

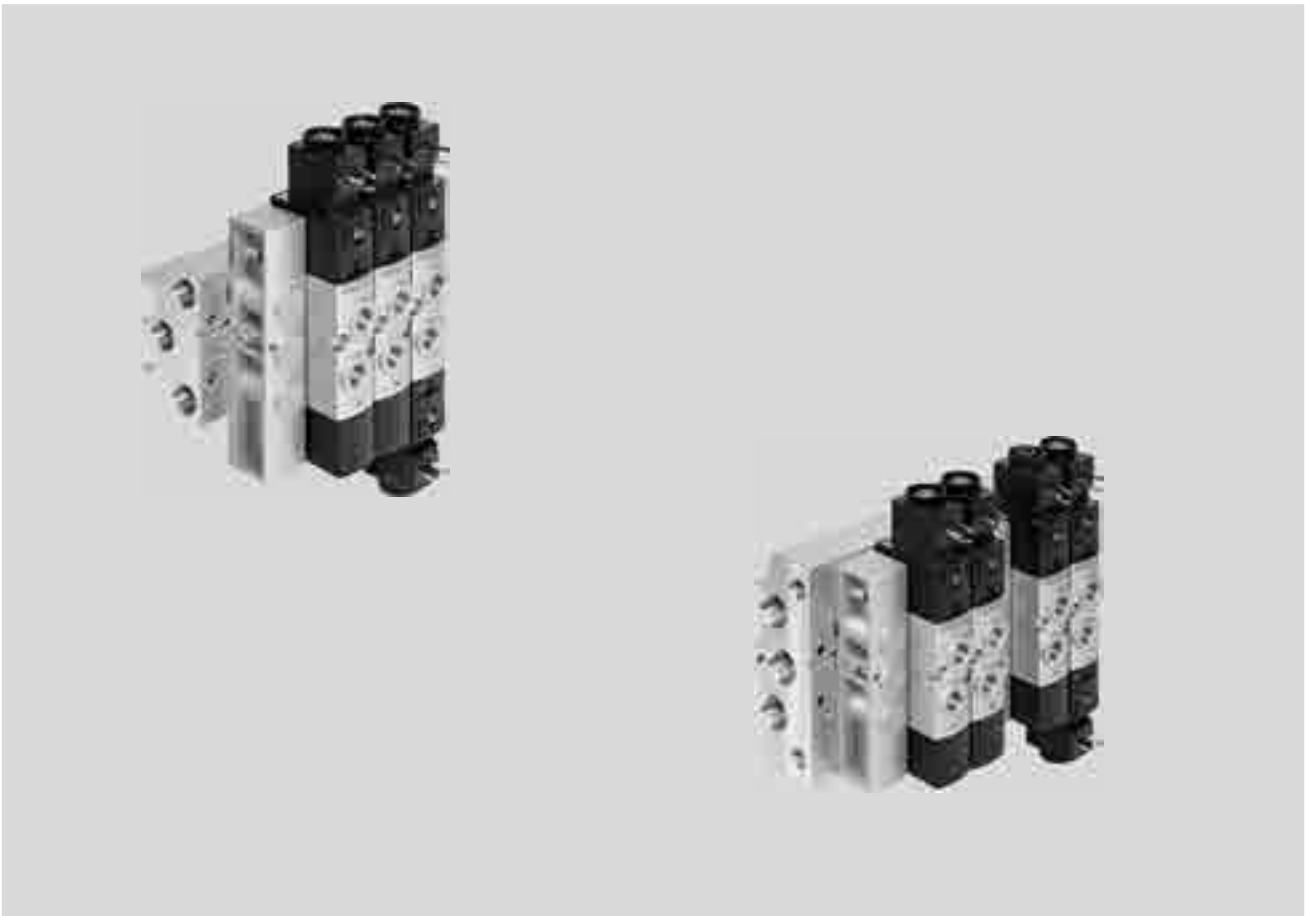
Solenoid valves VUVS/valve manifold VTUS, NPT



Solenoid valves VUVS/valve manifold VTUS, NPT

Key features

FESTO



Innovative

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

Versatile

- Operating voltage can be easily altered by changing the solenoid coil
- 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

Valve manifold selection

Configurator

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

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

Ordering system for valve manifold VTUS

➔ Internet: vtus

2D/3D CAD data

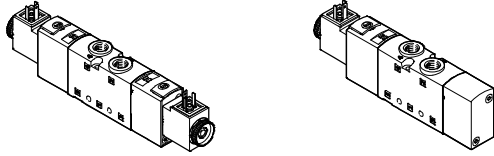
The CAD data for a configured valve manifold can be retrieved online using the configurator and downloaded.

Solenoid valves VUVS/valve manifold VTUS, NPT

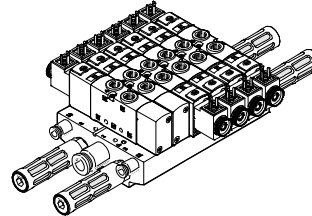
Key features

Solenoid valves VUVS

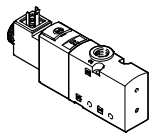
In-line valve VUVS as individual valve



Valve manifold VTUS



Equipment options



- 3/2-, 5/2- and 5/3-way valves, with or without solenoid coil
- Size 20 (21 mm), size 25 (26.5 mm) and size 30 (31 mm)

All valves are equipped with a piston spool and patented sealing system to facilitate efficient sealing, a broad pressure range and a long service life.

The operating voltage of the solenoid valves can be varied by changing the solenoid coil on the armature guide tube.

Valve functions

3/2-way valve, normal position open, single solenoid:

- Internal/external pilot air supply
- Reset via pneumatic/mechanical spring
- Direction of flow can be reversed in the case of external pilot air supply

3/2-way valve, normal position closed, single solenoid:

- Internal/external pilot air supply
- Reset via pneumatic/mechanical spring
- Direction of flow can be reversed in the case of external pilot air supply

5/2-way valve, single solenoid:

- Internal/external pilot air supply
 - Reset via pneumatic/mechanical spring
 - Direction of flow can be reversed in the case of external pilot air supply
- 5/2-way valve, double solenoid:
- Internal/external pilot air supply
 - Direction of flow can be reversed in the case of external pilot air supply

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

- Internal/external pilot air supply
- Reset via mechanical spring
- Direction of flow can be reversed in the case of external pilot air supply

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
- 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

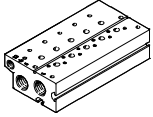
pneumatic installation remain unchanged.

Solenoid valves VUVS/valve manifold VTUS, NPT

Key features

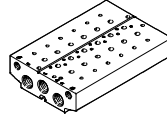
Standard manifold block

For 3/2-way valves



- Connection
Size 20: 3/8 NPT
Size 25: 1/2 NPT
Size 30: 3/4 NPT
- For valves with external pilot air supply
- Maximum 10 valve positions

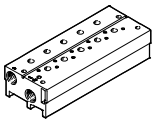
For 5/2- and 5/3-way valves



- Connection
Size 20: 3/8 NPT
Size 25: 1/2 NPT
Size 30: 3/4 NPT
- For valves with external pilot air supply
- Maximum 10 valve positions

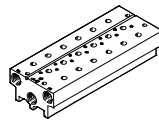
Compact manifold block

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

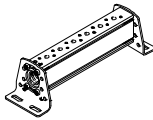
For 5/2- and 5/3-way valves



- 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



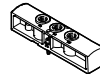
- Connection
Size 20: 3/8 NPT
Size 25: 1/2 NPT
Size 30: 3/4 NPT
- Maximum 10 valve positions

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 the 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).

Solenoid valves VUVS/valve manifold VTUS, NPT

Key features – Pneumatics


Creating pressure zones and separating exhaust air

Compressed air is supplied and exhausted via the manifold block/supply manifold and via supply plates. The position of the supply plates and duct separations can be freely selected with the VTUS.

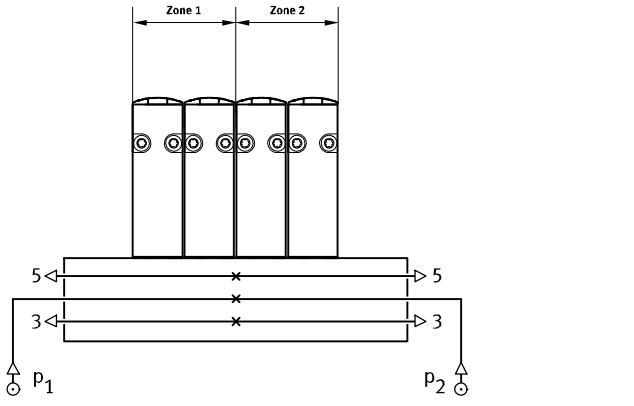
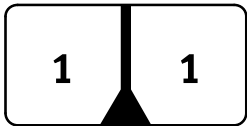
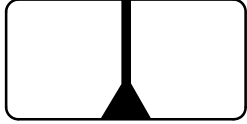
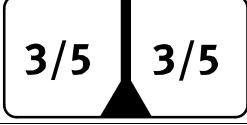
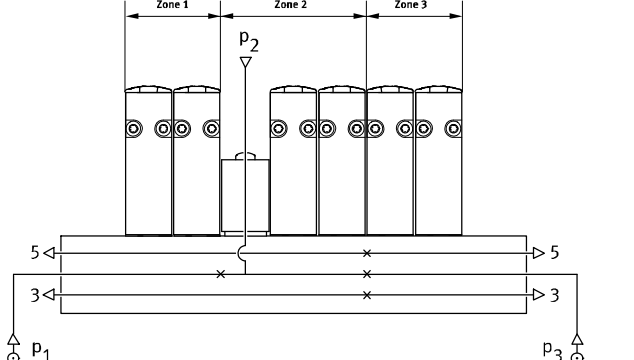
A pressure zone is created by isolating the internal ducts between the valve positions using an appropriate separator.

The separator can be used in the following ducts:

- Duct 1
- Duct 3
- Duct 5

 Note

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

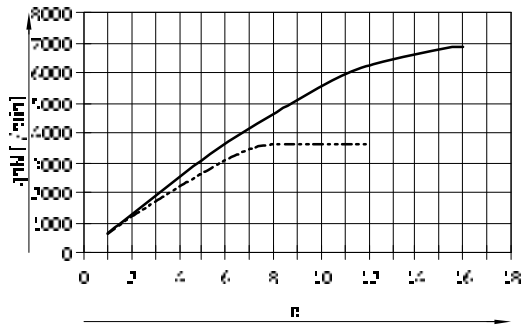
Duct separation	Description
	<p>The pressure zones can be freely configured with the VTUS. The following duct separations are possible:</p> <ul style="list-style-type: none"> • Duct 1 closed  • Duct 1/3/5 closed  • Duct 3/5 closed 
	<p>The number of pressure zones with the VTUS is limited by the number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

Solenoid valves VUVS/valve manifold VTUS, NPT

Key features – Pneumatics

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

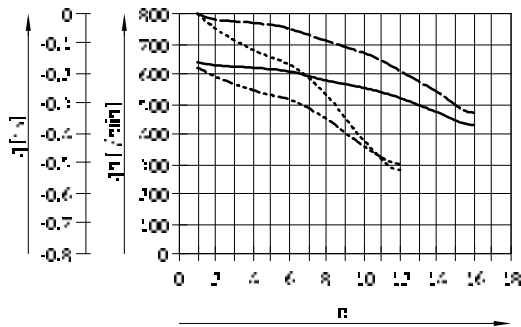
For 3/2-way valves, valve manifold



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

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

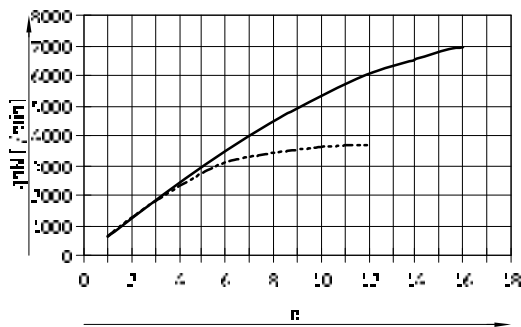
For 3/2-way valves, individual valve



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

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

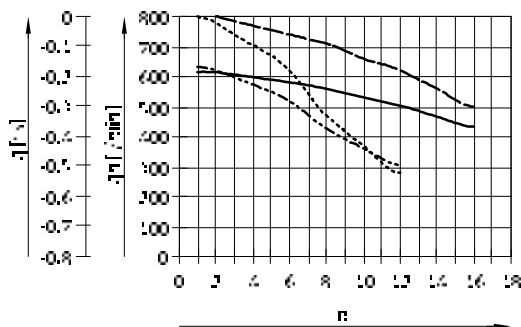
For 5/2-way valves, valve manifold



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

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

For 5/2-way valves, individual valve



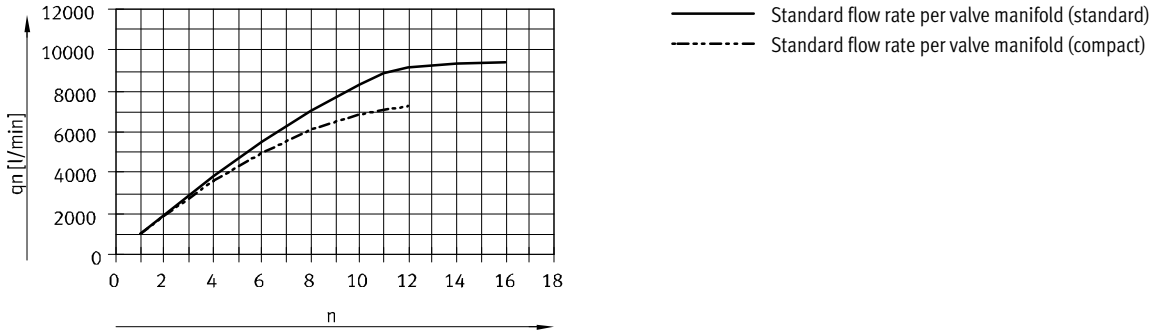
- Standard flow rate per valve (standard)
- - - Standard flow rate q_n per valve (compact)
- · - Loss of flow (standard)
- · · Loss of flow (compact)

Solenoid valves VUVS/valve manifold VTUS, NPT

Key features – Pneumatics

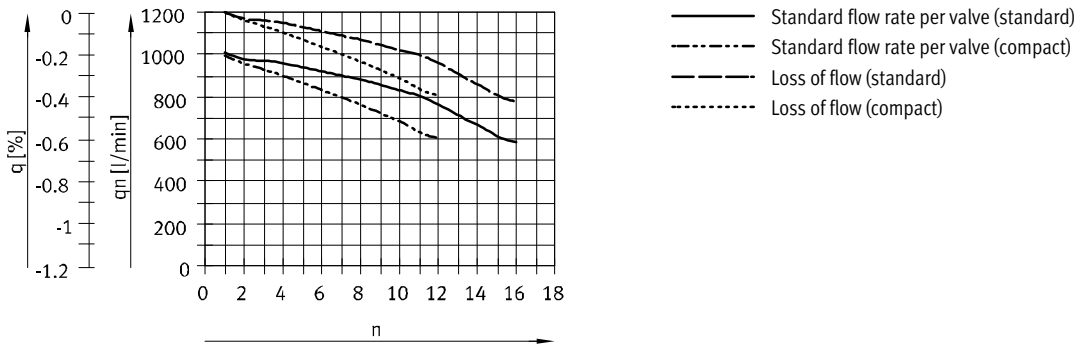
Standard nominal flow rate q_n , with several valves n switched in parallel, size 25

For 3/2-way valves, valve manifold



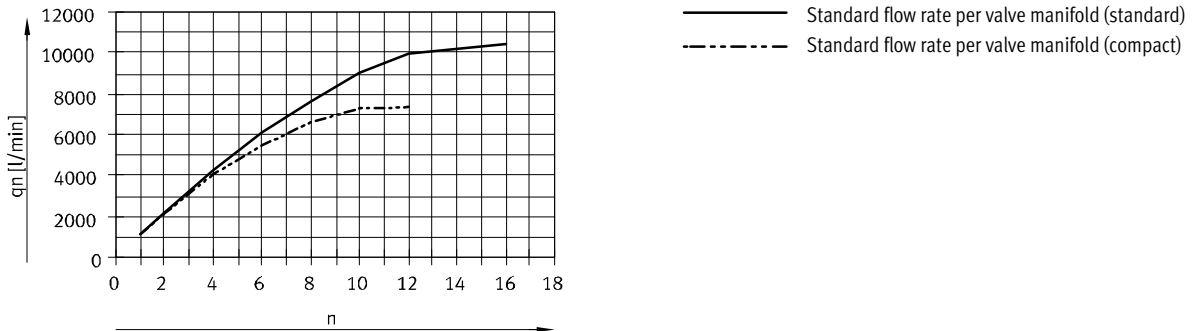
Standard nominal flow rate q_n , with several valves n switched in parallel, size 25

For 3/2-way valves, individual valve



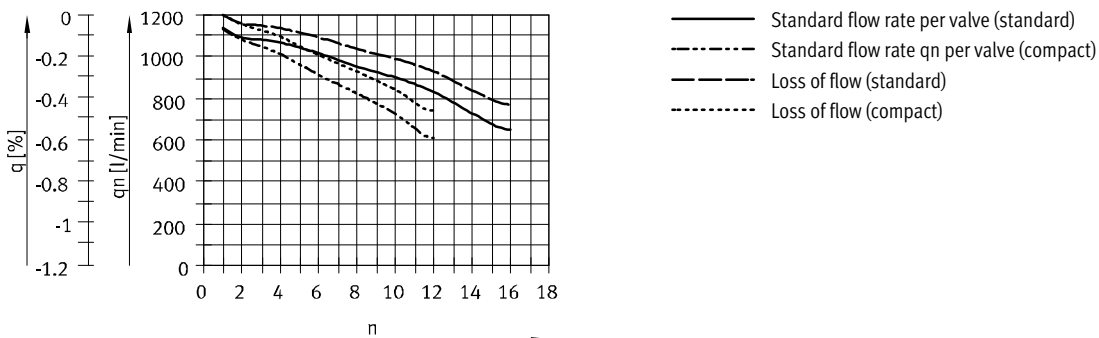
Standard nominal flow rate q_n , with several valves n switched in parallel, size 25

For 5/2-way valves, valve manifold



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

For 5/2-way valves, individual valve

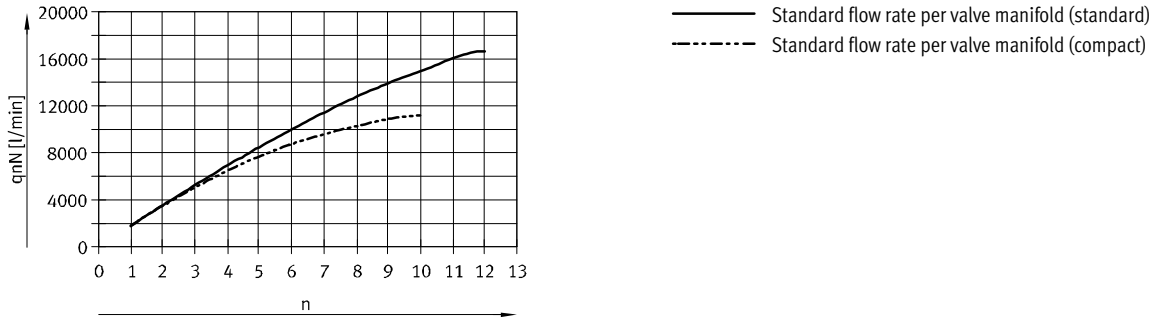


Solenoid valves VUVS/valve manifold VTUS

Key features – Pneumatics

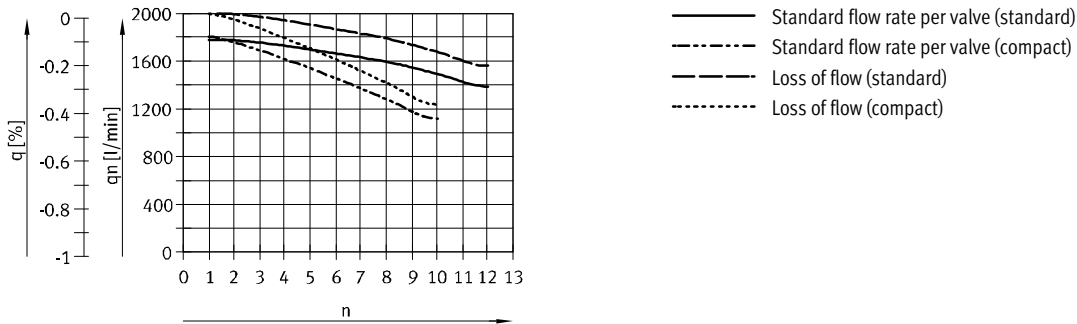
Standard nominal flow rate q_{nN} , with several valves n switched in parallel, size 30

For 3/2-way valves, valve manifold



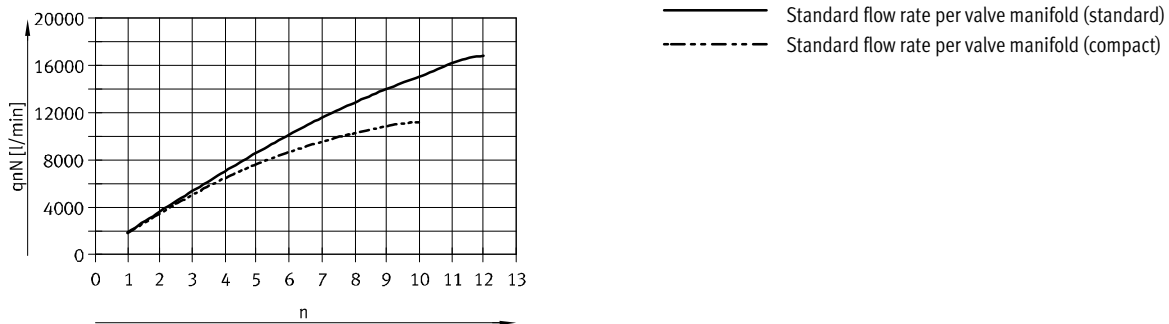
Standard nominal flow rate q_n , with several valves n switched in parallel, size 30

For 3/2-way valves, individual valve



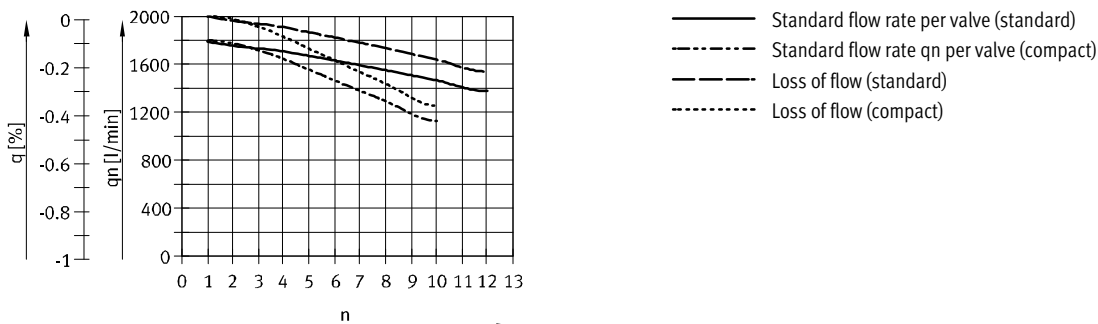
Standard nominal flow rate q_{nN} , with several valves n switched in parallel, size 30

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



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

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




Solenoid valves VUVS/valve manifold VTUS, NPT

Key features – Pneumatics

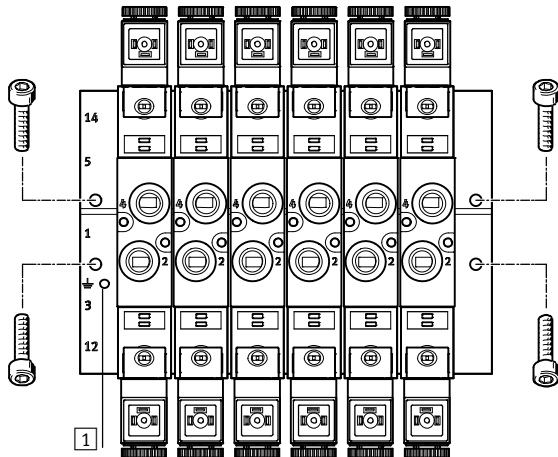
Mounting valve manifold VTUS

Sturdy valve manifold owing to:

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

 - Note
Use the thread M4/M5 provided on the manifold block for earthing the valve manifold.

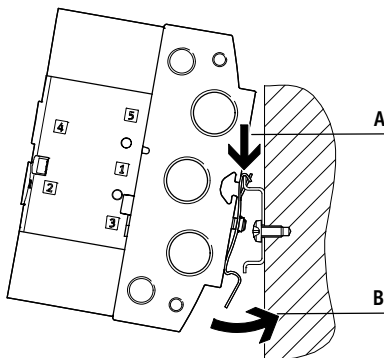
Wall mounting



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

 - Note

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

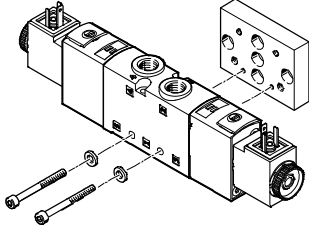
Solenoid valves VUVS/valve manifold VTUS, NPT

Key features – Assembly

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Mounting individual valve VUVS

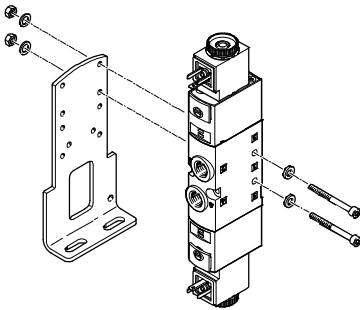
Wall mounting



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

The relevant screw set is included when the wall mounting VAME-B10-20-W is ordered.
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 solenoid valves are provided with two through-holes for attaching to the foot mounting VAME-B10-...-A.

The relevant screw set is included when the foot mounting VAME-B10-...-A is ordered.

Note

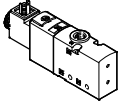
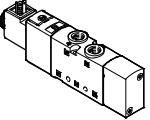
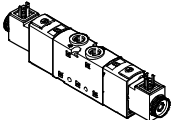
Further mounting options for foot mounting VAME-B10-...

