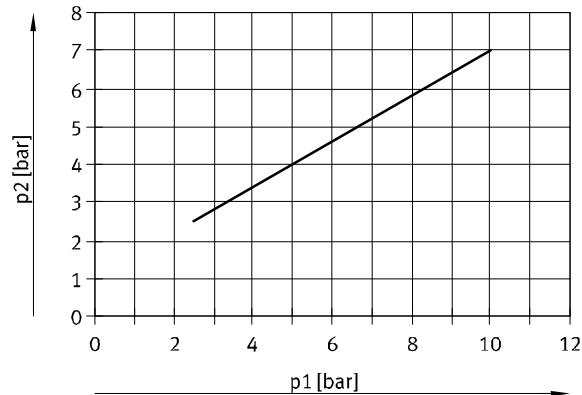
FESTO

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

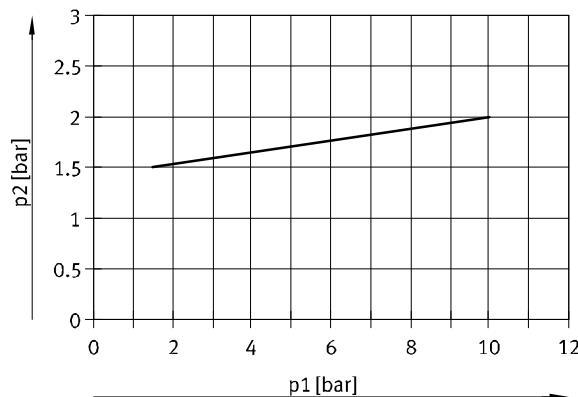
For 3/2-way valves



For 3/2-way valves, single solenoid



For 3/2-way valves, double solenoid



Pneumatic valves VUWS/valve manifold VTUS, NPT

FESTO

Key features – Assembly

Mounting the valve manifold

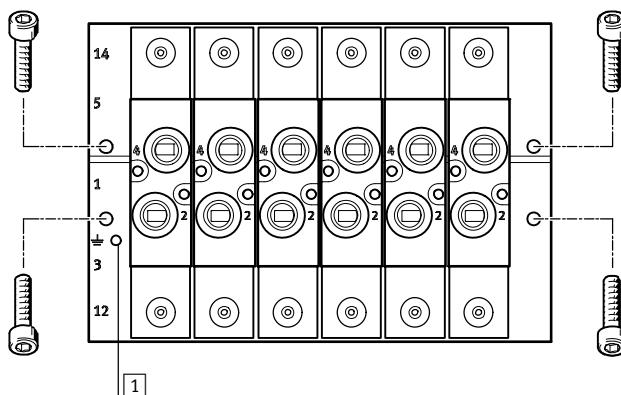
Sturdy manifold assembly owing to:

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



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

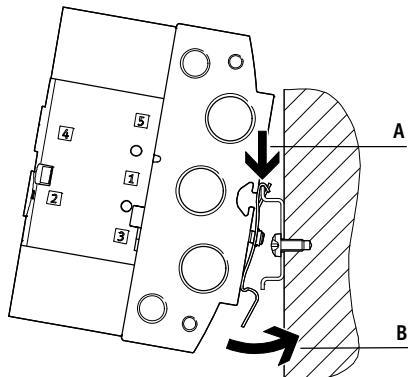
Wall mounting



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

[1] Earth terminal

H-rail mounting



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

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



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

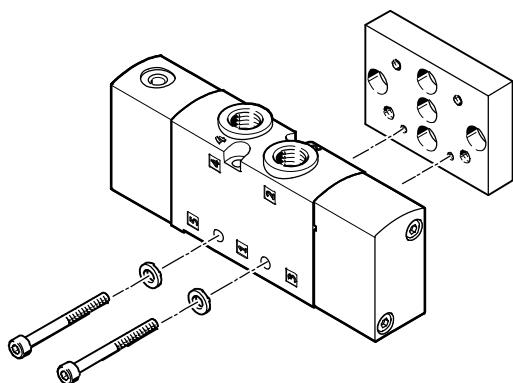
Pneumatic valves VUWS/valve manifold VTUS, NPT

Key features – Assembly

FESTO

Mounting individual valve VUWS

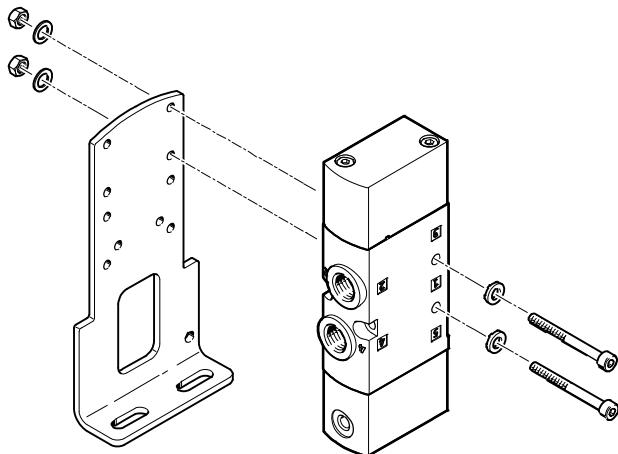
Wall mounting



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.

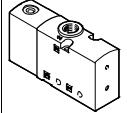
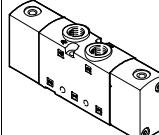
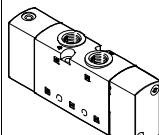
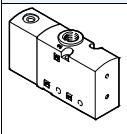
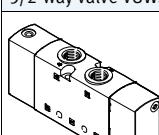
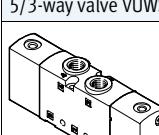
The screw set required is included with the foot mounting VAME-B10-...-A.

Note

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

Pneumatic valves VUWS/valve manifold VTUS, NPT

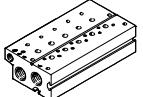
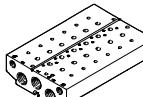
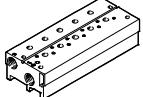
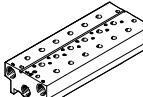
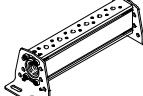
Product range overview

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	1/8 NPT	600	600	—	—	—	—	—	—	—	—	40
	25	1/4 NPT	1000	1000	—	—	—	—	—	—	—	—	58
	30	3/8 NPT	1600	1600	—	—	—	—	—	—	—	—	58
2x 3/2-way valve VUWS-LT													
	20	1/8 NPT	—	—	600	600	600	—	—	—	—	—	40
	25	1/4 NPT	—	—	1000	1000	1000	—	—	—	—	—	58
	30	3/8 NPT	—	—	1600	1600	1600	—	—	—	—	—	58
5/2-way valve VUWS-LT													
	20	1/8 NPT	—	—	—	—	—	500	500	—	—	—	40
	25	1/4 NPT	—	—	—	—	—	1000	1000	—	—	—	58
	30	3/8 NPT	—	—	—	—	—	1800	1800	—	—	—	58
3/2-way valve VUWS-L													
	20	1/8 NPT	700	700	—	—	—	—	—	—	—	—	74
	25	1/4 NPT	1000	1000	—	—	—	—	—	—	—	—	83
	30	3/8 NPT	2300	2300	—	—	—	—	—	—	—	—	92
5/2-way valve VUWS-L													
	20	1/8 NPT	—	—	—	—	—	700	700	—	—	—	74
	25	1/4 NPT	—	—	—	—	—	1300	1300	—	—	—	83
	30	3/8 NPT	—	—	—	—	—	2300	2300	—	—	—	92
5/3-way valve VUWS-L													
	20	1/8 NPT	—	—	—	—	—	—	—	700	600	600	74
	25	1/4 NPT	—	—	—	—	—	—	—	1200	1000	1000	83
	30	3/8 NPT	—	—	—	—	—	—	—	2000	1600	1600	92

Pneumatic valves VUWS/valve manifold VTUS, NPT

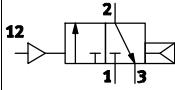
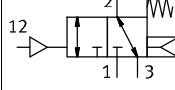
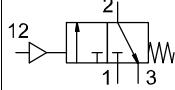
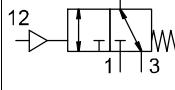
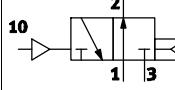
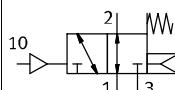
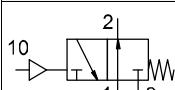
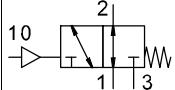
Product range overview

FESTO

Design	Size	Description		➔ Page/ Internet
Manifold block for 3/2-way valves, standard				
	20	VABM-B10-20E-N38- ... -P3	Connection 3/8 NPT	100
	25	VABM-B10-25E-N12- ... -P3	Connection 1/2 NPT	111
	30	VABM-B10-30E-N34- ... -P3	Connection 3/4 NPT	122
Manifold block for 5/2- and 5/3-way valves, standard				
	20	VABM-B10-20E-N38- ...	Connection 3/8 NPT	100
	25	VABM-B10-25E-N12- ...	Connection 1/2 NPT	111
	30	VABM-B10-30E-N34- ...	Connection 3/4 NPT	122
Manifold block for 3/2-way valves, compact				
	20	VABM-B10-20S-N14- ...-P3	Connection 1/4 NPT	100
	25	VABM-B10-25S-N38- ...-P3	Connection 3/8 NPT	111
	30	VABM-B10-30S-N12- ...-P3	Connection 1/2 NPT	122
Manifold block for 5/2- and 5/3-way valves, compact				
	20	VABM-B10-20S-N14- ...	Connection 1/4 NPT	100
	25	VABM-B10-25S-N38- ...	Connection 3/8 NPT	111
	30	VABM-B10-30S-N12- ...	Connection 1/2 NPT	122
Supply manifold, for mounting on both sides				
	20	VABM-B10-20-N38- ... -P53	Connection 3/8 NPT	116
	25	VABM-B10-25-N12- ... -P53	Connection 1/2 NPT	111
	30	VABM-B10-30-N34- ... -P53	Connection 3/4 NPT	122

Pneumatic valves VUWS, NPT

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 Direction of flow: not reversible 	-	-	-	■	■	■
3/2-way valve, normally closed, pneumatic/mechanical spring								
	M32C-M	<ul style="list-style-type: none"> Direction of flow: reversible Reset: mechanical spring, supported internally by pneumatic spring 	-	-	-	■	-	-
3/2-way valve, normally closed, mechanical spring								
	M32C-M	Direction of flow: not reversible	■	■	■	-	-	-
	M32C-M	Direction of flow: reversible	-	-	-	-	■	■
3/2-way valve, normally open, pneumatic spring								
	M32U-A	<ul style="list-style-type: none"> Internal pneumatic spring supply Direction of flow: not reversible Reset: pneumatic spring 	-	-	-	■	■	■
3/2-way valve, normally open, pneumatic/mechanical spring								
	M32U-M	<ul style="list-style-type: none"> Direction of flow: reversible Reset: mechanical spring, supported internally by pneumatic spring 	-	-	-	■	-	-
3/2-way valve, normally open, mechanical spring								
	M32U-M	Direction of flow: not reversible	■	■	■	-	-	-
	M32U-M	Direction of flow: reversible	-	-	-	-	■	■



New

VUWS-LT20, VUWS-LT30

FESTO

Pneumatic valves VUWS, NPT

Valve function

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

Pneumatic valves VUWS, NPT

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 Direction of flow: not reversible 	-	-	-	■	■	■
5/2-way valve, mechanical spring, monostable								
	M52-M	Direction of flow: reversible	-	-	-	■	■	■
	M52-M	<ul style="list-style-type: none"> Direction of flow: not reversible Reset: mechanical spring, supported internally by pneumatic spring 	■	■	■	-	-	-
5/2-way valve, bistable								
	B52	Direction of flow: reversible	-	-	-	■	■	■
	B52	<ul style="list-style-type: none"> Direction of flow: not reversible Holding the switching position: via latch 	■	■	■	-	-	-
5/3-way valve, mid-position closed								
	P53C	Direction of flow: reversible	-	-	-	■	■	■
5/3-way valve, mid-position exhausted								
	P53E	Direction of flow: reversible	-	-	-	■	■	■
5/3-way valve, mid-position pressurised								
	P53U	Direction of flow: reversible	-	-	-	■	■	■



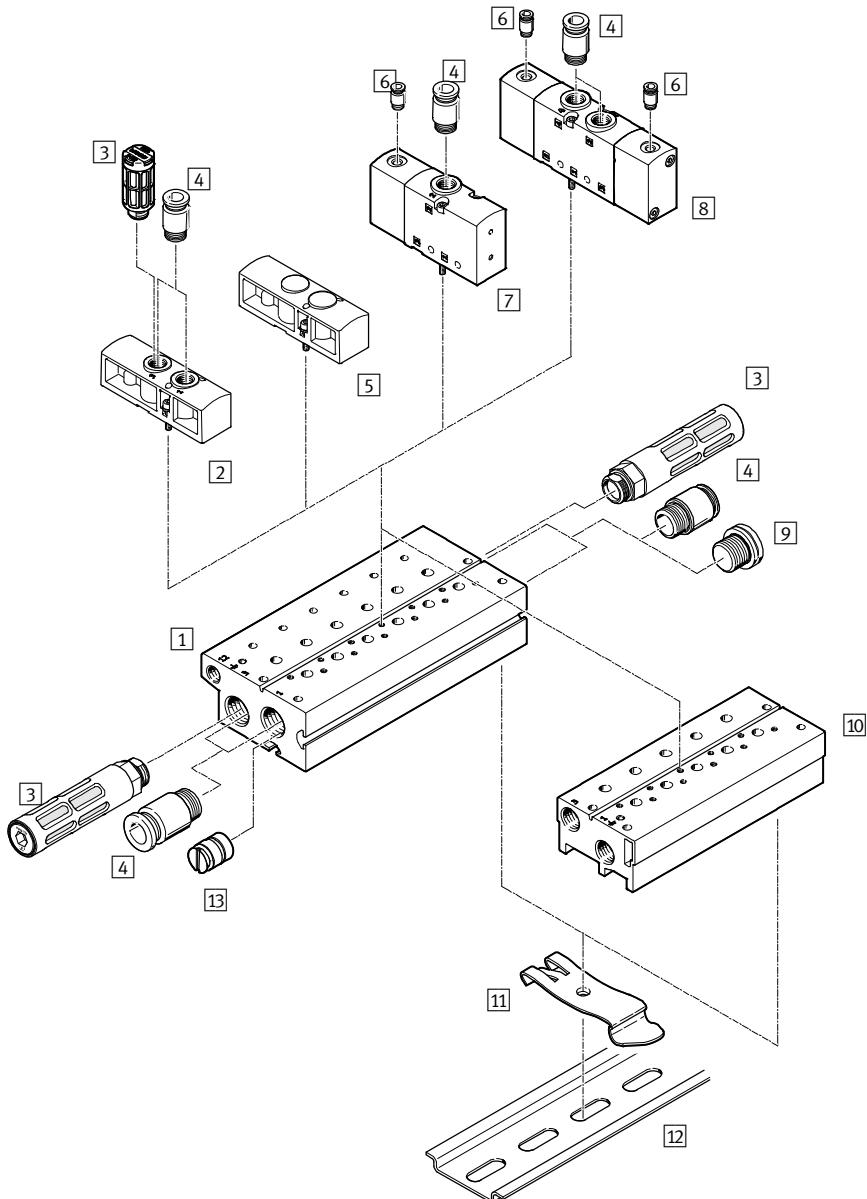
New
VUWS-LT20, VUWS-LT30

Pneumatic valves VUWS/valve manifold VTUS, NPT

Peripherals overview VUWS-LT, VUWS-L

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Manifold block for 3/2-way valves



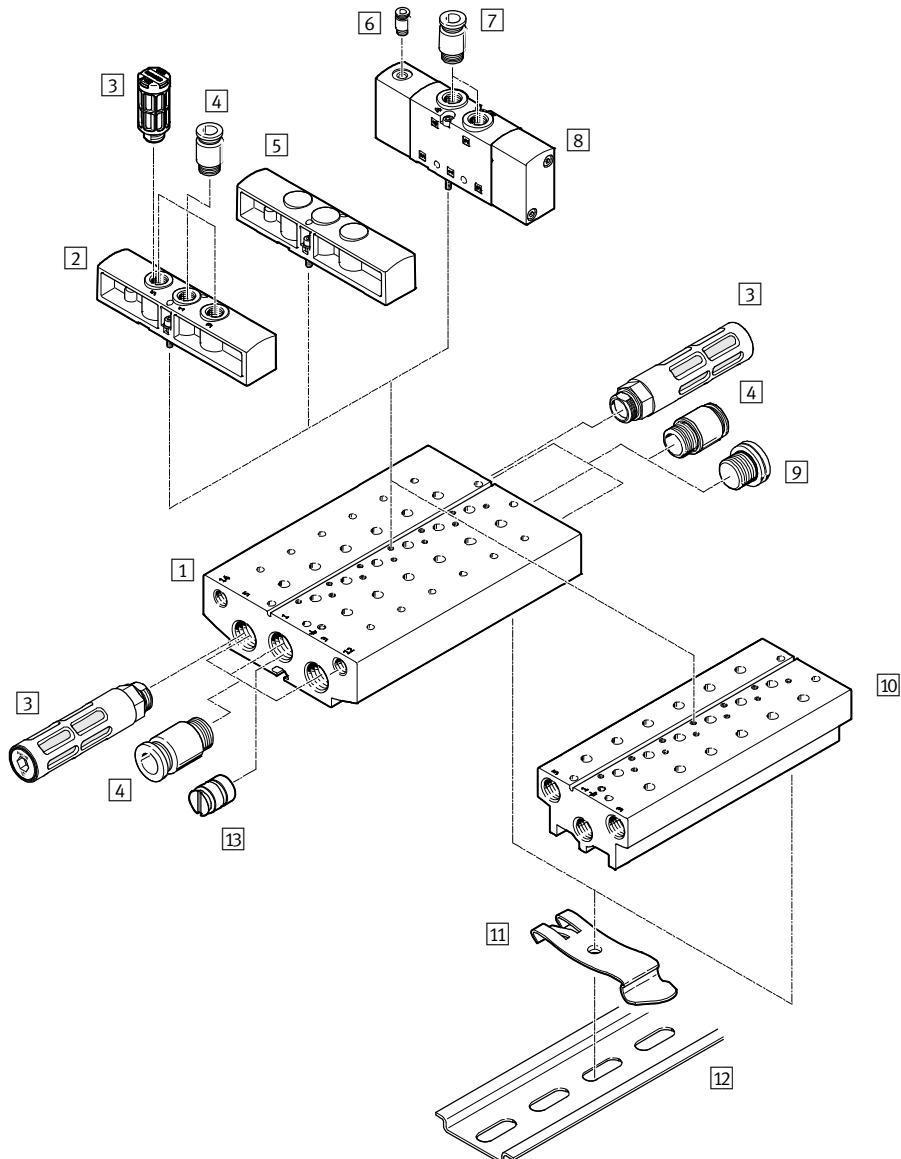
Accessories

Description	Brief description	➔ Page/Internet
1 Standard manifold block	For 3/2-way valves	100
2 Supply plate	For 3/2-way valves	101
3 Silencer	For exhaust ports (3)	103
4 Push-in fitting	For supply/exhaust ports (1, 3)	101
5 Blanking plate	VABB-B10...	101
6 Push-in fitting	For pilot air port	101
7 Pneumatic valve	3/2-way valve	56
8 Pneumatic valve	2x 3/2-way valve (VUWS-LT...)	56
9 Blanking plug	For supply/exhaust ports (1, 3)	104
10 Compact manifold block	For 3/2-way valves	100
11 H-rail mounting	For mounting on standard H-rails	104
12 Standard H-rail	Mounting rail to EN 60715	-
13 Separator	For creating pressure zones (in duct 1 and/or 3)	104

Pneumatic valves VUWS/valve manifold VTUS, NPT

Peripherals overview VUWS-LT, VUWS-L

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



Accessories

Description	Brief description	➔ Page/Internet
[1] Standard manifold block	For 5/2- and 5/3-way valves	100
[2] Supply plate	For 5/2- and 5/3-way valves	101
[3] Silencer	For exhaust ports (5 and/or 3)	103
[4] Push-in fitting	For supply/exhaust ports (1, 3, 5)	101
[5] Blanking plate	VABB-B10-...	101
[6] Push-in fitting	For pilot air port	101
[7] Push-in fitting	For working ports (2, 4)	101
[8] Pneumatic valve	5/2-way, 5/3-way valve	56
[9] Blanking plug	For supply/exhaust ports (1, 3, 5)	104
[10] Compact manifold block	For 5/2- and 5/3-way valves	100
[11] H-rail mounting	For mounting on standard H-rails	104
[12] Standard H-rail	Mounting rail to EN 60715	-
[13] Separator	For creating pressure zones (in ducts 1, 3, 5)	104



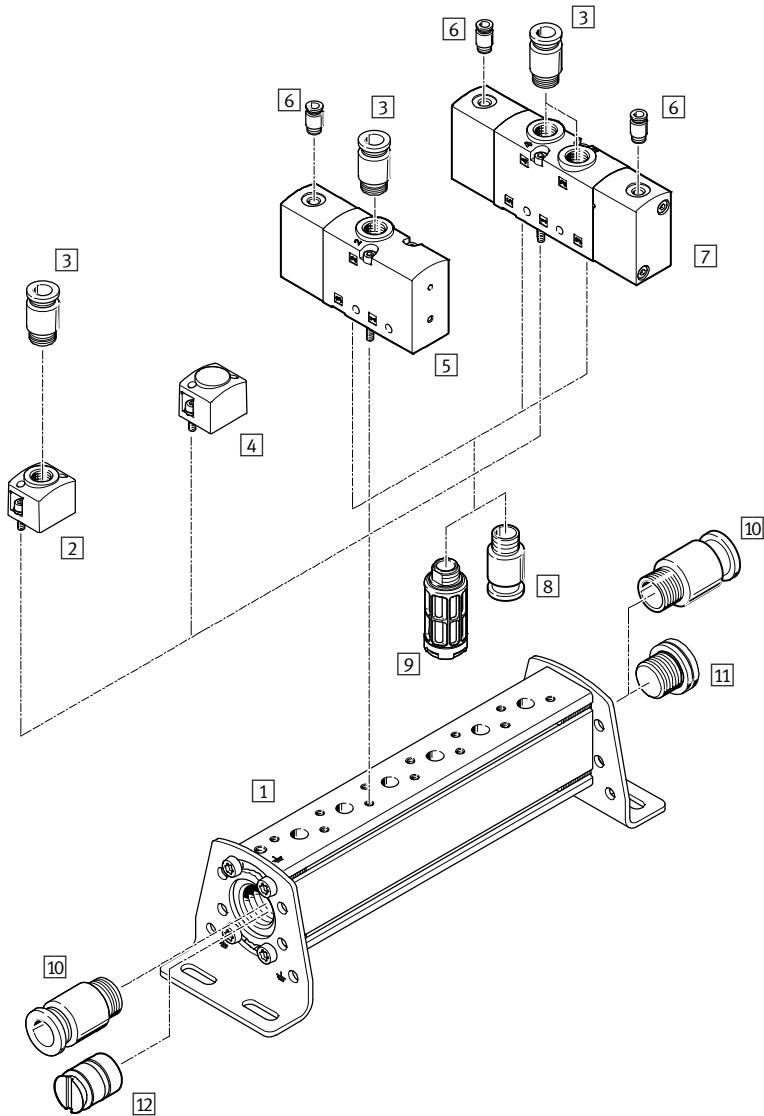
New
VUWS-LT20, VUWS-LT30

Pneumatic valves VUWS/valve manifold VTUS, NPT

Peripherals overview VUWS-LT, VUWS-L

FESTO

Supply manifold for mounting on both sides



Accessories		Brief description	➔ Page/Internet
Description			
1 Supply manifold		For mounting on both sides Mounting bracket can be adjusted through $\pm 30^\circ$	100
2 Supply plate		For supplying air (1) (VABF-B10-...P1...)	101
3 Push-in fitting		For supplying air (1) for working ports (2, 4)	101
4 Blanking plate		VABB-B10-...	101
5 Pneumatic valve		3/2-way valve	56
6 Push-in fitting		For pilot air port	101
7 Pneumatic valve		5/2-way, 5/3-way valve 2x 3/2-way valve (VUWS-LT...)	56 56
8 Push-in fitting		For exhaust ports (3, 5)	101
9 Silencer		For exhaust ports (3, 5)	103
10 Push-in fitting		For supplying air (1)	101
11 Blanking plug		For working port (duct 1)	104
12 Separator		For creating pressure zones (in duct 1)	104

Valve manifold VTUS, NPT

Technical data – Valve manifold

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

-  - Valve width
Size 20: 21 mm
Size 25: 26.5 mm
Size 30: 31 mm



General technical data

Size	20	25	30		
Valve manifold configuration	Fixed grid				
Valve width [mm]	21	26.5	31		
Valve design	VUWS-L VUWS-LT	Piston spool Disc seat	Piston spool Disc seat		
Reset method for valves	VUWS-L VUWS-LT	Pneumatic or mechanical spring Mechanical spring			
Pneumatic spring	Internal or external				
Flow direction	VUWS-L VUWS-LT	Reversible with restrictions Non-reversible			
Suitable for vacuum	VUWS-L VUWS-LT	Yes with restrictions Yes with restrictions	No		
Type of control	Direct				
Manual override (MO)	None				
Lap	VUWS-L VUWS-LT	Overlap Underlap			
Sealing principle	Soft				
Max. no. of valve positions	16 (a maximum of 18 valve positions with extension for standard manifold block)				
Max. number of pressure zones	9				
Exhaust air function	With flow control				
Type of actuation	Pneumatic				
Standard nominal flow rate [qN] [l/min]	600...700		1000...1300 1600...2300		
Pilot air connection	Standard manifold block Compact manifold block Common supply manifold	12/14 12/14 12/14	1/8 NPT On the valve On the valve		
Pilot exhaust air port	82/84 10-32 UNF-2B				
Mounting position	Any				
Corrosion resistance class CRC ¹⁾	2				
Note on materials	RoHS compliant				
Information on materials - seals	VUWS-L VUWS-LT	HNBR, NBR HNBR, NBR, TPE-U(PU)			

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



New

VUWS-LT20, VUWS-LT30

Valve manifold VTUS, NPT

Technical data – Valve manifold

FESTO

ATEX

ATEX category for gas	II 3G				
Type of ignition protection for gas	Ex ec IIC T4 X Gc				
ATEX category for dust	II 3D				
Type of ignition protection for dust	Ex tc IIIC T115°C X Dc				
Explosion ambient temperature [°C]	-10 ... +60				
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)				

Operating and environmental conditions

Valve design	Piston spool	Disc 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)
	+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)
Pilot pressure [bar]	1.5 ... 10 (B52)	1.5 ... 10 (B52)	1.5 ... 10 (B52)	1.5 ... 10	1.5 ... 10 (B52)
	2.5 ... 10	2.5 ... 10	2.5 ... 10	2.5 ... 10 (M52)	2.5 ... 10
Ambient temperature [°C]	-10 ... +60				
Temperature of medium [°C]	-10 ... +60				
Certification	c UL us - Recognized (OL)				

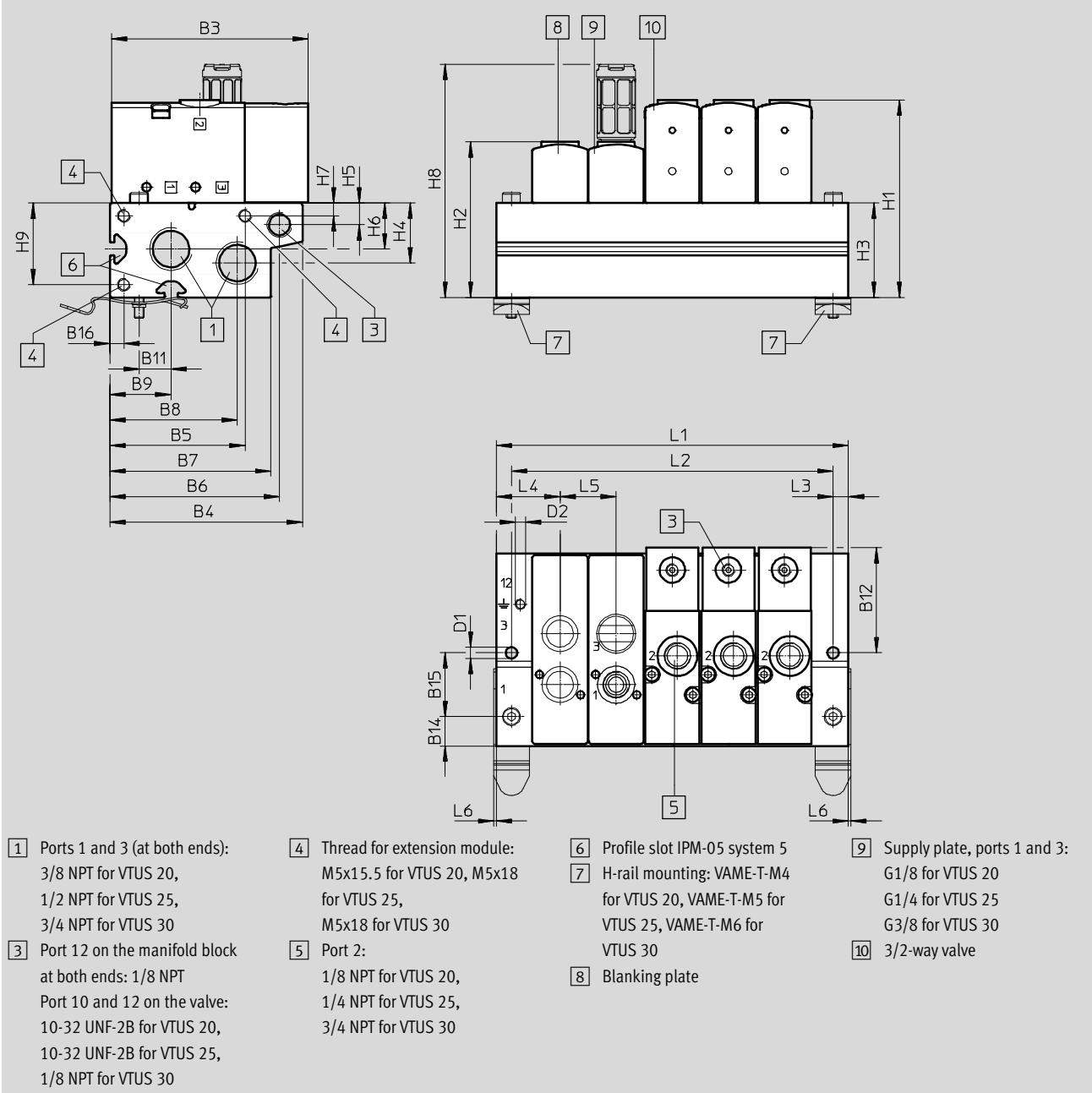
Valve manifold VTUS, NPT

Technical data – Valve manifold

Dimensions

With 3/2-way valves, standard manifold rail

Download CAD data → www.festo.com



 Note

Port 12 on the manifold rail (number 3 in the dimensional drawing) is not

used when equipped with pneumatic valves.