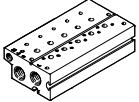
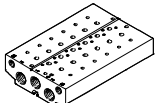
➔ [Technical data – Solenoid valves, dimensions](#)

Solenoid valves VUVS, NPT

Product range overview

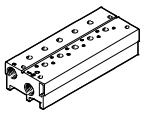
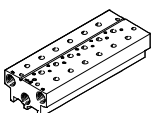
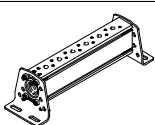
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Valve	Size	Working port	Order code for valves and flow rate [l/min]							→ Page/ Internet
			M32C	M32U	M52	B52	P53C	P53U	P53E	
3/2-way valve										
	20	1/8 NPT	■ 700	■ 700	-	-	-	-	-	31
	25	1/4 NPT	■ 1000	■ 1000	-	-	-	-	-	41
	30	3/8 NPT	■ 2300	■ 2300	-	-	-	-	-	51
5/2-way valve										
	20	1/8 NPT	-	-	■ 700	■ 700	-	-	-	31
	25	1/4 NPT	-	-	■ 1300	■ 1300	-	-	-	41
	30	3/8 NPT	-	-	■ 2300	■ 2300	-	-	-	51
5/3-way valve										
	20	1/8 NPT	-	-	-	-	■ 700	■ 600	■ 600	31
	25	1/4 NPT	-	-	-	-	■ 1200	■ 1000	■ 1000	41
	30	3/8 NPT	-	-	-	-	■ 2000	■ 1600	■ 1600	51

Design	Size	Description	→ Page/ Internet	
Manifold block for 3/2-way valves, standard				
	20	VABM-B10-20E-N38- ... P3	Connection 3/8 NPT	62
	25	VABM-B10-25E-N12- ... P3	Connection 1/2 NPT	71
	30	VABM-B10-30E-N34- ... P3	Connection 3/4 NPT	81
Manifold block for 5/2- and 5/3-way valves, standard				
	20	VABM-B10-20E-N38- ...	Connection 3/8 NPT	62
	25	VABM-B10-25E-N12- ...	Connection 1/2 NPT	71
	30	VABM-B10-30E-N34- ...	Connection 3/4 NPT	81

Solenoid valves VUVS, NPT

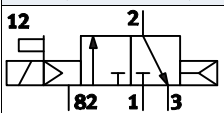
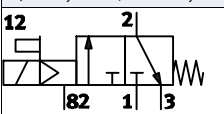
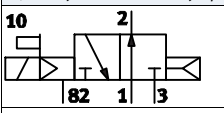
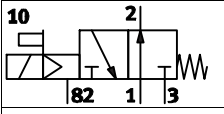
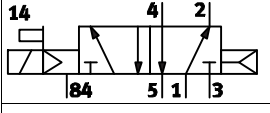
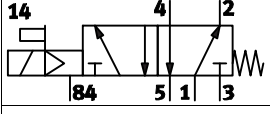
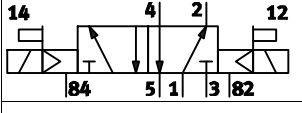
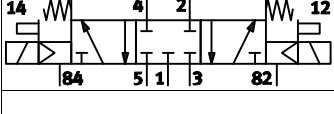
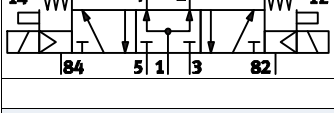
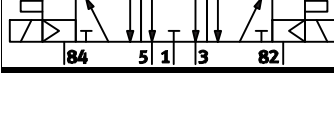
Product range overview

Design	Size	Description	→ Page/ Internet	
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	20	VABM-B10-20S-N14- ... P3	Connection 1/4 NPT	62
	25	VABM-B10-25S-N38- ... P3	Connection 3/8 NPT	71
	30	VABM-B10-30S-N12- ... P3	Connection 1/2 NPT	81
Manifold block for 5/2- and 5/3-way valves, compact				
	20	VABM-B10-20S-N14- ...	Connection 1/4 NPT	62
	25	VABM-B10-25S-N38- ...	Connection 3/8 NPT	71
	30	VABM-B10-30S-N12- ...	Connection 1/2 NPT	81
Supply manifold, for mounting on both sides				
	20	VABM-B10-20-N38- ... -P53	Connection 3/8 NPT	62
	25	VABM-B10-25-N12- ... -P53	Connection 1/2 NPT	71
	30	VABM-B10-30-N34- ... -P53	Connection 3/4 NPT	81

Solenoid valves VUVS, NPT

Overview of valve functions

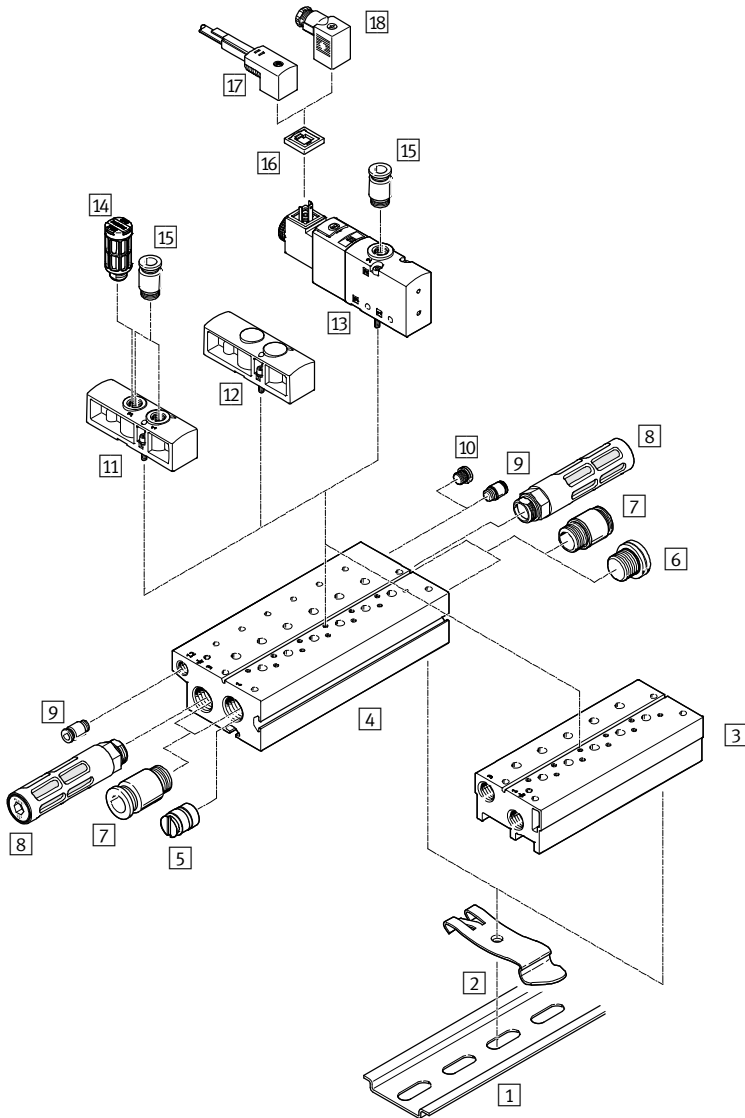
FESTO

Valve	Order code for valves	Description	Size		
			20	25	30
3/2-way valve, normally closed, pneumatic spring					
	M32C	Internal pilot air supply, not reversible	■	■	■
3/2-way valve, normally closed, mechanical spring					
	M32C	Internal pilot air supply, not reversible	■	■	■
3/2-way valve, normally open, pneumatic spring					
	M32U	Internal pilot air supply, not reversible	■	■	■
3/2-way valve, normally open, mechanical spring					
	M32U	Internal pilot air supply, not reversible	■	■	■
5/2-way valve, single solenoid, pneumatic spring					
	M52	Internal pilot air supply, not reversible	■	■	■
5/2-way valve, single solenoid, mechanical spring					
	M52	Internal pilot air supply, not reversible	■	■	■
5/2-way valve, double solenoid					
	B52	Internal pilot air supply, not reversible	■	■	■
5/3-way valve, mechanical spring, closed					
	P53C	Internal pilot air supply, not reversible	■	■	■
5/3-way valve, mechanical spring, pressurised					
	P53U	Internal pilot air supply, not reversible	■	■	■
5/3-way valve, mechanical spring, exhausted					
	P53E	Internal pilot air supply, not reversible	■	■	■

Solenoid valves VUVS/valve manifold VTUS, NPT

Peripherals overview

Manifold block for 3/2-way valves



Solenoid valves VUVS/valve manifold VTUS, NPT

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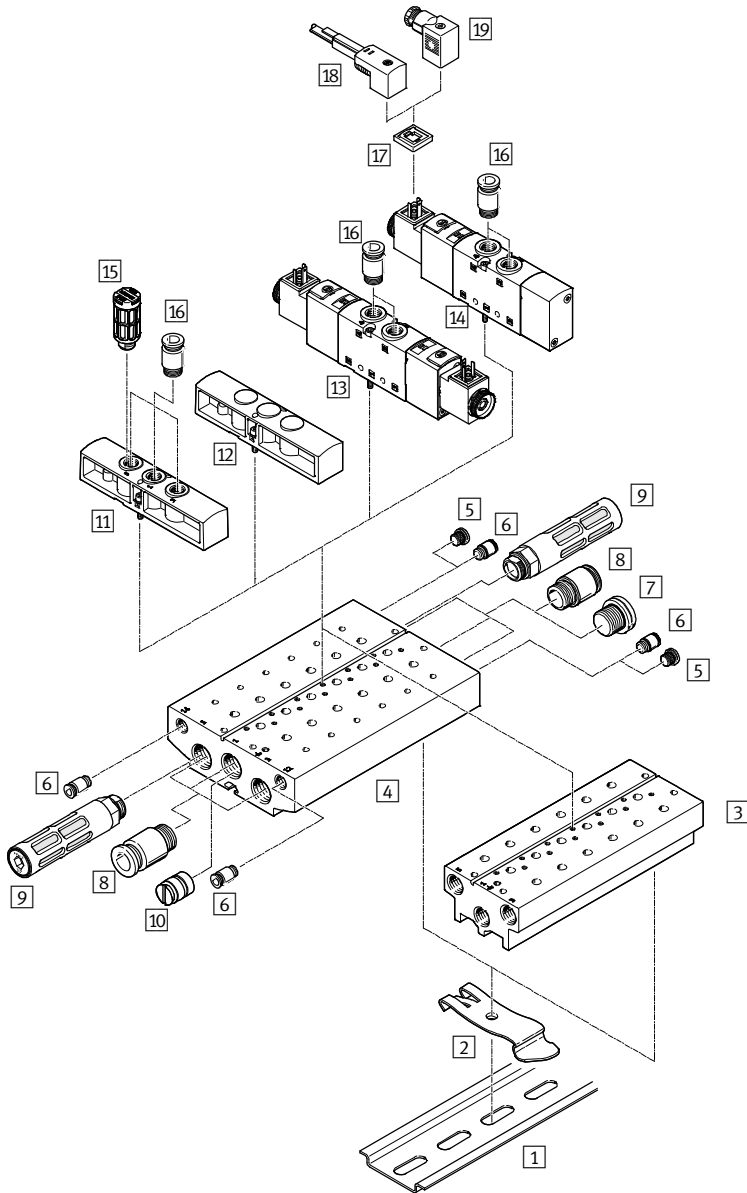
Peripherals overview

Name designation	Brief description	→ Page/Internet
1 H-rail	Mounting rail to EN 60715	–
2 H-rail mounting	For H-rail mounting	70/80/89
3 Compact manifold block	For 3/2-way valves, no port for external pilot air supply	67/77/86
4 Standard manifold block	For 3/2-way valves, with port 10/12 for external pilot air supply	67/77/86
5 Separator	For creating pressure zones in ports 1 and 3	70/80/89
6 Blanking plug	For ports 1 and 3, supply and exhaust ports	70/80/89
7 Push-in fitting	For ports 1 and 3, supply and exhaust ports	69/79/88
8 Silencer	For port 3, exhaust	70/80/89
9 Push-in fitting	For port 10/12, external pilot air supply, for standard manifold block only	69/79/88
10 Blanking plug	For port 10/12, external pilot air supply, for standard manifold block only	70/80/89
11 Supply plate	For additional air supply and exhaust via a valve position	68/78/87
12 Blanking plate	For covering unused valve positions	68/78/87
13 Solenoid valve	3/2-way valve (without solenoid coil)	38/48/58
14 Silencer	For port 3, exhaust	70/80/89
15 Push-in fitting	For ports 1 and 3, supply and exhaust ports with supply plate For port 2, working port, on the valve	69/79/88
16 Illuminating seal	For indicating the switching status	39/49/59
17 Plug socket with cable	For solenoid valves VUVS, type C, to DIN EN 175301-803	39/49/59
18 Plug socket	For solenoid valves VUVS, type C, to DIN EN 175301-803	39/49/59

Solenoid valves VUVS/valve manifold VTUS, NPT

Peripherals overview

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



Solenoid valves VUVS/valve manifold VTUS, NPT

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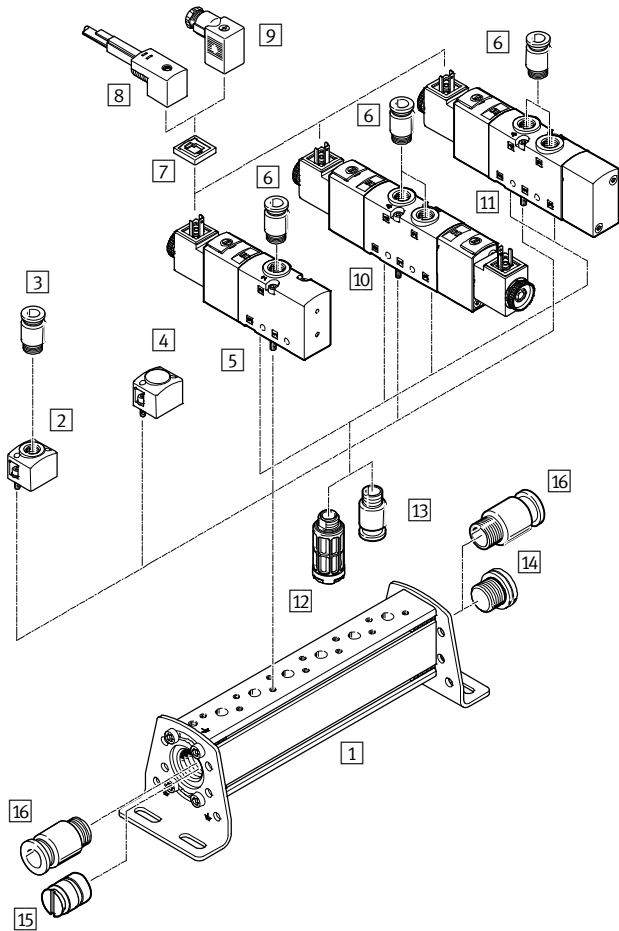
Peripherals overview

Name designation	Brief description	→ Page/Internet
1 H-rail	Mounting rail to EN 60715	–
2 H-rail mounting	For H-rail mounting	70/80/89
3 Compact manifold block	For 5/2- and 5/3-way valves, no port for external pilot air supply	67/77/86
4 Standard manifold block	For 5/2- and 5/3-way valves, with ports 12 and 14 for external pilot air supply	67/77/86
5 Blanking plug	For ports 12 and 14, external pilot air supply, for standard manifold block only	70/80/89
6 Push-in fitting	For ports 12 and 14, external pilot air supply, for standard manifold block only	69/79/88
7 Blanking plug	For ports 1, 3 and 5, supply and exhaust ports	70/80/89
8 Push-in fitting	For ports 1, 3 and 5, supply and exhaust ports	69/79/88
9 Silencer	For ports 3 and 5, exhaust	70/80/89
10 Separator	For creating pressure zones in ports 1, 3 and 5	70/80/89
11 Supply plate	For additional air supply and exhaust via a valve position	68/78/87
12 Blanking plate	For covering unused valve positions	68/78/87
13 Solenoid valve	5/3-way valve and 5/2-way valve, double solenoid (without solenoid coil)	38/48/58
14 Solenoid valve	5/2-way valve, single solenoid (without solenoid coil)	38/48/58
15 Silencer	For ports 3 and 5, exhaust	70/80/89
16 Push-in fitting	For ports 1, 3 and 5, supply and exhaust ports with supply plate For ports 2 and 4, working port, on the valve	69/79/88
17 Illuminating seal	For indicating the switching status	39/49/59
18 Plug socket with cable	For solenoid valves VUVS, type C, to DIN EN 175301-803	39/49/59
19 Plug socket	For solenoid valves VUVS, type C, to DIN EN 175301-803	39/49/59

Solenoid valves VUVS/valve manifold VTUS, NPT

Peripherals overview


Supply manifold for mounting on both sides




Name designation	Brief description	→ Page/Internet
1 Supply manifold	For mounting on both sides Mounting bracket can be adjusted through $\pm 30^\circ$	67/77/86
2 Supply plate	For additional air supply via a valve position	68/78/87
3 Push-in fitting	For port 1	69/79/88
4 Blanking plate	For covering unused valve positions	68/78/87
5 Solenoid valve	3/2-way valve (without solenoid coil)	38/48/58
6 Push-in fitting	For ports 2, 4, working port	69/79/88
7 Illuminating seal	For indicating the switching status	39/49/59
8 Plug socket with cable	For solenoid valves VUVS, type C, to DIN EN 175301-803	39/49/59
9 Plug socket	For solenoid valves VUVS, type C, to DIN EN 175301-803	39/49/59
10 Solenoid valve	5/3-way valve and 5/2-way valve, double solenoid (without solenoid coil)	38/48/58
11 Solenoid valve	5/2-way valve, single solenoid (without solenoid coil)	38/48/58
12 Silencer	For ports 3 and 5, exhaust, on the valve	70/80/89
13 Push-in fitting	For ports 3 and 5, exhaust, on the valve	69/79/88
14 Blanking plug	For port 1, supply port	70/80/89
15 Separator	For creating pressure zones	70/80/89
16 Push-in fitting	For port 1, supply port	69/79/88

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		20	25	30
Size		20	25	30
Valve manifold configuration		Fixed grid		
Valve width	[mm]	21	26.5	31
Valve design		Piston spool		
Electrical control		Individual connection		
Reset method for valves		Pneumatic or mechanical spring		
Pilot air supply		Internal or external		
Direction of flow		Reversible with restrictions		
Suitability for vacuum		Yes		
Sealing principle		Soft		
Max. no. of valve positions		16 (a max. 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		Electrical		
Nominal operating voltage	[V DC]	12, 24		
	[V AC]	24, 110, 120, 230, 240		
Standard nominal flow rate	[qnN]	600 ... 700	1000 ... 1300	1600 ... 2300
Pilot air connection	Standard manifold block	12/14	1/8 NPT	1/8 NPT
	Compact manifold block	12/14	On the valve	On the valve
	Supply manifold	12/14	On the valve	On the valve
Pilot exhaust air port	82/84	UNF10/32		
Mounting position		Any		
Degree of protection		IP65, IP67		
		With plug socket, to IEC 60529		
Permissible voltage fluctuations	[%]	± 10		
CRC ¹⁾		2 ¹⁾		
Note on materials		RoHS compliant		
Information on materials: seals		HNBR, NBR		

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

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

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

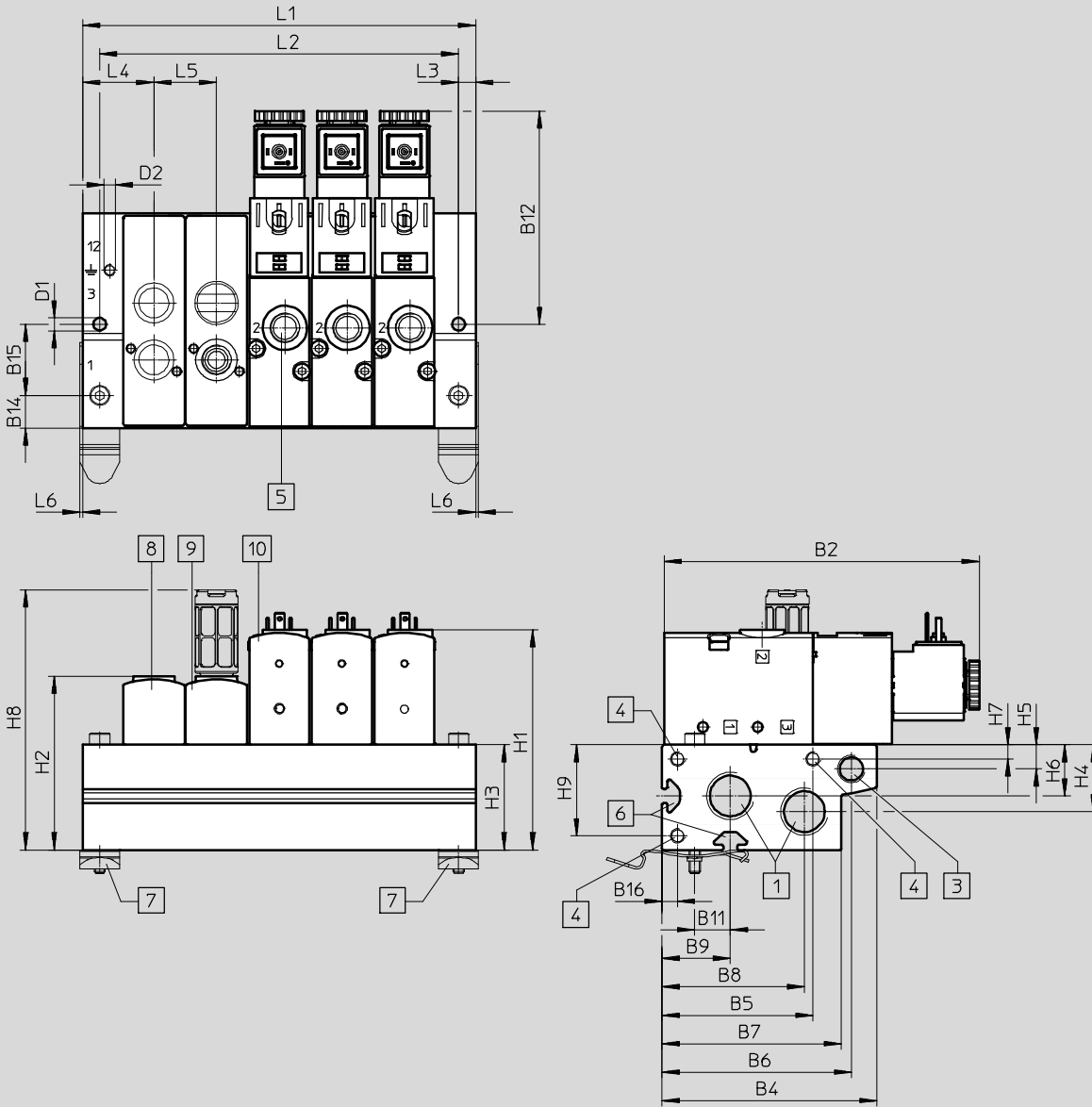
Valve manifold VTUS, NPT

Technical data – Valve manifold

Dimensions – Valve manifold

Download CAD data → www.festo.com

With 3/2-way valves, standard manifold block



- | | | | |
|---|--|---|--|
| <p>1 Ports 1 and 3
(at both ends):
3/8 NPT for VTUS-20
1/2 NPT for VTUS-25
3/4 NPT for VTUS-30</p> <p>3 Port 12 (at both ends): 1/8 NPT
for VTUS-20
1/8 NPT for VTUS-25
1/8 NPT for VTUS-30</p> | <p>4 Thread for extension module:
M5x15.5 for VTUS-20
M5x18 for VTUS-25
M5x18 for VTUS-30</p> <p>5 Port 2:
1/8 NPT for VTUS-20
1/4 NPT for VTUS-25
3/8 NPT for VTUS-30</p> | <p>6 Profile slot IPM-05 system 5 for
VTUS-20 and VTUS-25, profile
slot IPM-08 system 8 for
VTUS-30</p> <p>7 H-rail mounting VAME-T-M4 for
VTUS-20
VAME-T-M5 for VTUS-25
VAME-T-M6 for VTUS-30</p> <p>8 Blanking plate</p> | <p>9 Supply plate,
ports 1 and 3:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30</p> <p>10 3/2-way valve</p> |
|---|--|---|--|

Valve manifold VTUS, NPT

Technical data – Valve manifold

Type	B2	B4	B5	B6	B7	B8	B9	B11	B12	B14	B15	B16
VTUS-20	110.7	75.5	53	66.5	63	50	24	12.5	75	11.5	25	5.5
VTUS-25	129.2	93	67.5	80.5	78	62	30	16	84.2	14	32	6
VTUS-30	144.9	108.2	79	93.2	94.7	75.7	36.2	19	91.2	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	4.5	M5x11	118	91	61	35	9	28.5	6.5	170.1	54.5	7.5	34	32	–

Type	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

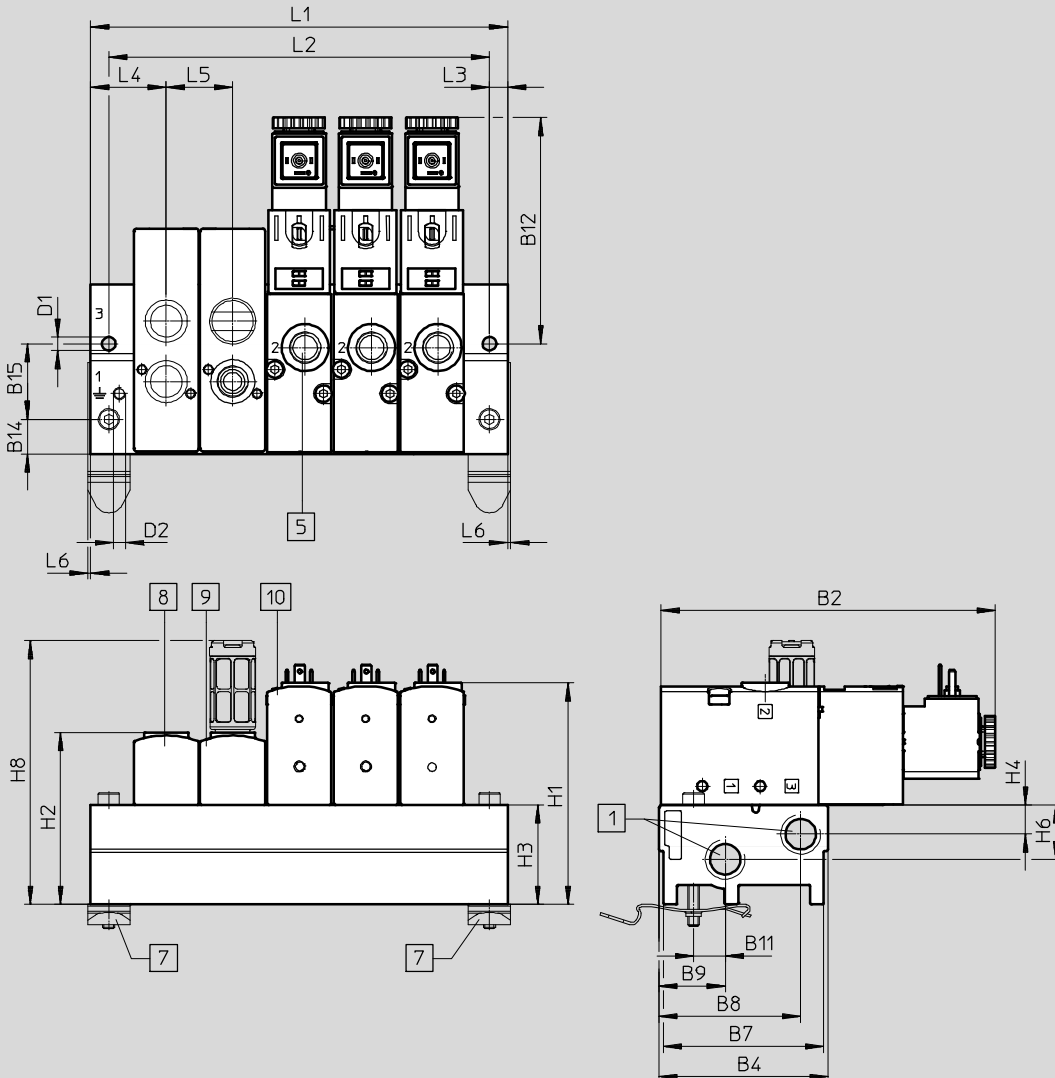
Valve manifold VTUS, NPT

Technical data – Valve manifold

Dimensions – Valve manifold

Download CAD data → www.festo.com

With 3/2-way valves, compact manifold block



1 Ports 1 and 3
(at both ends):
1/4 NPT for VTUS-20
3/8 NPT for VTUS-25
1/2 NPT for VTUS-30

5 Port 2:
1/8 NPT for VTUS-20
1/4 NPT for VTUS-25
3/8 NPT for VTUS-30

7 H-rail mounting VAME-T-M4 for
VTUS-20
VAME-T-M5 for VTUS-25
VAME-T-M6 for VTUS-30
8 Blanking plate

9 Supply plate,
ports 1 and 3:
G1/8 for VTUS-20
G3/8 for VTUS-30
10 3/2-way valve

Valve manifold VTUS, NPT

Technical data – Valve manifold

Type	B2	B4	B7	B8	B9	B11	B12	B14	B15
VTUS-20	110.7	56.1	53.1	47	22	10.5	75	11.5	25
VTUS-25	129.2	70.3	67.3	58.8	30	16	84	14	32
VTUS-30	144.9	83	80	69.4	36	19	91.2	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	–

Type	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

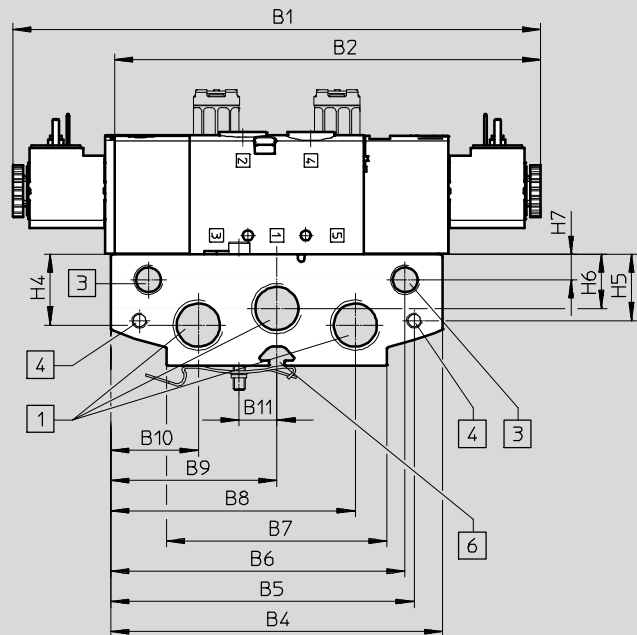
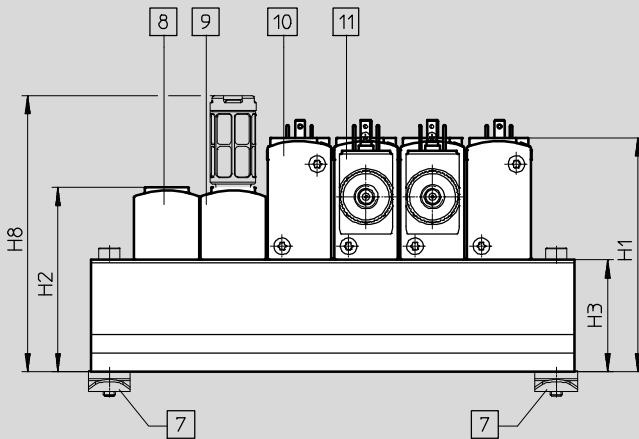
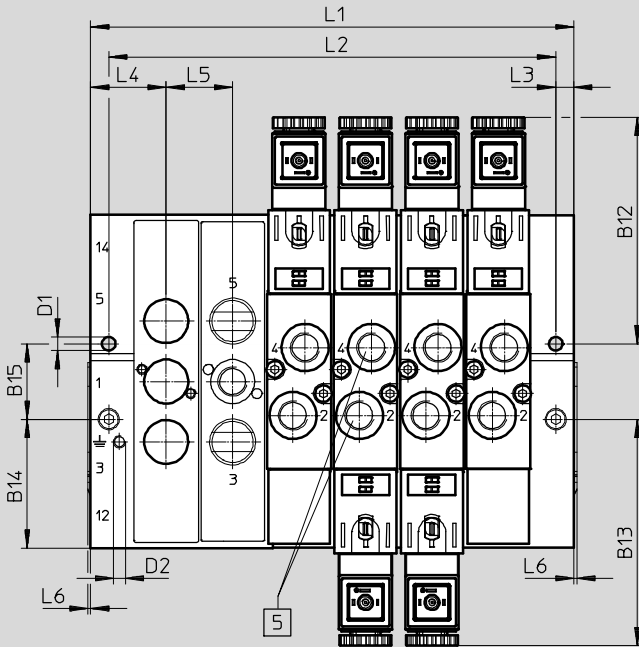
Valve manifold VTUS, NPT

Technical data – Valve manifold

Dimensions – Valve manifold

Download CAD data → www.festo.com

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



- 1** Ports 1, 3 and 5
(at both ends):
3/8 NPT for VTUS-20
1/2 NPT for VTUS-25
3/4 NPT for VTUS-30
- 3** Ports 12 and 14
(at both ends):
1/8 NPT for VTUS-20
1/8 NPT for VTUS-25
1/8 NPT for VTUS-30

- 4** Thread for extension module:
M5x15.5 for VTUS-20
M5x18 for VTUS-25
M5x18 for VTUS-30
- 5** Ports 2 and 4:
1/8 NPT for VTUS-20
1/4 NPT for VTUS-25
3/8 NPT for VTUS-30
- 6** Profile slot IPM-08 system 8

- 7** H-rail mounting VAME-T-M4 for VTUS-20
VAME-T-M5 for VTUS-25
VAME-T-M6 for VTUS-30
- 8** Blanking plate
- 9** Supply plate, ports 1, 3 and 5:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30

- 10** 5/2-way valve, single solenoid
- 11** 5/2-way valve, double solenoid, or 5/3-way valve

Valve manifold VTUS, NPT

Technical data – Valve manifold

Type	B1	B2	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15
VTUS-20	174.9	141.2	110	100.5	97.5	73	81	55	29	12.5	75	75	42.5	25
VTUS-25	200.3	162.2	126	119	113.5	80	95	63	31	16	84.2	84.2	47	32
VTUS-30	220.3	180.7	144	137	129	104	111.5	72	32.5	19	91.2	91.2	38	25

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	–

Type	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

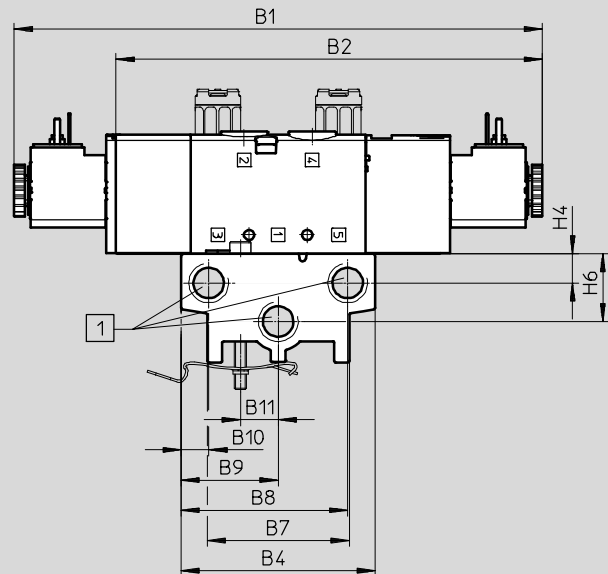
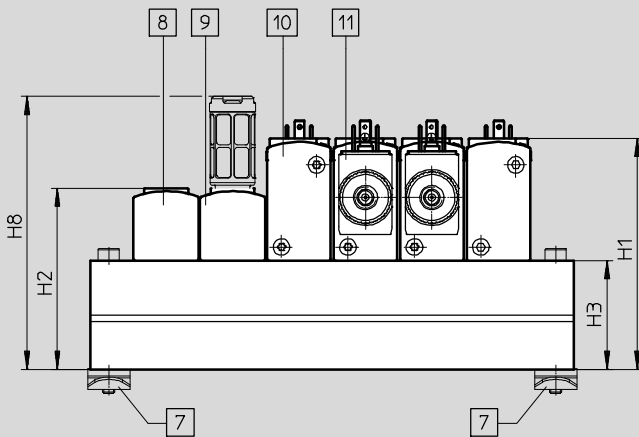
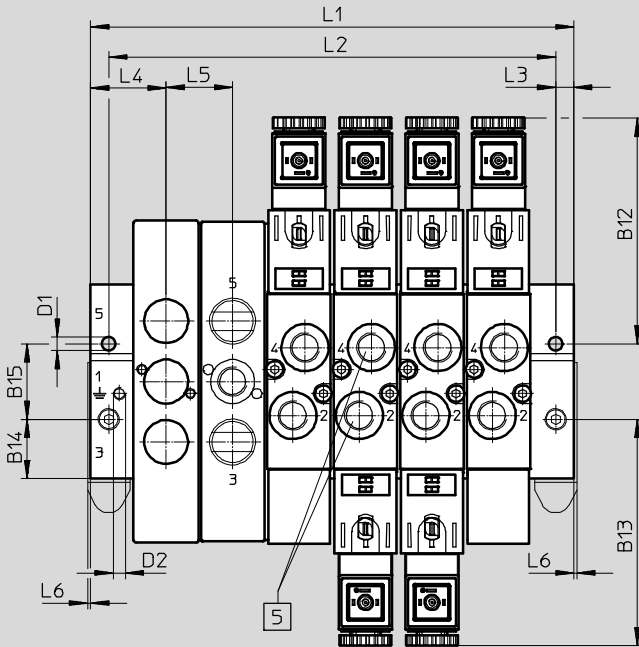
Valve manifold VTUS, NPT

Technical data – Valve manifold

Dimensions – Valve manifold

Download CAD data → www.festo.com

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



- 1 Ports 1, 3 and 5:
1/4 NPT for VTUS-20
3/8 NPT for VTUS-25
1/2 NPT for VTUS-30

- 5 Ports 2 and 4:
1/8 NPT for VTUS-20
1/4 NPT for VTUS-25
3/8 NPT for VTUS-30

- 7 H-rail mounting VAME-T-M4 for VTUS-20
VAME-T-M5 for VTUS-25
VAME-T-M6 for VTUS-30

- 8 Blanking plate

- 9 Supply plate, ports 1, 3 and 5:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30

- 10 5/2-way valve, single solenoid
- 11 5/2-way valve, double solenoid, or 5/3-way valve

Valve manifold VTUS, NPT

Technical data – Valve manifold

Type	B1	B2	B4	B7	B8	B9	B10	B11	B12	B13	B14	B15
VTUS-20	174.9	141.2	64.2	47	55.1	32.1	9.1	12.5	75	75	19.6	25
VTUS-25	200.3	162.2	80.5	61.5	69	40.3	11.5	16	84.2	84.2	24.3	32
VTUS-30	220.3	180.7	94	77	80.4	47	13.6	19	91.2	91.2	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	112.4	6	29.8	27.5	1
VTUS-30	6.3	M5x11	99.5	72.5	42.5	17.5	26	151.6	7.5	34	32	–

Type	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

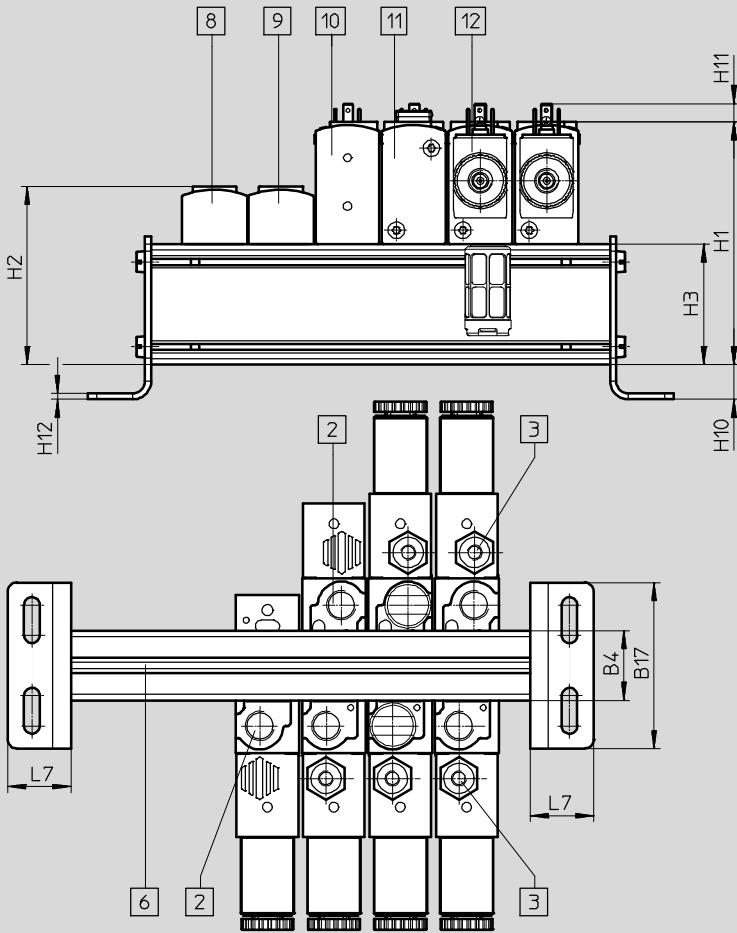
Valve manifold VTUS, NPT

Technical data – Valve manifold

Dimensions – Supply manifold

Download CAD data → www.festo.com

Mounting on both sides



- | | | | |
|--|--|---|--|
| <p>2 Ports 3 and 5:
1/8 NPT for VTUS-20
1/4 NPT for VTUS-25
3/4 NPT for VTUS-30</p> | <p>3 Port 12/14:
UNF 10/32 for VTUS-20
UNF 10/32 for VTUS-25
1/8 NPT for VTUS-30</p> <p>6 Profile slot IPM-08 system 8</p> | <p>8 Blanking plate</p> <p>9 Supply plate,
port 1:
G1/8 for VTUS-20
G1/4 for VTUS-25
G3/8 for VTUS-30</p> | <p>10 3/2-way valve</p> <p>11 5/2-way valve, single solenoid</p> <p>12 5/2-way valve, double solenoid, or 5/3-way valve</p> |
|--|--|---|--|

Type	B4	B17	H1	H2	H3	H10	H11	H12	L7
VTUS-20	23	55	80.4	59	40	11.5	6.3	2	21
VTUS-25	28.7	75	102.5	78	52	18	6.7	2	24
VTUS-30	34	85	122	95	65	17.5	6.7	2.5	26

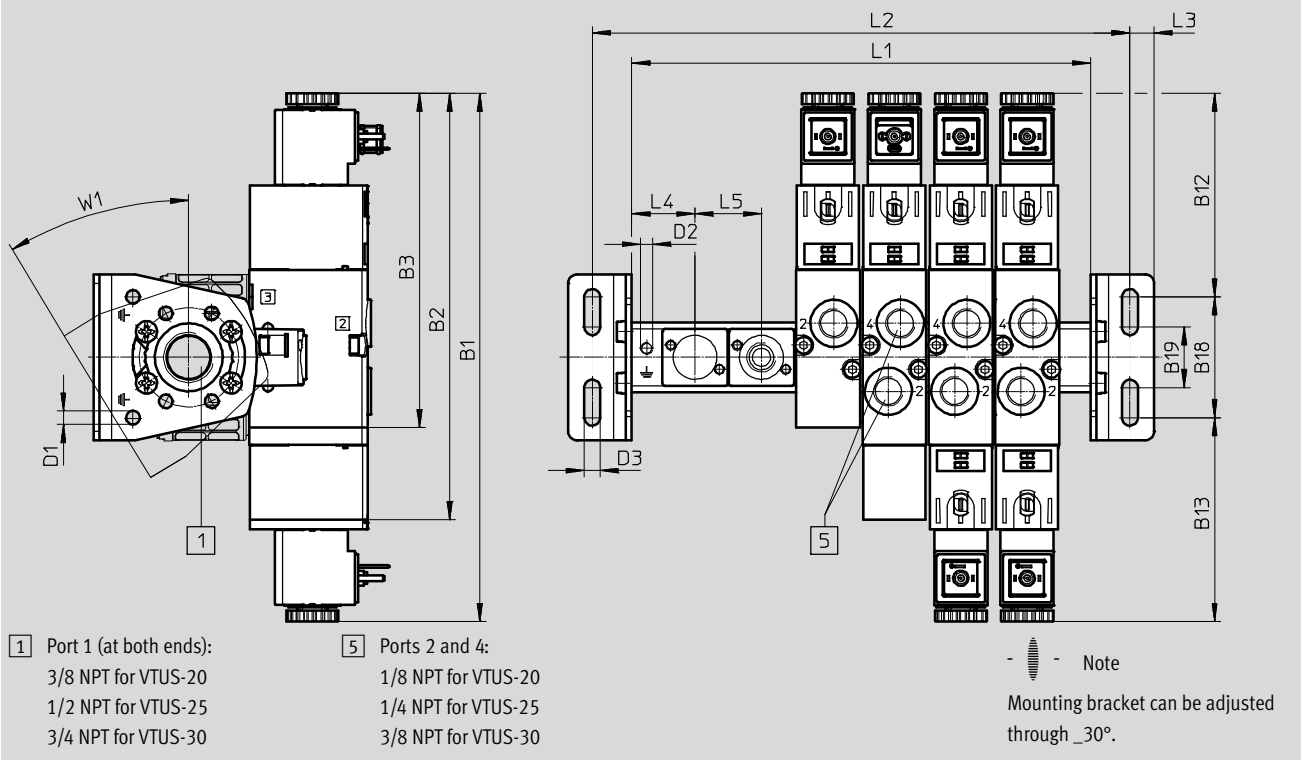
Valve manifold VTUS, NPT

Technical data – Valve manifold

Dimensions – Supply manifold

Download CAD data → www.festo.com

Mounting on both sides



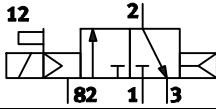
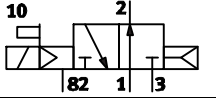
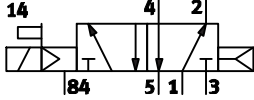
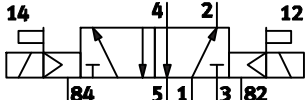
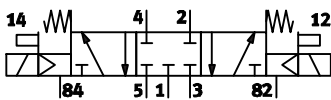
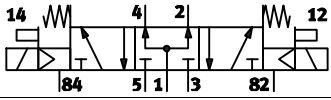
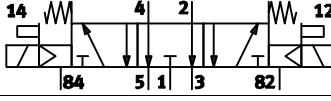
Type	B1	B2	B3	B12	B13	B18	B19
VTUS-20	174.9	141.2	110.7	67.5	67.5	40	20
VTUS-25	200.3	162.2	129.2	70.2	70.2	60	35
VTUS-30	220.3	180.7	144.9	77.7	77.7	65	35

Type	D1 Ø	D2	D3 Ø	L3	L4	L5	W1
VTUS-20	4.5	M4x6.5	5.2	8	21	22	30°
VTUS-25	4.5	M4x9	6.6	8	29.8	27.5	30°
VTUS-30	5.5	M5x11	8.6	9	34	32	30°

Type	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	146.5	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

Solenoid valves VUVS, NPT


Order code – Solenoid valves


VUVS		-	L				
Valve design							
In-line valve		L					
Size							
Valve width	21 mm	20					
	26.5 mm	25					
	30 mm	30					
Valve functions							
						M32C	
						M32U	
						M52	
						B52	
						P53C	
						P53U	
						P53E	
Type of reset							
Pneumatic spring for M52 and M32						A	
Mechanical spring for M52 and M32						M	
For B52 and P53						-	
Pilot air supply							
Internal						-	
External (can only be ordered using the configurator)						Z	


Degree of protection for electrics	
-	Standard
S8	IP67
Electrical connection	
-	None
C1	Port pattern type C, to EN 175 301
B2	Port pattern type B, industry standard
Nominal operating voltage	
-	None
1	24 V DC
1A	24 V AC
3W	230/240 V AC
5	12 V DC
16B	110/120 V AC
Valve pilot control interface	
F7	With 8 mm armature tube, short
F8	With 8 mm armature tube, standard
Exhaust	
-	Without fitting
QN	With fitting
U1	Silencer with metal housing
U3	Silencer with polymer housing
Pneumatic connection	
N18	1/8 NPT
N14	1/4 NPT
N38	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"
Manual override	
D	Non-detenting, detenting without accessories
S	Covered
H	Non-detenting

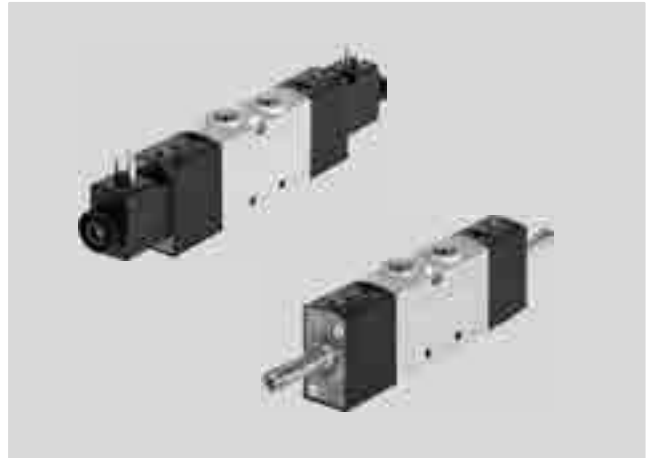
Solenoid valves VUVS, NPT

Technical data – Solenoid valves, size 20

-  - Flow rate
Up to 700 l/min

-  - Valve width
21 mm

-  - Voltage
12, 24 V DC
24, 110, 120, 230, 240 V AC



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						
Direction of flow	Reversible with external pilot air supply						
Pilot air supply	Internal or external						
Type of actuation	Piloted						
Manual override	Non-detenting, detenting						
Non-overlapping	Yes						
Sealing principle	Soft						
Type of mounting	Optionally via through-hole or on manifold rail						
Standard nominal flow rate [qnN]	700					600	
Through-holes (nominal width) [mm]	5.7	5.7	5.7	5.7	5.0	4.8	4.5
b value	0.35						
c value [l/sbar]	2.9	2.9	2.9	2.9	2.9	2.5	2.5
Type of actuation	Electrical						
Mounting position	Any						
Exhaust air function	With flow control						
Pneumatic connection 1, 2, 4, 3, 5	1/8 NPT						
Pilot exhaust air port 82/84	UNF 10/32						
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.