New

VUWS-LT20, VUWS-LT30

Valve manifold VTUS, NPT

Technical data – Valve manifold

FESTO

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

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

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

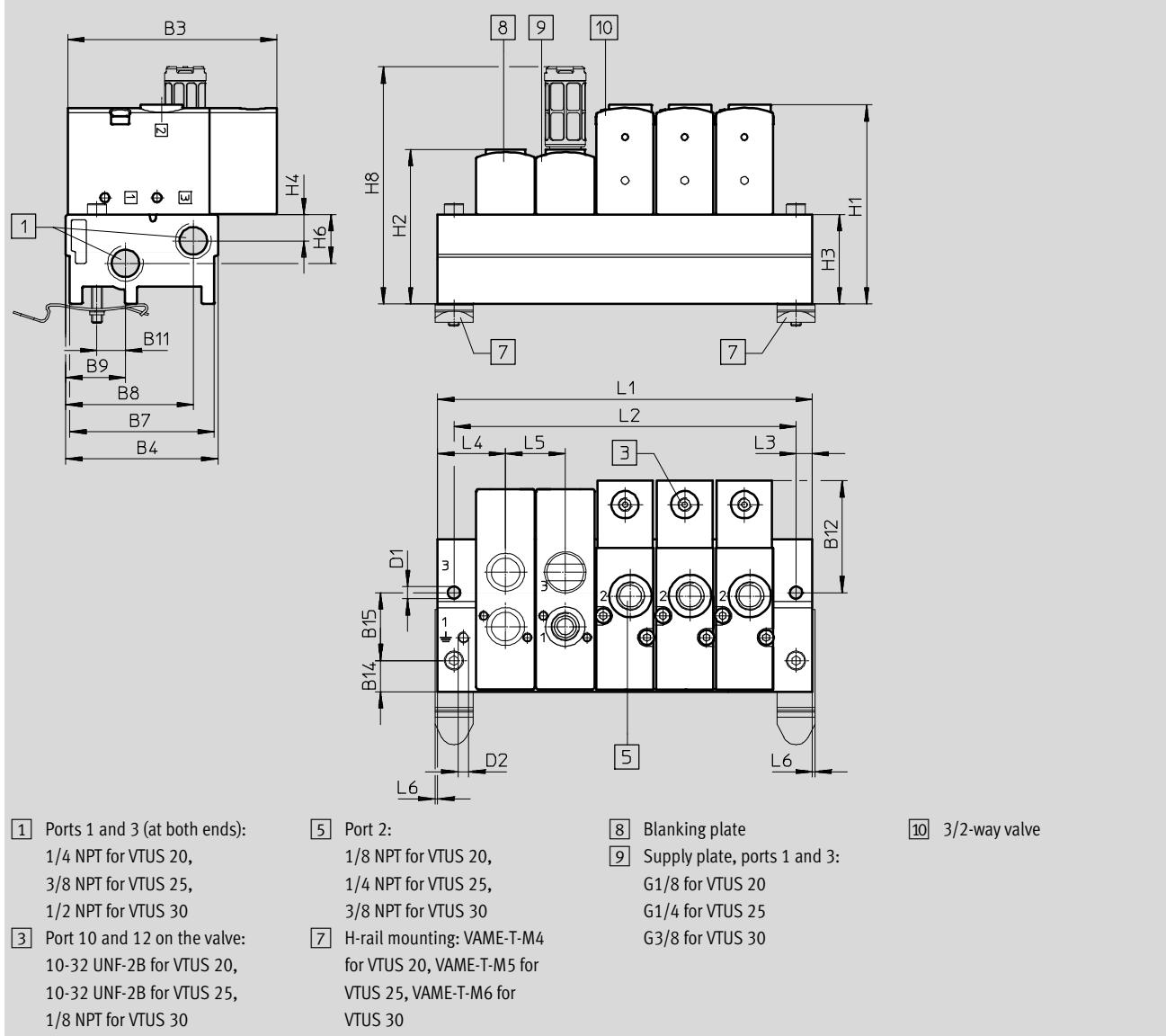
Valve manifold VTUS, NPT

Technical data – Valve manifold

Dimensions – Valve manifold

With 3/2-way valves, compact manifold rail

Download CAD data ➔ www.festo.com





New

VUWS-LT20, VUWS-LT30

Valve manifold VTUS, NPT

Technical data – Valve manifold

FESTO

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

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

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

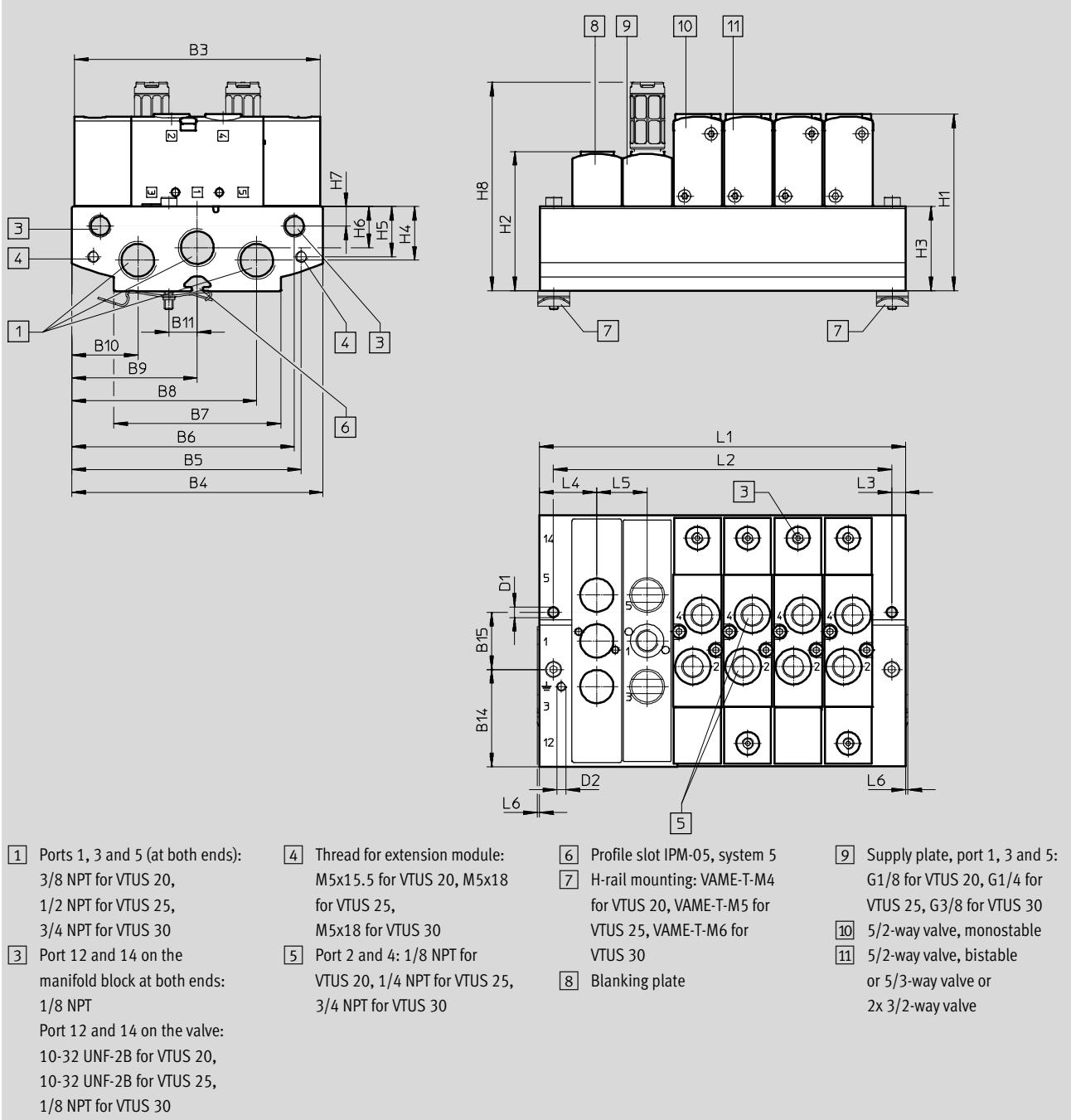
Valve manifold VTUS, NPT

Technical data – Valve manifold

Dimensions – Valve manifold

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

Download CAD data ➔ www.festo.com



- Note

Port 12 on the manifold rail (number 3 in the dimensional drawing) is not

used when equipped with pneumatic
valves.



New

VUWS-LT20, VUWS-LT30

Valve manifold VTUS, NPT

Technical data – Valve manifold

FESTO

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

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

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

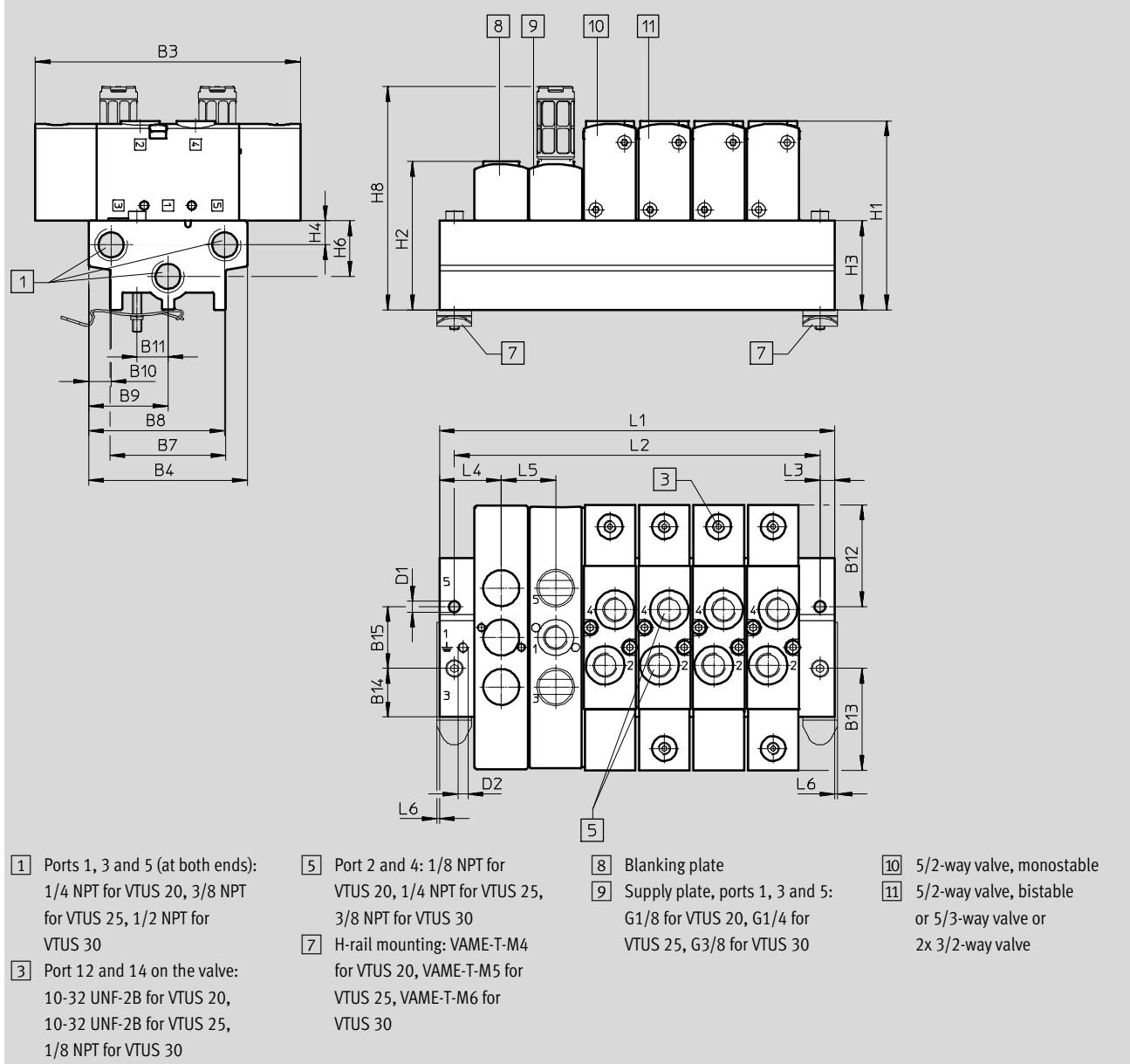
Valve manifold VTUS, NPT

Technical data – Valve manifold

Dimensions – Valve manifold

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

Download CAD data → www.festo.com





New

VUWS-LT20, VUWS-LT30

Valve manifold VTUS, NPT

Technical data – Valve manifold

FESTO

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

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

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

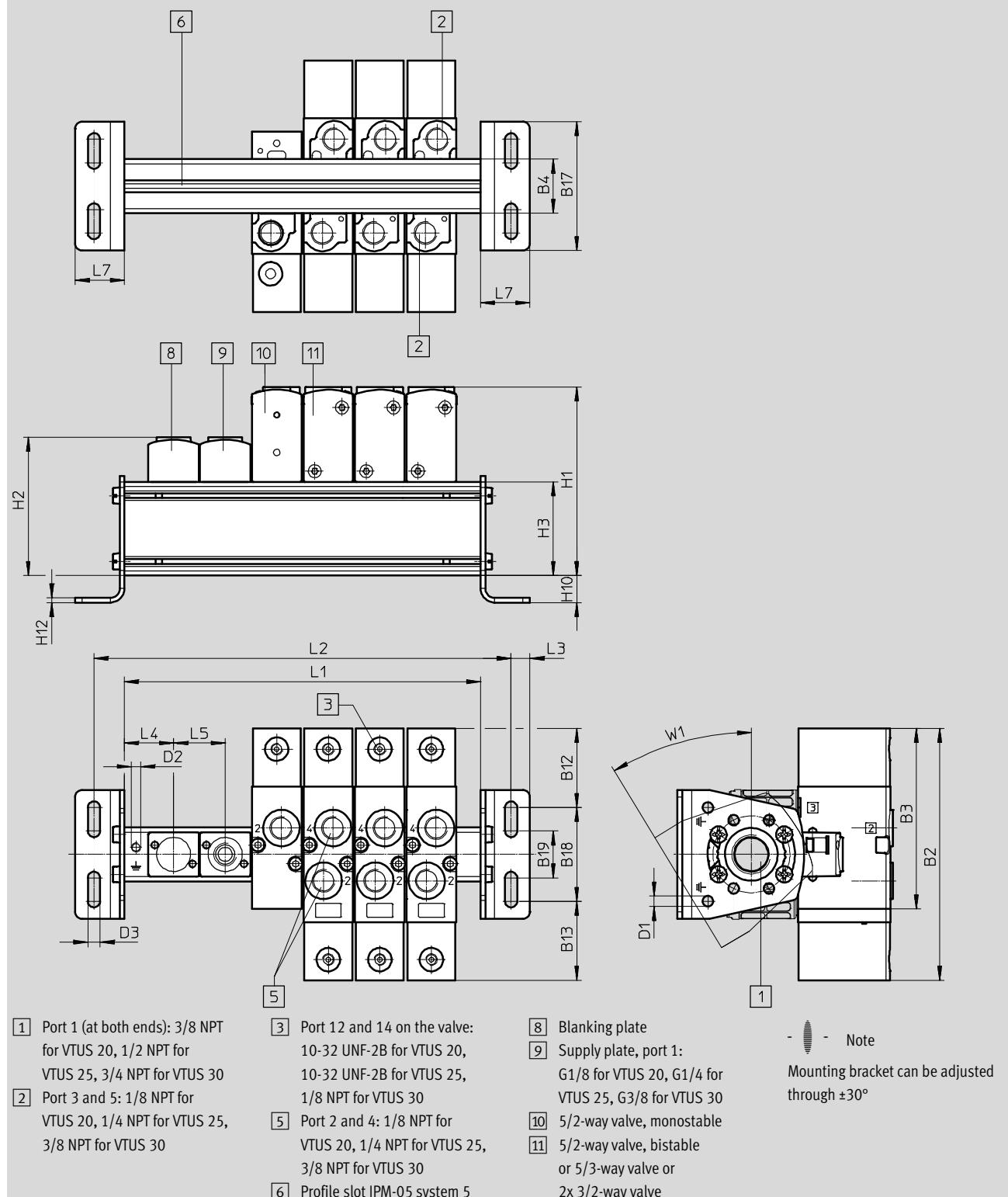
Valve manifold VTUS, NPT

Technical data – Valve manifold

Dimensions – Supply manifold

Mounting on both sides

Download CAD data → www.festo.com





New

VUWS-LT20, VUWS-LT30

FESTO

Valve manifold VTUS, NPT

Technical data – Valve manifold

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

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

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

Pneumatic valves VUWS, NPT

Order code – Pneumatic valves

VUWS - L - - - -

Type of directional control valve

In-line valve

L

Design principle

Piston spool with sealing cartridge

-

Poppet valve, soft seal

T

Size

Valve width

21 mm

20

26.5 mm

25

31 mm

30

Valve functions

3/2-way valve, normally closed

M32C

3/2-way valve, normally open

M32U

2x 3/2-way valve, normally closed

T32C

2x 3/2-way valve, normally open

T32U

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

T32H

5/2-way valve, monostable

M52

5/2-way valve, bistable

B52

5/3-way valve, mid-position closed

P53C

5/3-way valve, mid-position pressurised

P53U

5/3-way valve, mid-position exhausted

P53E

- - - - -

Exhausting

- Without fitting

QN With fitting

U1 Silencer with metal housing

U3 Silencer with polymer housing

U5 Silencer with sintered housing

Pneumatic connection

N18 Thread 1/8 NPT

N14 Thread 1/4 NPT

N38 Thread 3/8 NPT

T532 Push-in connector 5/32"

T14 Push-in connector 1/4"

T516 Push-in connector 5/16"

T38 Push-in connector 3/8"

T12 Push-in connector 1/2"

Type of reset

- None (for bistable valves)

A Pneumatic spring

M Mechanical spring

Pneumatic valves VUWS-LT, size 20, NPT

Technical data

FESTO

-  - 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	Disc seat						
Pneumatic spring supply	Internal						
Type of control	Direct						
Manual override (MO)	None						
Flow direction	Non-reversible						
Overlap	Underlap						
Sealing principle	Soft						
Type of mounting	Optionally via through-holes 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
Actuation type	Pneumatic						
Mounting position	Optional						
Exhaust air function	With flow control option						
Venting hole	Not ducted						
Pneumatic connection	1, 2, 3	1/8 NPT	1/8 NPT	1/8 NPT	1/8 NPT	1/8 NPT	1/8 NPT
	4, 5	-	-	1/8 NPT	1/8 NPT	1/8 NPT	1/8 NPT
Pneumatic spring connection 12/14, 10	10-32 UNF-2B						

Technical data – 3/2-way valves

Order code for valves	M32C	M32U	T32C	T32U	T32H
Normal position	Closed	Open	Closed	Open	1x open, 1x closed
Stable position	Monostable				
Reset method	Mechanical spring				
Switching times in [ms]	On	6	6	6	6
	Off	19	18	19	19

Pneumatic valves VUWS-LT, size 20, NPT

Technical data

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

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]	1.5 ... 10	1.5 ... 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
Approval certificate	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 may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

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

Pneumatic valves VUWS-LT, size 20, NPT

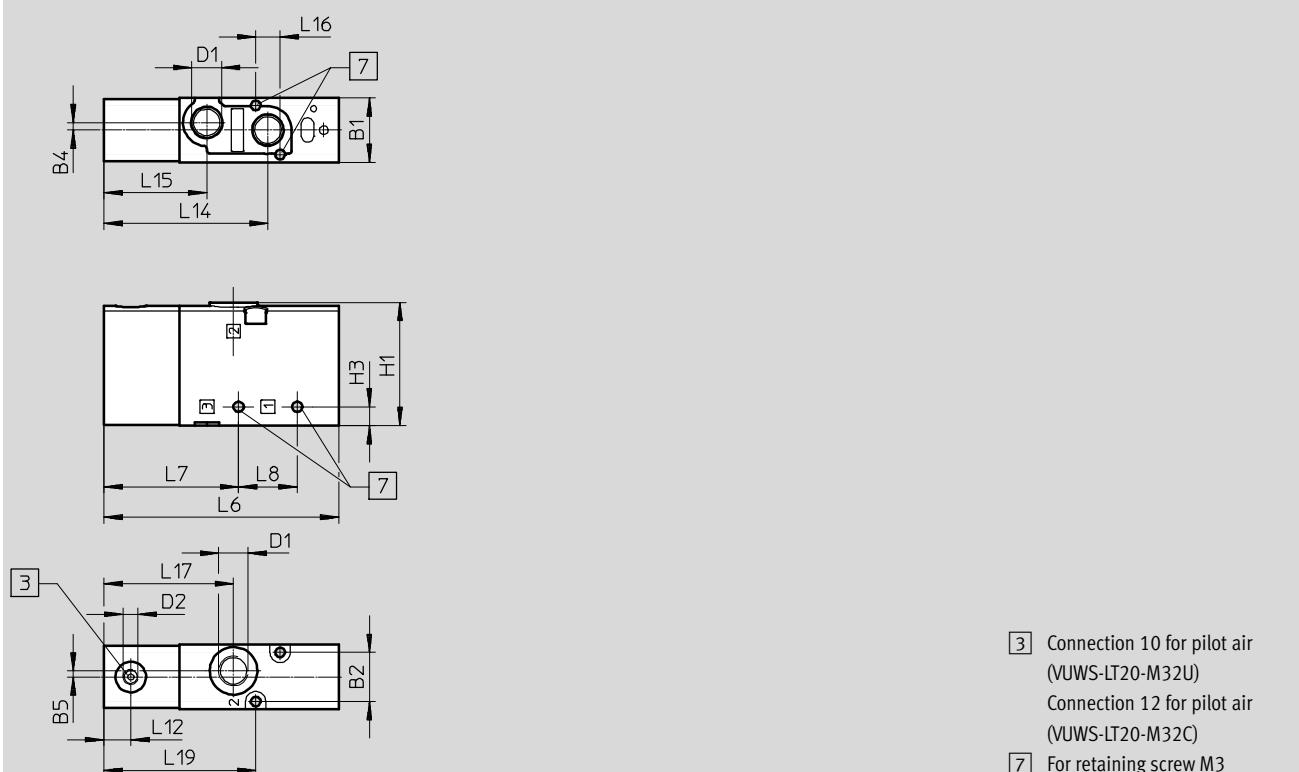
Technical data

FESTO

Dimensions

3/2-way valve, normally closed/open

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Type	B1	B2	B4	B5	D1	D2	H1	H3
VUWS-LT20-M32-...-N18	21.1	16.1	2.5	2	1/8 NPT	10-32 UNF-2B	40.4	6.2

Type	L6	L7	L8	L12	L14	L15	L16	L17	L19
VUWS-LT20-M32-...-N18	66.6	44.1	19.2	8.8	53.7	33.7	8	42.5	49.7

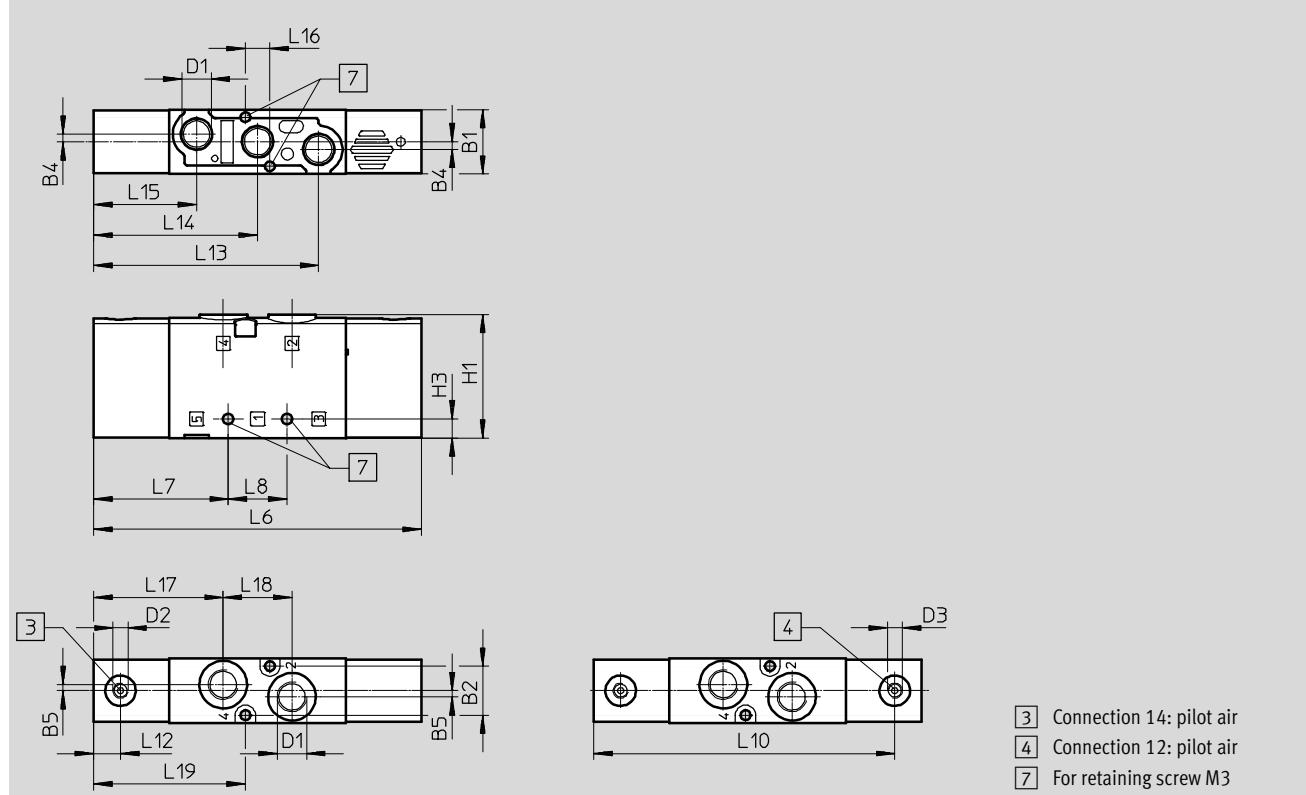
Pneumatic valves VUWS-LT, size 20, NPT

Technical data

Dimensions

5/2-way valve, monostable

Download CAD data → www.festo.com



Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-LT20-M52-M...-N18	21.1	16.1	2.5	2	1/8 NPT	10-32 UNF-2B	-	40.4	6.2

Type	L6	L7	L8	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-LT20-M52-M...-N18	107.4	44.1	19.2	8.8	73.7	53.7	33.7	8	42.5	22.5	49.7