Solenoid valves VUVS, NPT

Technical data – Solenoid valves, size 20

Technical data – 3/2-way valves					
Order code for valves		M32C		M32U	
Normal position		Closed		Open	
Stable positions		Single solenoid		Single solenoid	
Reset method		Pneumatic spring	Mechanical spring	Pneumatic spring	Mechanical spring
Switching times	On	14	14	14	15
	Off	21	32	21	28
	Change-over	–	–	–	–
Product weight excluding solenoid coil	[g]	138	136	138	136
Product weight including solenoid coil	[g]	172	170	172	170

Technical data – 5/2-way valves					
Order code for valves		M52		B52	
Normal position		–		–	
Stable positions		Single solenoid		Double solenoid	
Reset method		Pneumatic spring	Mechanical spring	–	
Switching times	On	20	12	–	
	Off	29	44	–	
	Change-over	–	–	10	
Product weight excluding solenoid coil	[g]	188	183	225	
Product weight including solenoid coil	[g]	222	217	259	

Technical data – 5/3-way valves					
Order code for valves		P53C		P53U	P53E
Normal position/mid-position		Closed		Pressurised	Exhausted
Stable positions		Single solenoid			
Reset method		Mechanical spring			
Switching times	On	13		13	13
	Off	42		42	44
	Change-over	24		21	24
Product weight excluding solenoid coil	[g]	229		229	229
Product weight including solenoid coil	[g]	263		263	263

Safety data					
Note on forced checking procedure		Min. 1/week			
Max. positive test pulse	[µs]	1900 (valves with VACS-C-C1-1)			
0 signal					
Max. negative test pulse	[µs]	2700 (valves with VACS-C-C1-1)			
1 signal					
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			

Solenoid valves VUVS, NPT

Technical data – Solenoid valves, size 20

Operating and environmental conditions				
Order code for valves	M32	M52	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	Operation with lubricated medium possible (in which case lubricated operation will always be required)			
Operating pressure with internal pilot air supply [bar]	2.5 ... 10		1.5 ... 10	2.5 ... 10
Ambient temperature [°C]	-10 ... +60			
Temperature of medium [°C]	-10 ... +60			

Electrical data	
Electrical connection	Via electrical solenoid coil
Operating voltage [V DC]	12, 24, 48 ±10%
[V AC]	24, 48, 110, 120, 230, 240 ±10%
Duty cycle ED [%]	100
Degree of protection to EN 60529	IP65 with plug socket
Permissible voltage fluctuations [%]	10

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

Solenoid valves VUVS, NPT

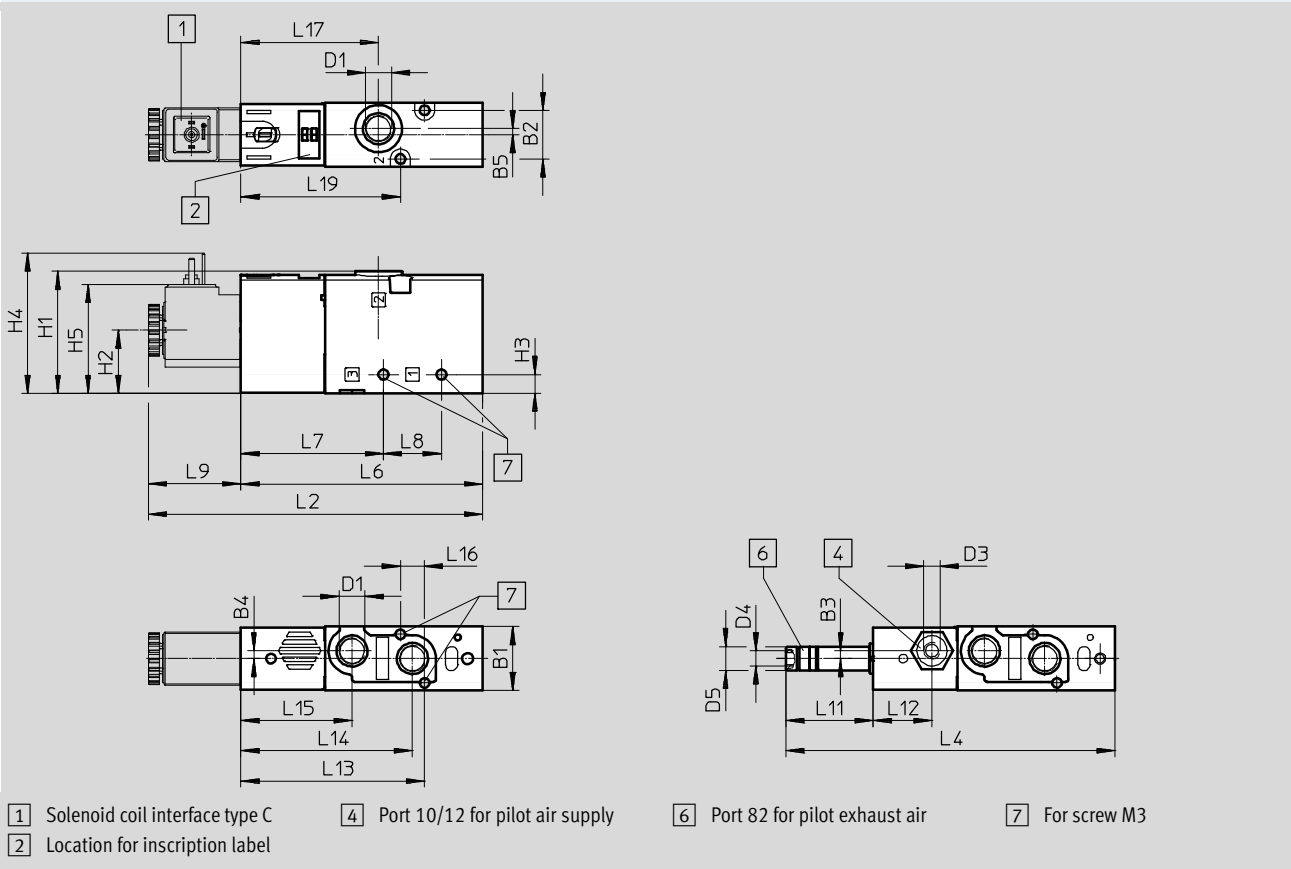
Technical data – Solenoid valves, size 20

Dimensions

Download CAD data → www.festo.com

3/2-way valves, with solenoid coil

3/2-way valves, without solenoid coil



Type	B1	B2	B3	B4	B5	D1	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L20-M32-...D-N18-...	21.1	16.1	-	2.5	2	1/8 NPT	-	UNF 10/32	8	40	20.9	6.2	46.7	36.4

Type	L2	L4	L6	L7	L8	L9	L11	L12	L13	L14	L15	L16	L17	L19
VUVS-L20-M32-...D-N18-...	110.7	109.1	80.1	47.3	19.2	30.6	29	-	60.9	56.9	36.9	8	45.6	52.9

Solenoid valves VUVS, NPT

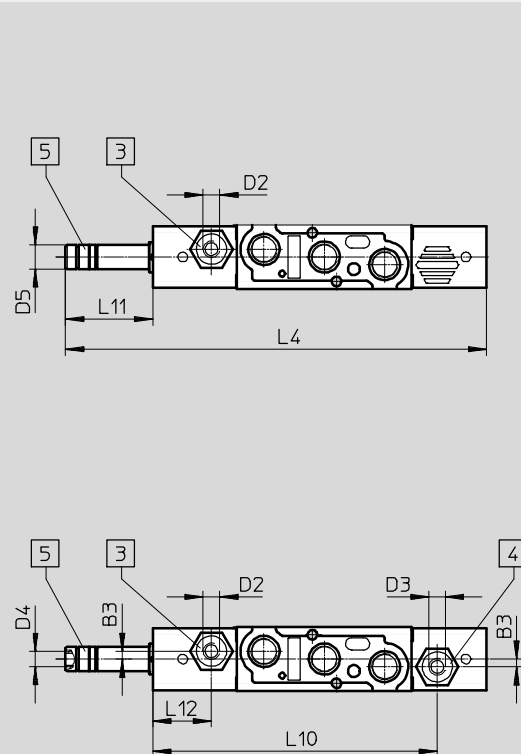
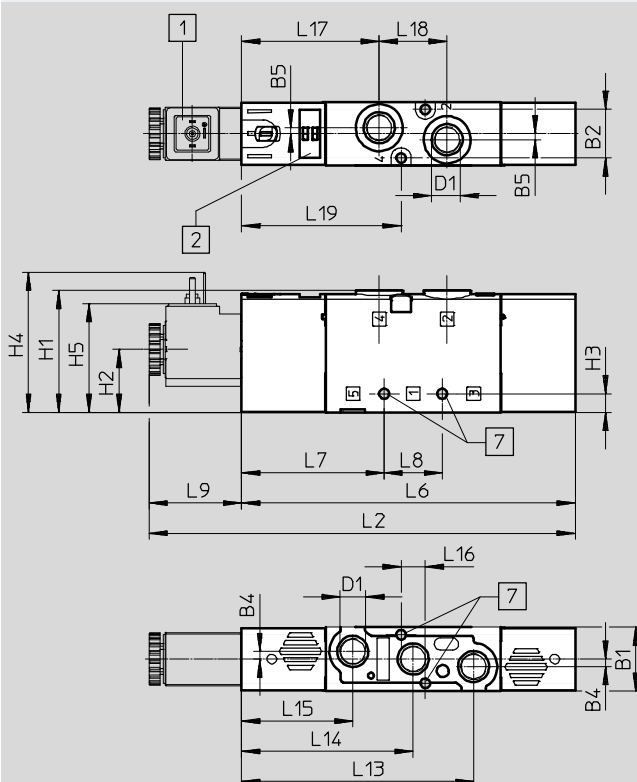
Technical data – Solenoid valves, size 20

Dimensions

Download CAD data → www.festo.com

5/2-way valves, with solenoid coil

5/2-way valves, without solenoid coil



- 1 Solenoid coil interface type C
- 2 Location for inscription label
- 3 Port 14 for pilot air supply
- 4 Port 12 for pilot air supply

- 5 Port 84 for pilot exhaust air
- 7 For screw M3

Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L20-M52-...D-N18-...	21.1	16.1	-	2.5	2	1/8 NPT	-	-	UNF 10/32	8	40.4	20.9	6.2	46.7	36.4

Type	L2	L4	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-L20-M52-...D-N18-...	141.2	139.6	110.6	47.3	19.2	30.6	-	29	-	76.9	56.9	36.9	8	45.6	22.5	52.9

Solenoid valves VUVS, NPT

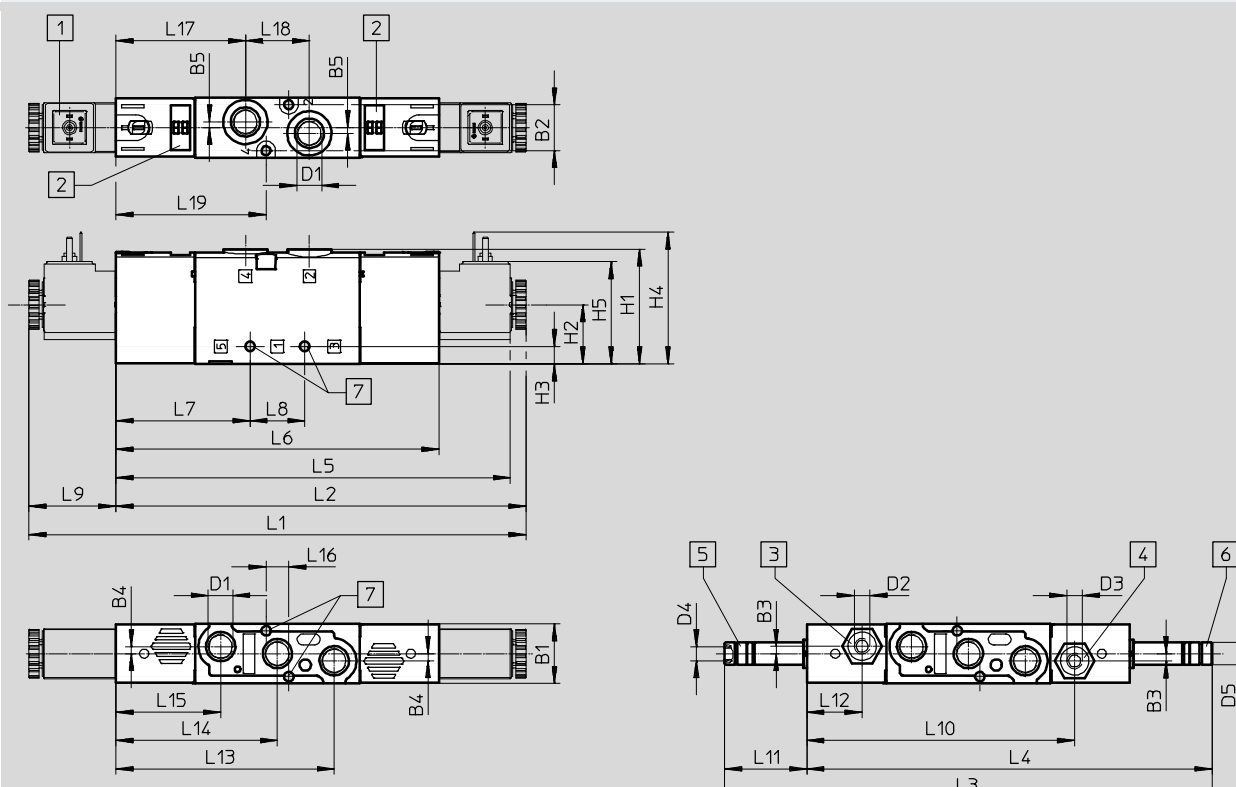
Technical data – Solenoid valves, size 20

Dimensions

Download CAD data → www.festo.com

5/3-way valves and 5/2-way valves, double solenoid, with solenoid coil

5/3-way valves and 5/2-way valves, double solenoid, without solenoid coil



- 1 Solenoid coil interface type C
- 2 Location for inscription label
- 3 Port 14 for pilot air supply
- 4 Port 12 for pilot air supply
- 5 Port 84 for pilot exhaust air
- 6 Port 82 for pilot exhaust air
- 7 For screw M3

Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L20-P53-...-N18-...	21.1	16.1	-	2.5	2	1/8 NPT	-	-	UNF 10/32	8	40.4	20.9	6.2	46.7	36.4
VUVS-L20-B52-D-N18-...			-			1/8 NPT	-	-	UNF 10/32						

Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
VUVS-L20-P53-...-N18-...	174.9	144.3	171.7	142.7	139.1	113.7	47.3	19.2	30.6	-	29
VUVS-L20-B52-D-N18-...										-	

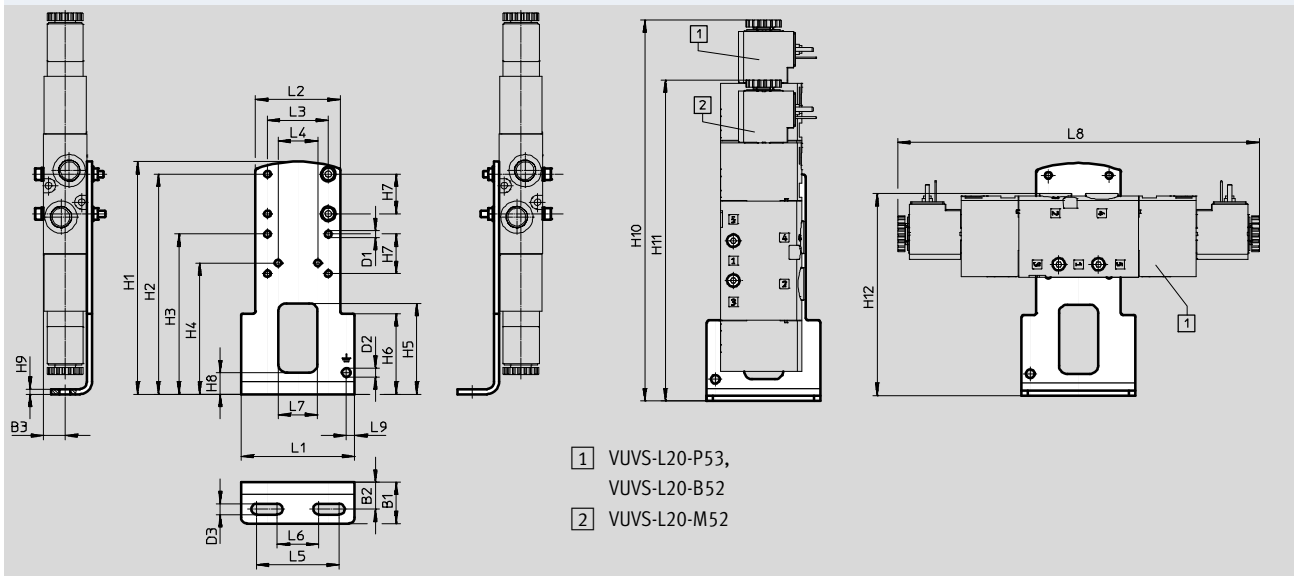
Type	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-L20-P53-...-N18-...	-	76.9	56.9	36.9	8	45.6	22.5	52.9
VUVS-L20-B52-D-N18-...	-							

Solenoid valves VUVS, NPT

Accessories – Solenoid valves, size 20

Dimensions

Foot mounting



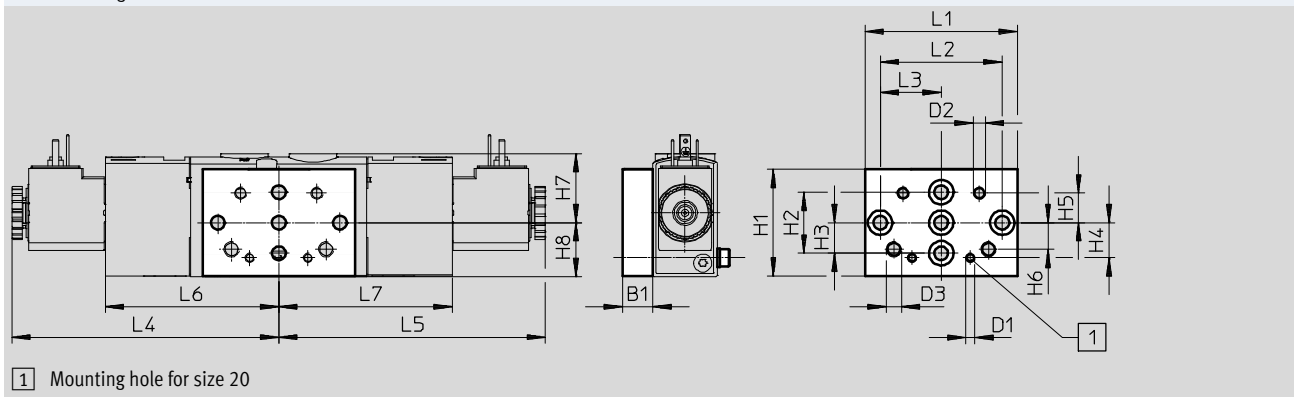
Type		B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	H1	H2	H3	H4	H5
VAME-B10-20-A	VUVS-L20-B52/P53	20	13.1	10.6	3.2	4.2	5.2	112.5	106.5	77.5	63.5	44
	VUVS-L20-M52											
	VUVS-L20-M32											

Type		H6	H7	H8	H9	H10	H11	H12
VAME-B10-20-A	VUVS-L20-B52/P53	39	19.2	10.5	2.5	184.4	–	97.7
	–					155.4		
	VUVS-L20-M32					102.2	–	

Type		L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-20-A	VUVS-L20-B52/P53	55	41	29.4	19.2	40	20	19	174.9	4.1
	141.2									
	110.7									

Dimensions

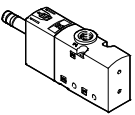
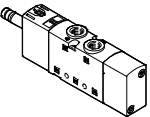
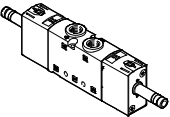
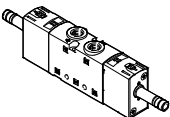
Wall mounting



Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6	H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-L20-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7	22.7	17.7	50	40	20	87.5	87.4	56.9	56.8
	–																–	53.8	–	
	–																–	23.3	–	





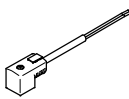

Solenoid valves VUVS/valve manifold VTUS, NPT

Ordering data – Solenoid valves, size 20

Ordering data				
	Code	Valve function	Part No.	Type
3/2-way valve without solenoid coil				
	Single solenoid, closed			
	M32C-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575694	VUVS-L20-M32C-AD-N18-F7
	M32C-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575695	VUVS-L20-M32C-MD-N18-F7
	Single solenoid, open			
	M32U-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575698	VUVS-L20-M32U-AD-N18-F7
	M32U-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575699	VUVS-L20-M32U-MD-N18-F7
5/2-way valve without solenoid coil				
	Single solenoid			
	M52-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575702	VUVS-L20-M52-AD-N18-F7
	M52-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575704	VUVS-L20-M52-MD-N18-F7
	Double solenoid			
	B52	Internal pilot air supply, direction of flow not reversible	575706	VUVS-L20-B52-D-N18-F7
5/3-way valve without solenoid coil				
	Closed			
	P53C	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575708	VUVS-L20-P53C-MD-N18-F7
	Exhausted			
	P53E	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575712	VUVS-L20-P53E-MD-N18-F7
	Pressurised			
	P53U	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575710	VUVS-L20-P53U-MD-N18-F7

Solenoid valves VUVS/valve manifold VTUS, NPT



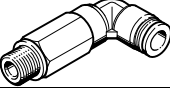
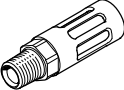
Accessories – Solenoid valves, size 20

Ordering data				
	Valve function	Part No.	Type	
Solenoid coils for valves				
	12 V DC	8025331	VACS-C-C1-5	
	24 V DC	8025330	VACS-C-C1-1	
	48 V DC	8025336	VACS-C-C1-7	
	24 V AC/50-60 Hz	8025335	VACS-C-C1-1A	
	48 V AC	8025337	VACS-C-C1-7A	
	110/120 V AC/50-60 Hz	8025334	VACS-C-C1-16B	
	230/240 V AC/50-60 Hz	8025338	VACS-C-C1-3W	
Seal set				
	For valves in order to guarantee protection class IP67	2643771	VAMC-B10-C-B-S8	
Cover cap				
	For valves	8028240	VAMC-B10-20-CH2	
Plug socket				
	IP65, angled socket, square design, type C, 3-pin, to DIN EN 175301-803	539712	MSSD-EB-M12	
	IP67, angled socket, square design, type C, 4-pin, to DIN EN 175301-803	192745	MSSD-EB-S-M14	
	IP65, angled socket, square design, type C, 3-pin, to DIN EN 175301-803, straight plug connector, M12, 2-pin	188024	MSSD-EB-M12-MONO	
Plug socket with cable				
	24 V, angled socket, type C, 3-pin, to DIN EN 175301-803, with LED	Cable length [m]		
		2.5	151688	KMEB-1-24-2,5-LED
		5	151689	KMEB-1-24-5-LED
	10	193457	KMEB-1-24-10-LED	
	230 V, angled socket, type C, 3-pin, to DIN EN 175301-803, without switching status display	2.5	151690	KMEB-1-230AC-2,5
5		151691	KMEB-1-230AC-5	
Illuminating seal				
	24 V DC, type C, to DIN EN 175301-803	151717	MEB-LD-12-24DC	
	230 V AC, type C, to DIN EN 175301-803	151718	MEB-LD-230AC	

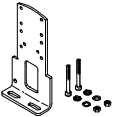
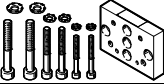
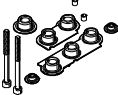
Solenoid valves VUVS/valve manifold VTUS, NPT

FESTO

Accessories – Solenoid valves, size 20




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 1/8 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
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
Silencer					
	With connecting thread NPT (metal design)	1/8 NPT	12638	U-1/8-B-NPT	1

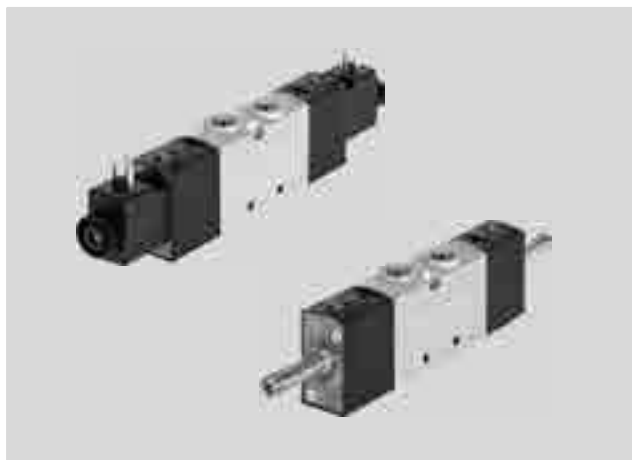
1) Packaging unit

Ordering data				
Description		Weight [g]	Part No.	Type
Foot mounting				
	With screw set for attaching the valve to the foot mounting	97	576412	VAME-B10-20-A
Wall mounting				
	With screw set for attaching the valve to the wall mounting (for size 20, 25, 30)	53	576413	VAME-B10-20-W
Spare parts selection				
	Set comprising seals and screws	10	8026203	VAME-B10-20-MK

Solenoid valves VUVS, NPT

Technical data – Solenoid valves, size 25

-  Flow rate
Up to 1300 l/min
-  Valve width
26.5 mm
-  Voltage
12, 24 V DC
24, 110, 120, 230, 240 V AC



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						
Direction of flow	Reversible with external pilot air supply						
Pilot air supply	Internal or external						
Type of actuation	Piloted						
Manual override	Non-detenting, detenting						
Non-overlapping	Yes						
Sealing principle	Soft						
Type of mounting	Optionally via through-hole or on manifold rail						
Standard nominal flow rate [qnN]	1000		1300	1300	1200	1000	
Through-holes (nominal width) [mm]	6.3	6.3	6.9	6.9	6.5	6.3	6.3
b value	0.3	0.3	0.4	0.4	0.4	0.4	0.4
c value [l/sbar]	4.7, 4.8 ²⁾	4.2, 4.3 ²⁾	5.3	5.6	5.2	4.3	4.3
Type of actuation	Electrical						
Mounting position	Any						
Exhaust air function	With flow control						
Solenoid breather port	Not ducted						
Pneumatic connection 1, 2, 4, 3, 5	1/4 NPT						
Pilot exhaust air port 82/84	UNF 10/32						
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.

2) Reset via mechanical spring

Solenoid valves VUVS, NPT

Technical data – Solenoid valves, size 25

Technical data – 3/2-way valves					
Order code for valves		M32C		M32U	
Normal position		Closed		Open	
Stable positions		Single solenoid		Single solenoid	
Reset method		Pneumatic spring	Mechanical spring	Pneumatic spring	Mechanical spring
Switching times	On	13	11	12	11
	Off	26	40	26	39
	Change-over	–	–	–	–
Product weight excluding solenoid coil	[g]	244	244	244	244
Product weight including solenoid coil	[g]	297	297	297	297

Technical data – 5/2-way valves					
Order code for valves		M52		B52	
Normal position		–		–	
Stable positions		Single solenoid		Double solenoid	
Reset method		Pneumatic spring	Mechanical spring	–	
Switching times	On	19	12	–	
	Off	35	47	–	
	Change-over	–	–	11	
Product weight excluding solenoid coil	[g]	311	311	322	
Product weight including solenoid coil	[g]	363	363	428	

Technical data – 5/3-way valves					
Order code for valves		P53C		P53U	P53E
Normal position/mid-position		Closed		Pressurised	Exhausted
Stable positions		Single solenoid			
Reset method		Mechanical spring			
Switching times	On	13		14	14
	Off	42		48	48
	Change-over	26		25	25
Product weight excluding solenoid coil	[g]	324		324	324
Product weight including solenoid coil	[g]	430		430	430

Safety data					
Note on forced checking procedure		Min. 1/week			
Max. positive test pulse	[µs]	2000 (valves with VACF-B-...-1)			
0 signal					
Max. negative test pulse	[µs]	3600 (valves with VACF-B-...-1)			
1 signal					
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			

Solenoid valves VUVS, NPT

Technical data – Solenoid valves, size 25

Operating and environmental conditions				
Order code for valves	M32	M52	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	Operation with lubricated medium possible (in which case lubricated operation will always be required)			
Operating pressure with internal pilot air supply [bar]	2.5 ... 10		1.5 ... 10	2.5 ... 10
Ambient temperature [°C]	-10 ... +60			
Temperature of medium [°C]	-10 ... +60			

Electrical data	
Electrical connection	Via electrical solenoid coil
Operating voltage [V DC]	12, 24, 48 ±10%
[V AC]	24, 48, 110, 120, 230, 240 ±10%
Duty cycle ED [%]	100
Degree of protection to EN 60529	IP65 with plug socket
Permissible voltage fluctuations [%]	10

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

Solenoid valves VUVS, NPT

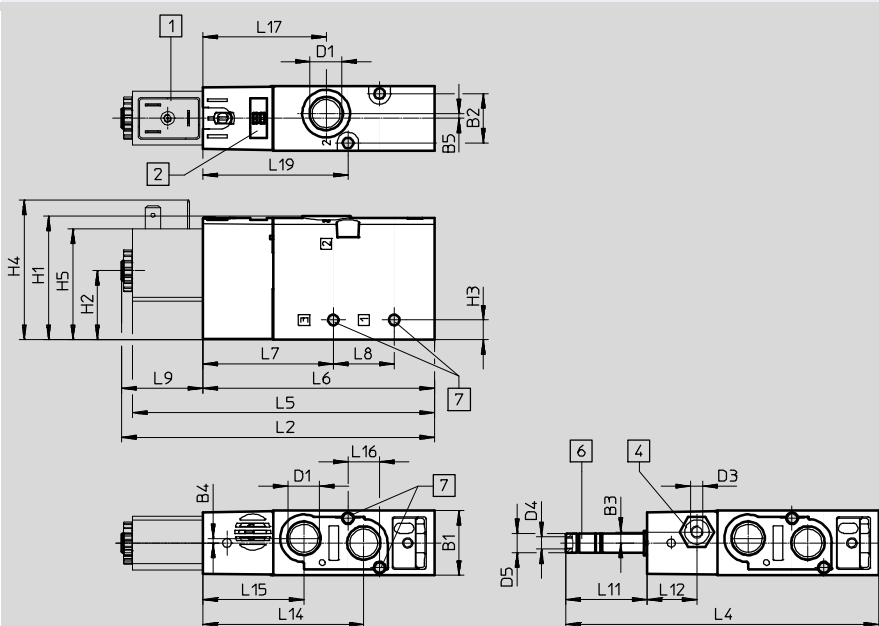
Technical data – Solenoid valves, size 25

Dimensions

Download CAD data → www.festo.com

3/2-way valves, with solenoid coil

3/2-way valves, without solenoid coil



- 1 Solenoid coil interface type B/type C
- 2 Location for inscription label
- 4 Port 10/12 for pilot air supply
- 6 Port 82 for pilot exhaust air
- 7 For screw M4

Type	B1	B2	B3	B4	B5	D1	D3	D4	D5	H1	H2	H3	H4	H5
VUVS-L25-M32-...D-N14-...	26.5	20.2	–	1.9	1.9	1/4 NPT	–	UNF 10/32	8 ∅	50.5	28.2	8	57.2	45.2

Type	L2	L4	L5	L6	L7	L8	L9	L11	L12	L14	L15	L16	L17	L19
VUVS-L25-M32-...D-N14-...	129.2	128.1	123.8	94.8	53.3	25	34.4	33.3	–	65.8	41.3	13	50.4	59.3

Solenoid valves VUVS, NPT

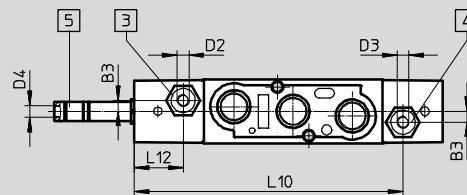
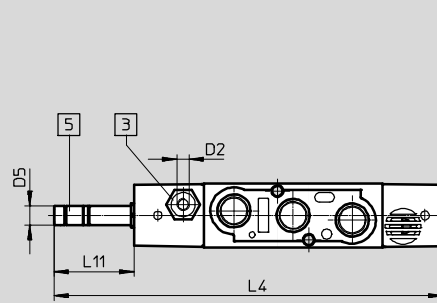
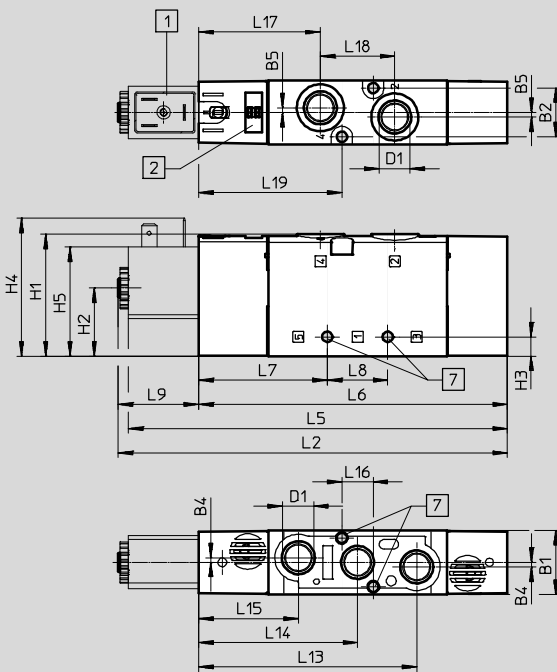
Technical data – Solenoid valves, size 25

Dimensions

Download CAD data → www.festo.com

5/2-way valves, with solenoid coil

5/2-way valves, without solenoid coil



- 1 Solenoid coil interface type B/type C
- 2 Location for inscription label
- 3 Port 14 for pilot air supply
- 4 Port 12 for pilot air supply
- 5 Port 84 for pilot exhaust air
- 7 For screw M4

Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5	H1	H2	H3	H4	H5
VUVS-L25-M52-...D-N14-...	26.5	20.2	-	1.9	1.9	1/4 NPT	-	-	UNF 10/32	8	50.5	28.2	8	57.2	45.2

Type	L2	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-L25-M52-...D-N14-...	162.2	161.1	156.8	127.8	53.3	25	34.4	-	33.3	-	90.3	65.8	41.3	13	50.4	30.8	59.3

Solenoid valves VUVS, NPT

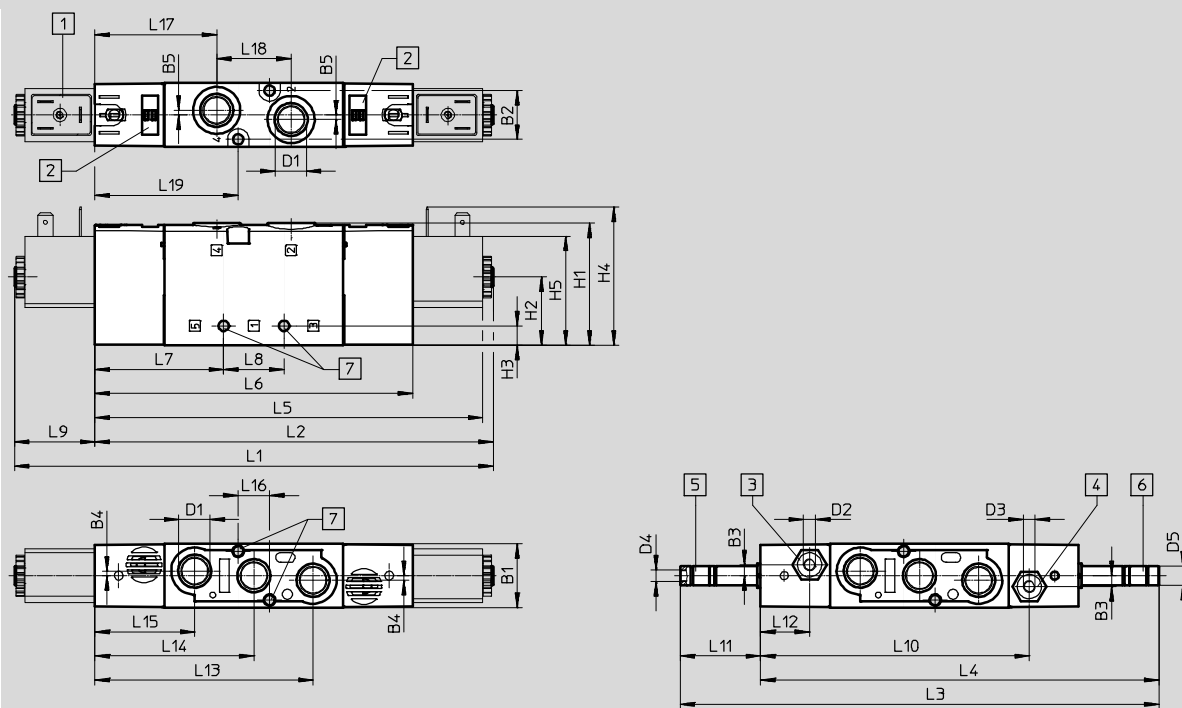
Technical data – Solenoid valves, size 25

Download CAD data → www.festo.com

Dimensions

5/3-way valves and 5/2-way valves, double solenoid, with solenoid coil

5/3-way valves and 5/2-way valves, double solenoid, without solenoid coil



- 1 Solenoid coil interface type B/type C
- 2 Location for inscription label
- 3 Port 14 for pilot air supply
- 4 Port 12 for pilot air supply
- 5 Port 84 for pilot exhaust air
- 6 Port 82 for pilot exhaust air
- 7 For screw M4

Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5	H1	H2	H3	H4	H5
VUVS-L25-P53...-N14-...	26.5	20.2	-	1.9	1.9	1/4 NPT	-	-	UNF 10/32	8	50.5	28.2	8	57.2	45.2
VUVS-L25-B52-D-N14-...															

Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
VUVS-L25-P53...-N14-...	2003	166	198.2	164.9	160.6	131.6	53.3	25	33.3	-	33.3
VUVS-L25-B52-D-N14-...											

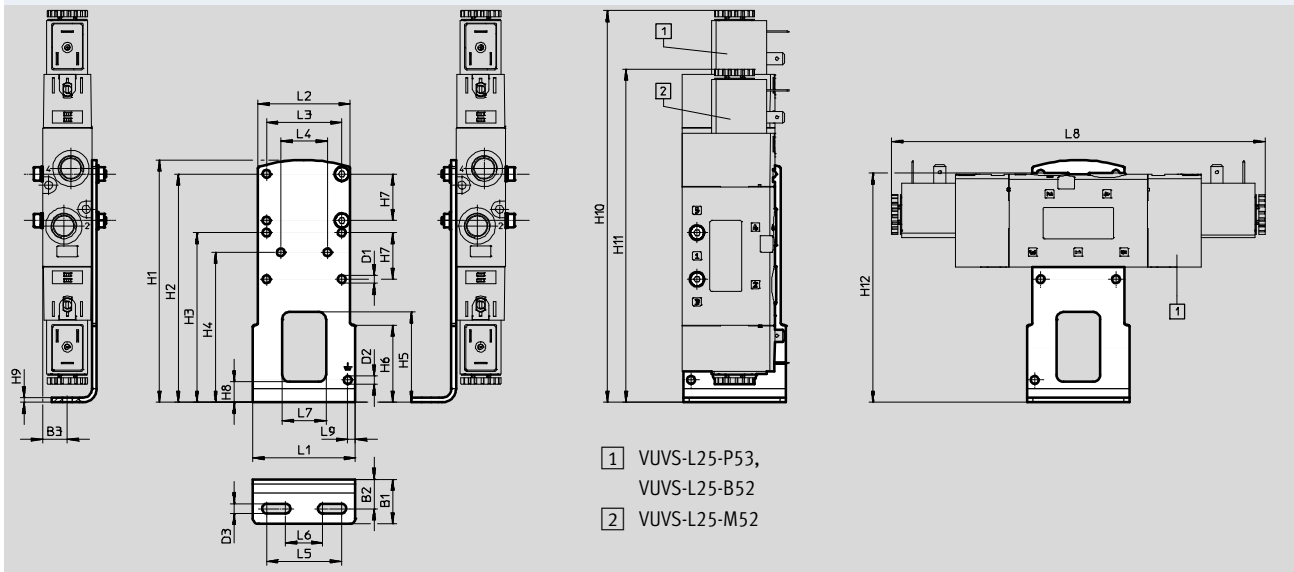
Type	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-L25-P53...-N14-...	-	90.3	65.8	41.3	13	50.4	30.8	59.3
VUVS-L25-B52-D-N14-...								

Solenoid valves VUVS, NPT

Technical data – Solenoid valves, size 25

Dimensions

Foot mounting



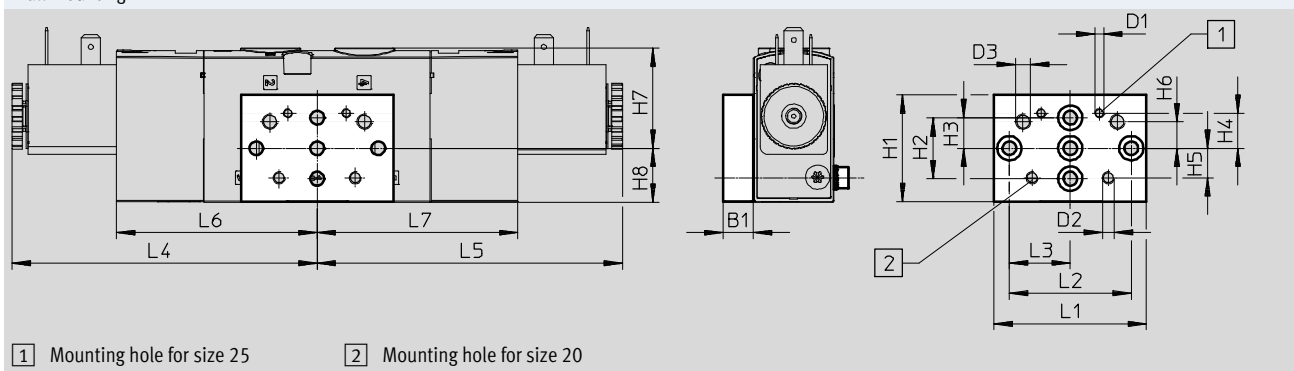
Type		B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	H1	H2	H3	H4	H5
VAME-B10-25-A	VUVS-L20-B52/P53	24	15.8	13.3	4.2	4.2	5.2	130	122.5	91	80.5	48.5
	VUVS-L20-M52											
	VUVS-L20-M32											

Type		H6	H7	H8	H9	H10	H11	H12
VAME-B10-25-A	VUVS-L20-B52/P53	41.5	25	11	2.5	210	-	123
	VUVS-L20-M52					-	178.7	
	VUVS-L20-M32					139	-	

Type		L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-25-A	VUVS-L20-B52/P53	55	49.4	40.4	25	40	20	23.5	198.2	4.1
	VUVS-L20-M52								161.1	
	VUVS-L20-M32								128.1	

Dimensions

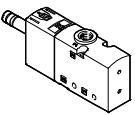
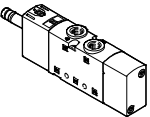
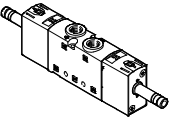
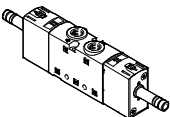
Wall mounting



Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6	H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-L25-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7	32.8	17.7	50	40	20	100	100	65.8	65.8
	VUVS-L25-M52																-	62		
	VUVS-L25-M32																-	29		

Solenoid valves VUVS/valve manifold VTUS, NPT




Ordering data – Solenoid valves, size 25


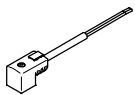

Ordering data				
	Code	Valve function	Part No.	Type
3/2-way valve without solenoid coil				
	Single solenoid, closed			
	M32C-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575544	VUVS-L25-M32C-AD-N14-F8
	M32C-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575545	VUVS-L25-M32C-MD-N14-F8
	Single solenoid, open			
	M32U-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575548	VUVS-L25-M32U-AD-N14-F8
	M32U-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575549	VUVS-L25-M32U-MD-N14-F8
5/2-way valve without solenoid coil				
	Single solenoid			
	M52-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575552	VUVS-L25-M52-AD-N14-F8
	M52-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575554	VUVS-L25-M52-MD-N14-F8
	Double solenoid			
	B52	Internal pilot air supply, direction of flow not reversible	575556	VUVS-L25-B52-D-N14-F8
5/3-way valve without solenoid coil				
	Closed			
	P53C	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575558	VUVS-L25-P53C-MD-N14-F8
	Exhausted			
	P53E	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575562	VUVS-L25-P53E-MD-N14-F8
	Pressurised			
	P53U	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575560	VUVS-L25-P53U-MD-N14-F8

Solenoid valves VUVS/valve manifold VTUS, NPT

FESTO

Ordering data – Solenoid valves, size 25



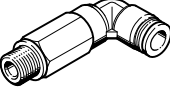

Ordering data				Part No.	Type
Solenoid coils for valves					
	Port pattern type C, to DIN EN 175301-803	12 V DC		8030810	VACF-B-C1-5
		24 V DC		8030811	VACF-B-C1-1
		48 V DC		8030812	VACF-B-C1-7
		24 V AC/50-60 Hz		8030813	VACF-B-C1-1A
		48 V AC		8030814	VACF-B-C1-7A
		110/120 V AC/50-60 Hz		8030815	VACF-B-C1-16B
		230/240 V AC/50-60 Hz		8030817	VACF-B-C1-3W
	Port pattern type B, to DIN EN 175301-803	12 V DC		8030801	VACF-B-B2-5
		24 V DC		8030802	VACF-B-B2-1
		48 V DC		8030803	VACF-B-B2-7
		24 V AC/50-60 Hz		8030804	VACF-B-B2-1A
		48 V AC/50-60 Hz		8030805	VACF-B-B2-7A
		110/120 V AC/50-60 Hz		8030806	VACF-B-B2-16B
		230/240 V AC/50-60 Hz		8030808	VACF-B-B2-3W
Seal set					
	For solenoid valves in order to guarantee protection class IP67			8034609	VAMC-B10-B-B-S8
Cover cap					
	For valves			8028240	VAMC-B10-20-CH2

Ordering data				Part No.	Type	
Plug socket						
	Port pattern type C, to DIN EN 175301-803					
	Angled socket, 3-pin	230 V AC	IP65	539712	MSSD-EB-M12	
	Angled socket, 4-pin		IP67	192745	MSSD-EB-S-M14	
	Angled socket, 3-pin, straight plug connector, M12, 2-pin	24 V DC	IP65	188024	MSSD-EB-M12-MONO	
	Port pattern type B, to DIN EN 175301-803					
	Angled socket, 3-pin	230 V AC	IP65	539710	MSSD-F-M16	
Angled socket, 4-pin		IP67	192746	MSSD-F-S-M16		
Plug socket with cable						
	Port pattern type C, to DIN EN 175301-803					
	Angled socket, 3-pin Cable, open end, 3-wire	24 V DC	LED	2.5 m	151688	KMEB-1-24-2,5-LED
				5 m	151689	KMEB-1-24-5-LED
				10 m	193457	KMEB-1-24-10-LED
		230 V AC	-	2.5 m	151690	KMEB-1-230AC-2,5
				5 m	151691	KMEB-1-230AC-5
	Port pattern type B, to DIN EN 175301-803					
	Angled socket, 3-pin Cable, open end, 3-wire	24 V DC	LED	2.5 m	30935	KMF-1-24DC-2,5-LED
				5 m	30937	KMF-1-24DC-5-LED
				10 m	193458	KMF-1-24-10-LED
230 V AC		-	2.5 m	30936	KMF-1-230AC-2,5	
			5 m	30938	KMF-1-230AC-5	
Illuminating seal						
	Port pattern type C, to DIN EN 175301-803	24 V DC		151717	MEB-LD-12-24DC	
		230 V AC		151718	MEB-LD-230AC	
	Port pattern type B, to DIN EN 175301-803	24 V DC		19143	MF-LD-12-24DC	
		230 V AC		19144	MF-LD-230AC	

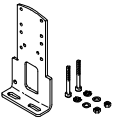


Solenoid valves VUVS/valve manifold VTUS, NPT

FESTO

Ordering data – Solenoid valves, size 25


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	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
Silencer					
	With connecting thread NPT (metal design)	1/4 NPT	12639	U-1/4-B-NPT	1


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 (for size 20, 25, 30)	53	576413	VAME-B10-20-W	
Spare parts selection					
	Set comprising seals and screws	12	8035636	VAME-B10-25-MK	

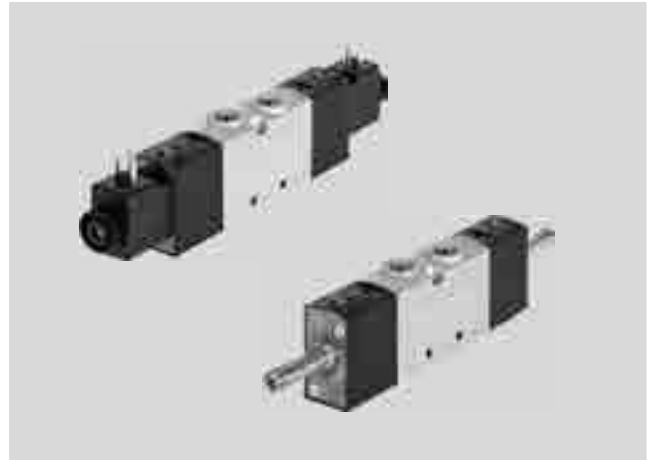
Solenoid valves VUVS, NPT

Technical data – Solenoid valves, size 30

-  Flow rate
Up to 2300 l/min

-  Valve width
31 mm

-  Voltage
12, 24 V DC
24, 110, 120, 230, 240 V AC



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						
Nominal width [mm]	9.4				8.9	8.1	
Design	Piston spool						
Direction of flow	Reversible with external pilot air supply						
Pilot air supply	Internal or external						
Type of actuation	Piloted						
Manual override	Non-detenting, detenting						
Non-overlapping	Yes						
Sealing principle	Soft						
Type of mounting	Optionally via through-hole or on manifold rail						
Standard nominal flow rate [qnN]	2300	2300	2300		2000	1600	1600
Type of actuation	Electrical						
Mounting position	Any						
Exhaust air function	With flow control						
Pneumatic connection	3/8 NPT						
1, 2, 4, 3, 5							
Pilot exhaust air port 82/84	UNF 10-32						
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.