Pneumatic valves VUWS-LT, size 20, NPT

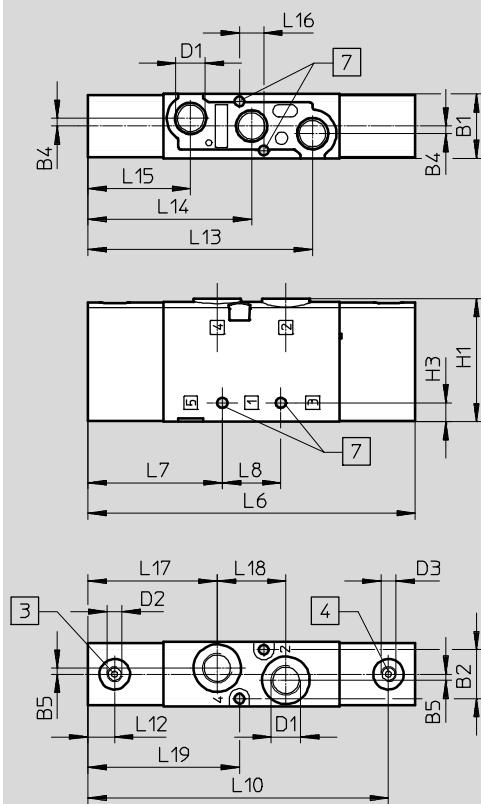
Technical data

FESTO

Dimensions

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

Download CAD data ➔ www.festo.com



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

Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-LT20-T32-...-M-N18	21.1	16.1	2.5	2	1/8 NPT	10-32 UNF-2B	10-32 UNF-2B	40.4	6.2
VUWS-LT20-B52-N18									

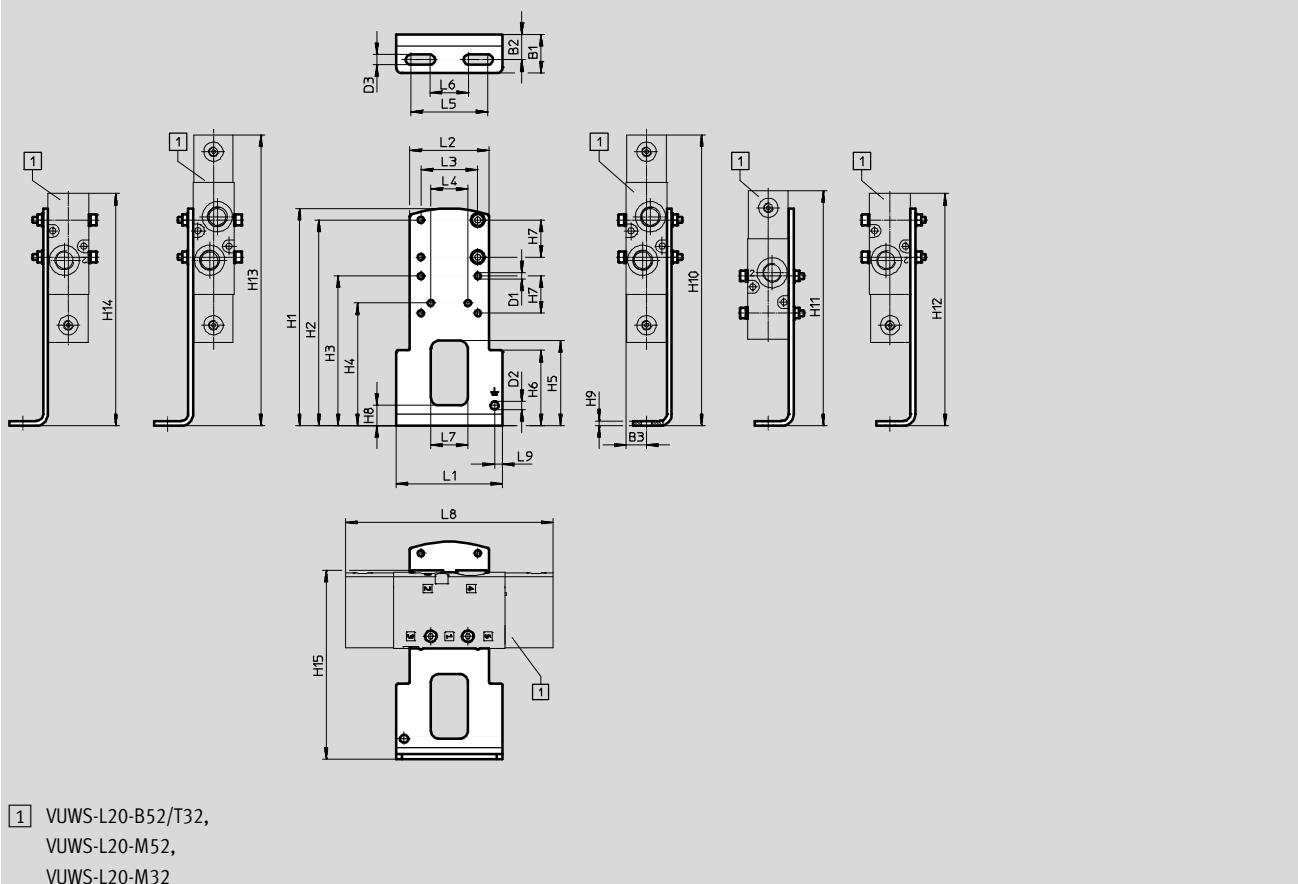
Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-L20-T32-...-M-N18	107.4	44.1	19.2	98.6	8.8	73.7	53.7	33.7	8	42.5	22.5	49.7
VUWS-LT20-B52-N18												

Pneumatic valves VUWS-LT, size 20, NPT

Technical data

Dimensions

Foot mounting



- [1] VUWS-L20-B52/T32,
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-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										

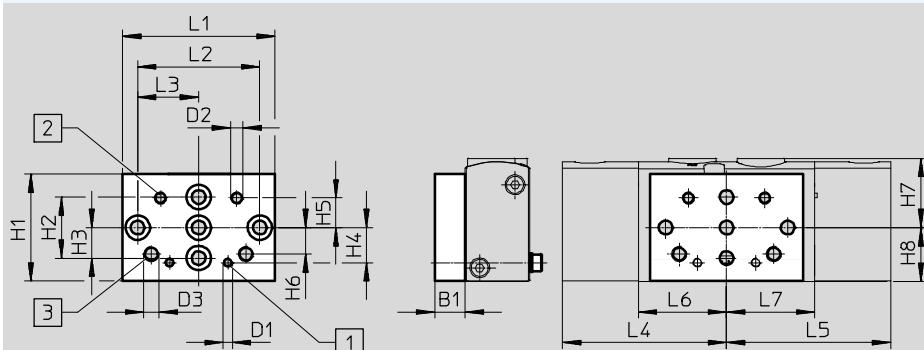
Pneumatic valves VUWS-LT, size 20, NPT

Technical data

FESTO

Dimensions

Wall mounting



[1] Mounting hole for size 20

[2] Mounting hole for size 25

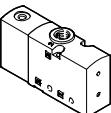
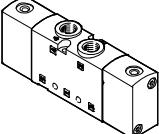
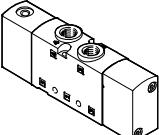
[3] Mounting hole for size 30

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

Type		H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUWS-LT20-B52/T32	22.7	17.7	50	40	20	53.7	53.7	28.9	28.9
	VUWS-LT20-M52									
	VUWS-LT20-M32								12.9	-

Pneumatic valves VUWS-LT, size 20, NPT

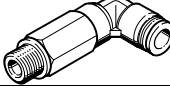
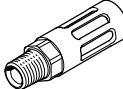
Ordering data

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	577532	VUWS-LT20-M32C-M-N18
	Normally open, monostable	M32U	Reset via pneumatic spring, internal pilot air supply, flow direction not reversible	577533	VUWS-LT20-M32U-M-N18
2x 3/2-way valve					
	Monostable, normally closed	T32C	Reset via mechanical spring, internal pilot air supply, flow direction not reversible	577536	VUWS-LT20-T32C-M-N18
	Monostable, normally open	T32U	Reset via mechanical spring, internal pilot air supply, flow direction not reversible	577537	VUWS-LT20-T32U-M-N18
	Monostable, 1x normally open, 1x normally closed	T32H	Reset via mechanical spring, internal pilot air supply, flow direction not reversible	577538	VUWS-LT20-T32H-M-N18
5/2-way valve					
	Monostable	M52-M	Reset via mechanical spring, internal pilot air supply, flow direction not reversible	577534	VUWS-LT20-M52-M-N18
	Bistable	B52	Internal pilot air supply, flow direction not reversible	577535	VUWS-LT20-B52-N18

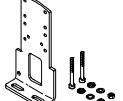
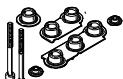
Pneumatic valves VUWS-LT, size 20, NPT

Accessories

FESTO

Ordering data		Description	Part No.	Type	PU ¹⁾
Push-in fitting with internal hexagon					
	Connecting thread 10-32 UNF for tubing O.D. Connecting thread 1/8 NPT for tubing O.D.	5/32 "	572312	QBM-10-32-UNF-5/32-I-U	10
		5/32 "	572317	QB-1/8-5/32-I-U	10
		1/4 "	572318	QB-1/8-1/4-I-U	10
		5/16 "	572319	QB-1/8-5/16-I-U	10
Angled push-in fitting with external hexagon					
	Connecting thread 1/8 NPT for tubing O.D.	5/32 "	533290	QBL-1/8-5/32-U	10
		1/4 "	533292	QBL-1/8-1/4-U	10
		5/16 "	533293	QBL-1/8-5/16-U	10
Angled push-in fitting, long, with external hexagon					
	Connecting thread 1/8 NPT for tubing O.D.	5/32 "	564668	QBLL-1/8-5/32-U	10
		1/4 "	564670	QBLL-1/8-1/4-U	10
		5/16 "	564671	QBLL-1/8-5/16-U	10
Silencers					
	With connecting thread NPT, metal design	1/8 NPT	12638	U-1/8-B-NPT	1
	With connecting thread NPT, sintered design, long	1/8 NPT	1206989	AMTE-M-LH-N18	20

1) Packaging unit

Ordering data		Weight [g]	Part No.	Type
Description				
Foot mounting		Set for mounting valves, comprising: • 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: • Wall mounting and • Screw set for mounting	53	576413 VAME-B10-20-W	
Assortment of spare parts				
	Set comprising: • Seals and • Screws	10	8026203 VAME-B10-20-MK	
Inscription label				
	40 pieces in frame	-	565306 ASLR-C-E4	

Pneumatic valves VUWS-LT, size 25, NPT

FESTO

Technical data

-  - 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	Disc seat						
Pneumatic spring supply	Internal						
Type of control	Direct						
Manual override (MO)	None						
Flow direction	Non-reversible						
Lap	Underlap						
Sealing principle	Soft						
Type of mounting	Optionally via through-holes or on manifold rail						
Standard nominal flow rate qN [l/min]	1000						
Through-holes (nominal width) [mm]	6.9	6.6	6.9	6.9	6.9	6.6	6.6
Product weight [g]	221	255	343	411	377	317	344
Actuation type	Pneumatic						
Mounting position	Any						
Exhaust air function	With flow control						
Connection for breathing opening	Not ducted						
Pneumatic connection 1, 2, 3	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT
Pneumatic connection 4, 5	-	-	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT
Pneumatic spring connection 12/14, 10	10-32 UNF-2B						

Technical data – 3/2-way valves

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

Pneumatic valves VUWS-LT, size 25, NPT

Technical data

FESTO

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

Safety data	
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 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 ¹⁾	2			

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

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

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

Pneumatic valves VUWS-LT, size 25, NPT

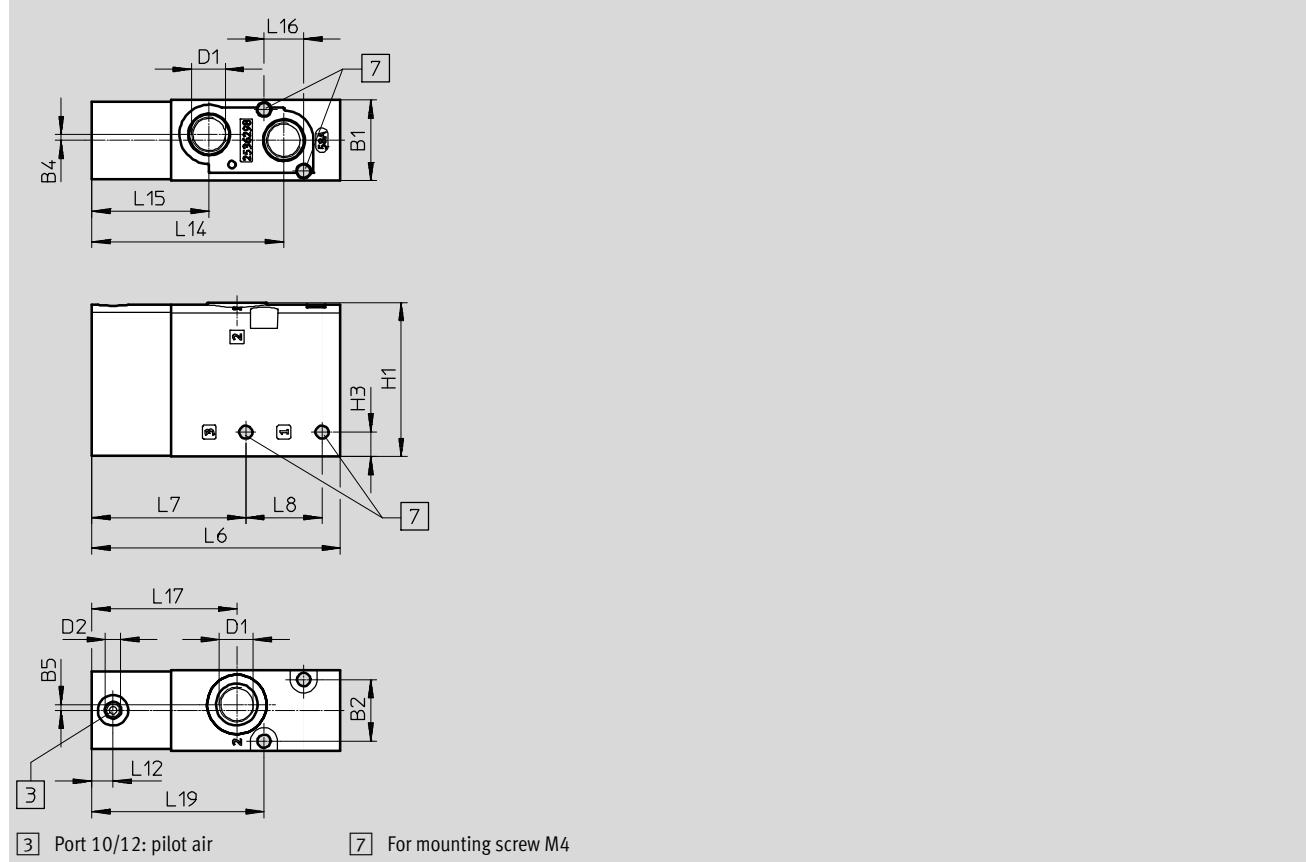
FESTO

Technical data

Dimensions

3/2-way valve

Download CAD data ➔ www.festo.com



Type	B1	B2	B4	B5	D1	D2	H1	H3
VUWS-LT25-M32...-M-N14	26.5	20.2	1.9	1.9	1/4 NPT	10-32 UNF-2B	50.5	8

Type	L6	L7	L8	L12	L14	L15	L16	L17	L19
VUWS-LT25-M32...-M-N14	81.6	50.5	25	7	63	38.5	13	47.6	56.5

Pneumatic valves VUWS-LT, size 25, NPT

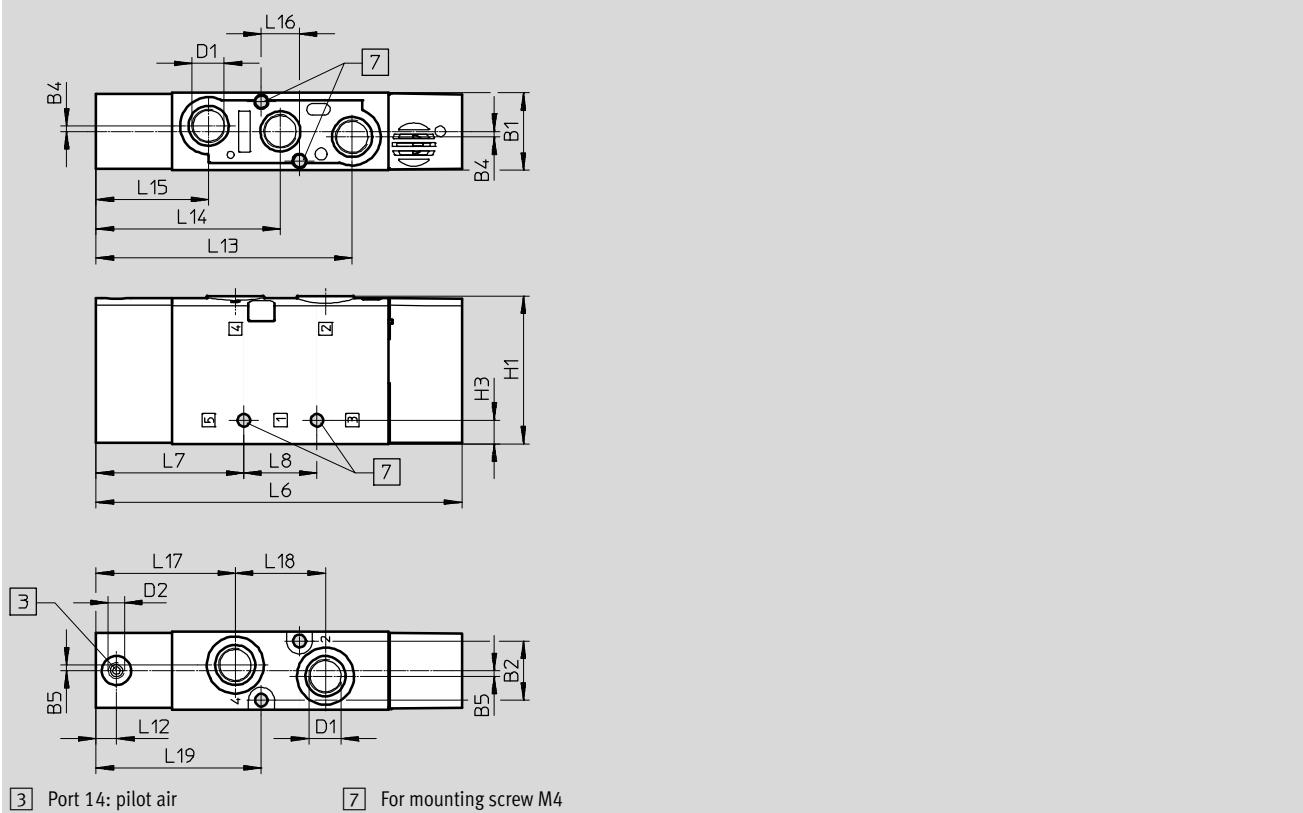
Technical data

FESTO

Dimensions

5/2-way valve, monostable

Download CAD data → www.festo.com



Type	B1	B2	B4	B5	D1	D2	H1	H3
VUWS-LT25-M52-M-N14	26.5	20.2	1.9	1.9	1/4 NPT	UNF 10-32	50.5	8

Type	L6	L7	L8	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-LT25-M52-M-N14	125	50.5	25	7	87.5	63	38.5	13	47.6	30.8	56.5

Pneumatic valves VUWS-LT, size 25, NPT

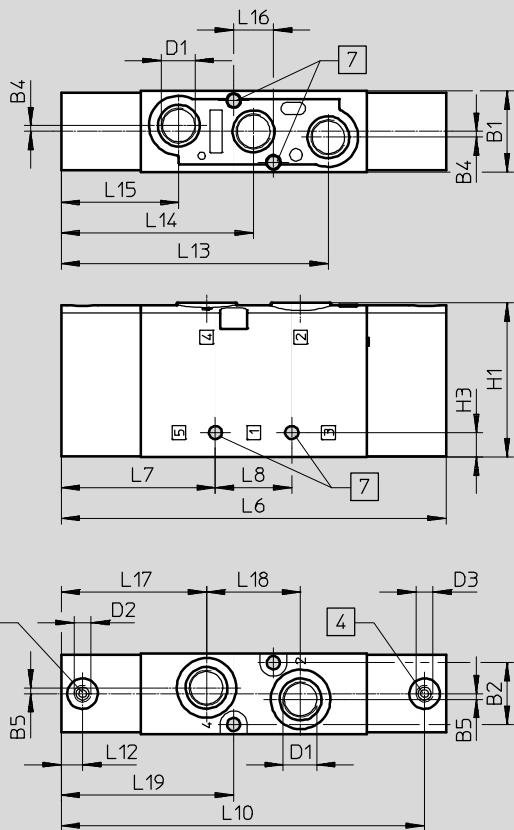
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Technical data

Dimensions

5/2-way valve, bistable

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

Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-LT25-B52-N14	26.5	20.2	1.9	1.9	1/4 NPT	10-32 UNF-2B	10-32 UNF-2B	50.5	8
VUWS-LT25-T32...-M-N14									

Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-LT25-B52-N14	126	50.5	25	119	7	87.5	63	38.5	13	47.6	30.8	56.5
VUWS-LT25-T32...-M-N14												

Pneumatic valves VUWS-LT, size 25, NPT

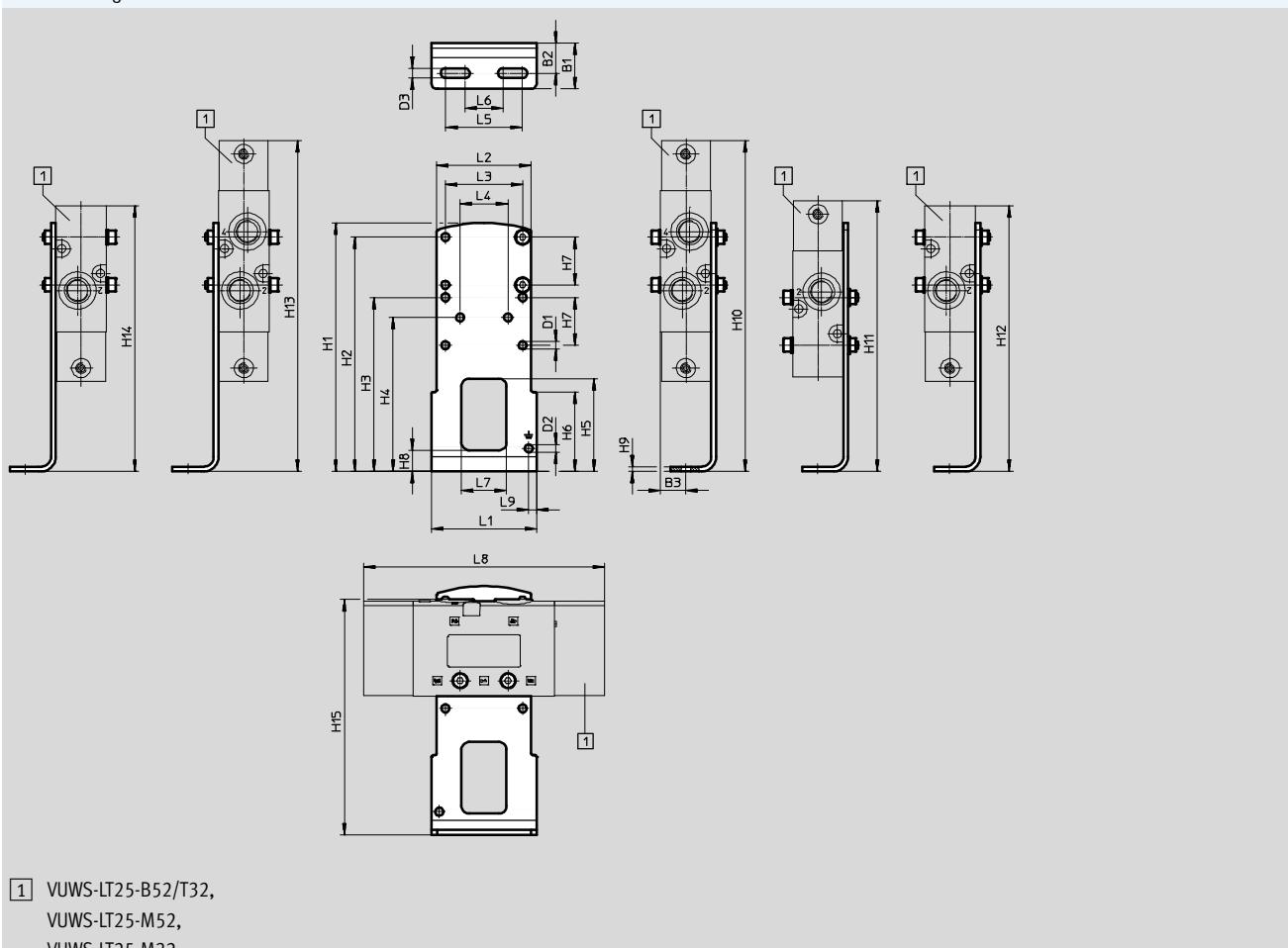
Technical data

FESTO

Dimensions

Foot mounting

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

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

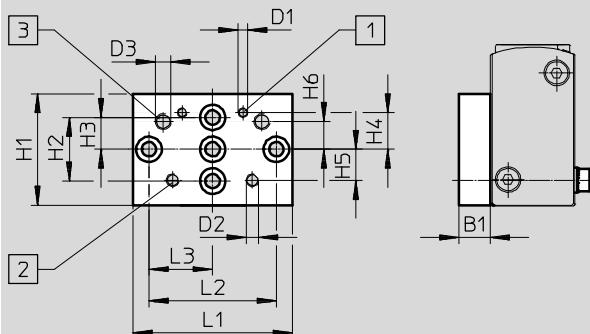
Pneumatic valves VUWS-LT, size 25, NPT

FESTO

Technical data

Dimensions

Wall mounting



[1] Mounting hole for size 20

[2] Mounting hole for size 25

[3] Mounting hole for size 30

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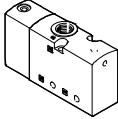
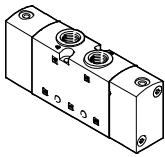
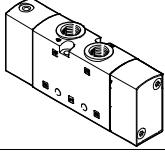
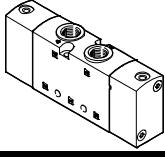
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUWS-LT25-B52/T32	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUWS-LT25-M52										
	VUWS-LT25-M32										

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							62		
	VUWS-LT25-M32							18.5		-

Pneumatic valves VUWS-LT, size 25, NPT

Accessories

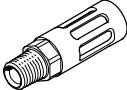
FESTO

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, direction of flow not reversible	8035217	VUWS-LT25-M32C-M-N14
	Normally open, monostable	M32U-M	Reset via mechanical spring, internal pilot air supply, direction of flow not reversible	8035219	VUWS-LT25-M32U-M-N14
2x 3/2-way valve					
	Normally closed, monostable	T32C	Reset via mechanical spring, internal pilot air supply, direction of flow not reversible	8035225	VUWS-LT25-T32C-M-N14
	Normally open, monostable	T32U	Reset via mechanical spring, internal pilot air supply, direction of flow not reversible	8035227	VUWS-LT25-T32U-M-N14
	Normally 1x open, 1x closed, monostable	T32H	Reset via mechanical spring, internal pilot air supply, direction of flow not reversible	8035229	VUWS-LT25-T32H-M-N14
5/2-way valve					
	Monostable	M52-M	Reset via mechanical spring, direction of flow not reversible	8035221	VUWS-LT25-M52-M-N14
	Bistable	B52	Direction of flow not reversible	8035223	VUWS-LT25-B52-N14

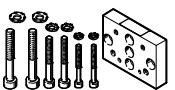
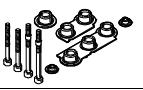
Pneumatic valves VUWS-LT, size 25, NPT

FESTO

Accessories

Ordering data		Description	Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread 10-32 UNF for tubing O.D. Connecting thread 1/4 NPT for tubing O.D.	5/32 "	572312	QBM-10-32-UNF-5/32-I-U	10
		1/4 "	572320	QB-1/4-1/4-I-U	10
		5/16 "	572321	QB-1/4-5/16-I-U	10
		3/8 "	572322	QB-1/4-3/8-I-U	10
Angled push-in fitting with external hex					
	Connecting thread 1/4 NPT for tubing O.D.	1/4 "	533295	QBL-1/4-1/4-U	10
		5/16 "	533296	QBL-1/4-5/16-U	10
		3/8 "	533297	QBL-1/4-3/8-U	5
Angled push-in fitting, long, with external hex					
	Connecting thread 1/4 NPT for tubing O.D.	1/4 "	564674	QBLL-1/4-1/4-U	10
		5/16 "	564675	QBLL-1/4-5/16-U	10
		3/8 "	564676	QBLL-1/4-3/8-U	5
Silencers					
	With connecting thread NPT, metal design	1/4 NPT	12639	U-1/4-B-NPT	1
	With connecting thread NPT, sintered design, long	1/4 NPT	1206990	AMTE-M-LH-N14	20

1) Packaging unit

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	
Set 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, NPT

Technical data

FESTO

-  - 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	Disc seat						
Pneumatic spring supply	Internal						
Type of control	Direct						
Manual override (MO)	None						
Flow direction	Non-reversible						
Overlap	Underlap						
Sealing principle	Soft						
Type of mounting	Optionally via through-holes or on manifold rail						
Standard nominal flow rate qN [l/min]	1600	1600	1600	1600	1600	1800	1800
Through-holes (nominal width) [mm]	7.9	7.9	7.9	7.8	7.8	8.1	8.7
Product weight [g]	345	352	515	533	524	473	521
Actuation type	Pneumatic						
Mounting position	Optional						
Exhaust air function	With flow control option						
Pilot air supply	Internal						
Connection for venting hole	Not ducted						
Pneumatic connection 1, 2, 3	3/8 NPT	3/8 NPT	3/8 NPT	3/8 NPT	3/8 NPT	3/8 NPT	3/8 NPT
connection 4, 5	-	-	3/8 NPT	3/8 NPT	3/8 NPT	3/8 NPT	3/8 NPT
Pneumatic spring connection 12/14, 10	1/8 NPT						

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

Pneumatic valves VUWS-LT, size 30, NPT

Technical data

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 about the operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)			
Operating pressure [bar]	1.0 ... 10	1.0 ... 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			
Approval certificate	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 may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Information on materials

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

Pneumatic valves VUWS-LT, size 30, NPT

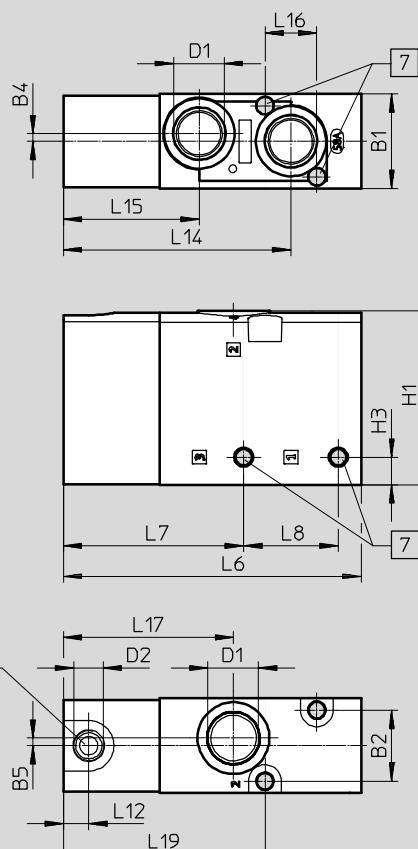
Technical data

FESTO

Dimensions

3/2-way valve, normally closed/open

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

Type	B1	B2	B4	B5	D1	D2	H1	H3
VUWS-LT30-M32C-...-N38	31	23.3	2.5	2.5	3/8 NPT	1/8 NPT	57	9
VUWS-LT30-M32U-...-N38								

Type	L6	L7	L8	L12	L14	L15	L16	L17	L19
VUWS-LT30-M32C-...-N38	97.5	59	31	8.3	74.5	44.5	17	55.7	66
VUWS-LT30-M32U-...-N38									

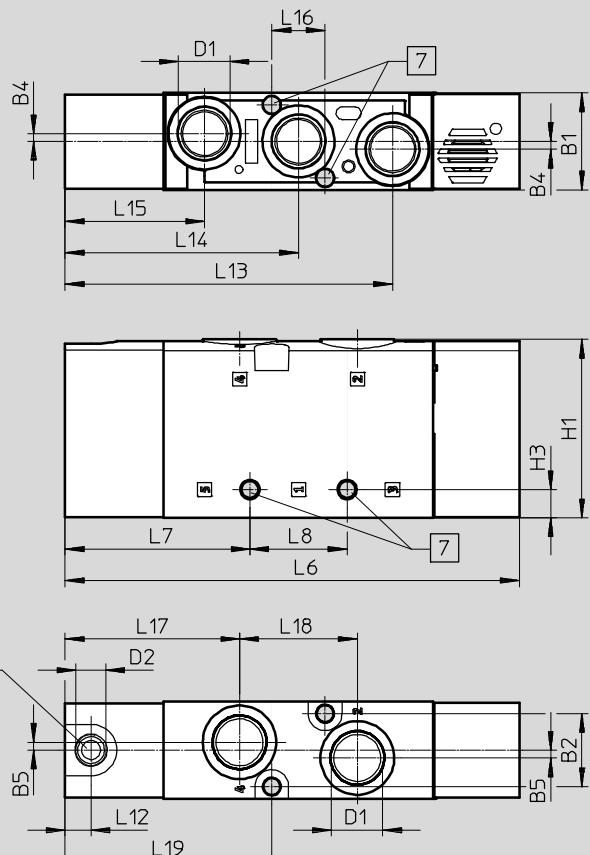
Pneumatic valves VUWS-LT, size 30, NPT

Technical data

Dimensions

5/2-way valve, monostable

Download CAD data → www.festo.com



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

[7] For retaining screw M5

Type	B1	B2	B4	B5	D1	D2	H1	H3
VUWS-LT30-M52-...-N38	31	23.3	2.5	2.5	3/8 NPT	1/8 NPT	57	9

Type	L6	L7	L8	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-LT30-M52-...-N38	145	59	31	8.3	104.5	74.5	44.5	17	55.7	37.6	66

Pneumatic valves VUWS-LT, size 30, NPT

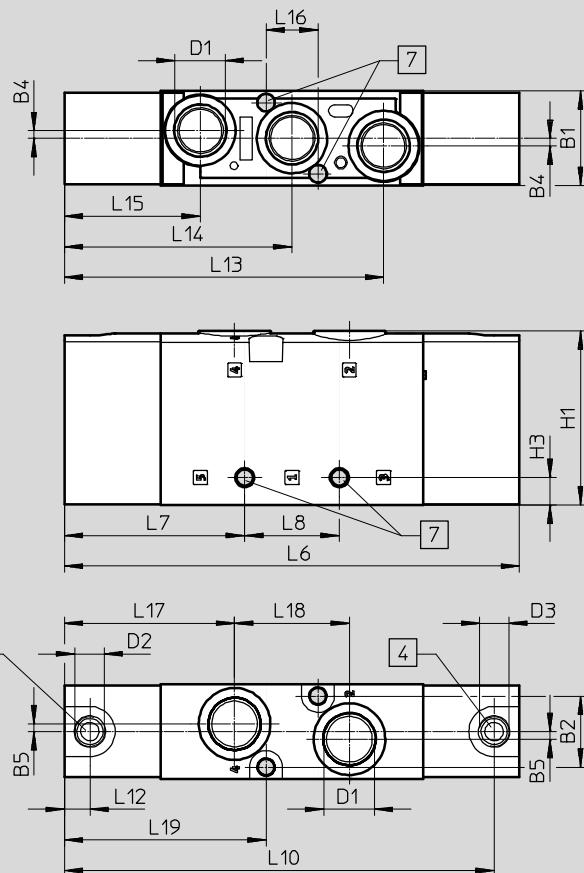
Technical data

FESTO

Dimensions

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

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

Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-LT30-T32...-M-N38	31	23.3	2.5	2.5	3/8 NPT	1/8 NPT	1/8 NPT	57	9
VUWS-LT30-B52-N38									

Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-LT30-T32...-M-N38	149	59	31	140.7	8.3	104.5	74.5	44.5	17	55.7	37.6	66
VUWS-LT30-B52-N38												

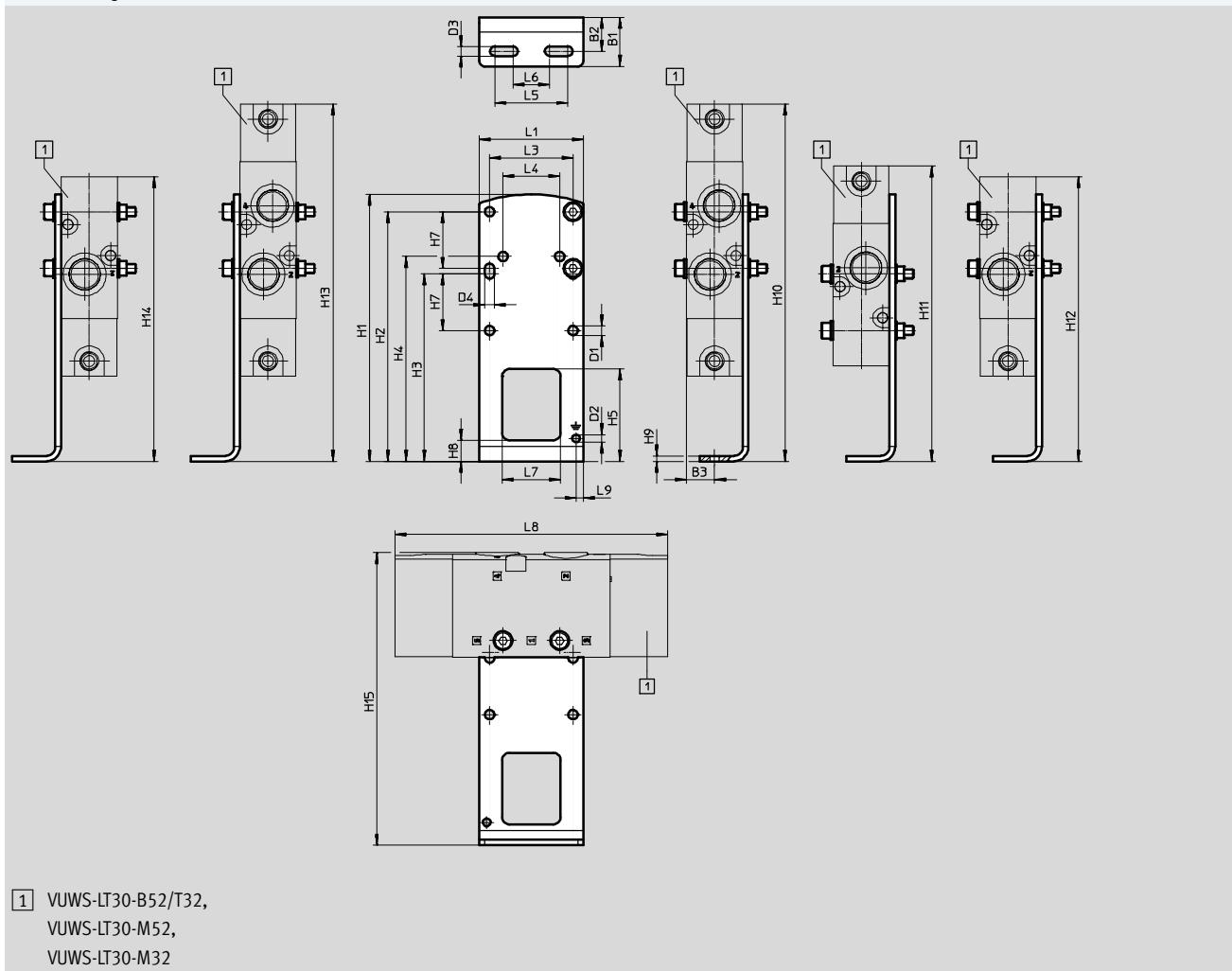
Pneumatic valves VUWS-LT, size 30, NPT

Technical data

Dimensions

Foot mounting

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

Pneumatic valves VUWS-LT, size 30, NPT

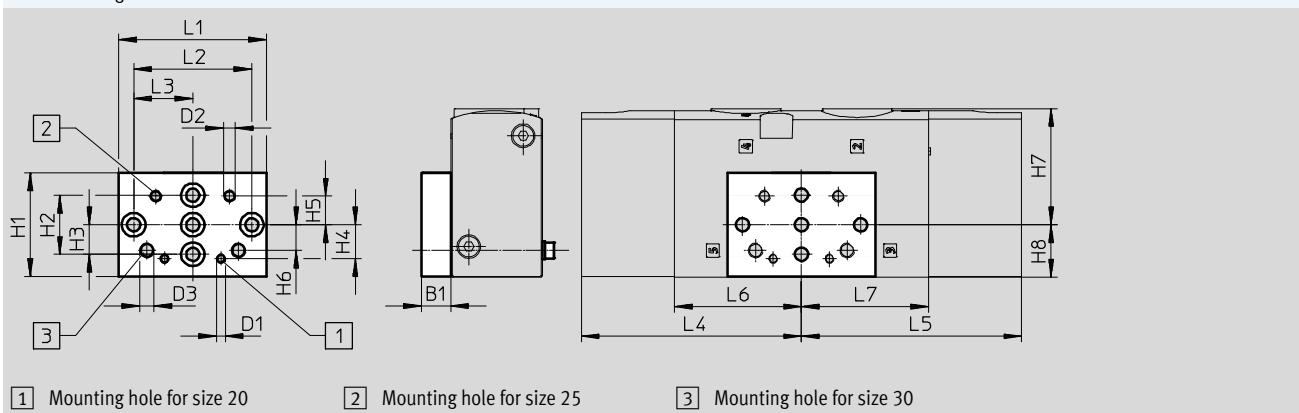
Technical data

FESTO

Dimensions

Wall mounting

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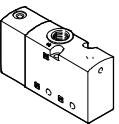
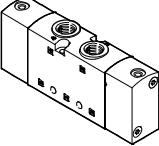
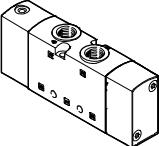
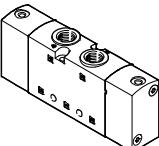
Type	B1	D1	D2	D3	H1	H2	H3	H4	H5	H6	
VAME-B10-20-W	VUWS-L30-B52/T32	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUWS-L30-M52										
	VUWS-L30-M32										

Type	H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUWS-L30-B52/T32	39.3	17.7	50	40	20	74.5	43	43
	VUWS-L30-M52								
	VUWS-L30-M32								

Pneumatic valves VUWS-LT, size 30, NPT

Accessories

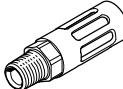
Ordering data – Pneumatic valves

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	8036722	VUWS-LT30-M32C-M-N38
Normally open, monostable			
	M32U-M Reset via mechanical spring, internal pilot air supply, flow direction not reversible	8036724	VUWS-LT30-M32U-M-N38
2x 3/2-way valve			
	Normally closed, monostable T32C Reset via mechanical spring, internal pilot air supply, flow direction not reversible	8036730	VUWS-LT30-T32C-M-N38
Normally open, monostable			
	T32U Reset via mechanical spring, internal pilot air supply, flow direction not reversible	8036732	VUWS-LT30-T32U-M-N38
1x normally open, 1x normally closed, monostable			
	T32H Reset via mechanical spring, internal pilot air supply, flow direction not reversible	8036734	VUWS-LT30-T32H-M-N38
5/2-way valve			
	Monostable M52-M Reset via mechanical spring, internal pilot air supply, flow direction not reversible	8036726	VUWS-LT30-M52-M-N38
	Bistable B52 Internal pilot air supply, flow direction not reversible	8036728	VUWS-LT30-B52-N38

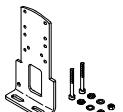
Pneumatic valves VUWS-LT, size 30, NPT

Accessories

FESTO

Ordering data		Description	Part No.	Type	PU ¹⁾
Push-in fitting with internal hexagon					
	Connecting thread 1/8 NPT for tubing O.D.	1/4 "	572318	QB-1/8-1/4-I-U	10
	Connecting thread 3/8 NPT for tubing O.D.	5/16 "	572323	QB-3/8-5/16-I-U	10
		3/8 "	572324	QB-3/8-3/8-I-U	10
		1/2 "	572325	QB-3/8-1/2-I-U	10
Angled push-in fitting with external hexagon					
	Connecting thread 3/8 NPT for tubing O.D.	5/16 "	533299	QBL-3/8-5/16-U	5
		3/8 "	533300	QBL-3/8-3/8-U	5
		1/2 "	533301	QBL-3/8-1/2-U	5
Angled push-in fitting, long, with external hexagon					
	Connecting thread 3/8 NPT for tubing O.D.	5/16 "	564679	QBL-3/8-5/16-U	5
		3/8 "	564680	QBL-3/8-3/8-U	5
		1/2 "	564681	QBL-3/8-1/2-U	5
Silencers					
	With connecting thread NPT, metal design	3/8 NPT	12740	U-3/8-B-NPT	1
	With connecting thread NPT, sintered design, long	3/8 NPT	1206991	AMTE-M-LH-N38	10

1) Packaging unit

Ordering data		Weight [g]	Part No.	Type
Description				
Foot mounting				
	Set for mounting valves, comprising: • Mounting bracket and • Screw set for mounting	-	8026337	VAME-B10-30-A
Wall mounting				
	Set for mounting valves for size 20, 25, 30, comprising: • Wall mounting and • Screw set for mounting	53	576413	VAME-B10-20-W
Assortment of spare parts				
	Set comprising: • Seals and • Screws	-	8035637	VAME-B10-30-MK
Inscription label				
	40 pieces in frame	-	565306	ASLR-C-E4

Pneumatic valves VUWS-L, size 20, NPT

FESTO

Technical data

-  - 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						
Type of pilot control	Direct						
Manual override (MO)	None						
Direction of flow	Reversible with restrictions						
Lap	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 [mm] (nominal width)	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 air function	With flow control						
Venting hole	Not ducted						
Pneumatic connection 1, 2, 3	1/8 NPT	1/8 NPT	1/8 NPT	1/8 NPT	1/8 NPT	1/8 NPT	
4, 5	-	-	1/8 NPT	1/8 NPT	1/8 NPT	1/8 NPT	
Pneumatic spring connection 12/14, 10	10-32 UNF-2B						

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

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

Technical data – 3/2-way valves

Order code for valves	M32C		M32U			
Normal position	Closed		Open			
Stable positions	Monostable		Monostable			
Reset method	Pneumatic spring	Mechanical spring (supported internally by pneumatic spring)	Pneumatic spring	Mechanical spring (supported internally by pneumatic spring)		
Switching times [ms]	On	7	10	7	10	
	Off	15	28	15	28	

Pneumatic valves VUWS-L, size 20, NPT

Technical data

FESTO

Technical data – 5/2-way valves

Order code for valves	M52	B52
Stable positions	Monostable	Bistable
Reset method	Pneumatic spring	Mechanical spring
Switching times [ms]	On	13
	Off	26
	Change-over	–
		7
		39
		–
		6

Technical data – 5/3-way valves

Order code for valves	P53C	P53U	P53E
Stable positions	Monostable		
Reset method	Mechanical spring		
Switching times [ms]	On	10	10
	Off	44	46
	Change-over	26	21
		10	10
		43	
		21	21

Safety characteristics

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

Operating and environmental conditions

Valve function	M32 ... A M32 ... M	M52-A	M52-M	B52	P53
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]				
Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4]				
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)				
Operating pressure [bar]	2.5 ... 10	2.5 ... 10	-0.9 ... +10	-0.9 ... +10	-0.9 ... +10
Pilot pressure [bar]	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

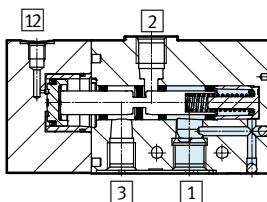
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Information on materials

Housing	Die-cast aluminium (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

Pneumatic valves VUWS-L, size 20, NPT

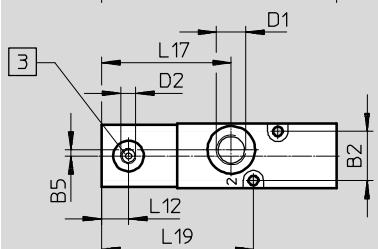
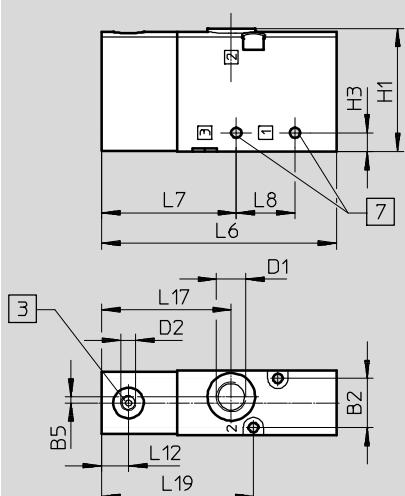
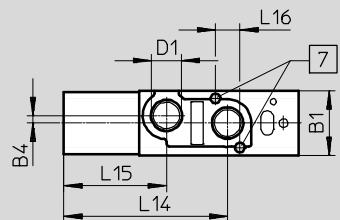
FESTO

Technical data

Dimensions

3/2-way valve, normally closed/open

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- [3] Port 10: for pilot air
(...-M32U-...)
Port 12: for pilot air
(...-M32C-...)
- [7] For mounting screw M3

Type	B1	B2	B4	B5	D1	D2	H1	H3
VUWS-L20-M32C-...-N18	21.1	16.1	2.5	2	1/8 NPT	10-32 UNF-2B	40.4	6.2
VUWS-L20-M32U-...-N18								

Type	L6	L7	L8	L10	L12	L14	L15	L16	L17	L19
VUWS-L20-M32C-...-N18	77	44.1	19.2	-	8.8	53.7	33.7	8	42.5	49.7
VUWS-L20-M32U-...-N18										

Pneumatic valves VUWS-L, size 20, NPT

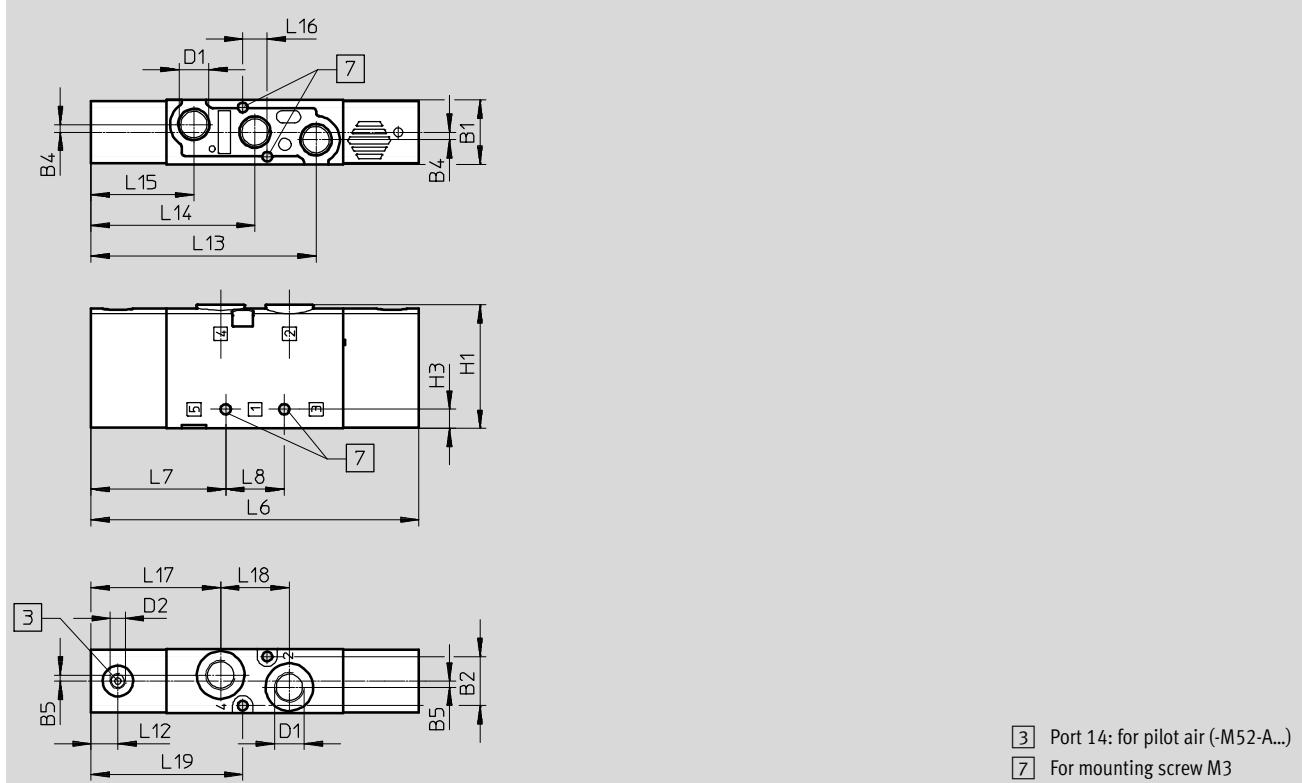
Technical data

FESTO

Dimensions

5/2-way valve, monostable

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Type	B1	B2	B4	B5	D1	D2	H1	H3
VUWS-L20-M52-...-N18	21.1	16.1	2.5	2	1/8 NPT	10-32 UNF-2B	40.4	6.2

Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-L20-M52-...-N18	107.4	44.1	19.2	98.6	8.8	73.7	53.7	33.7	8	42.5	22.5	49.7

Pneumatic valves VUWS-L, size 20, NPT

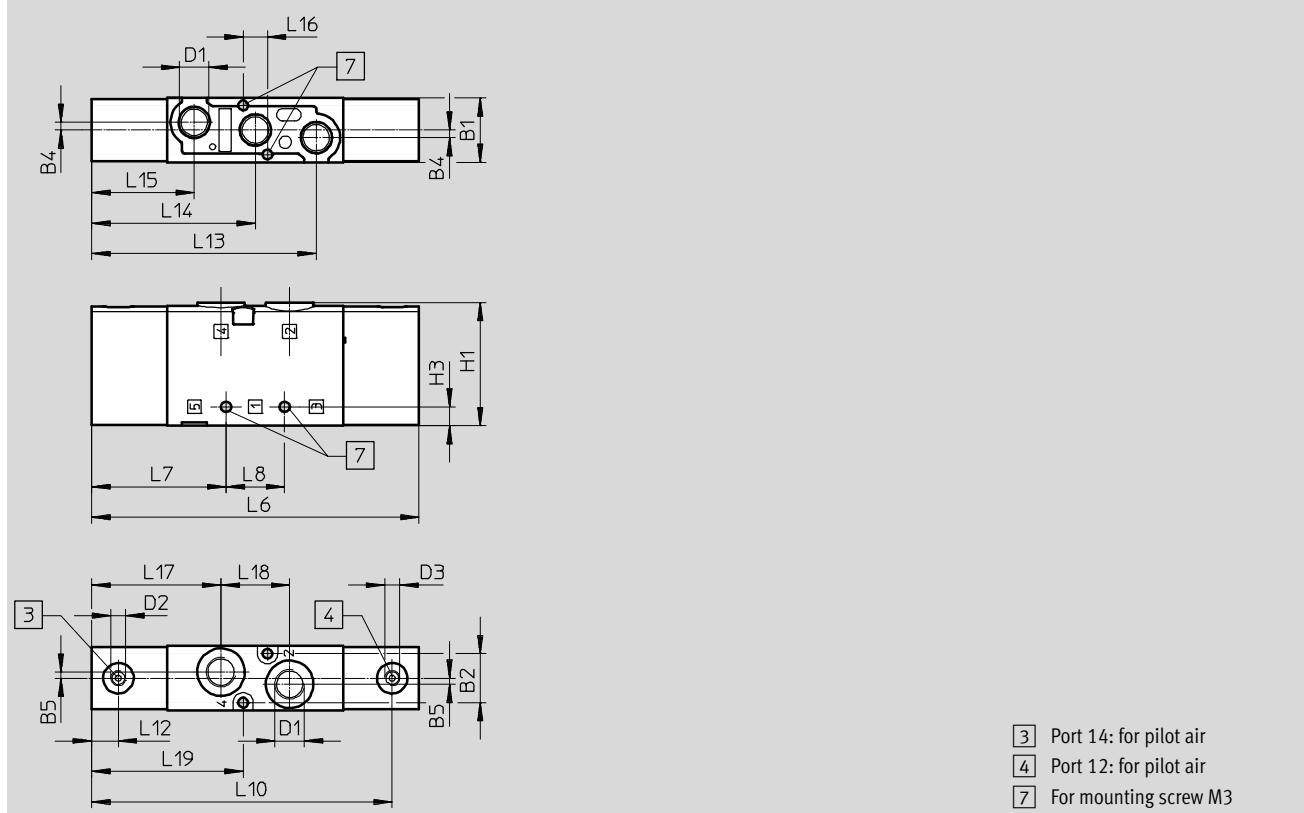
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Technical data

Dimensions

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

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Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L20-P53...-M-N18	21.1	16.1	2.5	2	1/8 NPT	10-32 UNF-2B	10-32 UNF-2B	40.4	6.2
VUWS-L20-B52-N18									

Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-L20-P53...-M-N18	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-N18												