Solenoid valves VUVS, NPT

Technical data – Solenoid valves, size 30

Technical data – 3/2-way valves					
Order code for valves		M32C		M32U	
Normal position		Closed		Open	
Stable positions		Single solenoid		Single solenoid	
Reset method		Pneumatic spring	Mechanical spring	Pneumatic spring	Mechanical spring
Switching times	On	19	16	19	15
	Off	36	58	37	57
	Change-over	–	–	–	–
Product weight excluding solenoid coil	[g]	354	354	354	354
Product weight including solenoid coil	[g]	405	405	405	405

Technical data – 5/2-way valves					
Order code for valves		M52		B52	
Normal position		–		–	
Stable positions		Single solenoid		Double solenoid	
Reset method		Pneumatic spring	Mechanical spring	–	
Switching times	On	24	17	–	
	Off	49	62	–	
	Change-over	–	–	13	
Product weight excluding solenoid coil	[g]	450	450	464	
Product weight including solenoid coil	[g]	500	500	565	

Technical data – 5/3-way valves					
Order code for valves		P53C		P53U	P53E
Normal position/mid-position		Closed		Pressurised	Exhausted
Stable positions		Single solenoid			
Reset method		Mechanical spring			
Switching times	On	17	18	20	
	Off	76	75	74	
	Change-over	39	31	36	
Product weight excluding solenoid coil	[g]	461	461	461	
Product weight including solenoid coil	[g]	562	562	562	

Safety data					
Note on forced checking procedure		Min. 1/week			
Max. positive test pulse	[µs]	2000 (valves with VACF-B-...-1)			
0 signal					
Max. negative test pulse	[µs]	3600 (valves with VACF-B-...-1)			
1 signal					
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			

Solenoid valves VUVS, NPT

Technical data – Solenoid valves, size 30

Operating and environmental conditions				
Order code for valves	M32	M52	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	Operation with lubricated medium possible (in which case lubricated operation will always be required)			
Operating pressure with internal pilot air supply [bar]	2.5 ... 10		1.5 ... 10	2.5 ... 10
Operating pressure with external pilot air supply [bar]	-0.9 ... +10			
Pilot pressure [bar]	2.5 ... 10		1.5 ... 10	2.5 ... 10
Ambient temperature [°C]	-10 ... +60			
Temperature of medium [°C]	-10 ... +60			

Electrical data		
	With solenoid coil	Without solenoid coil
Electrical connection	Via electrical solenoid coil	Via solenoid coil
Operating voltage	[V DC] 12 and 24 ±10%	→ Internet: vacf
	[V AC] 24, 110, 120, 230, 240 ±10%	
Duty cycle ED [%]	100	
Degree of protection to EN 60529	IP65 with plug socket	
Permissible voltage fluctuations [%]	10	

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

Solenoid valves VUVS, NPT

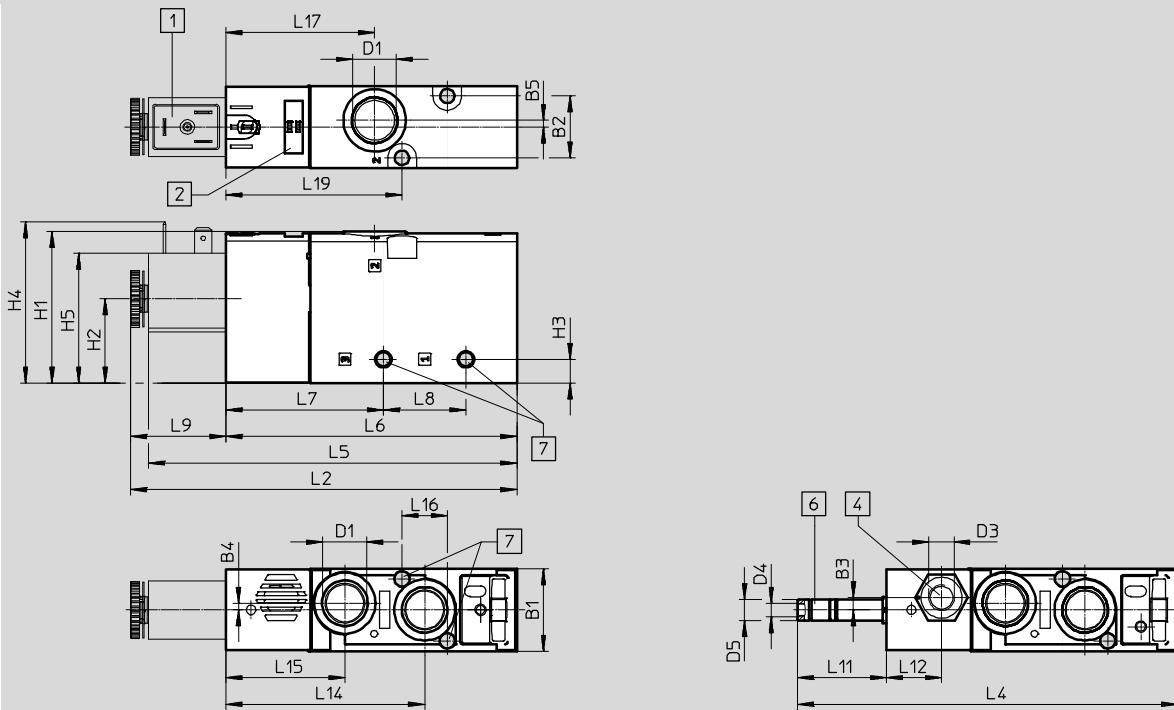
Technical data – Solenoid valves, size 30

Download CAD data → www.festo.com

Dimensions

3/2-way valves, with solenoid coil

3/2-way valves, without solenoid coil



- 1 Solenoid coil interface type B/type C
- 2 Location for inscription label
- 4 Port 10/12 for pilot air supply
- 6 Port 82 for pilot exhaust air
- 7 For screw M5

Type	B1	B2	B3	B4	B5	D1	D3	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L30-M32...-D-N38-...	31	23.3	-	2.5	2.5	3/8 NPT	-	UNF 10-32	8	57	31.8	9	63.7	51.6

Type	L2	L4	L5	L6	L7	L8	L9	L11	L12	L14	L15	L16	L17	L19
VUVS-L30-M32...-D-G38-...	144.9	142.8	139.5	109.5	59.3	31	35.4	33.3	-	74.8	44.8	17	56	66.3

Solenoid valves VUVS, NPT

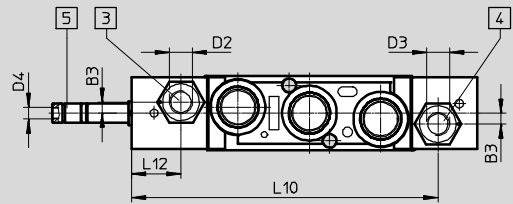
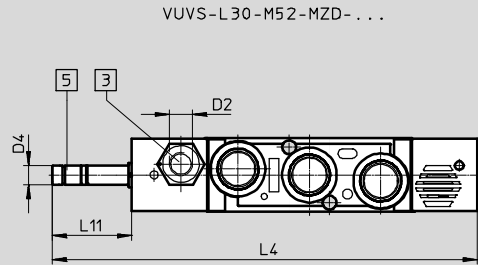
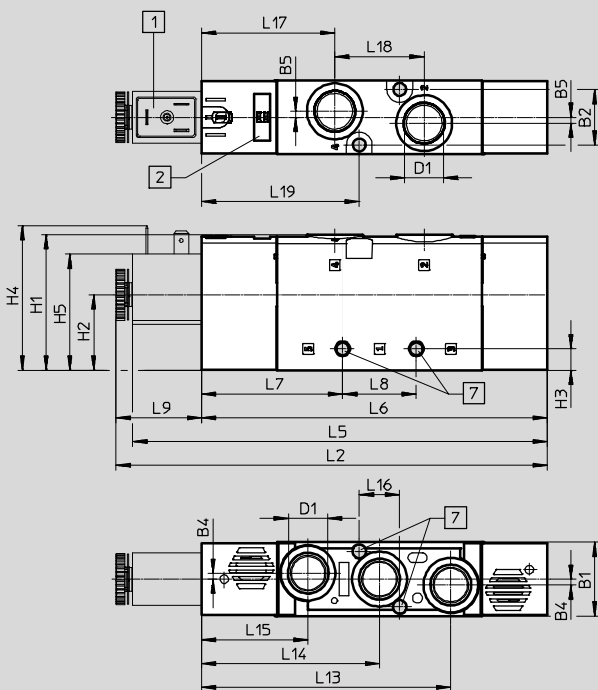
Technical data – Solenoid valves, size 30

Dimensions

Download CAD data → www.festo.com

5/2-way valves, with solenoid coil

5/2-way valves, without solenoid coil



- 1 Solenoid coil interface type B/type C
- 2 Location for inscription label
- 3 Port 14 for pilot air supply
- 4 Port 12 for pilot air supply
- 5 Port 84 for pilot exhaust air
- 7 For screw M5

Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5	H1	H2	H3	H4	H5
VUVS-L30-M52-...D-G38-...	31	23.3	-	2.5	2.5	3/8 NPT	-	-	UNF 10/32	8	57	31.8	9	63.7	51.6

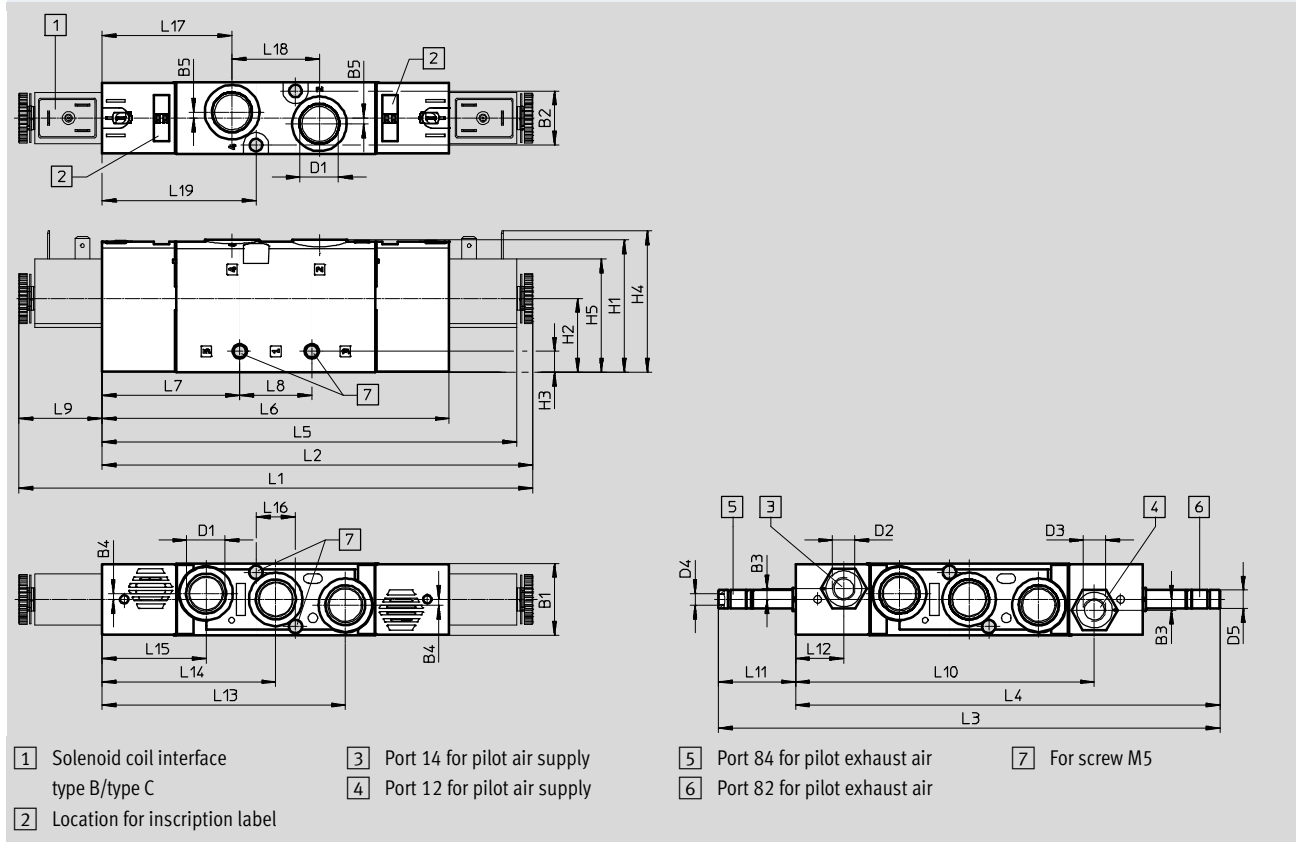
Type	L2	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19
VUVS-L30-M52-...D-G38-...	180.7	178.6	179.6	145.3	59.3	31	35.4	-	33.3	-	104.8	74.8	44.8	17	56	37.6	66.3

Solenoid valves VUVS, NPT

Technical data – Solenoid valves, size 30

Download CAD data → www.festo.com

Dimensions
5/3-way valves and 5/2-way valves, double solenoid, with solenoid coil 5/3-way valves and 5/2-way valves, double solenoid, without solenoid coil



Type	B1	B2	B4	B5	D1	D4	D5 Ø	H1	H2	H3	H4	H5
VUVS-L30-P53...-MD-N38-F8	31	23.3	2.5	2.5	3/8 NPT	UNF 10-32	8	57	31.8	9	63.7	51.6
VUVS-L30-B52-D-N38-F8												

Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	L11
VUVS-L30-P53...-MD-N38-F8	220.3	185	216.2	182.9	179.6	149.6	59.3	31	35.4	33.3
VUVS-L30-B52-D-N38-F8										

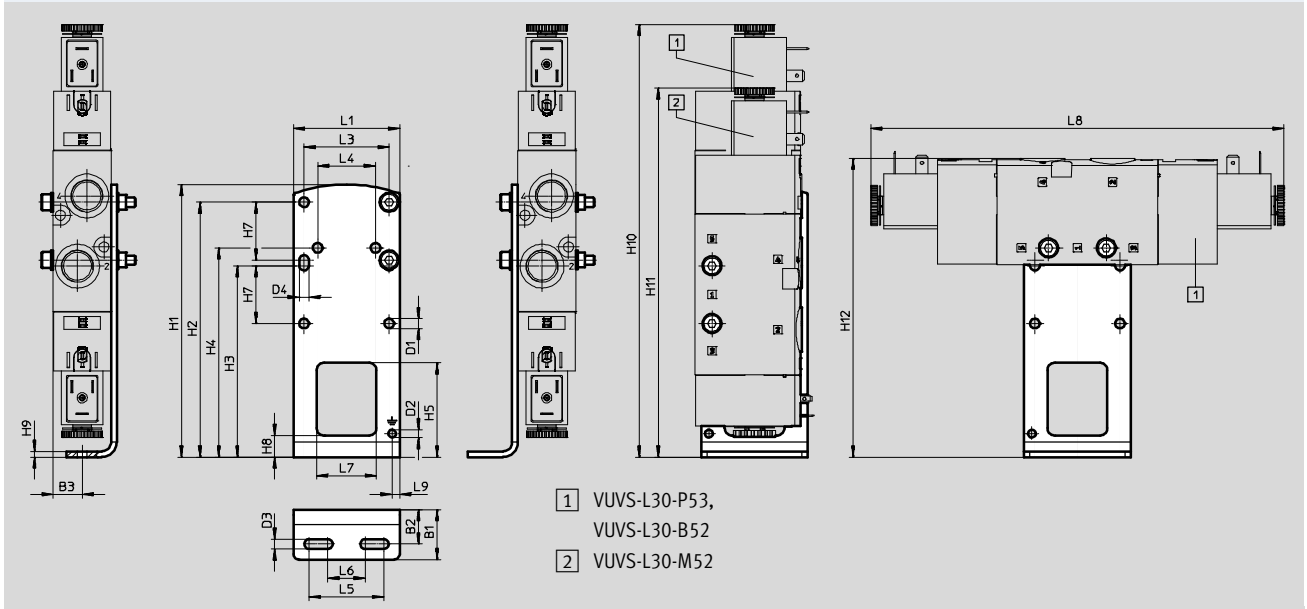
Type	L13	L14	L15	L16	L17	L18	L19
VUVS-L30-P53...-MD-N38-F8	104.8	74.8	44.8	17	56	37.6	66.3
VUVS-L30-B52-D-N38-F8							

Solenoid valves VUVS, NPT

Accessories – Valves, size 30

Dimensions

Foot mounting



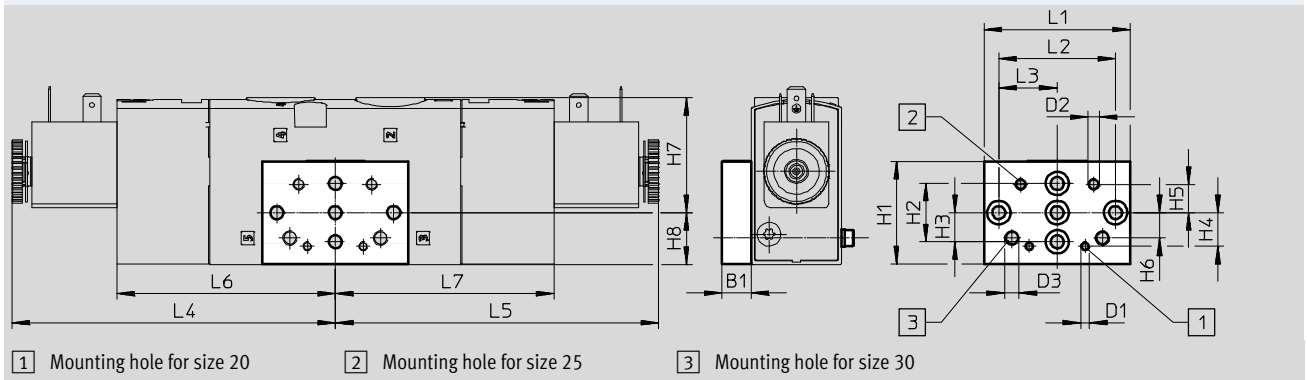
Type		B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	D4 Ø	H1	H2	H3	H4	H5
VAME-B10-30-A	VUVS-L30-B52/P53	26.8	18.5	15.5	5.2	4.2	5.2	5.2	146	136.5	102.5	112	50.5
	VUVS-L30-M52												
	VUVS-L30-M32												

Type		H6	H7	H8	H9	H10	H11	H12
VAME-B10-30-A	VUVS-L30-B52/P53	-	31	11.5	3	231.2	-	160
	VUVS-L30-M52							
	VUVS-L30-M32							

Type		L1	L2	L3	L4	L5	L6	L7	L8	L9
VAME-B10-30-A	VUVS-L30-B52/P53	57	-	45.6	31	40	20	32	220.3	4.1
	VUVS-L30-M52									
	VUVS-L30-M32									

Dimensions

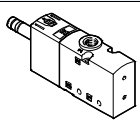
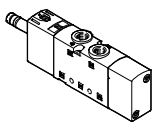
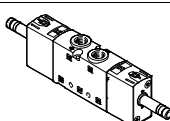
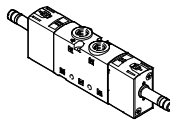
Wall mounting



Type		B1	D1	D2	D3	H1	H2	H3	H4	H5	H6	H7	H8	L1	L2	L3	L4	L5	L6	L7
VAME-B10-20-W	VUVS-L30-B52/P53	10	M3	M4	M5	35	20	10	11.5	9.7	8.7	39.3	17.7	50	40	20	110.2	110.2	74.8	74.8
	VUVS-L30-M52																			
	VUVS-L30-M32																			




Solenoid valves VUVS/valve manifold VTUS, NPT


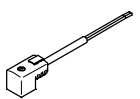

Ordering data – Solenoid valves, size 30

Ordering data				
	Code	Valve function	Part No.	Type
3/2-way valve without solenoid coil				
	Single solenoid, closed			
	M32C-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575637	VUVS-L30-M32C-AD-N38-F8
	M32C-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575638	VUVS-L30-M32C-MD-N38-F8
	Single solenoid, open			
	M32U-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575641	VUVS-L30-M32U-AD-N38-F8
	M32U-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575642	VUVS-L30-M32U-MD-N38-F8
5/2-way valve without solenoid coil				
	Single solenoid			
	M52-A	Pneumatic spring return, internal pilot air supply, direction of flow not reversible	575645	VUVS-L30-M52-AD-N38-F8
	M52-M	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575647	VUVS-L30-M52-MD-N38-F8
	Double solenoid			
	B52	Internal pilot air supply, direction of flow not reversible	575649	VUVS-L30-B52-D-N38-F8
5/3-way valve without solenoid coil				
	Closed			
	P53C	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575651	VUVS-L30-P53C-MD-N38-F8
	Exhausted			
	P53E	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575655	VUVS-L30-P53E-MD-N38-F8
	Pressurised			
	P53U	Mechanical spring return, internal pilot air supply, direction of flow not reversible	575653	VUVS-L30-P53U-MD-N38-F8

Solenoid valves VUVS/valve manifold VTUS, NPT



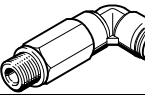
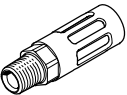
Ordering data – Solenoid valves, size 30

Ordering data				Part No.	Type
Solenoid coils for valves					
	Port pattern type C, to DIN EN 175301-803	12 V DC		8030810	VACF-B-C1-5
		24 V DC		8030811	VACF-B-C1-1
		48 V DC		8030812	VACF-B-C1-7
		24 V AC/50-60 Hz		8030813	VACF-B-C1-1A
		48 V AC		8030814	VACF-B-C1-7A
		110/120 V AC/50-60 Hz		8030815	VACF-B-C1-16B
		230/240 V AC/50-60 Hz		8030817	VACF-B-C1-3W
	Port pattern type B, to DIN EN 175301-803	12 V DC		8030801	VACF-B-B2-5
		24 V DC		8030802	VACF-B-B2-1
		48 V DC		8030803	VACF-B-B2-7
		24 V AC/50-60 Hz		8030804	VACF-B-B2-1A
		48 V AC/50-60 Hz		8030805	VACF-B-B2-7A
		110/120 V AC/50-60 Hz		8030806	VACF-B-B2-16B
		230/240 V AC/50-60 Hz		8030808	VACF-B-B2-3W
Seal set					
	For solenoid valves in order to guarantee protection class IP67			8034609	VAMC-B10-B-B-S8
Cover cap					
	For valves			8028240	VAMC-B10-20-CH2

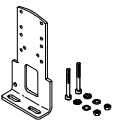
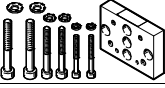
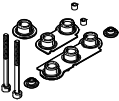
Ordering data				Part No.	Type	
Plug socket						
	Port pattern type C, to DIN EN 175301-803					
	Angled socket, 3-pin	0 ... 250 V AC/DC	IP65	539712	MSSD-EB-M12	
	Angled socket, 4-pin		IP67	192745	MSSD-EB-S-M14	
	Angled socket, 3-pin, straight plug connector, M12, 2-pin	12 ... 24 V AC/DC	IP65	188024	MSSD-EB-M12-MONO	
	Port pattern type B, to DIN EN 175301-803					
	Angled socket, 3-pin	0 ... 250 V AC/DC	IP65	539710	MSSD-F-M16	
Angled socket, 4-pin		IP67	192746	MSSD-F-S-M16		
Plug socket with cable						
	Port pattern type C, to DIN EN 175301-803					
	Angled socket, 3-pin Cable, open end, 3-wire	24 V DC	LED	2.5 m	151688	KMEB-1-24-2,5-LED
				5 m	151689	KMEB-1-24-5-LED
		230 V AC	-	10 m	193457	KMEB-1-24-10-LED
				2.5 m	151690	KMEB-1-230AC-2,5
	5 m	151691	KMEB-1-230AC-5			
	Port pattern type B, to DIN EN 175301-803					
	Angled socket, 3-pin Cable, open end, 3-wire	24 V DC	LED	2.5 m	30935	KMF-1-24DC-2,5-LED
				5 m	30937	KMF-1-24DC-5-LED
				10 m	193458	KMF-1-24-10-LED
230 V AC		-	2.5 m	30936	KMF-1-230AC-2,5	
			5 m	30938	KMF-1-230AC-5	
Illuminating seal						
	Port pattern type C, to DIN EN 175301-803	24 V DC		151717	MEB-LD-12-24DC	
		230 V AC		151718	MEB-LD-230AC	
	Port pattern type B, to DIN EN 175301-803	24 V DC		19143	MF-LD-12-24DC	
		230 V AC		19144	MF-LD-230AC	

Solenoid valves VUVS/valve manifold VTUS, NPT

Ordering data – Solenoid valves, size 30

Ordering data					
	Description		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
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
Silencer					
	With connecting thread NPT (metal design)	3/8 NPT	12740	U-3/8-B-NPT	1

1) Packaging unit

Ordering data				
Description		Weight [g]	Part No.	Type
Foot mounting				
	With screw set for attaching the valve to the foot mounting	239	8026337	VAME-B10-30-A
Wall mounting				
	With screw set for attaching the valve to the wall mounting (for size 20, 25, 30)	53	576413	VAME-B10-20-W
Spare parts selection				
	Set comprising seals and screws	22	8035637	VAME-B10-30-MK

Solenoid valves VUVS/valve manifold VTUS, NPT

Order code – Manifold block


VABM	-	B10	-		-
Manifold assembly parts					
Manifold block		VABM			
Valve series					
VUVS		B10			
Valve width					
21 mm				20	
26.5 mm				25	
30 mm				30	
Version					
Supply manifold					-
Compact manifold block					S
Standard manifold block					E

	-		-		-	
Connection						
	-					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						N1/4
N38						N3/8
N12						N1/2
N34						N3/4

Solenoid valves VUVS/valve manifold VTUS, NPT

FESTO

Technical data – Manifold block, size 20

-  - Flow rate
Up to 700 l/min



General technical data					
Valve function	Manifold block standard		Manifold block compact		Supply manifold On both sides
	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

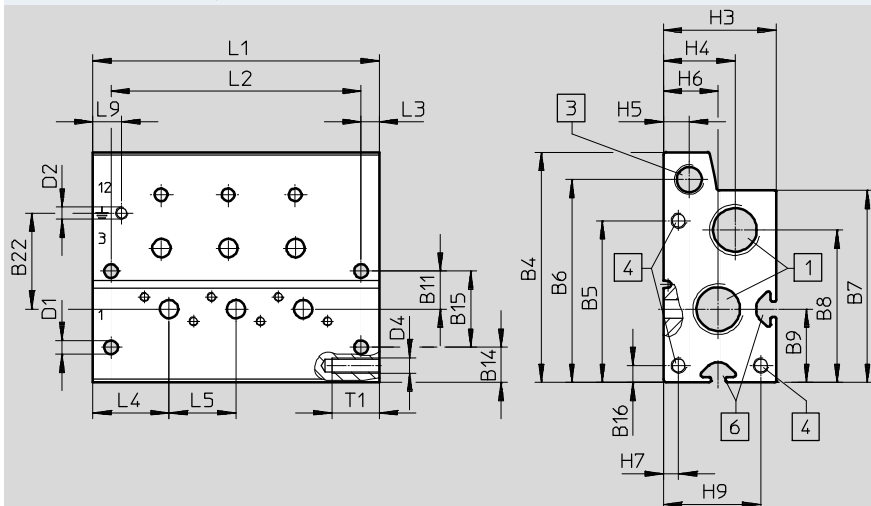
Information on materials	
Materials	Wrought aluminium alloy
Note on materials	RoHS compliant

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 20

Dimensions

Manifold block for 3/2-way valves, standard



- 1 Ports 1 and 3: 3/8 NPT
- 3 Port 12: 1/8 NPT
- 4 Thread M5x15.5 for extension module
- 6 Profile slot IPM-05, system 5

Type	B4	B5	B6	B7	B8	B9	B11	B14	B15	B16	B22
VABM-B10-20E-...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