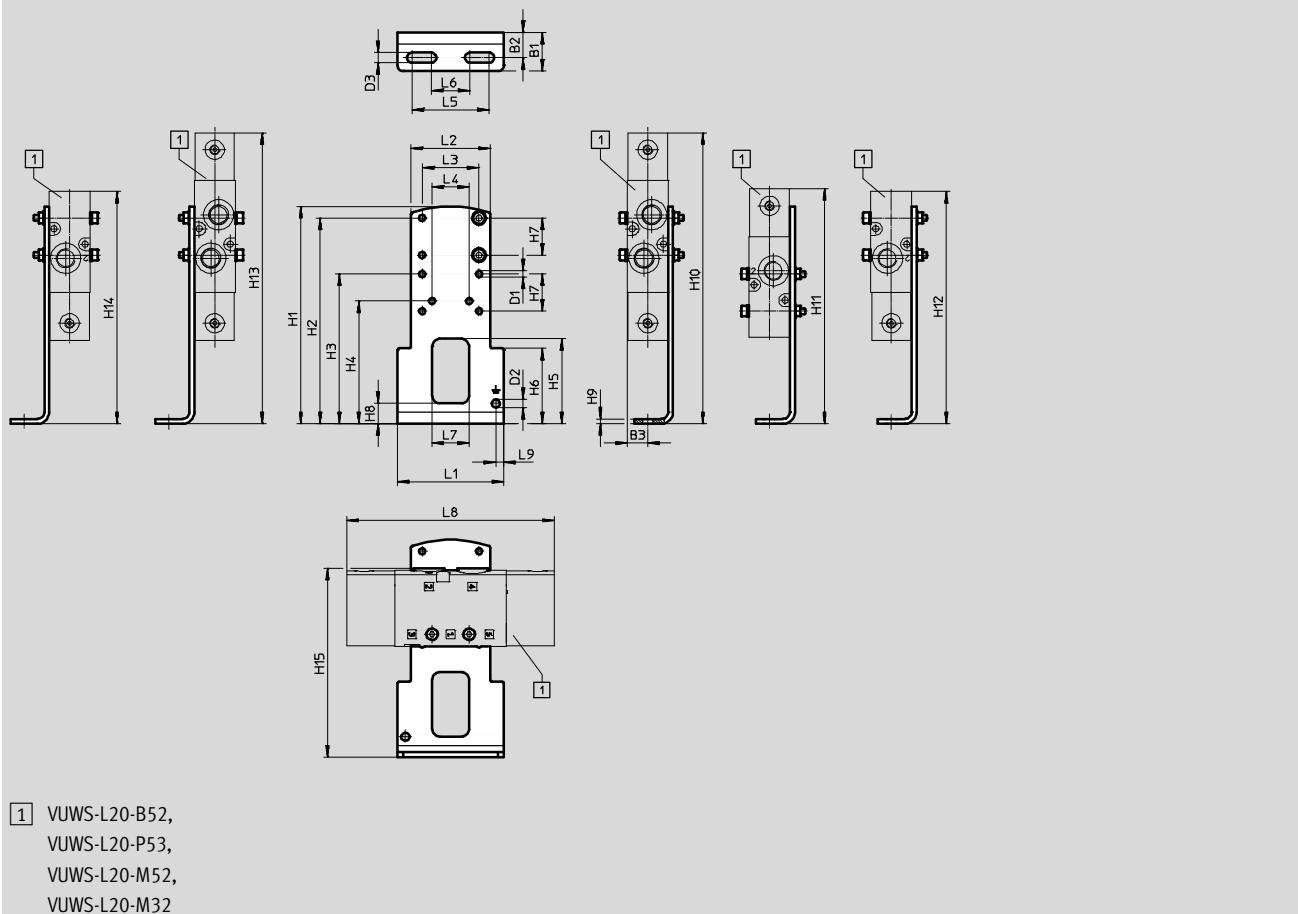
Pneumatic valves VUWS-L, size 20, NPT

Technical data

FESTO

Dimensions

Foot mounting



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									
	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									

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									
	VUWS-L20-M32									

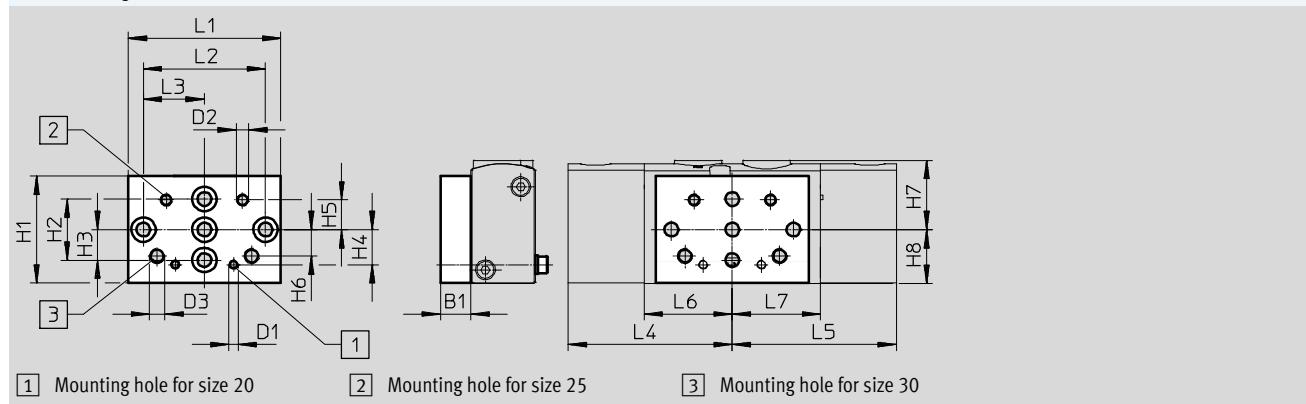
Pneumatic valves VUWS-L, size 20, NPT

FESTO

Technical data

Dimensions

Wall mounting



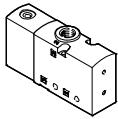
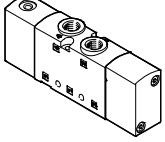
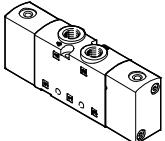
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUWS-L20-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUWS-L20-M52										
	VUWS-L20-M32										

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

Pneumatic valves VUWS-L, size 20, NPT

Ordering data

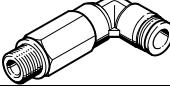
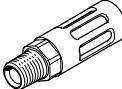
FESTO

Ordering data – Pneumatic valves		Code	Valve function	Part No.	Type
3/2-way valve					
	Normally closed, monostable	M32C-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575696	VUWS-L20-M32C-A-N18
	M32C-M	Mechanical spring return, supported by internal pneumatic spring, direction of flow not reversible	575697	VUWS-L20-M32C-M-N18	
	Normally open, monostable	M32U-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575700	VUWS-L20-M32U-A-N18
	M32U-M	Mechanical spring return, supported by internal pneumatic spring, direction of flow not reversible	575701	VUWS-L20-M32U-M-N18	
5/2-way valve					
	Monostable	M52-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575703	VUWS-L20-M52-A-N18
	M52-M	Mechanical spring return, direction of flow reversible	575705	VUWS-L20-M52-M-N18	
	Bistable	B52	Direction of flow reversible	575707	VUWS-L20-B52-N18
5/3-way valve					
	P53C	Closed, mechanical spring return, direction of flow reversible	575709	VUWS-L20-P53C-M-N18	
	P53E	Exhausted, mechanical spring return, direction of flow reversible	575713	VUWS-L20-P53E-M-N18	
	P53U	Pressurised, mechanical spring return, direction of flow reversible	575711	VUWS-L20-P53U-M-N18	

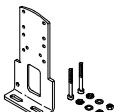
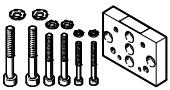
Pneumatic valves VUWS-L, size 20, NPT

FESTO

Accessories

Ordering data		Description	Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread 10-32 UNF for tubing O.D. Connecting thread 1/8 NPT for tubing O.D.	5/32 "	572312	QBM-10-32-UNF-5/32-I-U	10
		5/32 "	572317	QB-1/8-5/32-I-U	10
		1/4 "	572318	QB-1/8-1/4-I-U	10
		5/16 "	572319	QB-1/8-5/16-I-U	10
Angled push-in fitting with external hex					
	Connecting thread 1/8 NPT for tubing O.D.	5/32 "	533290	QBL-1/8-5/32-U	10
		1/4 "	533292	QBL-1/8-1/4-U	10
		5/16 "	533293	QBL-1/8-5/16-U	10
Angled push-in fitting, long, with external hex					
	Connecting thread 1/8 NPT for tubing O.D.	5/32 "	564668	QBLL-1/8-5/32-U	10
		1/4 "	564670	QBLL-1/8-1/4-U	10
		5/16 "	564671	QBLL-1/8-5/16-U	10
Silencers					
	With connecting thread NPT, metal design	1/8 NPT	12638	U-1/8-B-NPT	1
	With connecting thread NPT, sintered design, long	1/8 NPT	1206989	AMTE-M-LH-N18	20

1) Packaging unit

Ordering data		Weight [g]	Part No.	Type
Foot mounting				
	Set for mounting valves, comprising: • 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: • Wall mounting and • Screw set for mounting	53	576413	VAME-B10-20-W
Set of spare parts				
	Set comprising: • Seals and • Screws	10	8026203	VAME-B10-20-MK
Inscription label				
	40 pieces in frame	-	565306	ASLR-C-E4

Pneumatic valves VUWS-L, size 25, NPT

Technical data

FESTO

-  - 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						
Type of pilot control	Direct						
Manual override (MO)	None						
Direction of flow	Reversible with restrictions (not reversible: identified by A in type code)						
Lap	Overlap						
Sealing principle	Soft						
Type of mounting	Optionally via through-holes ¹⁾ or on manifold rail						
Standard nominal flow rate qnN [l/min]	1000	1000	1300	1300	1200	1000	1000
Through-holes [mm] (nominal width)	6.3	6.3	6.9	6.9	6.3	6.3	6.3
Product weight [g]	268	268	330/360 ²⁾	363	364	364	364
Type of actuation	Pneumatic						
Mounting position	Any						
Exhaust air function	With flow control						
Venting hole	Not ducted						
Pneumatic connection 1, 2, 3	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT
4, 5	-	-	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT
Pneumatic spring connection 12/14, 10	10-32 UNF-2B						

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

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

Technical data – 3/2-way valves				
Order code for valves	M32C			M32U
Normal position	Closed			Open
Stable positions	Monostable			Monostable
Reset method	Pneumatic spring	Mechanical spring	Pneumatic spring	Mechanical spring
Switching times [ms]	On	10	10	10
	Off	25	43	43

Pneumatic valves VUWS-L, size 25, NPT

FESTO

Technical data

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

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

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

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

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

Pneumatic valves VUWS-L, size 25, NPT

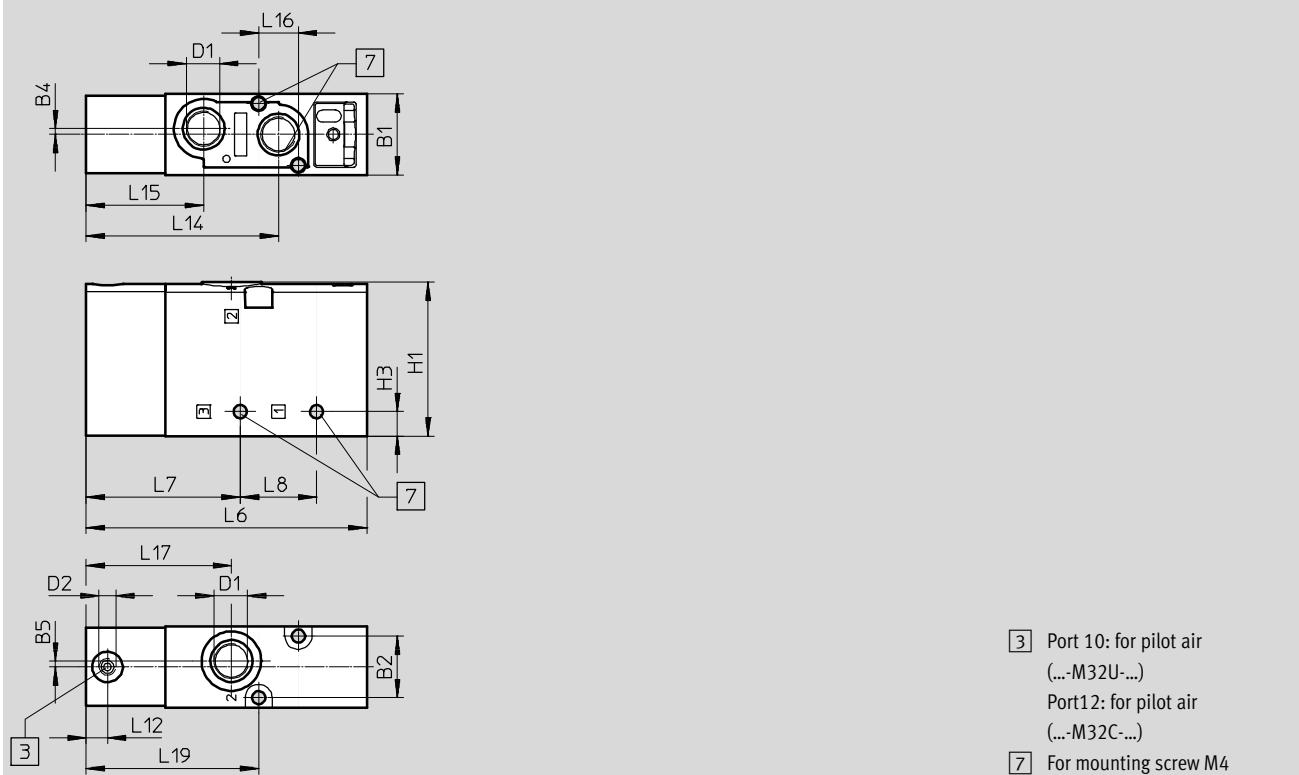
Technical data

FESTO

Dimensions

3/2-way valve, normally closed/open

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Type	B1	B2	B3	B4	B5	D1	D2	H1	H3
VUWS-L25-M32C-...-N14	26.5	20.2	1.9	1.9	1.9	1/4 NPT	10-32 UNF-2B	50.5	8
VUWS-L25-M32U-...-N14									

Type	L6	L7	L8	L12	L14	L15	L16	L17	L19
VUWS-L25-M32C-...-N14	92	50.5	25	7	63	38.5	13	47.6	56.5
VUWS-L25-M32U-...-N14									

Pneumatic valves VUWS-L, size 25, NPT

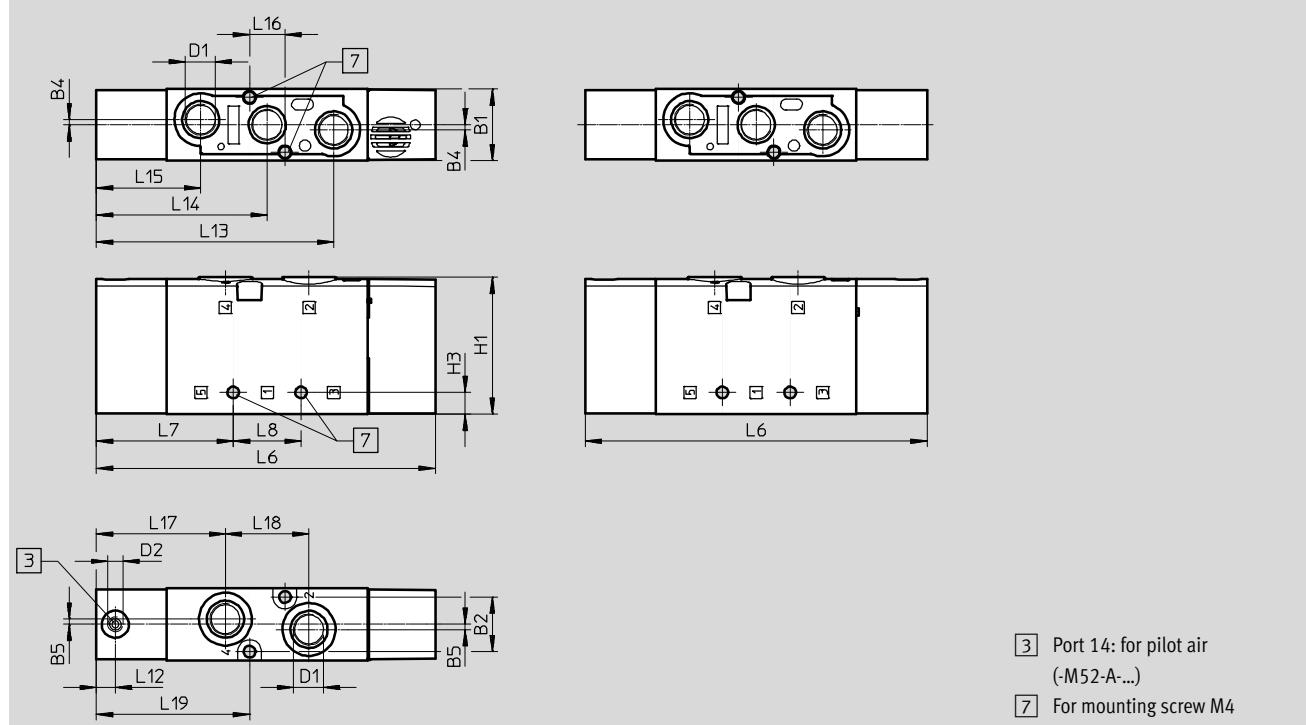
FESTO

Technical data

Dimensions

5/2-way valve, monostable

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Type	B1	B2	B4	B5	D1	D2	H1	H3
VUWS-L25-M52-...-N14	26.5	20.2	1.9	1.9	1/4 NPT	10-32 UNF-2B	50.5	8

Type	L6	L7	L8	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-L25-M52-...-N14	125	50.5	25	7	87.5	63	38.5	13	47.6	30.8	56.5

Pneumatic valves VUWS-L, size 25, NPT

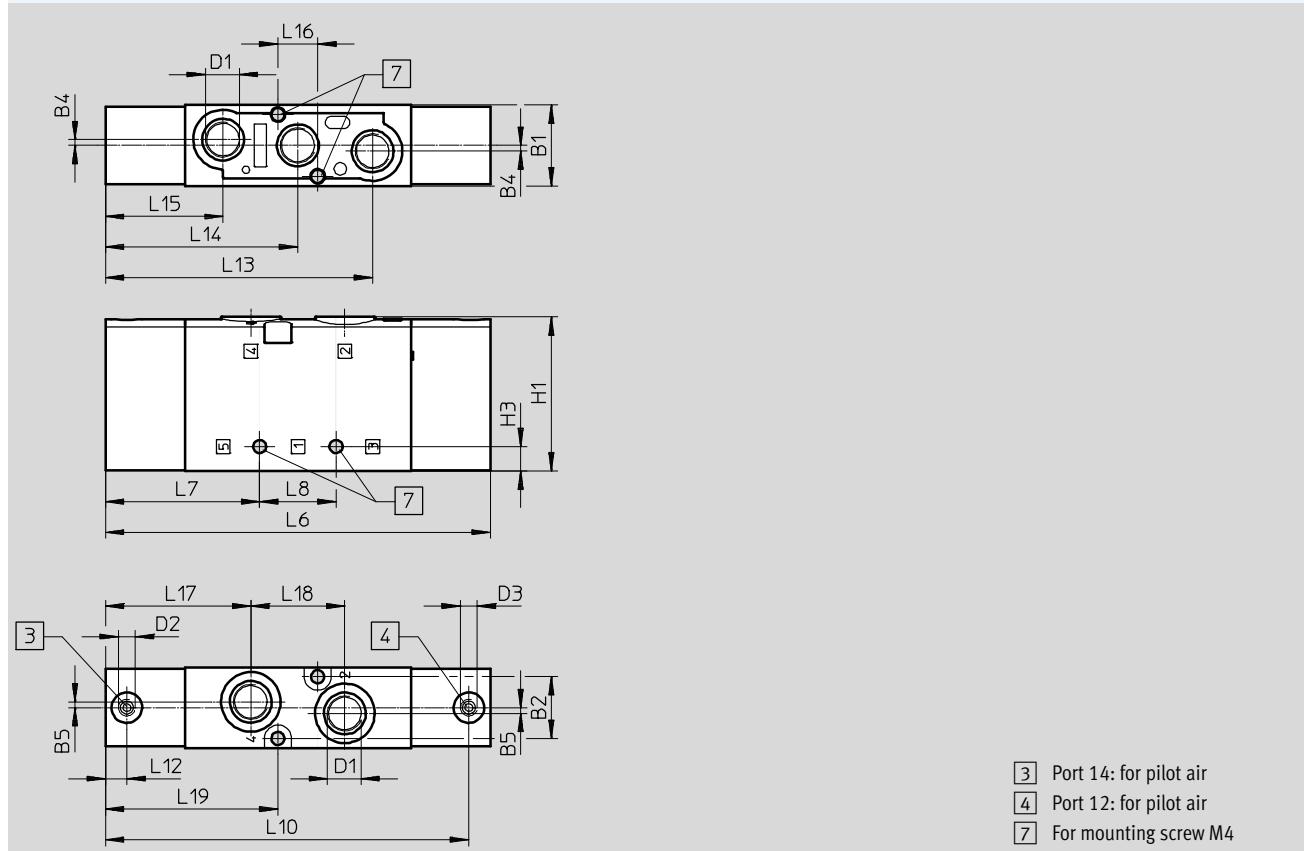
Technical data

FESTO

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-N14	26.5	20.2	1.9	1.9	1/4 NPT	10-32 UNF-2B	10-32 UNF-2B	50.5	8
VUWS-L25-B52-N14									

Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-L25-P53...-M-N14	126	50.5	25	119	7	87.5	63	38.5	13	47.6	30.8	56.5
VUWS-L25-B52-N14												

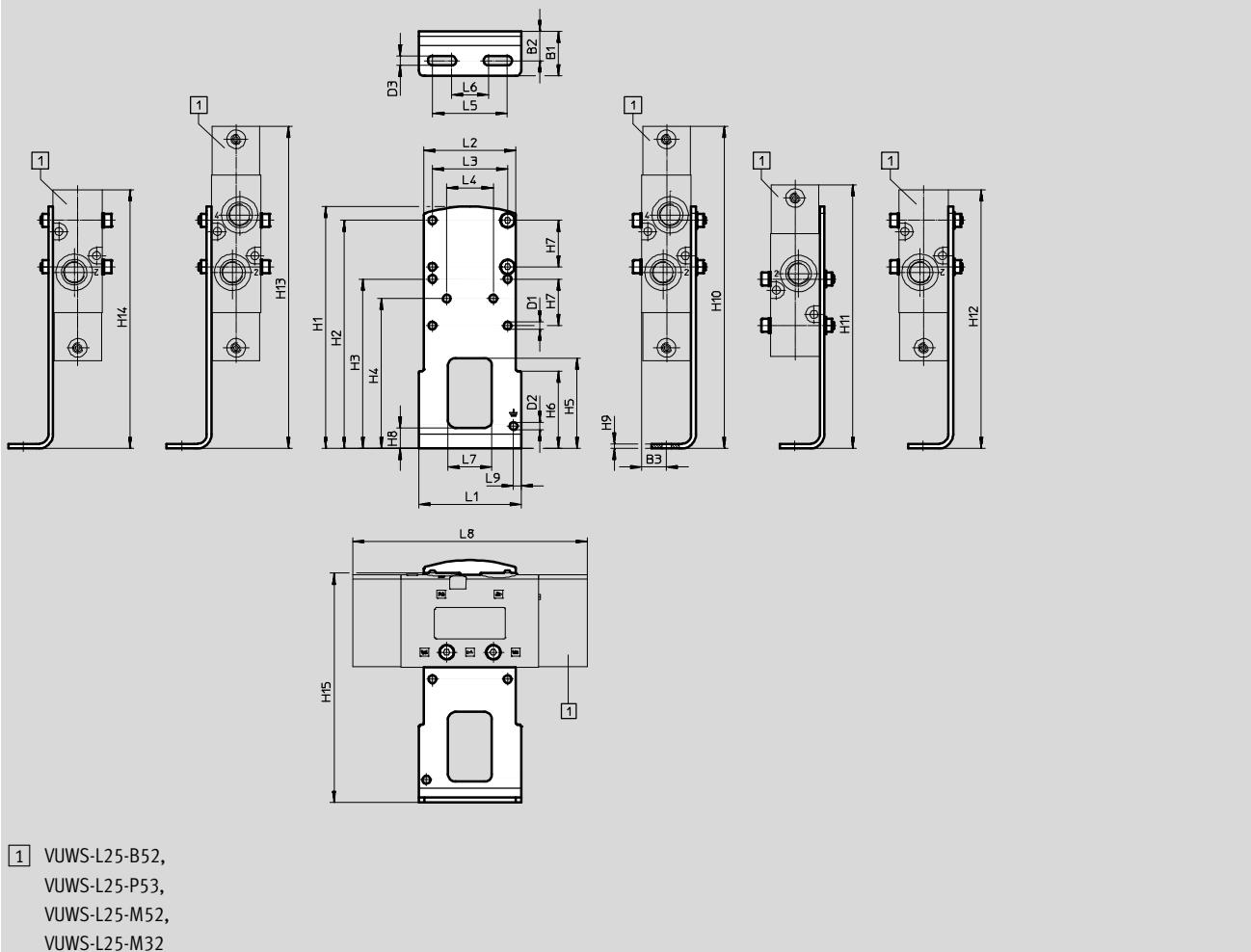
Pneumatic valves VUWS-L, size 25, NPT

FESTO

Technical data

Dimensions

Foot mounting



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

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

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

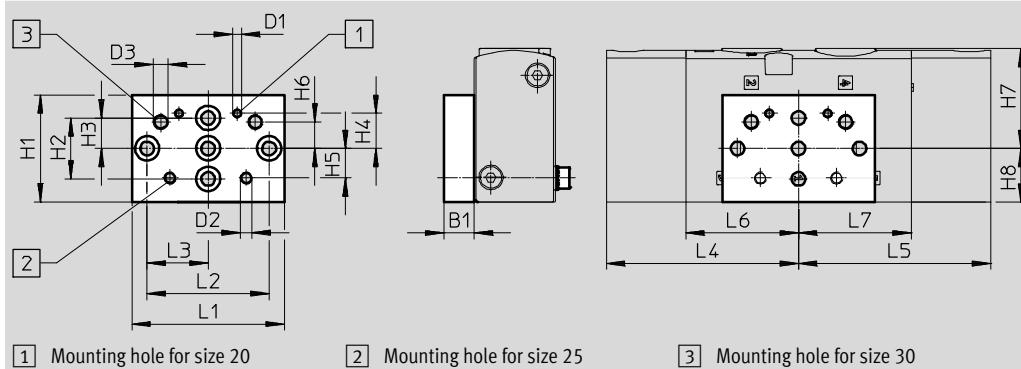
Pneumatic valves VUWS-L, size 25, NPT

Technical data

FESTO

Dimensions

Wall mounting



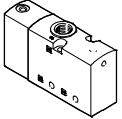
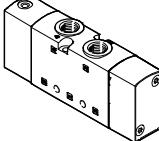
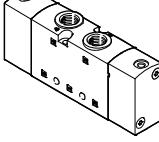
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUWS-L25-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUWS-L25-M52-E										
	VUWS-L25-M52										
	VUWS-L25-M32										

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, NPT

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Ordering data

Ordering data – Pneumatic valves		Code	Valve function	Part No.	Type
3/2-way valve					
	Normally closed, monostable	M32C-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575546	VUWS-L25-M32C-A-N14
	M32C-M	Mechanical spring return, internal pneumatic spring, direction of flow reversible	575547	VUWS-L25-M32C-M-N14	
	Normally open, monostable	M32U-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575550	VUWS-L25-M32U-A-N14
		M32U-M	Mechanical spring return, internal pneumatic spring, direction of flow reversible	575551	VUWS-L25-M32U-M-N14
5/2-way valve					
	Monostable	M52-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575553	VUWS-L25-M52-A-N14
	M52-M	Mechanical spring return, direction of flow reversible	575555	VUWS-L25-M52-M-N14	
	Bistable	B52	Direction of flow reversible	575557	VUWS-L25-B52-N14
5/3-way valve					
	P53C	Closed, mechanical spring return, direction of flow reversible	575559	VUWS-L25-P53C-M-N14	
	P53E	Exhausted, mechanical spring return, direction of flow reversible	575563	VUWS-L25-P53E-M-N14	
	P53U	Pressurised, mechanical spring return, direction of flow reversible	575561	VUWS-L25-P53U-M-N14	

Pneumatic valves VUWS-L, size 25, NPT

Accessories

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Ordering data		Description	Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread 10-32 UNF for tubing O.D.	5/32 "	572312	QBM-10-32-UNF-5/32-I-U	10
	Connecting thread 1/4 NPT for tubing O.D.	1/4 "	572320	QB-1/4-1/4-I-U	10
		5/16 "	572321	QB-1/4-5/16-I-U	10
		3/8 "	572322	QB-1/4-3/8-I-U	10
Angled push-in fitting with external hex					
	Connecting thread 1/4 NPT for tubing O.D.	1/4 "	533295	QBL-1/4-1/4-U	10
		5/16 "	533296	QBL-1/4-5/16-U	10
		3/8 "	533297	QBL-1/4-3/8-U	5
Angled push-in fitting, long, with external hex					
	Connecting thread 1/4 NPT for tubing O.D.	1/4 "	564674	QBL-1/4-1/4-U	10
		5/16 "	564675	QBL-1/4-5/16-U	10
		3/8 "	564676	QBL-1/4-3/8-U	5
Silencers					
	With connecting thread NPT, metal design	1/4 NPT	12639	U-1/4-B-NPT	1
	With connecting thread NPT, sintered design, long	1/4 NPT	1206990	AMTE-M-LH-N14	20

1) Packaging unit

Ordering data		Weight [g]	Part No.	Type
Foot mounting				
	Set for mounting valves, comprising: • 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: • Wall mounting and • Screw set for mounting	53	576413	VAME-B10-20-W
Set 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-L, size 30, NPT

FESTO

Technical data

-  - 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						
Type of pilot control	Direct						
Manual override (MO)	None						
Direction of flow	Reversible with restrictions (not reversible: identified by A in type code)						
Sealing principle	Soft						
Type of mounting	Optionally via through-holes ¹⁾ or on manifold rail						
Standard nominal flow rate qnN [l/min]	2300	2300	2300	2300	2000	1600	1600
Through-holes [mm] (nominal width)	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						
Lap	Overlap						
Mounting position	Any						
Exhaust air function	With flow control						
Venting hole	Not ducted						
Pneumatic connection 1, 2, 3	3/8 NPT	3/8 NPT	3/8 NPT	3/8 NPT	3/8 NPT	3/8 NPT	3/8 NPT
4, 5	-	-	3/8 NPT	3/8 NPT	3/8 NPT	3/8 NPT	3/8 NPT
Pneumatic spring connection 12/14, 10	1/8 NPT						

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

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

Technical data – 3/2-way valves

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

Pneumatic valves VUWS-L, size 30, NPT

Technical data

FESTO

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

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

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

Operating and environmental conditions					
Valve function	M32	M52-A	M52-M	B52	P53
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]				
Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4]				
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)				
Operating pressure [bar]	2.5 ... 10	2.5 ... 10	-0.9 ... +10	-0.9 ... +10	-0.9 ... +10
Pilot pressure [bar]	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 may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

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

Pneumatic valves VUWS-L, size 30, NPT

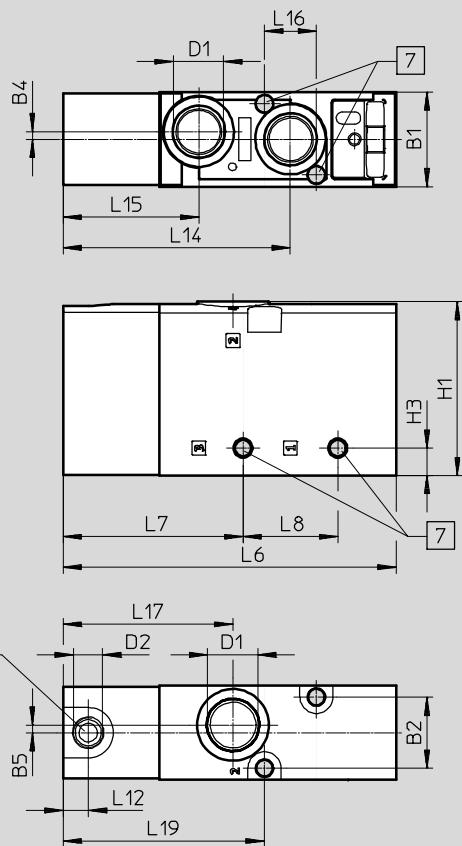
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Technical data

Dimensions

3/2-way valve, normally closed/open

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

Type	B1	B2	B3	B4	B5	D1	D2	H1	H3
VUWS-L30-M32C-...-N38	31	23.3	2.5	2.5	2.5	3/8 NPT	1/8 NPT	57	9
VUWS-L30-M32U-...-N38									

Type	L6	L7	L8	L12	L14	L15	L16	L17	L19
VUWS-L30-M32C-...-N38	109.2	59	31	8.3	74.5	44.5	17	55.7	66
VUWS-L30-M32U-...-N38									

Pneumatic valves VUWS-L, size 30, NPT

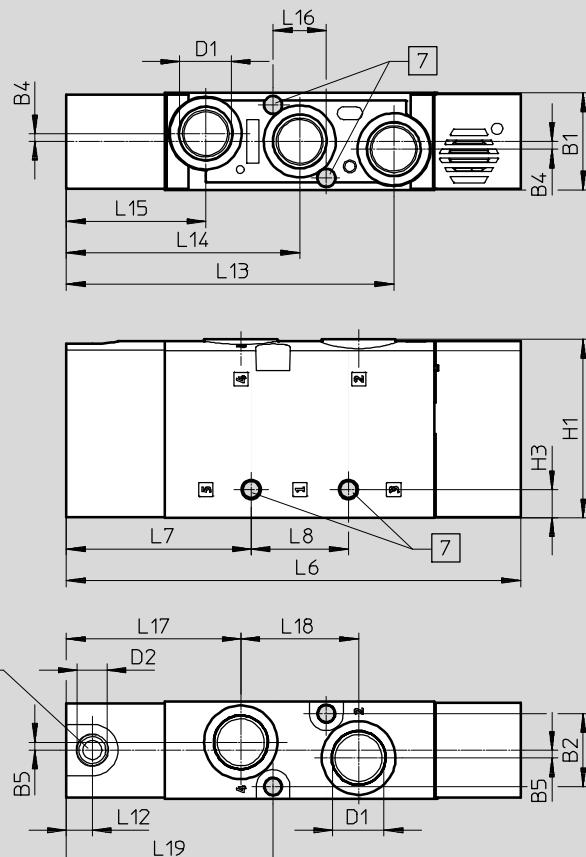
Technical data

FESTO

Dimensions

5/2-way valve, monostable

Download CAD data → www.festo.com



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

[7] For mounting screw M5

Type	B1	B2	B4	B5	D1	D2	H1	H3
VUWS-L30-M52-...-N38	31	23.3	2.5	2.5	3/8 NPT	1/8 NPT	57	9

Type	L6	L7	L8	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-L30-M52-...-N38	145	59	31	8.3	104.5	74.5	44.5	17	55.7	37.6	66

Pneumatic valves VUWS-L, size 30, NPT

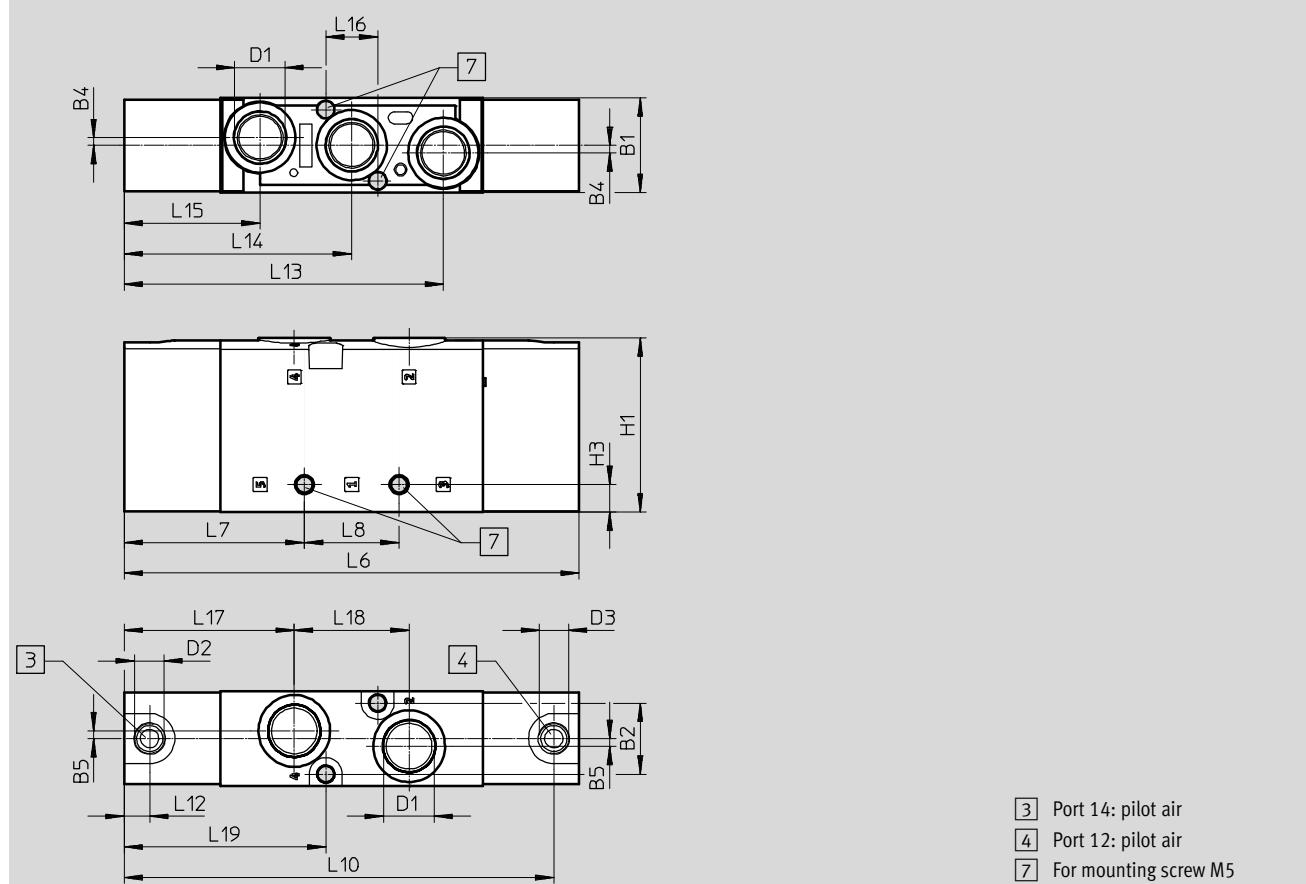
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Technical data

Dimensions

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

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Type	B1	B2	B4	B5	D1	D2	D3	H1	H3
VUWS-L30-P53...-M-N38	31	23.3	2.5	2.5	3/8 NPT	1/8 NPT	1/8 NPT	57	9
VUWS-L30-B52-N38									

Type	L6	L7	L8	L10	L12	L13	L14	L15	L16	L17	L18	L19
VUWS-L30-P53...-M-N38	149	59	31	140.7	8.3	104.5	74.5	44.5	17	55.7	37.6	66
VUWS-L30-B52-N38												

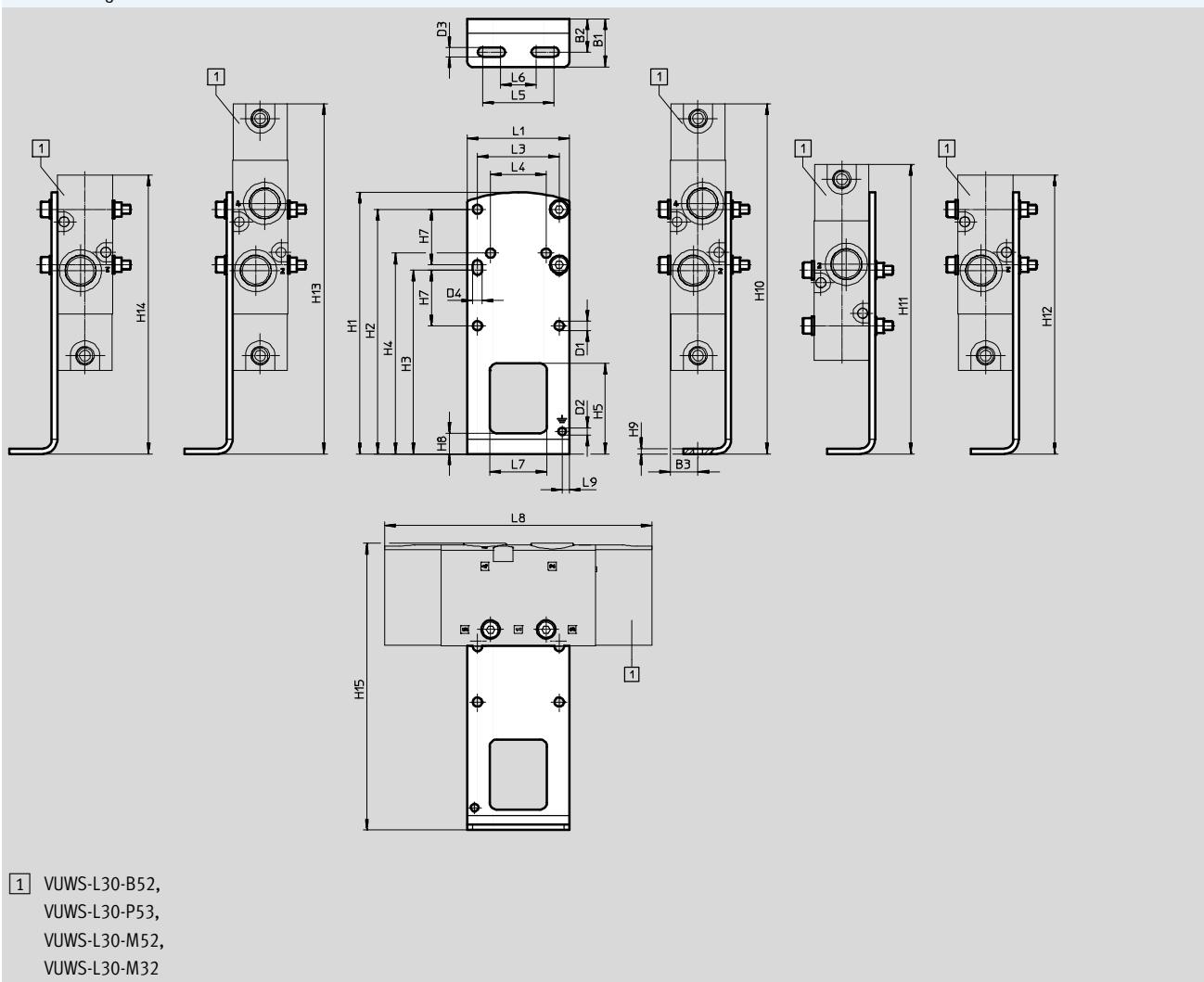
Pneumatic valves VUWS-L, size 30, NPT

Technical data

FESTO

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
	VUWS-L30-M52-E									102.5
	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
	VUWS-L30-M52-E									
	VUWS-L30-M52									191.5
	VUWS-L30-M32									155.7

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

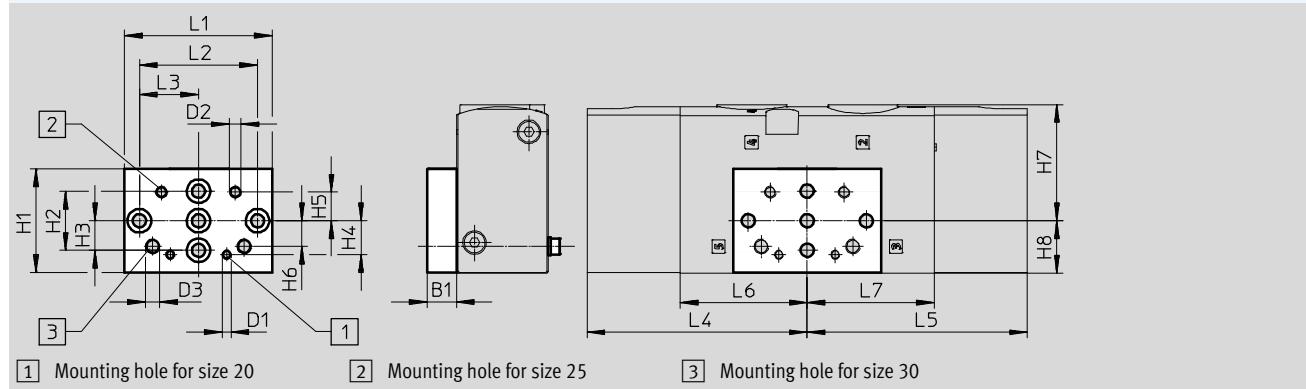
Pneumatic valves VUWS-L, size 30, NPT

FESTO

Technical data

Dimensions

Wall mounting



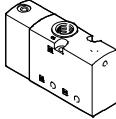
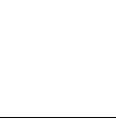
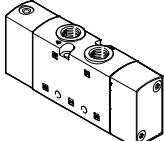
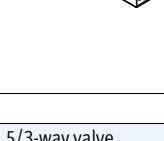
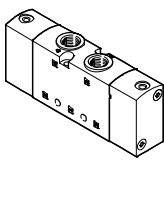
Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6
VAME-B10-20-W	VUWS-L30-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7
	VUWS-L30-M52										
	VUWS-L30-M32										

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

Pneumatic valves VUWS-L, size 30, NPT

Ordering data

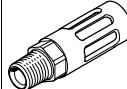
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Ordering data – Pneumatic valves				
	Code	Valve function	Part No.	Type
3/2-way valve				
	Normally closed, monostable			
	M32C-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575639	VUWS-L30-M32C-A-N38
	M32C-M	Mechanical spring return, direction of flow reversible	575640	VUWS-L30-M32C-M-N38
	Normally open, monostable			
	M32U-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575643	VUWS-L30-M32U-A-N38
	M32U-M	Mechanical spring return, direction of flow reversible	575644	VUWS-L30-M32U-M-N38
5/2-way valve				
	Monostable			
	M52-A	Pneumatic spring return, internal pneumatic spring, direction of flow not reversible	575646	VUWS-L30-M52-A-N38
	M52-M	Mechanical spring return, direction of flow reversible	575648	VUWS-L30-M52-M-N38
	B52	Direction of flow reversible	575650	VUWS-L30-B52-N38
5/3-way valve				
	P53C	Closed, mechanical spring return, direction of flow reversible	575652	VUWS-L30-P53C-M-N38
	P53E	Exhausted, mechanical spring return, direction of flow reversible	575656	VUWS-L30-P53E-M-N38
	P53U	Pressurised, mechanical spring return, direction of flow reversible	575654	VUWS-L30-P53U-M-N38

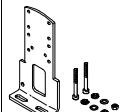
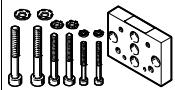
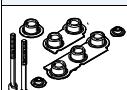
Pneumatic valves VUWS-L, size 30, NPT

FESTO

Accessories

Ordering data		Description	Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread 1/8 NPT for tubing O.D. Connecting thread 3/8 NPT for tubing O.D.	1/4 "	572318	QB-1/8-1/4-I-U	10
		5/16 "	572323	QB-3/8-5/16-I-U	10
		3/8 "	572324	QB-3/8-3/8-I-U	10
		1/2 "	572325	QB-3/8-1/2-I-U	10
Angled push-in fitting with external hex					
	Connecting thread 3/8 NPT for tubing O.D.	5/16 "	533299	QBL-3/8-5/16-U	5
		3/8 "	533300	QBL-3/8-3/8-U	5
		1/2 "	533301	QBL-3/8-1/2-U	5
Angled push-in fitting, long, with external hex					
	Connecting thread 3/8 NPT for tubing O.D.	5/16 "	564679	QBLL-3/8-5/16-U	5
		3/8 "	564680	QBLL-3/8-3/8-U	5
		1/2 "	564681	QBLL-3/8-1/2-U	5
Silencers					
	With connecting thread NPT, metal design	3/8 NPT	12740	U-3/8-B-NPT	1
	With connecting thread NPT, sintered design, long	3/8 NPT	1206991	AMTE-M-LH-N38	10

1) Packaging unit

Ordering data		Weight [g]	Part No.	Type
Foot mounting				
	Set for mounting valves, comprising: • Mounting bracket and • Screw set for mounting	-	8026337	VAME-B10-30-A
Wall mounting				
	Set for mounting valves for size 20, 25, 30, comprising: • Wall mounting and • Screw set for mounting	53	576413	VAME-B10-20-W
Set of spare parts				
	Set comprising: • Seals and • Screws	-	8035637	VAME-B10-30-MK
Inscription label				
	40 pieces in frame	-	565306	ASLR-C-E4

Pneumatic valves VUWS/valve manifold VTUS, NPT

Order code – Manifold block

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VABM	-	B10	-			-						
Manifold assembly parts												
Manifold block	VABM											
Valve series												
VUWS		B10										
Valve width												
21 mm			20									
26.5 mm			25									
31 mm			30									
Connection type												
Supply manifold				-								
Compact manifold block				S								
Standard manifold block				E								
Mounting												
-	Standard mounting											
Port for valve function												
-	Manifold block for 5/2- and 5/3-way valves											
P3	Manifold block for 3/2-way valves											
P53	Supply manifold											
Number of valve positions												
2 ... 10	2 to 10											
Pneumatic connections 1, 3, 5												
N14	1/4 NPT											
N38	3/8 NPT											
N12	1/2 NPT											
N34	3/4 NPT											

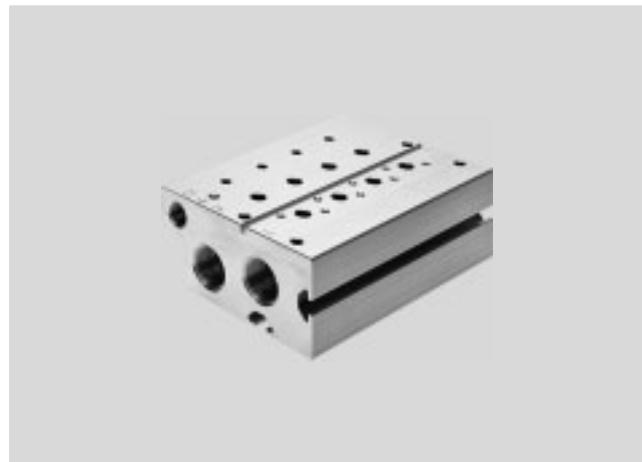
Manifold block VABM, NPT

FESTO

Technical data – Manifold block, size 20

-  - Flow rate
Up to 700 l/min

-  - Valve width
21 mm



General technical data

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

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

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

Weight [g]

Valve positions	2	3	4	5	6	7	8	9	10
Manifold block for 3/2-way valves, standard									
VABM-B10-20E-N38-...-P3	449	574	699	825	950	1075	1200	1326	1451
Manifold block for 5/2- and 5/3-way valves, standard									
VABM-B10-20E-N38-...	680	866	1053	1239	1425	1612	1798	1985	2171
Manifold block for 3/2-way valves, compact									
VABM-B10-20S-N14-...-P3	280	360	441	521	601	681	762	842	922
Manifold block for 5/2- and 5/3-way valves, compact									
VABM-B10-20S-N14-...	344	439	535	630	726	821	917	1012	1108
Supply manifold for mounting on both sides									
VABM-B10-20-N38-...-P53	226	268	310	352	395	437	479	521	563

Information on materials

Materials	Wrought aluminium alloy
Note on materials	RoHS compliant

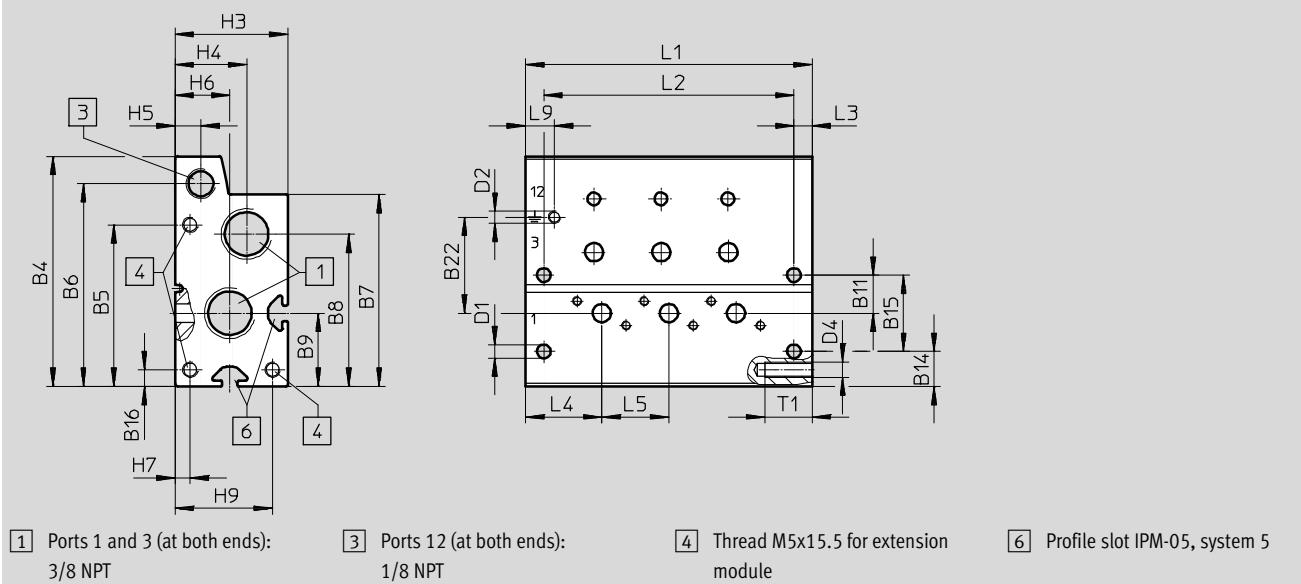
Manifold block VABM, NPT

Technical data – Manifold block, size 20

FESTO

Dimensions

Manifold block for 3/2-way valves, standard



Type	B4	B5	B6	B7	B8	B9	B11	B14	B15	B16	B22
VABM-B10-20E-N38-...-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-N38-...-P3	4.5	M4x6.5	M5	37	23.5	8.5	18	5	32	6	25	22	9.5	15.5

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

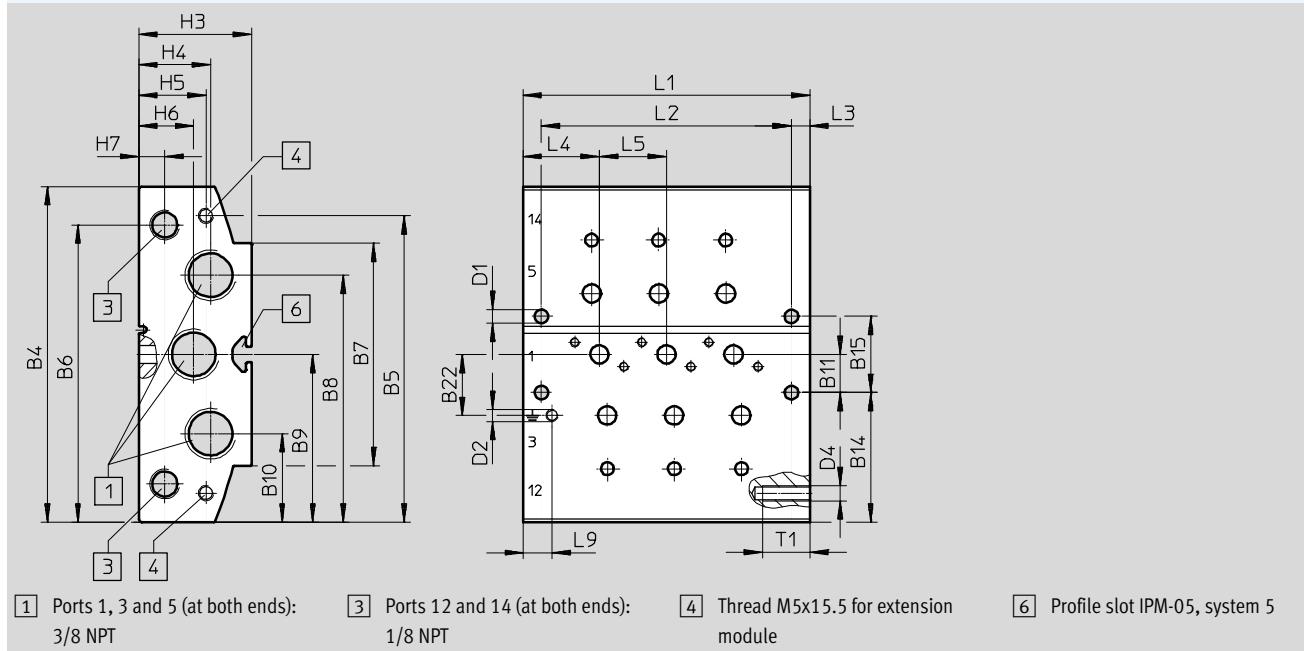
Manifold block VABM, NPT

FESTO

Technical data – Manifold block, size 20

Dimensions

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



Type	B4	B5	B6	B7	B8	B9	B10	B11	B14	B15	B22
VABM-B10-20E-N38-...	110	100.5	97.5	73	81	55	29	12.5	42.5	25	20

Type	D1 Ø	D2	D4	H3	H4	H5	H6	H7	L3	L4	L5	L9	T1
VABM-B10-20E-N38-...	4.5	M4x6.5	M5	37	23.5	22	18	8.5	6	25	22	9.5	15.5

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

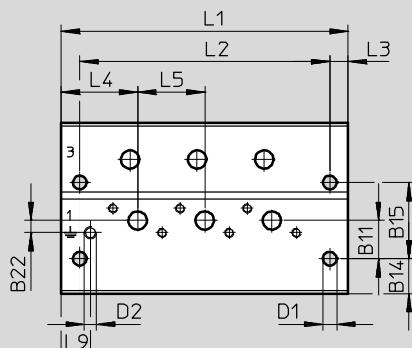
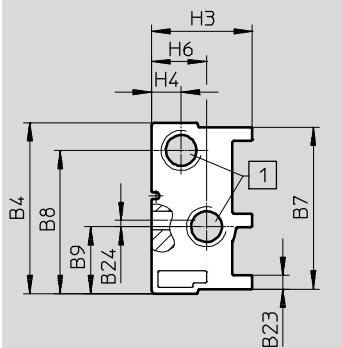
Manifold block VABM, NPT