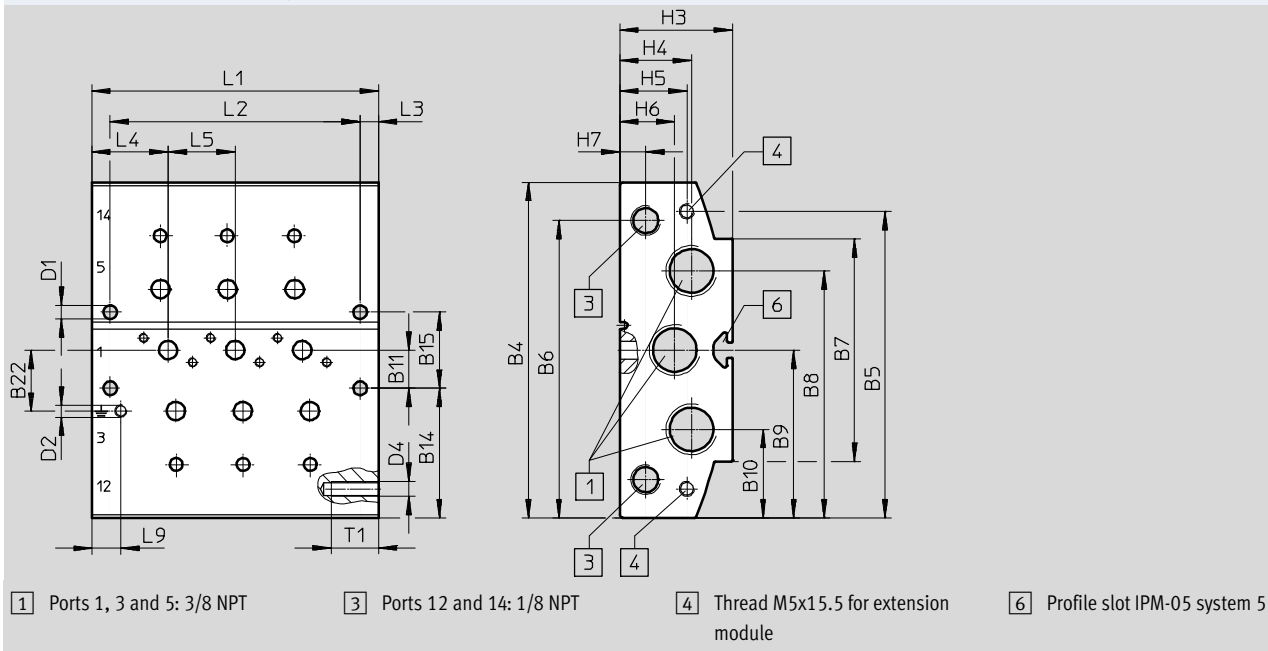
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	72	94	116	138	160	182	204	226	248
L2 [mm]	60	82	104	126	148	170	192	214	236

Solenoid valves VUVS/valve manifold VTUS, NPT

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

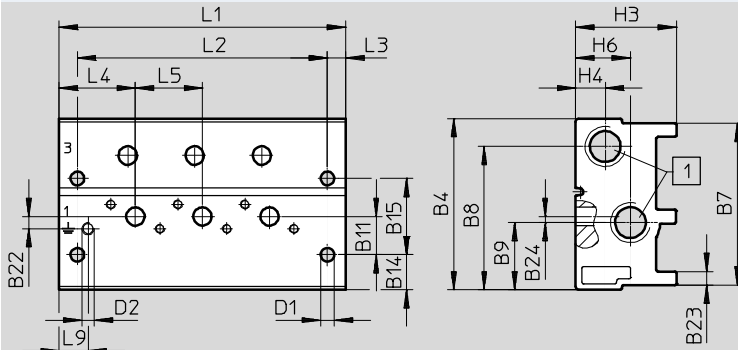
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	72	94	116	138	160	182	204	226	248
L2 [mm]	60	82	104	126	148	170	192	214	236

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 20

Dimensions

Manifold block for 3/2-way valves, compact



1 Ports 1 and 3: 1/4 NPT

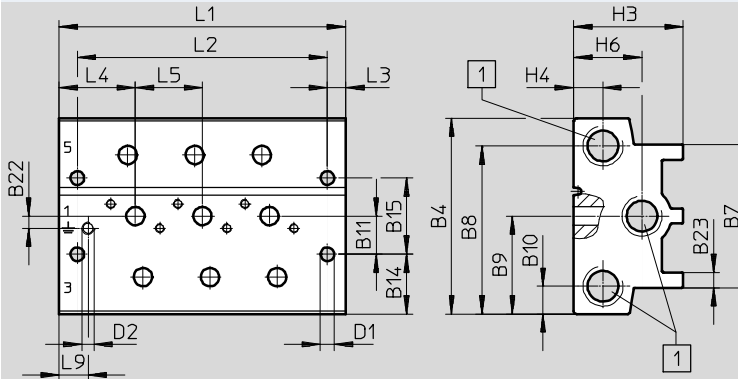
Type	B4	B7	B8	B9	B11	B14	B15	B22	B23	B24
VABM-B10-20S-...N14-...-P3	56.1	53.1	47	22	12.5	11.5	25	4	4.5	2

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: 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	19.6	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

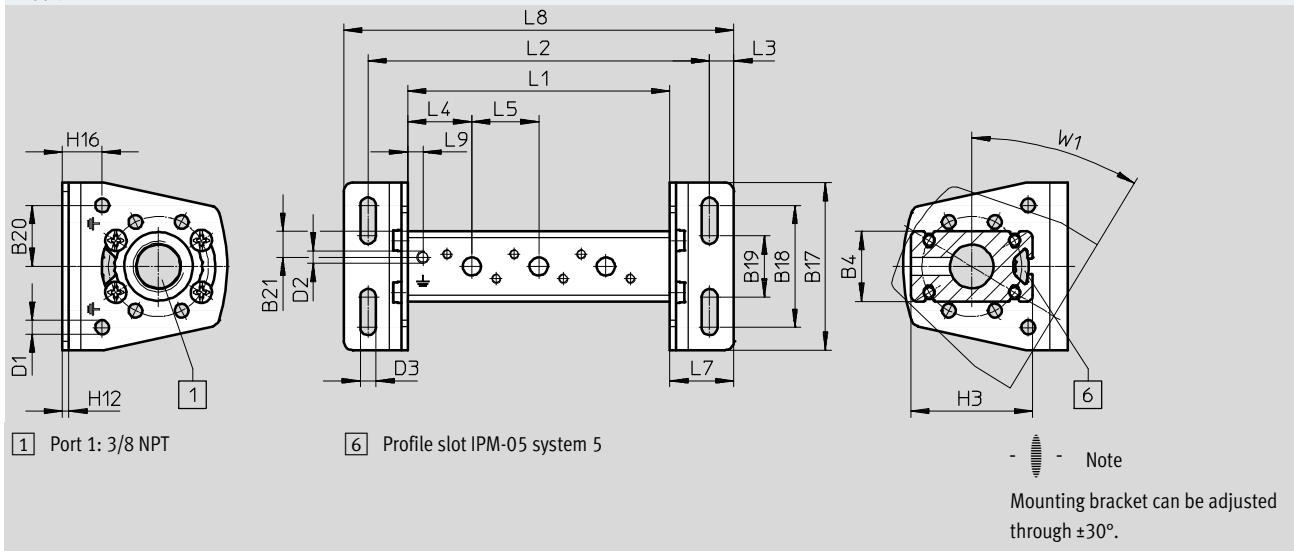
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	72	94	116	138	160	182	204	226	248
L2 [mm]	60	82	104	126	148	170	192	214	236

Solenoid valves VUUS/valve manifold VTUS, NPT

Technical data – Manifold block, size 20

Dimensions

Supply manifold, mounting on both sides

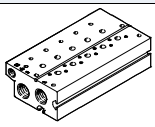

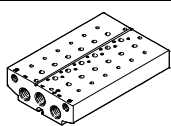

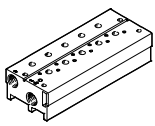

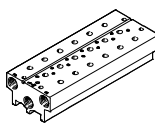

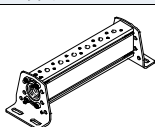



Type	B4	B17	B18	B19	B20	B21	D1 \varnothing	D2	D3 \varnothing	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-20-N38-...-P53	23	55	40	20	20	8.5	4.5	M4x6.5	5.2	40	2	13	8	21	22	21	5	30°

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

Solenoid valves VUVS/valve manifold VTUS, NPT

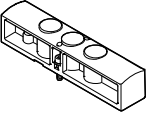
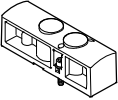

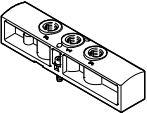

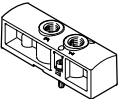



Ordering data – Manifold block, size 20

Ordering data – Manifold block			
Description	Valve positions	Part No.	Type
Standard manifold block			
 <p>For 3/2-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3 and 14) at one end are included in the scope of delivery.</p>	2	576453	VABM-B10-20E-N38-2-P3
	3	576454	VABM-B10-20E-N38-3-P3
	4	576455	VABM-B10-20E-N38-4-P3
	5	576456	VABM-B10-20E-N38-5-P3
	6	576457	VABM-B10-20E-N38-6-P3
	7	576458	VABM-B10-20E-N38-7-P3
	8	576459	VABM-B10-20E-N38-8-P3
	9	576460	VABM-B10-20E-N38-9-P3
	10	576461	VABM-B10-20E-N38-10-P3
	 <p>For 5/2- and 5/3-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) at one end are included in the scope of delivery.</p>	2	576351
3		576352	VABM-B10-20E-N38-3
4		576353	VABM-B10-20E-N38-4
5		576354	VABM-B10-20E-N38-5
6		576355	VABM-B10-20E-N38-6
7		576356	VABM-B10-20E-N38-7
8		576357	VABM-B10-20E-N38-8
9		576358	VABM-B10-20E-N38-9
10		576359	VABM-B10-20E-N38-10
Compact manifold block			
 <p>For 3/2-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1 and 3) at one end are included in the scope of delivery.</p>	2	576477	VABM-B10-20S-N14-2-P3
	3	576478	VABM-B10-20S-N14-3-P3
	4	576479	VABM-B10-20S-N14-4-P3
	5	576480	VABM-B10-20S-N14-5-P3
	6	576481	VABM-B10-20S-N14-6-P3
	7	576482	VABM-B10-20S-N14-7-P3
	8	576483	VABM-B10-20S-N14-8-P3
	9	576484	VABM-B10-20S-N14-9-P3
	10	576485	VABM-B10-20S-N14-10-P3
	 <p>For 5/2- and 5/3-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3 and 5) at one end are included in the scope of delivery.</p>	2	576429
3		576430	VABM-B10-20S-N14-3
4		576431	VABM-B10-20S-N14-4
5		576432	VABM-B10-20S-N14-5
6		576433	VABM-B10-20S-N14-6
7		576434	VABM-B10-20S-N14-7
8		576435	VABM-B10-20S-N14-8
9		576436	VABM-B10-20S-N14-9
10		576437	VABM-B10-20S-N14-10
Supply manifold			
 <p>For mounting on both sides, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plug for sealing the supply port (1) at one end included in the scope of delivery.</p>	2	576375	VABM-B10-20-N38-2-P53
	3	576376	VABM-B10-20-N38-3-P53
	4	576377	VABM-B10-20-N38-4-P53
	5	576378	VABM-B10-20-N38-5-P53
	6	576379	VABM-B10-20-N38-6-P53
	7	576380	VABM-B10-20-N38-7-P53
	8	576381	VABM-B10-20-N38-8-P53
	9	576382	VABM-B10-20-N38-9-P53
	10	576383	VABM-B10-20-N38-10-P53

Solenoid valves VUVS/valve manifold VTUS, NPT

FESTO



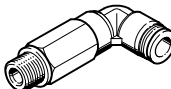
Accessories – Manifold block, size 20

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





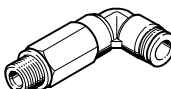

Solenoid valves VUVS/valve manifold VTUS, NPT

FESTO

Accessories – Manifold block, size 20

Ordering data					
	Description of NPT thread		Part No.	Type	PU ¹⁾
Push-in fitting with internal hex socket					
	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
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

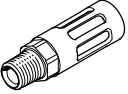
Ordering data					
	Description of G thread		Part No.	Type	PU ¹⁾
Push-in fitting with internal hex					
	Connecting thread G1/8 for tubing O.D.  - Note Push-in fittings with G thread are only for supply plates.	4 mm	186106	QS-G1/8-4-I	10
			133008	QS-G1/8-4-I-100	100
		6 mm	186107	QS-G1/8-6-I	10
			133009	QS-G1/8-6-I-100	100
		8 mm	186109	QS-G1/8-8-I	10
			133010	QS-G1/8-8-I-100	100
Angled push-in fitting with external hex					
	Connecting thread G1/8 for tubing O.D.  - Note Push-in fittings with G thread are only for supply plates.	4 mm	186116	QSL-G1/8-4	10
			132048	QSL-G1/8-4-100	100
		6 mm	186117	QSL-G1/8-6	10
			132049	QSL-G1/8-6-100	100
		8 mm	186119	QSL-G1/8-8	10
			132050	QSL-G1/8-8-50	50
Angled push-in fitting, long, with external hex					
	Connecting thread G1/8 for tubing O.D.  - Note Push-in fittings with G thread are only for supply plates.	4 mm	186127	QSLG-G1/8-4	10
			133015	QSLG-G1/8-4-100	100
		6 mm	186128	QSLG-G1/8-6	10
			133016	QSLG-G1/8-6-100	100
		8 mm	186130	QSLG-G1/8-8	10
			133017	QSLG-G1/8-8-100	100

1) Packaging unit



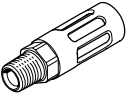

Solenoid valves VUVS/valve manifold VTUS, NPT

FESTO

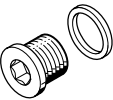



Accessories – Manifold block, size 20

Ordering data					
	Description of NPT thread		Part No.	Type	PU ¹⁾
Silencer					
	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

1) Packaging unit

Ordering data					
	Description of G thread		Part No.	Type	PU ¹⁾
Silencer					
	With connecting thread G (plastic design) -  - Note Silencers with G thread are only for supply plates.	G1/8	2307	U-1/8	1
			534222	U-1/8-50	50
	With connecting thread G (metal design) -  - Note Silencers with G thread are only for supply plates.	G1/8	6841	U-1/8-B	1


1) Packaging unit

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	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 mounting the valve manifold on standard H-rail TH 35-7.5 or TH 35-15, to EN 60715		569998	VAME-T-M4	2
Inscription label					
	40 pieces in frame		565306	ASLR-C-E4	1

1) Packaging unit

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 25

-  - Flow rate
Up to 1300 l/min



General technical data					
	Manifold block standard		Manifold block compact		Supply manifold on both sides
For valves	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2, 5/2, 5/3
Grid dimension [mm]	27.5				
Type of mounting	With through-hole				With mounting bracket
Maximum number of valve positions	10	10	10	10	10
Port 1	1/2 NPT	1/2 NPT	3/8 NPT	3/8 NPT	1/2 NPT
Port 3	1/2 NPT	1/2 NPT	3/8 NPT	3/8 NPT	-
Port 5	-	1/2 NPT	-	3/8 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	729	963	1197	1431	1665	1899	2133	2367	2601
Manifold block for 5/2- and 5/3-way valves, standard									
VABM-B10-25E-...N12-...	932	1229	1526	1823	2120	2417	2714	3011	3308
Manifold block for 3/2-way valves, compact									
VABM-B10-25S-...N38-...-P3	371	490	609	728	847	966	1085	1204	1323
Manifold block for 5/2- and 5/3-way valves, compact									
VABM-B10-25S-...N38-...	440	581	722	863	1004	1145	1286	1427	1568
Supply manifold for mounting on both sides									
VABM-B10-25-...N12-...-P53	260	342	424	506	588	670	752	834	916

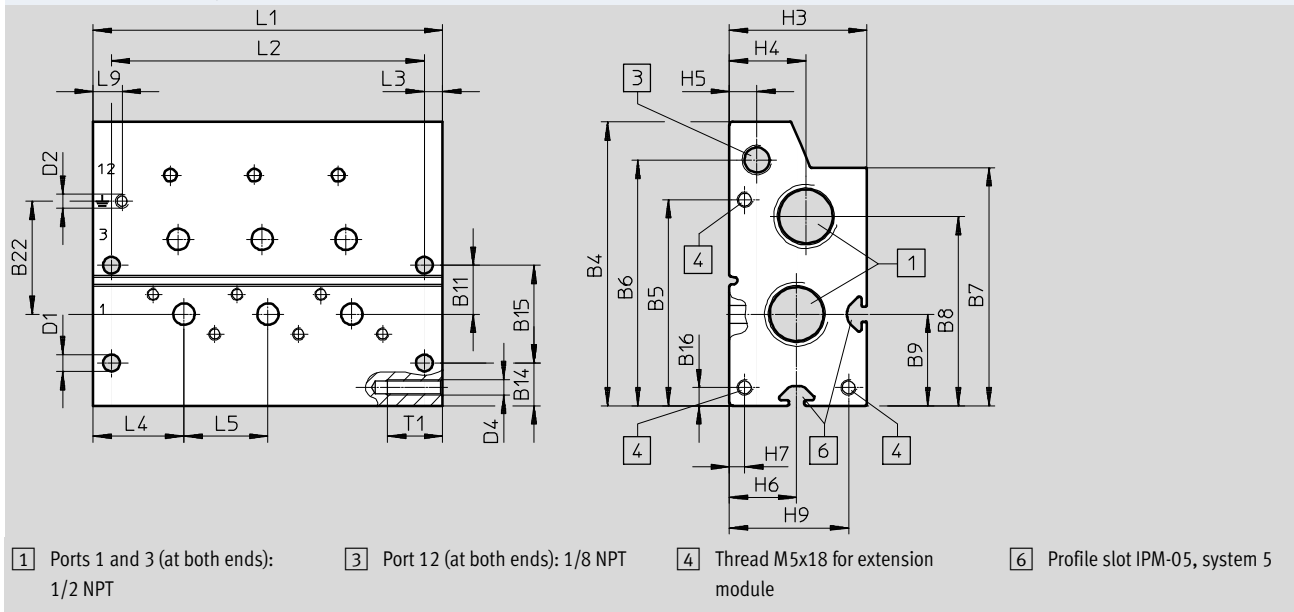
Information on materials	
Materials	Wrought aluminium alloy
Note on materials	RoHS compliant

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 25

Dimensions

Manifold block for 3/2-way valves, standard



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

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

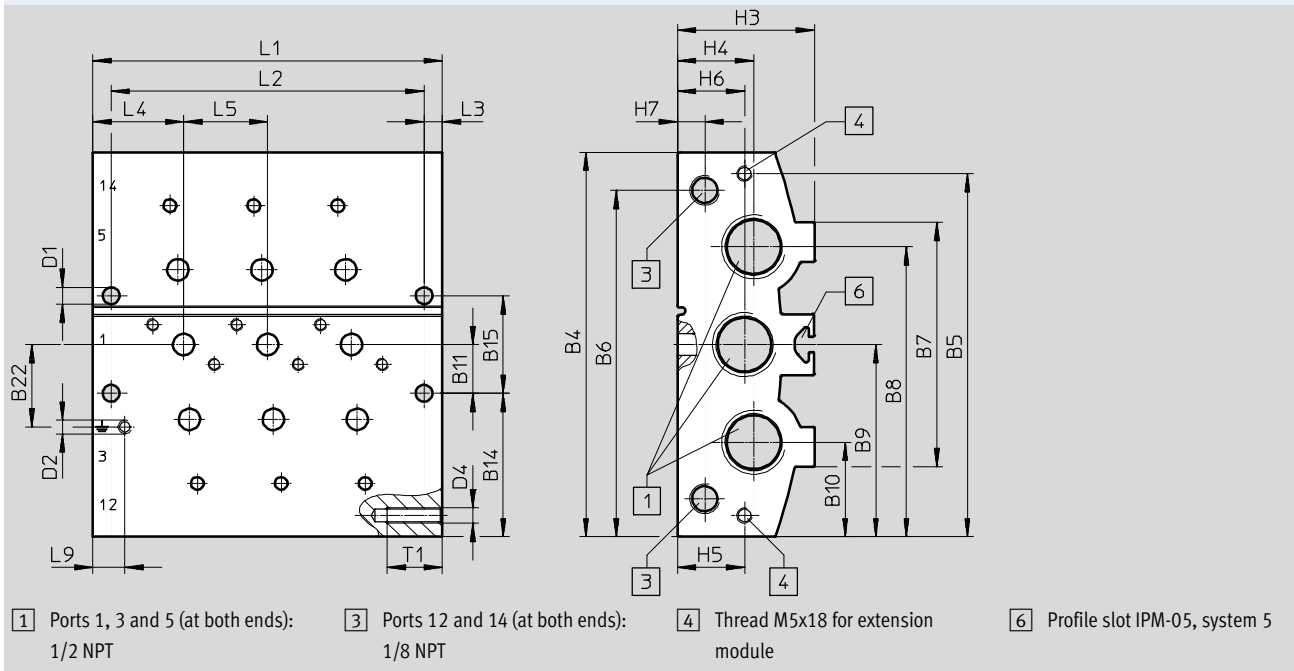
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

Solenoid valves VUVS/valve manifold VTUS, NPT

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

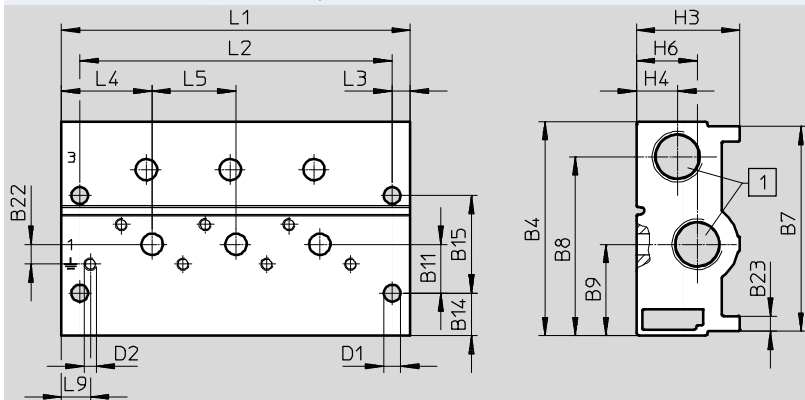
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 25

Dimensions

Manifold block for 3/2-way valves, compact



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

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

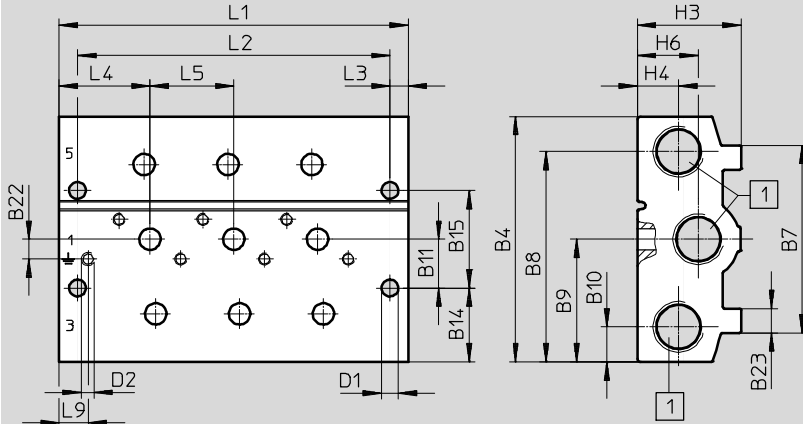
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 25

Dimensions

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



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

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

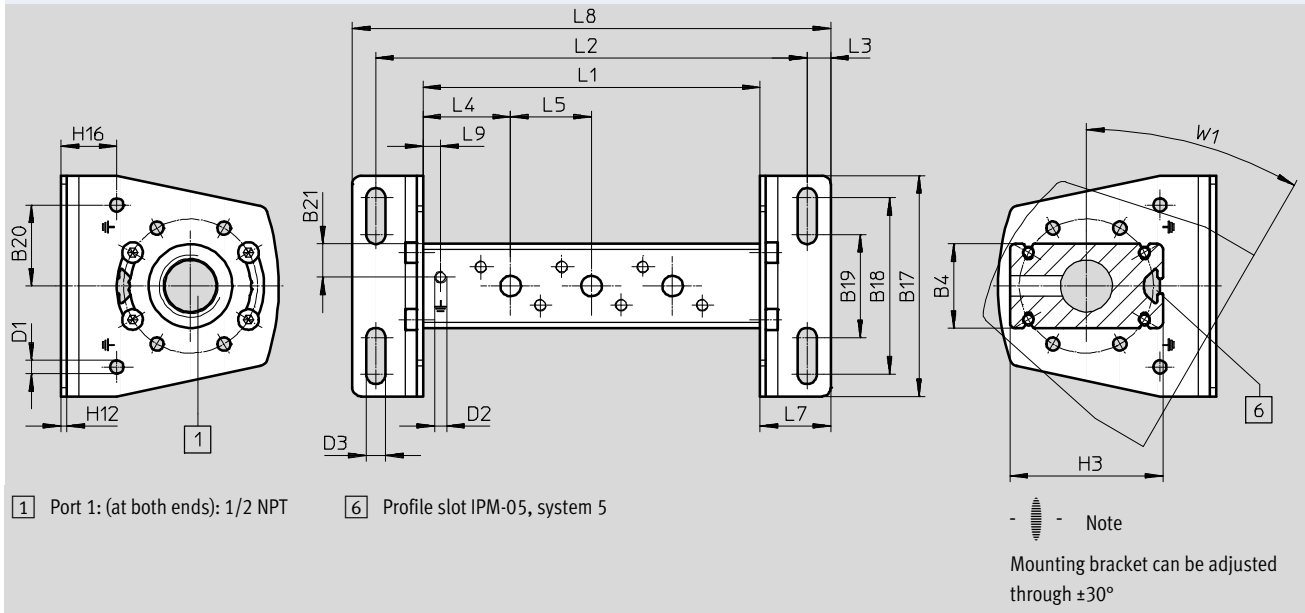
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	87	114.5	142	169.5	197	224.5	252	279.5	307
L2 [mm]	75	102.5	130	157.5	185	212.5	240	267.5	295

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 25

Dimensions

Supply manifold, mounting on both sides

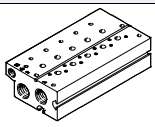

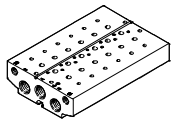

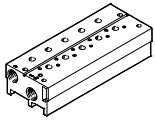

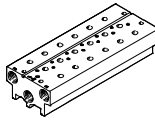

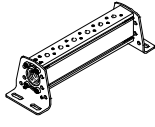



Type	B4	B17	B18	B19	B20	B21	D1 \varnothing	D2	D3 \varnothing	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-25-N12-...-P53	28.7	75	60	35	27.5	11.4	4.5	M4x9	6.6	52	2	19	8	29.8	27.5	24	6	30