Technical data – Manifold block, size 20

FESTO

Dimensions

Manifold block for 3/2-way valves, compact



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

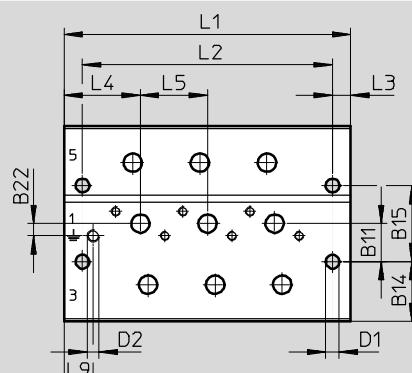
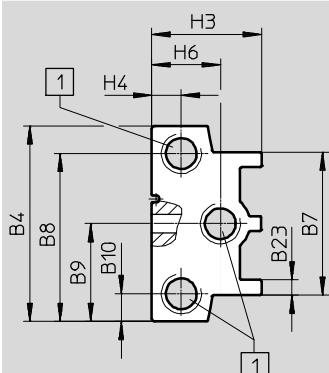
Type	B4	B7	B8	B9	B11	B14	B15	B22	B23	B24
VABM-B10-20S-N14-...-P3	56.1	53.1	471	22	12.5	11.5	25	4	5	2

Type	D1 Ø	D2	H3	H4	H6	L3	L4	L5	L9
VABM-B10-20S-N14-...-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):
1/4 NPT

Type	B4	B7	B8	B9	B10	B11	B14	B15	B22	B23
VABM-B10-20S-N14-...	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-N14-...	4.5	M4x6.5	36	9.7	22.5	6	25	22	9.5

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

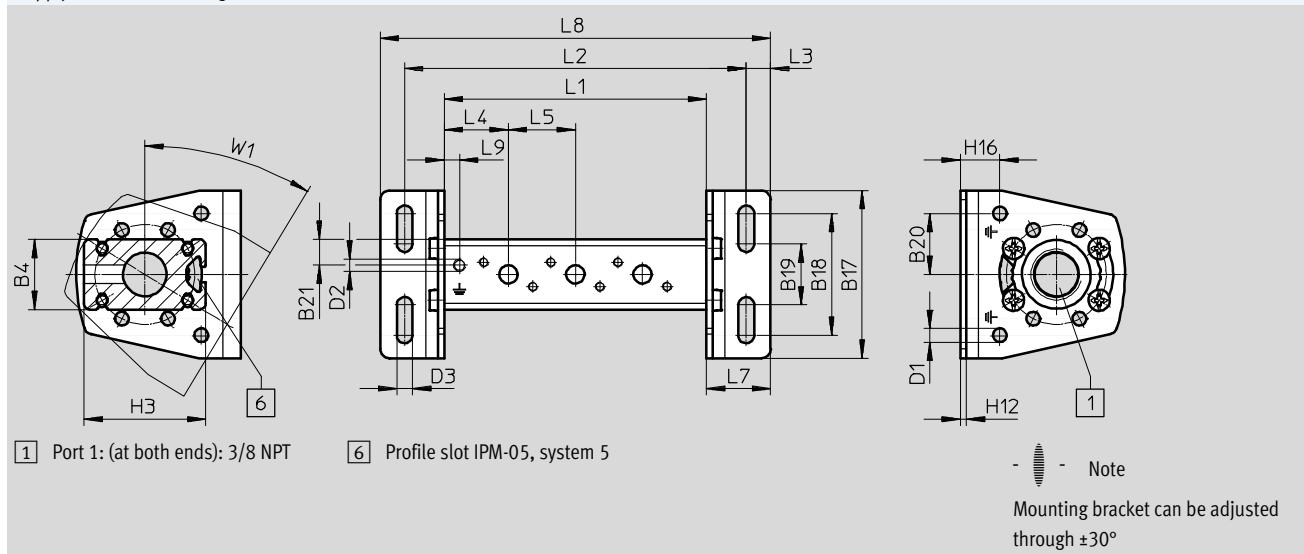
Manifold block VABM, NPT

FESTO

Technical data – Manifold block, size 20

Dimensions

Supply manifold, mounting on both sides



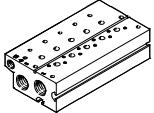
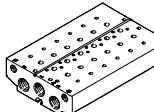
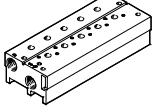
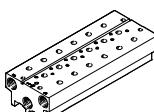
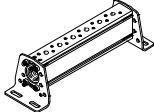
Type	B4	B17	B18	B19	B20	B21	D1 Ø	D2	D3 Ø	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-20-N38-...-P53	23	55	40	20	20	8.5	4.5	M4x6.5	5.2	40	2	13	9	21	22	22	5	31.3°

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

Manifold block VABM, NPT

Ordering data – Manifold block, size 20

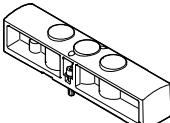
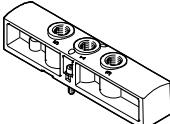
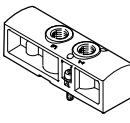
FESTO

Ordering data		Valve positions	Part No.	Type
Description				
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	576453 576454 576455 576456 576457 576458 576459 576460 576461	VABM-B10-20E-N38-2-P3 VABM-B10-20E-N38-3-P3 VABM-B10-20E-N38-4-P3 VABM-B10-20E-N38-5-P3 VABM-B10-20E-N38-6-P3 VABM-B10-20E-N38-7-P3 VABM-B10-20E-N38-8-P3 VABM-B10-20E-N38-9-P3 VABM-B10-20E-N38-10-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	576351 576352 576353 576354 576355 576356 576357 576358 576359	VABM-B10-20E-N38-2 VABM-B10-20E-N38-3 VABM-B10-20E-N38-4 VABM-B10-20E-N38-5 VABM-B10-20E-N38-6 VABM-B10-20E-N38-7 VABM-B10-20E-N38-8 VABM-B10-20E-N38-9 VABM-B10-20E-N38-10
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	576477 576478 576479 576480 576481 576482 576483 576484 576485	VABM-B10-20S-N14-2-P3 VABM-B10-20S-N14-3-P3 VABM-B10-20S-N14-4-P3 VABM-B10-20S-N14-5-P3 VABM-B10-20S-N14-6-P3 VABM-B10-20S-N14-7-P3 VABM-B10-20S-N14-8-P3 VABM-B10-20S-N14-9-P3 VABM-B10-20S-N14-10-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	576429 576430 576431 576432 576433 576434 576435 576436 576437	VABM-B10-20S-N14-2 VABM-B10-20S-N14-3 VABM-B10-20S-N14-4 VABM-B10-20S-N14-5 VABM-B10-20S-N14-6 VABM-B10-20S-N14-7 VABM-B10-20S-N14-8 VABM-B10-20S-N14-9 VABM-B10-20S-N14-10
Supply manifold				
	For mounting on both sides, incl. seals and screws for mounting valves - - Note Blanking plug for sealing the supply port (1) at one end included in the scope of delivery.	2 3 4 5 6 7 8 9 10	576375 576376 576377 576378 576379 576380 576381 576382 576383	VABM-B10-20-N38-2-P53 VABM-B10-20-N38-3-P53 VABM-B10-20-N38-4-P53 VABM-B10-20-N38-5-P53 VABM-B10-20-N38-6-P53 VABM-B10-20-N38-7-P53 VABM-B10-20-N38-8-P53 VABM-B10-20-N38-9-P53 VABM-B10-20-N38-10-P53

Manifold block VABM, NPT

FESTO

Accessories – Manifold block, size 20

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

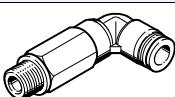
Ordering data		Description of NPT thread	Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread 1/8 NPT for tubing O.D.	5/32 "	572317	QB-1/8-5/32-I-U	10
		1/4 "	572318	QB-1/8-1/4-I-U	10
		5/16 "	572319	QB-1/8-5/16-I-U	10
	Connecting thread 1/4 NPT for tubing O.D.	5/16 "	572321	QB-1/4-5/16-I-U	10
		3/8 "	572322	QB-1/4-3/8-I-U	10
		1/2 "	567771	QB-1/4-1/2-U	10
	Connecting thread 3/8 NPT for tubing O.D.	5/16 "	572323	QB-3/8-5/16-I-U	10
		3/8 "	572324	QB-3/8-3/8-I-U	10
		1/2 "	572325	QB-3/8-1/2-I-U	10

1) Packaging unit

Manifold block VABM, NPT

Accessories – Manifold block, size 20

FESTO

Ordering data		Description of NPT thread	Part No.	Type	PU ¹⁾
Angled push-in fitting with external hex					
	Connecting thread 1/8 NPT for tubing O.D.	5/32 "	533290	QBL-1/8-5/32-U	10
		1/4 "	533292	QBL-1/8-1/4-U	10
		5/16 "	533293	QBL-1/8-5/16-U	10
	Connecting thread 1/4 NPT for tubing O.D.	5/16 "	533296	QBL-1/4-5/16-U	10
		3/8 "	533297	QBL-1/4-3/8-U	5
		1/2 "	567775	QBL-1/4-1/2-U	5
	Connecting thread 3/8 NPT for tubing O.D.	5/16 "	533299	QBL-3/8-5/16-U	5
		3/8 "	533300	QBL-3/8-3/8-U	5
		1/2 "	533301	QBL-3/8-1/2-U	5
Angled push-in fitting, long, with external hex					
	Connecting thread 1/8 NPT for tubing O.D.	5/32 "	564668	QBLL-1/8-5/32-U	10
		1/4 "	564670	QBLL-1/8-1/4-U	10
		5/16 "	564671	QBLL-1/8-5/16-U	10

1) Packaging unit

Ordering data		Description of G thread	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	
		 - Note	6 mm	186107	QS-G1/8-6-I	10
				133009	QS-G1/8-6-I-100	100
	Push-in fittings with G thread are for supply plates only.	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	
		 - Note	6 mm	186117	QSL-G1/8-6	10
				132049	QSL-G1/8-6-100	100
	Push-in fittings with G thread are for supply plates only.	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	
		 - Note	6 mm	186128	QSLL-G1/8-6	10
				133016	QSLL-G1/8-6-100	100
	Push-in fittings with G thread are for supply plates only.	8 mm	186130	QSLL-G1/8-8	10	
			133017	QSLL-G1/8-8-100	100	

1) Packaging unit

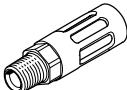
Manifold block VABM, NPT

FESTO

Accessories – Manifold block, size 20

Ordering data		Description of NPT thread	Part No.	Type	PU ¹⁾
Silencers					
	With connecting thread NPT, metal design	1/4 NPT	12639	U-1/4-B-NPT	1
		3/8 NPT	12740	U-3/8-B-NPT	1
	With connecting thread NPT, sintered design, long	1/4 NPT	1206990	AMTE-M-LH-N14	20
		3/8 NPT	1206991	AMTE-M-LH-N38	10

1) Packaging unit

Ordering data		Description of G thread	Part No.	Type	PU ¹⁾
Silencer					
	With connecting thread G, plastic design	G1/8	2307	U-1/8	1
		-  - Note Silencers with G thread are for supply plates only.	534222	U-1/8-50	50
	With connecting thread G, metal design	G1/8	6841	U-1/8-B	1
		-  - Note Silencers with G thread are for supply plates only.			
	With connecting thread G, sintered design, long	G1/8	1205860	AMTE-M-LH-G18	-  - 20
	-  - Note Silencers with G thread are for supply plates only.				

1) Packaging unit

Manifold block VABM, NPT

Accessories – Manifold block, size 20

FESTO

Ordering data		Description	Part No.	Type	PU ¹⁾
Blanking plug					
	With connecting thread NPT	1/8 NPT	173985	B-1/8-NPT	1
		1/4 NPT	174165	B-1/4-NPT	1
		3/8 NPT	174169	B-3/8-NPT	1
Separator					
	For creating pressure zones for port	G1/8 1/8 NPT	569995	VABD-8-B	1
		G1/4 1/4 NPT	569996	VABD-10-B	1
		G3/8 3/8 NPT	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

Manifold block VABM, NPT

FESTO

Technical data – Manifold block, size 25

-  - Flow rate
Up to 1300 l/min

-  - Valve width
26.5 mm



General technical data

	Manifold block standard	Manifold block compact	Supply manifold on both sides
For valves	3/2	5/2, 5/3	3/2
Grid dimension [mm]	27.5		
Type of mounting	With through-hole		With mounting bracket
Maximum number of valve positions	10	10	10
Port 1	1/2 NPT	1/2 NPT	3/8 NPT
Port 3	1/2 NPT	1/2 NPT	3/8 NPT
Port 5	–	1/2 NPT	–
Port 12	1/8 NPT	1/8 NPT	–
Port 14	–	1/8 NPT	–
CRC ¹⁾	2 ¹⁾		

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

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

Weight [g]

Valve positions	2	3	4	5	6	7	8	9	10
Manifold block for 3/2-way valves, standard									
VABM-B10-25E-N12-...-P3	726	960	1194	1428	1662	1896	2130	2364	2598
Manifold block for 5/2- and 5/3-way valves, standard									
VABM-B10-25E-N12-...	927	1224	1521	1818	2115	2412	2709	3006	3303
Manifold block for 3/2-way valves, compact									
VABM-B10-25S-N38-...-P3	369	488	607	726	845	964	1083	1202	1321
Manifold block for 5/2- and 5/3-way valves, compact									
VABM-B10-25S-N38...	438	579	720	861	1002	1143	1284	1425	1566
Supply manifold for mounting on both sides									
VABM-B10-25-N12-...-P53	258	340	422	504	586	668	750	832	914

Information on materials

Materials	Wrought aluminium alloy
Note on materials	RoHS compliant

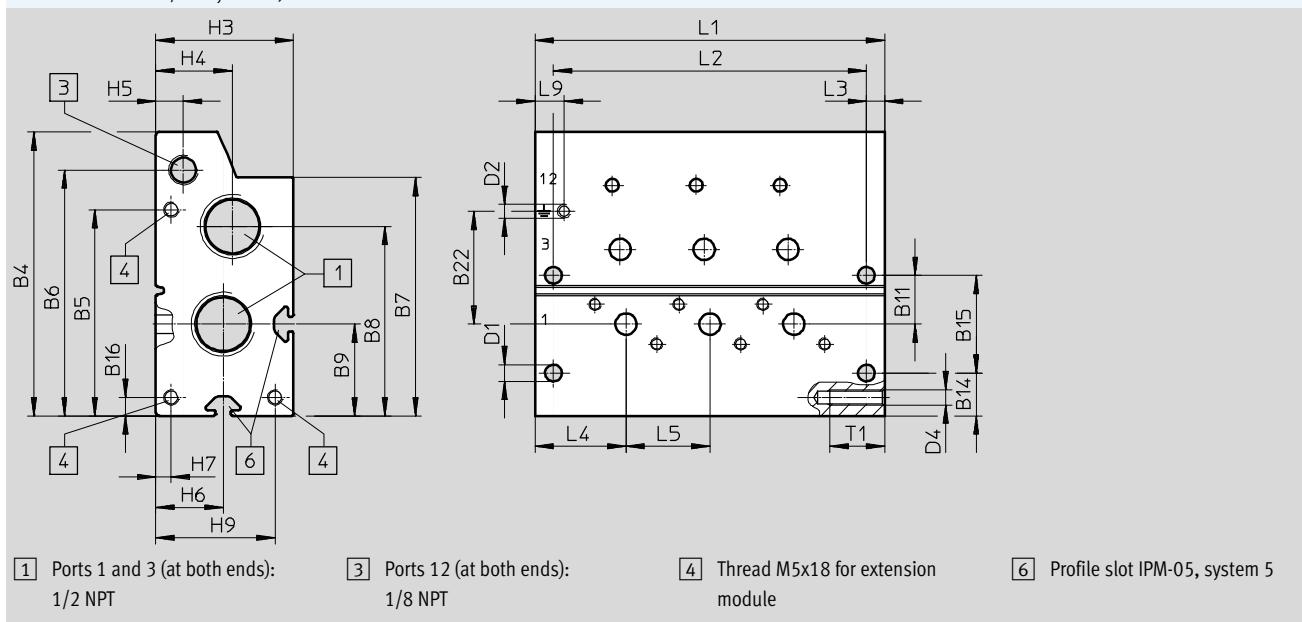
Manifold block VABM, NPT

Technical data – Manifold block, size 25

FESTO

Dimensions

Manifold block for 3/2-way valves, standard



Type	B4	B5	B6	B7	B8	B9	B11	B14	B15	B16	B22
VABM-B10-25-E-N12-...-P3	93	67.5	80.5	78	62	30	16	14	32	6	37

Type	D1	D2	D4	H3	H4	H5	H6	H7	H9	L3	L4	L5	L9	T1
VABM-B10-25-E-N12....P3	5.5	M4x9	M5	45	25	9	22	5	39	6	29.8	27.5	9.5	18

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

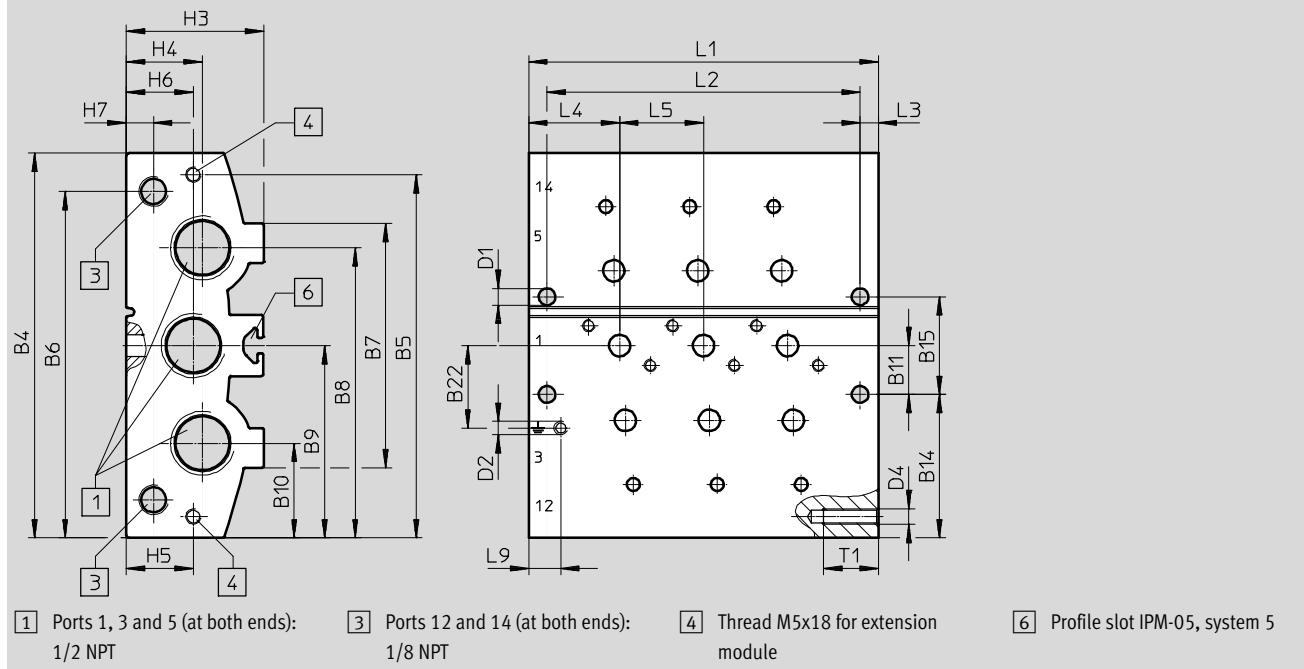
Manifold block VABM, NPT

FESTO

Technical data – Manifold block, size 25

Dimensions

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



Type	B4	B5	B6	B7	B8	B9	B10	B11	B14	B15	B22
VABM-B10-25E-N12...	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-N12...	5.5	M4x9	M5	45	25	22	22	9	6	29.8	27.5	10.5	18

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

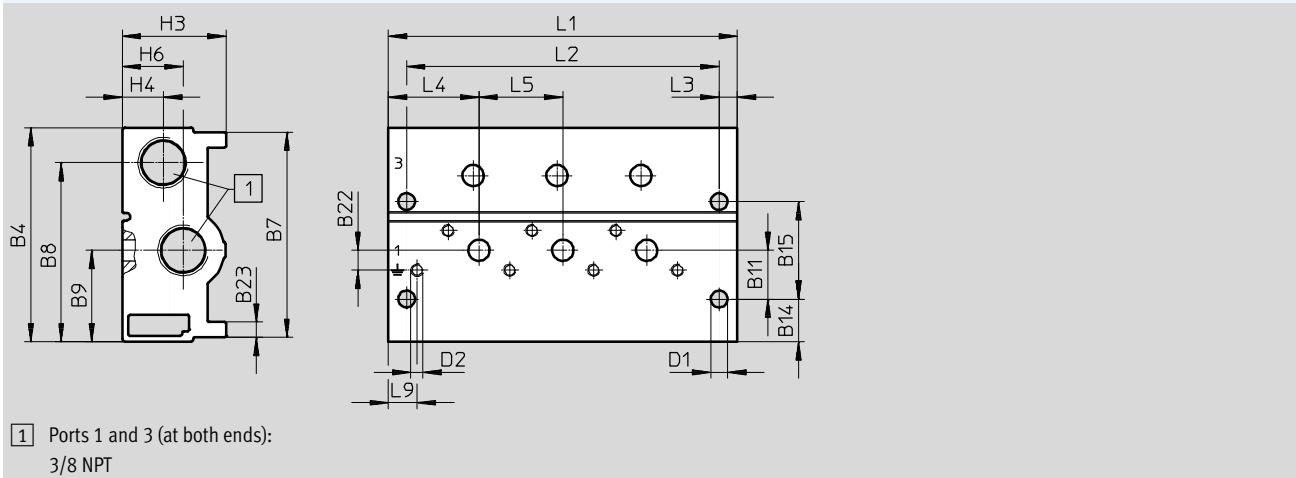
Manifold block VABM, NPT

Technical data – Manifold block, size 25

FESTO

Dimensions

Manifold block for 3/2-way valves, compact



Type	B4	B7	B8	B9	B11	B14	B15	B22	B23
VABM-B10-25S-N38-...-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-N38-...-P3	5.5	M4x9	34	13.5	20	6	29.8	27.5	9.5

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

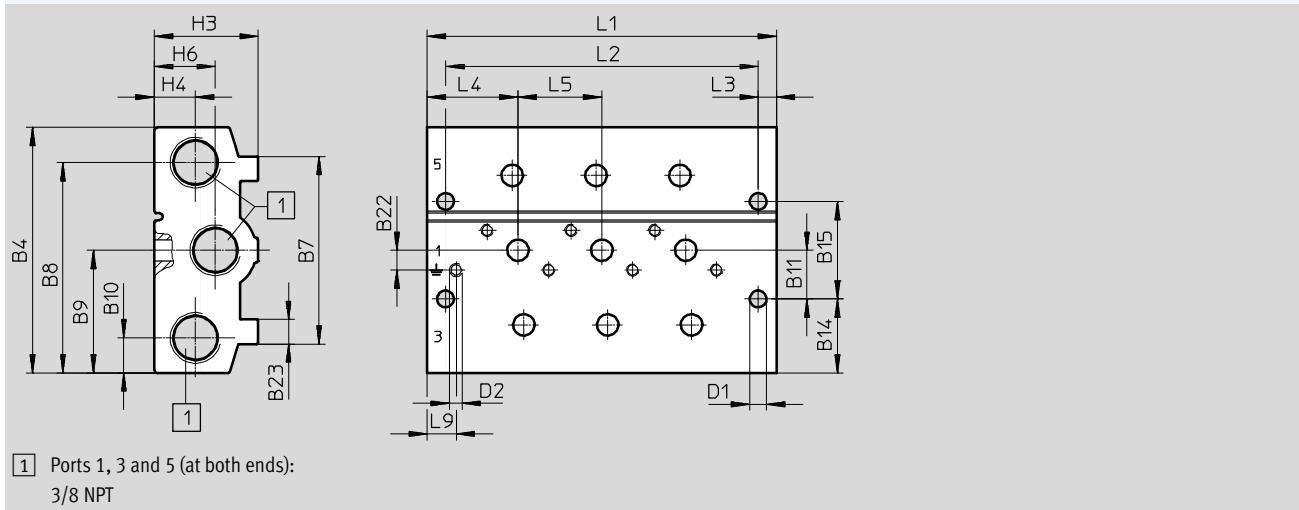
Manifold block VABM, NPT

FESTO

Technical data – Manifold block, size 25

Dimensions

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



Type	B4	B7	B8	B9	B10	B11	B14	B15	B22	B23
VABM-B10-25S-N38...	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-N38...	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

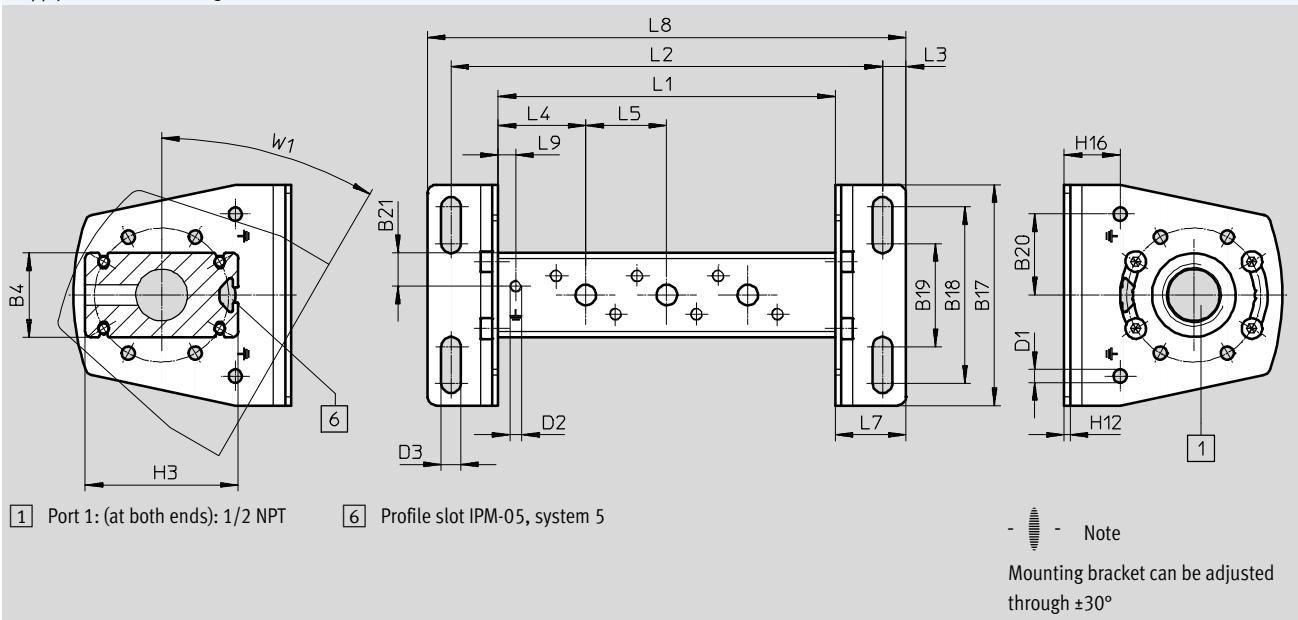
Manifold block VABM, NPT

Technical data – Manifold block, size 25

FESTO

Dimensions

Supply manifold, mounting on both sides



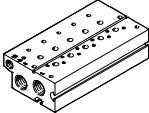
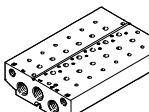
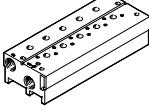
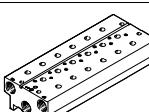
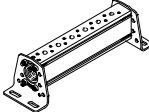
Type	B_4	B_{17}	B_{18}	B_{19}	B_{20}	B_{21}	$D_1 \varnothing$	D_2	$D_3 \varnothing$	H_3	H_{12}	H_{16}	L_3	L_4	L_5	L_7	L_9	W_1
VABM-B10-25-N12-...-P53	28.7	75	60	35	27.5	11.4	4.5	M4x9	6.6	52	2	19	8	29.8	27.5	24	6	30

Valve positions	2	3	4	5	6	7	8	9	10
L_1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L_2 [mm]	119	146.5	174	201.5	229	256.5	284	311.5	339
L_8 [mm]	135	162.5	190	217.5	245	272.5	300	327.5	355

Manifold block VABM, NPT

FESTO

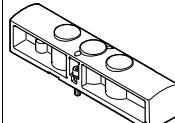
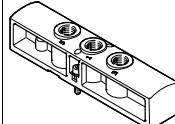
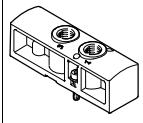
Ordering data – Manifold block, size 25

Ordering data		Valve positions	Part No.	Type
Description				
Standard manifold block				
	For 3/2-way valves, incl. seals and screws for mounting valves	2 3 4 5 6 7 8 9 10	8026288 8026289 8026290 8026291 8026292 8026293 8026294 8026295 8026296	VABM-B10-25E-N12-2-P3 VABM-B10-25E-N12-3-P3 VABM-B10-25E-N12-4-P3 VABM-B10-25E-N12-5-P3 VABM-B10-25E-N12-6-P3 VABM-B10-25E-N12-7-P3 VABM-B10-25E-N12-8-P3 VABM-B10-25E-N12-9-P3 VABM-B10-25E-N12-10-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	8026252 8026253 8026254 8026255 8026256 8026257 8026258 8026259 8026260	VABM-B10-25E-N12-2 VABM-B10-25E-N12-3 VABM-B10-25E-N12-4 VABM-B10-25E-N12-5 VABM-B10-25E-N12-6 VABM-B10-25E-N12-7 VABM-B10-25E-N12-8 VABM-B10-25E-N12-9 VABM-B10-25E-N12-10
Compact manifold block				
	For 3/2-way valves, incl. seals and screws for mounting valves	2 3 4 5 6 7 8 9 10	8026306 8026307 8026308 8026309 8026310 8026311 8026312 8026313 8026314	VABM-B10-25S-N38-2-P3 VABM-B10-25S-N38-3-P3 VABM-B10-25S-N38-4-P3 VABM-B10-25S-N38-5-P3 VABM-B10-25S-N38-6-P3 VABM-B10-25S-N38-7-P3 VABM-B10-25S-N38-8-P3 VABM-B10-25S-N38-9-P3 VABM-B10-25S-N38-10-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	8026270 8026271 8026272 8026273 8026274 8026275 8026276 8026277 8026278	VABM-B10-25S-N38-2 VABM-B10-25S-N38-3 VABM-B10-25S-N38-4 VABM-B10-25S-N38-5 VABM-B10-25S-N38-6 VABM-B10-25S-N38-7 VABM-B10-25S-N38-8 VABM-B10-25S-N38-9 VABM-B10-25S-N38-10
Supply manifold				
	For mounting on both sides, incl. seals and screws for mounting valves	2 3 4 5 6 7 8 9 10	8026228 8026229 8026230 8026231 8026232 8026233 8026234 8026235 8026236	VABM-B10-25-N12-2-P53 VABM-B10-25-N12-3-P53 VABM-B10-25-N12-4-P53 VABM-B10-25-N12-5-P53 VABM-B10-25-N12-6-P53 VABM-B10-25-N12-7-P53 VABM-B10-25-N12-8-P53 VABM-B10-25-N12-9-P53 VABM-B10-25-N12-10-P53

Manifold block VABM, NPT

Accessories – Manifold block, size 25

FESTO

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

Manifold block VABM, NPT

FESTO

Accessories – Manifold block, size 25

Ordering data		Description of NPT thread	Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread 1/8 NPT for tubing O.D.	1/4 "	572318	QB-1/8-1/4-I-U	10
	Connecting thread 3/8 NPT for tubing O.D.	5/16 "	572323	QB-3/8-5/16-I-U	10
		3/8 "	572324	QB-3/8-3/8-I-U	10
		1/2 "	572325	QB-3/8-1/2-I-U	10
	Connecting thread 1/2 NPT for tubing O.D.	1/2 "	572326	QB-1/2-1/2-I-U	10
Push-in fitting with external hex					
	Connecting thread 1/2 NPT for tubing O.D.	3/8 "	533283	QB-1/2-3/8-U	5
Angled push-in fitting with external hex					
	Connecting thread 3/8 NPT for tubing O.D.	5/16 "	533299	QBL-3/8-5/16-U	5
		3/8 "	533300	QBL-3/8-3/8-U	5
		1/2 "	533301	QBL-3/8-1/2-U	5
	Connecting thread 1/2 NPT for tubing O.D.	3/8 "	533302	QBL-1/2-3/8-U	5
		1/2 "	533303	QBL-1/2-1/2-U	5

1) Packaging unit

Ordering data		Description of G thread	Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	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
	-  - Note	10 mm	186112	QS-G1/4-10-I	10
	Push-in fittings with G thread are for supply plates only.				
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
	-  - Note	8 mm	186120	QSL-G1/4-8	10
	Push-in fittings with G thread are for supply plates only.		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
	-  - Note	10 mm	186133	QSLL-G1/4-10	10
	Push-in fittings with G thread are for supply plates only.				

1) Packaging unit

Manifold block VABM, NPT

Accessories – Manifold block, size 25

FESTO

Ordering data		Description of NPT thread	Part No.	Type	PU ¹⁾
Silencers					
	With connecting thread NPT, metal design	3/8 NPT	12740	U-3/8-B-NPT	1
		1/2 NPT	12741	U-1/2-B-NPT	1
	With connecting thread NPT, sintered design, long	3/8 NPT	1206991	AMTE-M-LH-N38	10
		1/2 NPT	1206992	AMTE-M-LH-N12	10

1) Packaging unit

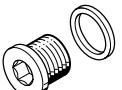
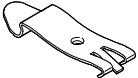
Ordering data		Description of G thread	Part No.	Type	PU ¹⁾
Silencers					
	With connecting thread G, plastic design	G1/4	2316	U-1/4	1
	 - Note Silencers with G thread are for supply plates only.		534223	U-1/4-20	20
	With connecting thread G, metal design	G1/4	6842	U-1/4-B	1
	 - Note Silencers with G thread are for supply plates only.				
	With connecting thread G, sintered design, long	G1/4	1205861	AMTE-M-LH-G14	
	 - Note Silencers with G thread are for supply plates only.				20

1) Packaging unit

Manifold block VABM, NPT

FESTO

Accessories – Manifold block, size 25

Ordering data		Description	Part No.	Type	PU ¹⁾
Blanking plug					
	With connecting thread NPT	1/8 NPT	173985	B-1/8-NPT	1
		3/8 NPT	174169	B-3/8-NPT	1
		1/2 NPT	31785	B-1/2-NPT	1
Separator					
	For creating pressure zones for port	G1/8	569995	VABD-8-B	1
		1/8 NPT			
		G3/8	574483	VABD-14-B	1
	For size 25, for mounting on standard H-rails TH 35-7.5 or TH 35-15 to EN 60715	3/8 NPT			
		G1/2	8022483	VABD-17.5-B	1
		1/2 NPT			
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, NPT

Technical data – Manifold block, size 30

FESTO

-  - Flow rate
Up to 2300 l/min

-  - Valve width
31 mm



General technical data

	Manifold block standard	Manifold block compact	Supply manifold on both sides
For valves	3/2	5/2, 5/3	3/2
Grid dimension [mm]	32		
Type of mounting	With through-hole		
Maximum number of valve positions	10	10	10
Port 1	3/4 NPT	3/4 NPT	1/2 NPT
Port 3	3/4 NPT	3/4 NPT	1/2 NPT
Port 5	–	3/4 NPT	–
Port 12	1/8 NPT	1/8 NPT	–
Port 14	–	1/8 NPT	–
CRC ¹⁾	2 ¹⁾		

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

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

Weight [g]

Valve positions	2	3	4	5	6	7	8	9	10
Manifold block for 3/2-way valves, standard									
VABM-B10-30E-N34-...-P3	1411	1828	2245	2662	3079	3496	3913	4330	4747
Manifold block for 5/2- and 5/3-way valves, standard									
VABM-B10-30E-N34-...	1722	2213	2703	3194	3684	4175	4665	5156	5646
Manifold block for 3/2-way valves, compact									
VABM-B10-30S-N12-...-P3	652	872	1093	1313	1533	1753	1973	2193	2413
Manifold block for 5/2- and 5/3-way valves, compact									
VABM-B10-30S-N12-...	759	1013	1267	1522	1776	2030	2285	2539	2793
Supply manifold for mounting on both sides									
VABM-B10-30-N34-...-P53	818	977	1135	1293	1452	1610	1768	1927	2085

Information on materials

Materials	Wrought aluminium alloy
Note on materials	RoHS compliant

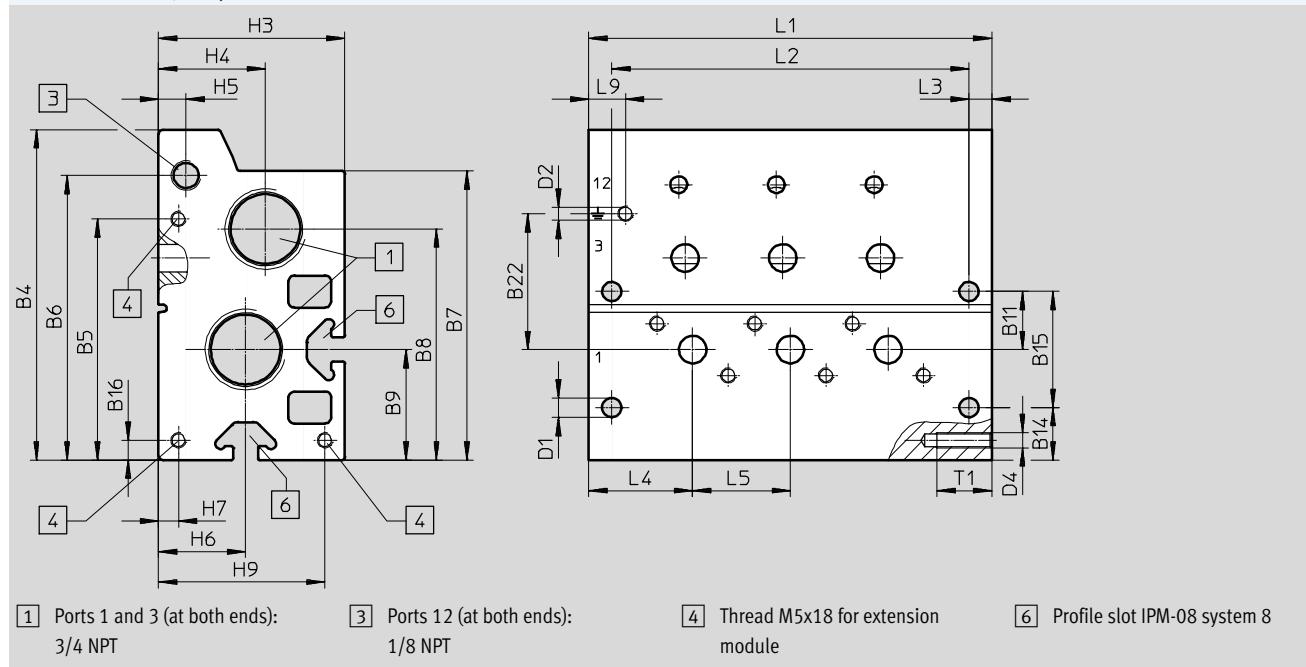
Manifold block VABM, NPT

FESTO

Technical data – Manifold block, size 30

Dimensions

Manifold block for 3/2-way valves, standard



Type	B4	B5	B6	B7	B8	B9	B11	B14	B15	B16	B22
VABM-B10-30-E-N34-...-P3	108.2	79	93.2	94.7	75.7	36.2	19	17.2	38	6.5	44.5

Type	D1	\emptyset	D2	D4	H3	H4	H5	H6	H7	H9	L3	L4	L5	L9	T1
VABM-B10-30-E-N34-...-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

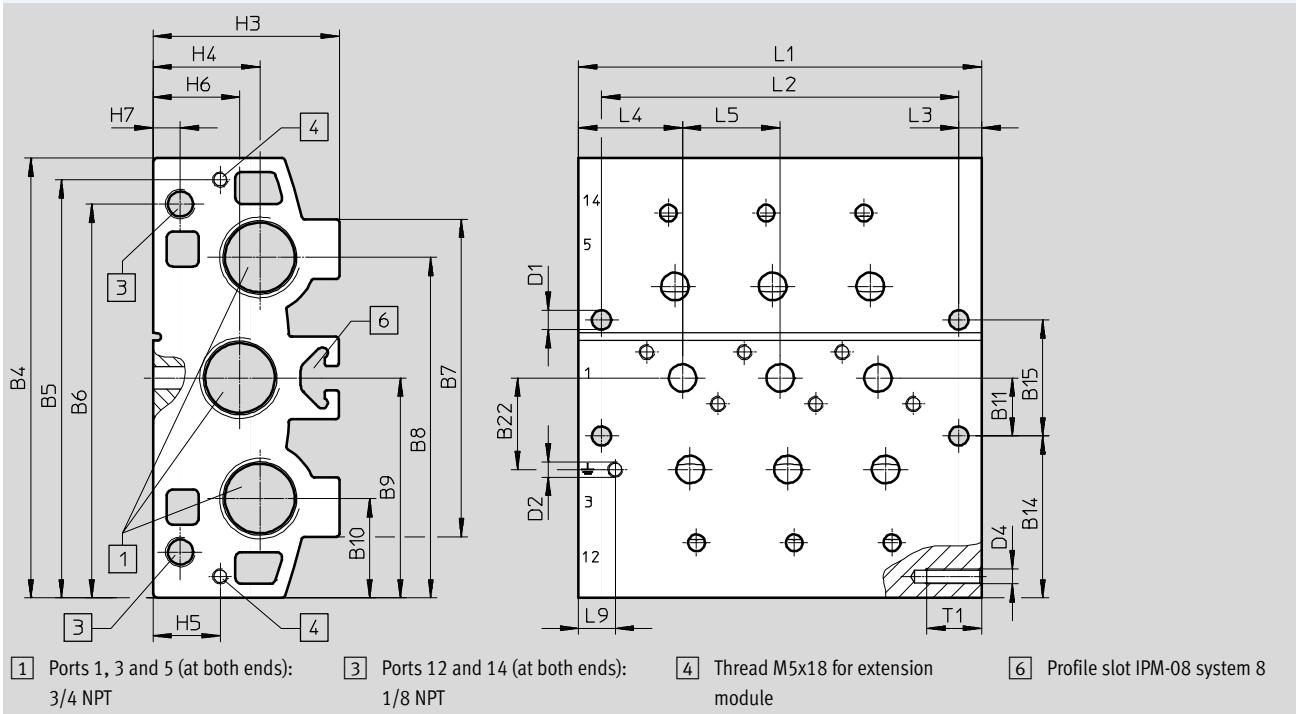
Manifold block VABM, NPT

Technical data – Manifold block, size 30

FESTO

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-N34-...	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-N34-...	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

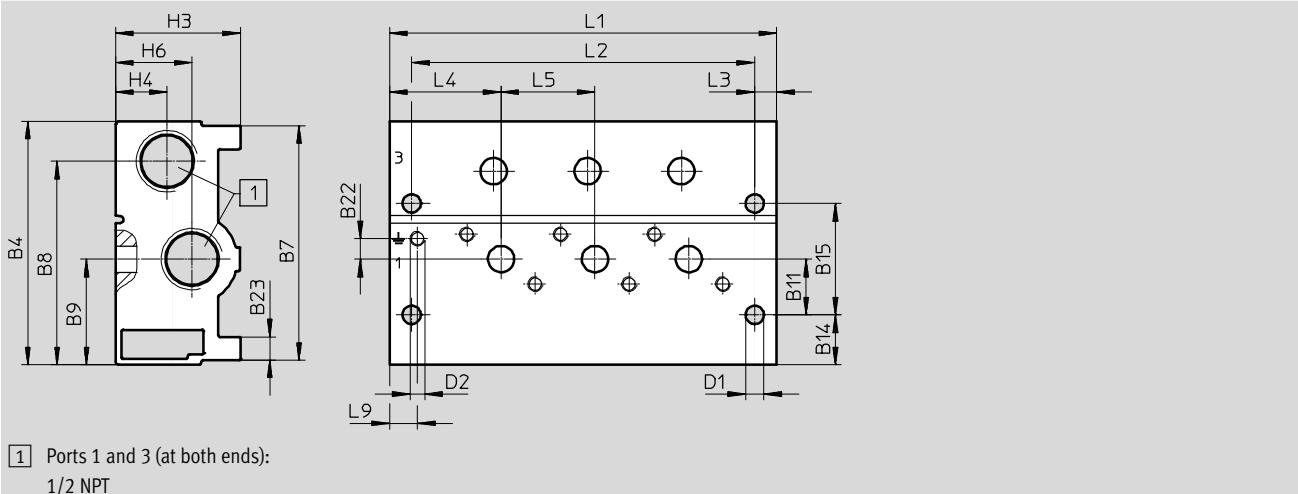
Manifold block VABM, NPT

FESTO

Technical data – Manifold block, size 30

Dimensions

Manifold block for 3/2-way valves, compact



Type	B4	B7	B8	B9	B11	B14	B15	B22	B23
VABM-B10-30S-N12...-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-N12...-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

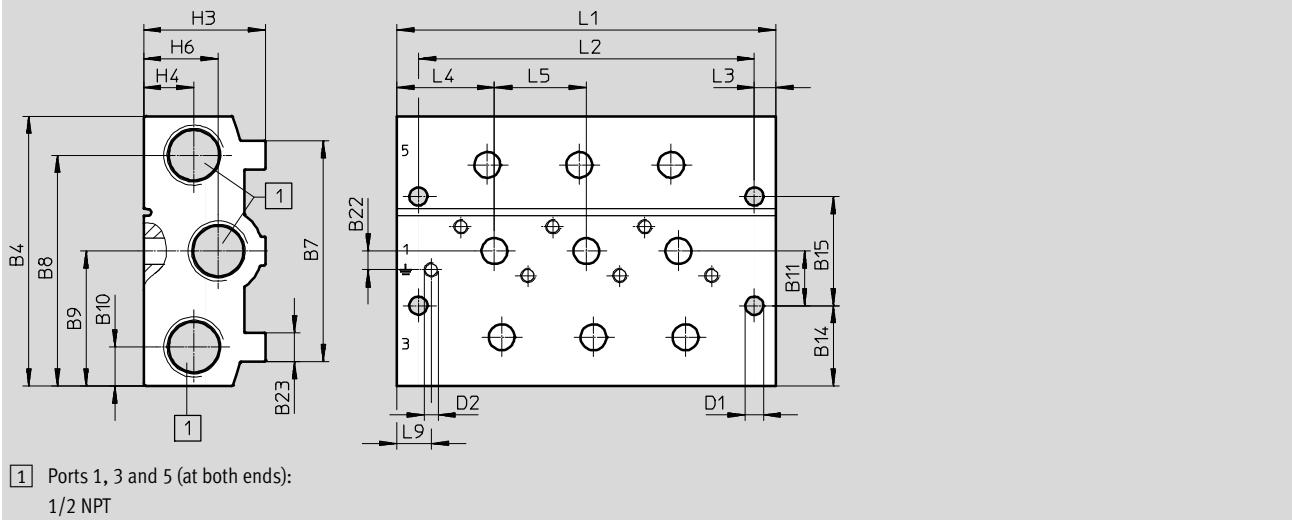
Manifold block VABM, NPT

Technical data – Manifold block, size 30

FESTO

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-N12-...	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-N12-...	6.3	M5x11	42.5	17.5	26	7.5	34	32	12

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

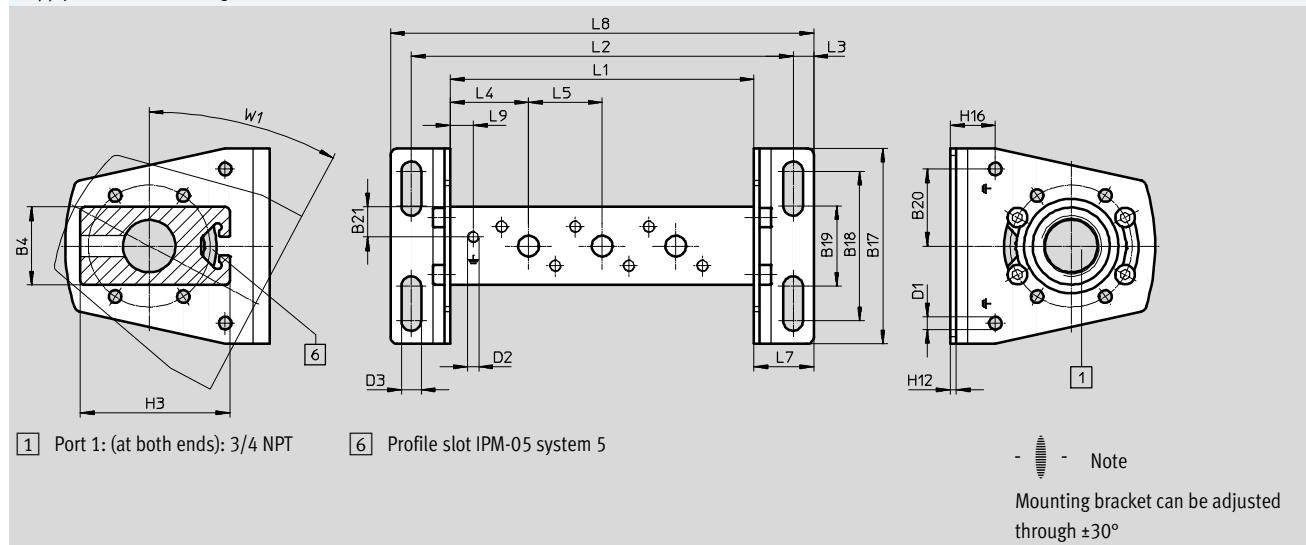
Manifold block VABM, NPT

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Technical data – Manifold block, size 30

Dimensions

Supply manifold, mounting on both sides



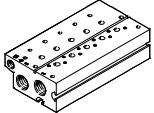
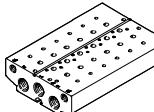
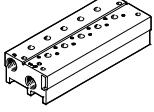
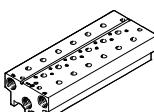
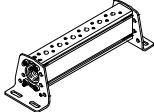
Type	B4	B17	B18	B19	B20	B21	D1 Ø	D2	D3 Ø	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-30-N34-...-P53	34	85	65	35	33.5	13	5.5	M5x11	8.6	65	2.5	19.5	9	34	32	26	10	28°

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

Manifold block VABM, NPT

Ordering data – Manifold block, size 30

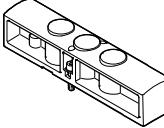
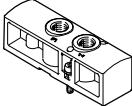
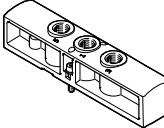
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Ordering data		Valve positions	Part No.	Type
Description				
Standard manifold block				
	For 3/2-way valves, incl. seals and screws for mounting valves - - Note Blanking plugs for sealing the supply ports (1, 3 and 14) at one end are included in the scope of delivery.	2 3 4 5 6 7 8 9 10	8026404 8026405 8026406 8026407 8026408 8026409 8026410 8026411 8026412	VABM-B10-30E-N34-2-P3 VABM-B10-30E-N34-3-P3 VABM-B10-30E-N34-4-P3 VABM-B10-30E-N34-5-P3 VABM-B10-30E-N34-6-P3 VABM-B10-30E-N34-7-P3 VABM-B10-30E-N34-8-P3 VABM-B10-30E-N34-9-P3 VABM-B10-30E-N34-10-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	8026368 8026369 8026370 8026371 8026372 8026373 8026374 8026375 8026376	VABM-B10-30E-N34-2 VABM-B10-30E-N34-3 VABM-B10-30E-N34-4 VABM-B10-30E-N34-5 VABM-B10-30E-N34-6 VABM-B10-30E-N34-7 VABM-B10-30E-N34-8 VABM-B10-30E-N34-9 VABM-B10-30E-N34-10
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	8026422 8026423 8026424 8026425 8026426 8026427 8026428 8026429 8026430	VABM-B10-30S-N12-2-P3 VABM-B10-30S-N12-3-P3 VABM-B10-30S-N12-4-P3 VABM-B10-30S-N12-5-P3 VABM-B10-30S-N12-6-P3 VABM-B10-30S-N12-7-P3 VABM-B10-30S-N12-8-P3 VABM-B10-30S-N12-9-P3 VABM-B10-30S-N12-10-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	8026386 8026387 8026388 8026389 8026390 8026391 8026392 8026393 8026394	VABM-B10-30S-N12-2 VABM-B10-30S-N12-3 VABM-B10-30S-N12-4 VABM-B10-30S-N12-5 VABM-B10-30S-N12-6 VABM-B10-30S-N12-7 VABM-B10-30S-N12-8 VABM-B10-30S-N12-9 VABM-B10-30S-N12-10
Supply manifold				
	For mounting on both sides, incl. seals and screws for mounting valves - - Note Blanking plug for sealing the supply port (1) at one end included in the scope of delivery.	2 3 4 5 6 7 8 9 10	8026347 8026348 8026349 8026350 8026351 8026352 8026353 8026354 8026355	VABM-B10-30-N34-2-P53 VABM-B10-30-N34-3-P53 VABM-B10-30-N34-4-P53 VABM-B10-30-N34-5-P53 VABM-B10-30-N34-6-P53 VABM-B10-30-N34-7-P53 VABM-B10-30-N34-8-P53 VABM-B10-30-N34-9-P53 VABM-B10-30-N34-10-P53

Manifold block VABM, NPT

FESTO

Accessories – Manifold block, size 30

Ordering data		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 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
	-  Note Supply plates are available only with G thread.			
	For valve position on manifold block for 5/2-, 5/3-way valves	167	8026434	VABF-B10-30-P1A4-G38
	-  Note Supply plates are available only with G thread.			
	For valve position on supply manifold	40	8026433	VABF-B10-30-P1-G38
	-  Note Supply plates are available only with G thread.			

Manifold block VABM, NPT

Accessories – Manifold block, size 30

FESTO

Ordering data		Description of NPT thread	Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread 1/8 NPT for tubing O.D.	1/4 "	572318	QB-1/8-1/4-I-U	10
	Connecting thread 1/2 NPT for tubing O.D.	1/2 "	572326	QB-1/2-1/2-I-U	10
Push-in fitting with external hex					
	Connecting thread 1/2 NPT for tubing O.D.	3/8 "	533283	QB-1/2-3/8-U	5
Angled push-in fitting with external hex					
	Connecting thread 1/2 NPT for tubing O.D.	3/8 "	533302	QBL-1/2-3/8-U	5
		1/2 "	533303	QBL-1/2-1/2-U	5
Barbed fitting with external hex					
	Connecting thread 3/4 NPT for tubing I.D. Aluminium design	19 mm	564848	N-3/4-P-19-NPT	1

1) Packaging unit

Ordering data		Description of G thread	Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread G3/8 for tubing O.D.	8 mm	186111	QS-G3/8-8-I	10
	- - Note Push-in fittings with G thread are for supply plates only.	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
	- - Note Push-in fittings with G thread are for supply plates only.	10 mm	132055	QSL-G3/8-8-50	50
		12 mm	186123	QSL-G3/8-10	10
			132056	QSL-G3/8-10-20	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
	- - Note Push-in fittings with G thread are for supply plates only.	10 mm	186134	QSLL-G3/8-10	10
		12 mm	186135	QSLL-G3/8-12	10

1) Packaging unit

Manifold block VABM, NPT

FESTO

Accessories – Manifold block, size 30

Ordering data		Description of NPT thread	Part No.	Type	PU ¹⁾
Silencers					
	With connecting thread NPT, metal design	1/2 NPT 3/4 NPT	12741 566823	U-1/2-B-NPT U-3/4-B-NPT	1 1
	With connecting thread NPT, sintered design, long	1/2 NPT	1206992	AMTE-M-LH-N12	10

1) Packaging unit

Ordering data		Description of G thread	Part No.	Type	PU ¹⁾
Silencers					
	With connecting thread G, polymer design	G3/8	534224	U-3/8-20	20
	-  - Note Silencers with G thread are for supply plates only.				
	With connecting thread G, plastic design	G3/8	6843	U-3/8-B	1
	-  - Note Silencers with G thread are for supply plates only.				
	With connecting thread G, sintered design, long	G3/8	1205862	AMTE-M-LH-G38	 10
	-  - Note Silencers with G thread are for supply plates only.				

1) Packaging unit

Manifold block VABM, NPT

Accessories – Manifold block, size 30

FESTO

Ordering data		Description	Part No.	Type	PU ¹⁾
Blanking plug					
	With connecting thread NPT	1/8 NPT 1/2 NPT 3/4 NPT	173985 31785 31786	B-1/8-NPT B-1/2-NPT B-3/4-NPT	1 1 1
	For creating pressure zones for port	G1/8 1/8 NPT G1/2 1/2 NPT G3/4 3/4 NPT	569995 8022483 8022484	VABD-8-B VABD-17.5-B VABD-22.7-B	1 1 1
	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