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

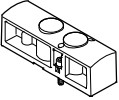
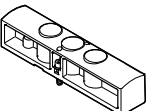

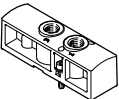

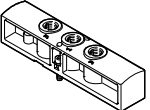



Solenoid valves VUVS/valve manifold VTUS, NPT

Ordering data – Manifold block, size 25

Ordering data			
Description	Valve positions	Part No.	Type
Standard manifold block			
 <p>For 3/2-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3 and 14) at one end are included in the scope of delivery.</p>	2	8026288	VABM-B10-25E-N12-2-P3
	3	8026289	VABM-B10-25E-N12-3-P3
	4	8026290	VABM-B10-25E-N12-4-P3
	5	8026291	VABM-B10-25E-N12-5-P3
	6	8026292	VABM-B10-25E-N12-6-P3
	7	8026293	VABM-B10-25E-N12-7-P3
	8	8026294	VABM-B10-25E-N12-8-P3
	9	8026295	VABM-B10-25E-N12-9-P3
	10	8026296	VABM-B10-25E-N12-10-P3
	 <p>For 5/2- and 5/3-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) at one end are included in the scope of delivery.</p>	2	8026252
3		8026253	VABM-B10-25E-N12-3
4		8026254	VABM-B10-25E-N12-4
5		8026255	VABM-B10-25E-N12-5
6		8026256	VABM-B10-25E-N12-6
7		8026257	VABM-B10-25E-N12-7
8		8026258	VABM-B10-25E-N12-8
9		8026259	VABM-B10-25E-N12-9
10		8026260	VABM-B10-25E-N12-10
Compact manifold block			
 <p>For 3/2-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1 and 3) at one end are included in the scope of delivery.</p>	2	8026306	VABM-B10-25S-N38-2-P3
	3	8026307	VABM-B10-25S-N38-3-P3
	4	8026308	VABM-B10-25S-N38-4-P3
	5	8026309	VABM-B10-25S-N38-5-P3
	6	8026310	VABM-B10-25S-N38-6-P3
	7	8026311	VABM-B10-25S-N38-7-P3
	8	8026312	VABM-B10-25S-N38-8-P3
	9	8026313	VABM-B10-25S-N38-9-P3
	10	8026314	VABM-B10-25S-N38-10-P3
	 <p>For 5/2- and 5/3-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3 and 5) at one end are included in the scope of delivery.</p>	2	8026270
3		8026271	VABM-B10-25S-N38-3
4		8026272	VABM-B10-25S-N38-4
5		8026273	VABM-B10-25S-N38-5
6		8026274	VABM-B10-25S-N38-6
7		8026275	VABM-B10-25S-N38-7
8		8026276	VABM-B10-25S-N38-8
9		8026277	VABM-B10-25S-N38-9
10		8026278	VABM-B10-25S-N38-10
Supply manifold			
 <p>For mounting on both sides, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plug for sealing the supply port (1) at one end included in the scope of delivery.</p>	2	8026228	VABM-B10-25-N12-2-P53
	3	8026229	VABM-B10-25-N12-3-P53
	4	8026230	VABM-B10-25-N12-4-P53
	5	8026231	VABM-B10-25-N12-5-P53
	6	8026232	VABM-B10-25-N12-6-P53
	7	8026233	VABM-B10-25-N12-7-P53
	8	8026234	VABM-B10-25-N12-8-P53
	9	8026235	VABM-B10-25-N12-9-P53
	10	8026236	VABM-B10-25-N12-10-P53

Solenoid valves VUVS/valve manifold VTUS, NPT




Accessories – Manifold block, size 25

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





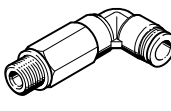

Solenoid valves VUVS/valve manifold VTUS, NPT

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

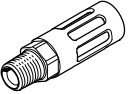
Ordering data					
	Description of G thread	Part No.	Type	PU ¹⁾	
Push-in fitting with internal hex					
	Connecting thread G1/4 for tubing O.D.	6 mm	186108	QS-G1/4-6-I	10
		8 mm	186110	QS-G1/4-8-I	10
		10 mm	186112	QS-G1/4-10-I	10
	-  - Note Push-in fittings with G thread are only for supply plates.				
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 Push-in fittings with G thread are only for supply plates.	8 mm	186120	QSL-G1/4-8	10
			132052	QSL-G1/4-8-50	50
	10 mm	186122	QSL-G1/4-10	10	
		132053	QSL-G1/4-10-50	50	
Angled push-in fitting, long, with external hex					
	Connecting thread G1/4 for tubing O.D.	6 mm	186129	QSL-G1/4-6	10
		8 mm	186131	QSL-G1/4-8	10
		10 mm	186133	QSL-G1/4-10	10
	-  - Note Push-in fittings with G thread are only for supply plates.				

1) Packaging unit

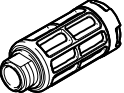

Solenoid valves VUVS/valve manifold VTUS, NPT

FESTO

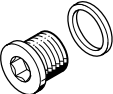

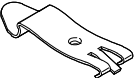

Accessories – Manifold block, size 25

Ordering data					
	Description of NPT thread		Part No.	Type	PU ¹⁾
Silencer					
	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

1) Packaging unit

Ordering data					
	Description of G thread		Part No.	Type	PU ¹⁾
Silencer					
	With connecting thread G (plastic design)	G1/4	2316	U-1/4	1
			534223	U-1/4-20	20
	 - Note Silencers with G thread are only for supply plates.				


1) Packaging unit

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			
		G1/4	569996	VABD-10-B	1
		1/4 NPT			
		G3/8	574483	VABD-14-B	1
		3/8 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
Inscription label					
	40 pieces in frame		565306	ASLR-C-E4	1

1) Packaging unit

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 30

 Flow rate
Up to 2300 l/min



General technical data					
Valve function	Manifold block standard		Manifold block compact		Supply manifold On both sides
	3/2	5/2, 5/3	3/2	5/2, 5/3	3/2, 5/2, 5/3
Grid dimension [mm]	32				
Type of mounting	With through-hole				With mounting bracket
Max. number of valve positions	10	10	10		10
Port 1	3/4 NPT	3/4 NPT	1/2 NPT	1/2 NPT	3/4 NPT
Port 3	3/4 NPT	3/4 NPT	1/2 NPT	1/2 NPT	–
Port 5	–	3/4 NPT	–	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-B10-30E-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

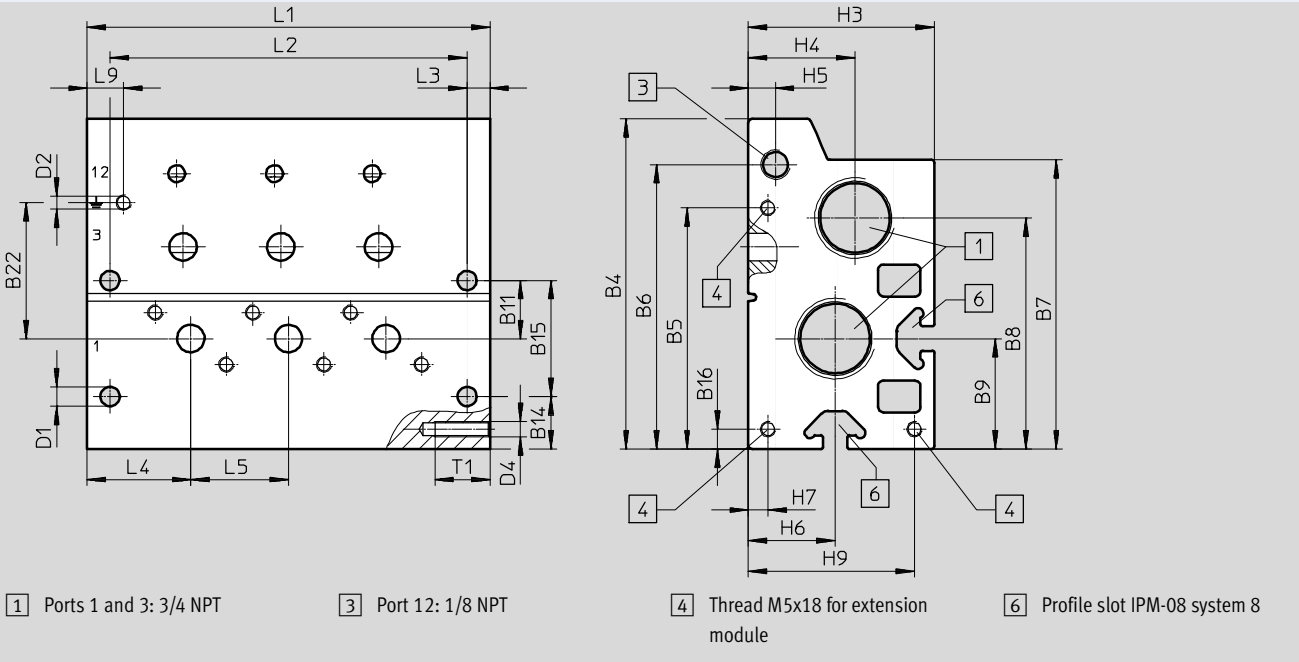
Information on materials	
Materials	Wrought aluminium alloy
Note on materials	RoHS-compliant

Solenoid valves VUVS/valve manifold VTUS, NPT

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-B10-30E-N34-...-P3	108.2	79	93.2	94.7	75.7	36.2	19	17.2	38	6.5	44.5

Type	D1 Ø	D2	D4	H3	H4	H5	H6	H7	H9	L3	L4	L5	L9	T1
VABM-B10-30E-N34-...-P3	6.3	M5x11	M5	61	35	9	28.5	6.5	54.5	7.5	34	32	12	18

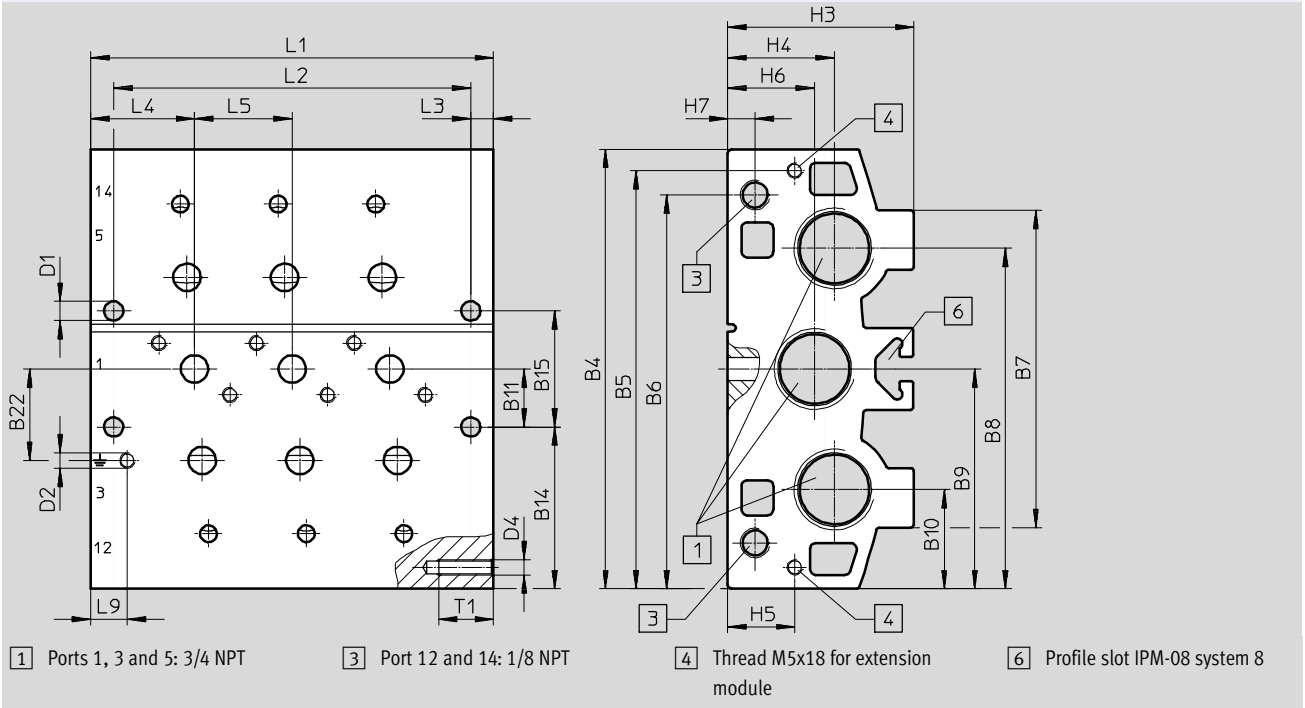
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	100	132	164	196	228	260	292	324	356
L2 [mm]	85	117	149	181	213	245	277	309	341

Solenoid valves VUUS/valve manifold VTUS, NPT

Technical data – Manifold block, size 30

Dimensions

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



Type	B4	B5	B6	B7	B8	B9	B10	B11	B14	B15	B22
VABM-B10-30E-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	M5x11	M5	61	35	22	28.5	9	7.5	34	32	12	18

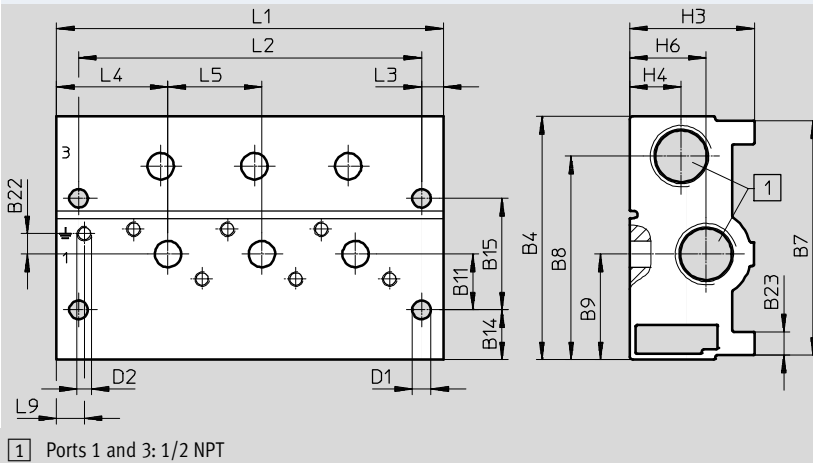
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	100	132	164	196	228	260	292	324	356
L2 [mm]	85	117	149	181	213	245	277	309	341

Solenoid valves VUVS/valve manifold VTUS, NPT

Technical data – Manifold block, size 30

Dimensions

Manifold block for 3/2-way valves, compact



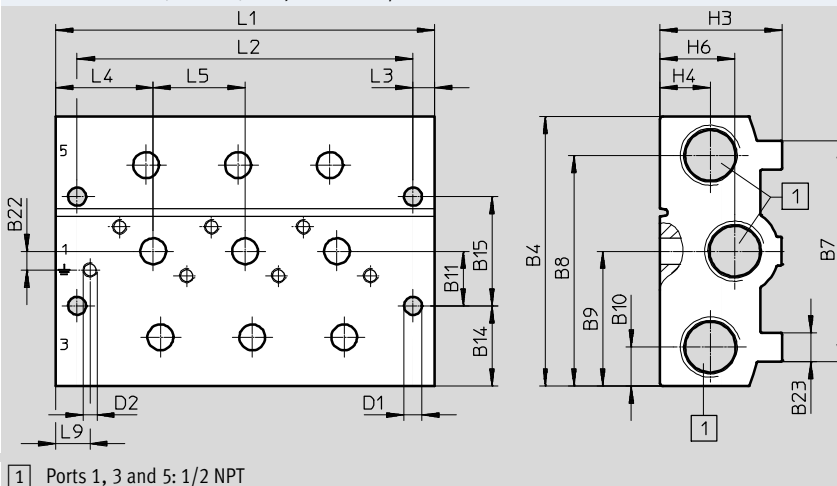
Type	B4	B7	B8	B9	B11	B14	B15	B22	B23
VABM-B10-30S-N12-...-P3	83	80	69.4	36	19	17	38	7	8

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

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

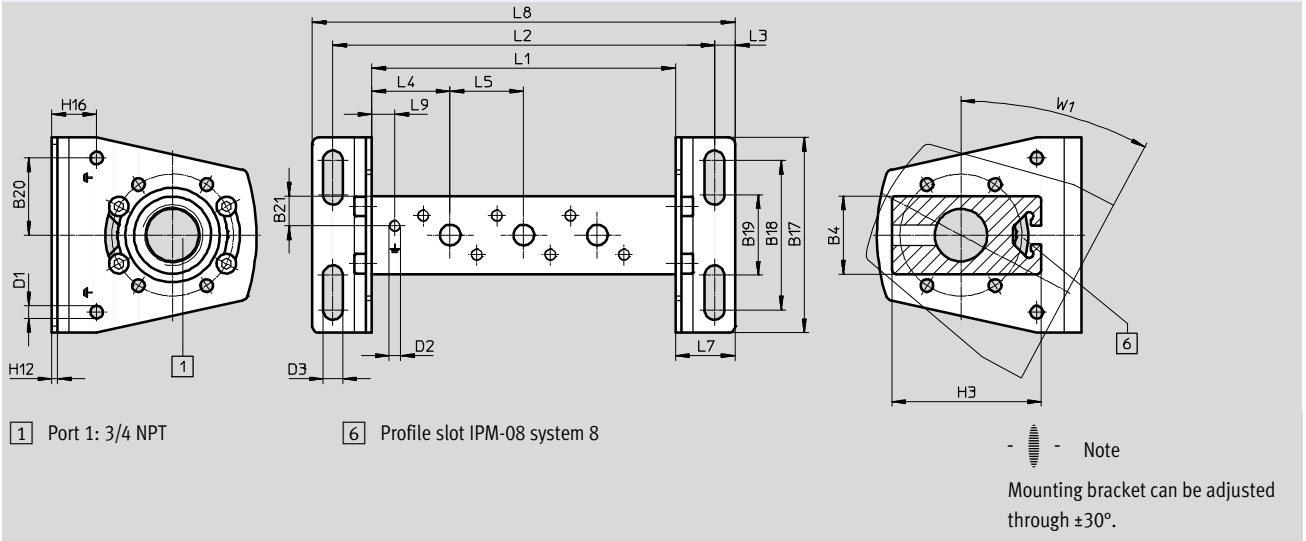
Valve positions	2	3	4	5	6	7	8	9	10
L1 [mm]	100	132	164	196	228	260	292	324	356
L2 [mm]	85	117	149	181	213	245	277	309	341

Solenoid valves VUUS/valve manifold VTUS, NPT

Technical data – Manifold block, size 30

Dimensions

Supply manifold, mounting on both sides

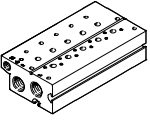

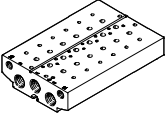

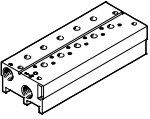

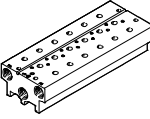

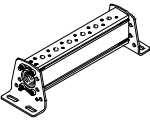



Type	B4	B17	B18	B19	B20	B21	D1 \varnothing	D2	D3 \varnothing	H3	H12	H16	L3	L4	L5	L7	L9	W1
VABM-B10-30-N34-...-P53	34	85	65	35	33.5	13	5.5	M5x11	8.6	65	2.5	19.5	9	34	32	26	10	30°

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

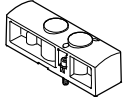
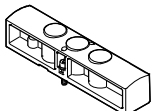

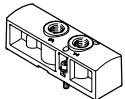

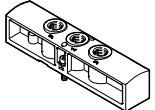



Solenoid valves VUVS/valve manifold VTUS, NPT

Ordering data – Manifold block, size 30

Ordering data – Manifold block			
Description	Valve positions	Part No.	Type
Standard manifold block			
 <p>For 3/2-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3 and 14) at one end are included in the scope of delivery.</p>	2	8026404	VABM-B10-30E-N34-2-P3
	3	8026405	VABM-B10-30E-N34-3-P3
	4	8026406	VABM-B10-30E-N34-4-P3
	5	8026407	VABM-B10-30E-N34-5-P3
	6	8026408	VABM-B10-30E-N34-6-P3
	7	8026409	VABM-B10-30E-N34-7-P3
	8	8026410	VABM-B10-30E-N34-8-P3
	9	8026411	VABM-B10-30E-N34-9-P3
	10	8026412	VABM-B10-30E-N34-10-P3
	 <p>For 5/2- and 5/3-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3, 5, 12 and 14) at one end are included in the scope of delivery.</p>	2	8026368
3		8026369	VABM-B10-30E-N34-3
4		8026370	VABM-B10-30E-N34-4
5		8026371	VABM-B10-30E-N34-5
6		8026372	VABM-B10-30E-N34-6
7		8026373	VABM-B10-30E-N34-7
8		8026374	VABM-B10-30E-N34-8
9		8026375	VABM-B10-30E-N34-9
10		8026376	VABM-B10-30E-N34-10
Compact manifold block			
 <p>For 3/2-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1 and 3) at one end are included in the scope of delivery.</p>	2	8026422	VABM-B10-30S-N12-2-P3
	3	8026423	VABM-B10-30S-N12-3-P3
	4	8026424	VABM-B10-30S-N12-4-P3
	5	8026425	VABM-B10-30S-N12-5-P3
	6	8026426	VABM-B10-30S-N12-6-P3
	7	8026427	VABM-B10-30S-N12-7-P3
	8	8026428	VABM-B10-30S-N12-8-P3
	9	8026429	VABM-B10-30S-N12-9-P3
	10	8026430	VABM-B10-30S-N12-10-P3
	 <p>For 5/2- and 5/3-way valves, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plugs for sealing the supply ports (1, 3 and 5) at one end are included in the scope of delivery.</p>	2	8026386
3		8026387	VABM-B10-30S-N12-3
4		8026388	VABM-B10-30S-N12-4
5		8026389	VABM-B10-30S-N12-5
6		8026390	VABM-B10-30S-N12-6
7		8026391	VABM-B10-30S-N12-7
8		8026392	VABM-B10-30S-N12-8
9		8026393	VABM-B10-30S-N12-9
10		8026394	VABM-B10-30S-N12-10
Supply manifold			
 <p>For mounting on both sides, incl. seals and screws for valve assembly</p> <p>-  - Note Blanking plug for sealing the supply port (1) at one end included in the scope of delivery.</p>	2	8026347	VABM-B10-30-N34-2-P53
	3	8026348	VABM-B10-30-N34-3-P53
	4	8026349	VABM-B10-30-N34-4-P53
	5	8026350	VABM-B10-30-N34-5-P53
	6	8026351	VABM-B10-30-N34-6-P53
	7	8026352	VABM-B10-30-N34-7-P53
	8	8026353	VABM-B10-30-N34-8-P53
	9	8026354	VABM-B10-30-N34-9-P53
	10	8026355	VABM-B10-30-N34-10-P53





Solenoid valves VUVS/valve manifold VTUS, NPT

Accessories – Manifold block, size 30





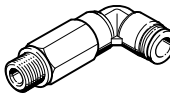

Ordering data				
Description		Weight [g]	Part No.	Type
Blanking plate				
	For valve position on manifold block for 3/2-way valves	128	8026336	VABB-B10-30-E-P3
	For valve position on manifold block for 5/2-, 5/3-way valves	179	8026335	VABB-B10-30-E
	For valve position on supply manifold	43	8026334	VABB-B10-30-A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

Solenoid valves VUVS/valve manifold VTUS, NPT

Accessories – Manifold block, size 30

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

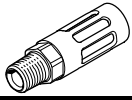
1) Packaging unit

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. -  - Note Push-in fittings with G thread are only for supply plates.	8 mm	186111	QS-G3/8-8-I	10
		10 mm	186113	QS-G3/8-10-I	10
		12 mm	186114	QS-G3/8-12-I	10
Angled push-in fitting with external hex					
	Connecting thread G3/8 for tubing O.D. -  - Note Push-in fittings with G thread are only for supply plates.	8 mm	186121	QSL-G3/8-8	10
			132055	QSL-G3/8-8-50	50
		10 mm	186123	QSL-G3/8-10	10
			132056	QSL-G3/8-10-20	20
		12 mm	186124	QSL-G3/8-12	10
132057	QSL-G3/8-12-20	20			
Angled push-in fitting, long, with external hex					
	Connecting thread G3/8 for tubing O.D. -  - Note Push-in fittings with G thread are only for supply plates.	8 mm	186132	QSL-G3/8-8	10
		10 mm	186134	QSL-G3/8-10	10
		12 mm	186135	QSL-G3/8-12	10

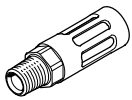

1) Packaging unit

Solenoid valves VUVS/valve manifold VTUS, NPT

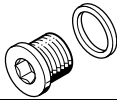

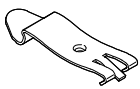

Accessories – Manifold block, size 30

Ordering data					
Description of NPT thread		Part No.	Type	PU ¹⁾	
Silencer					
	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
		3/4 NPT	566823	U-3/4-B-NPT	1

1) Packaging unit

Ordering data					
Description of G thread		Part No.	Type	PU ¹⁾	
Silencer					
	With connecting thread G (metal design)	G3/8	6843	U-3/8-B	1
		 Note Silencers with G thread are only for supply plates.			

1) Packaging unit

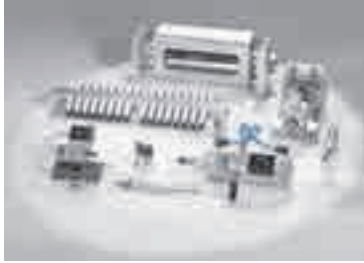
Ordering data					
Description		Part No.	Type	PU ¹⁾	
Blanking plug					
	With connecting thread NPT	1/8 NPT	173985	B-1/8-NPT	1
		1/2 NPT	31785	B-1/2-NPT	1
		3/4 NPT	31786	B-3/4-NPT	1
Separator					
	For creating pressure zones	G1/8	569995	VABD-8-B	1
		1/8 NPT			
		G1/2	8022483	VABD-17.5-B	1
		1/2 NPT			
		G3/4	8022484	VABD-22.7-B	1
		3/4 NPT			
H-rail mounting					
	For size 30, for mounting on standard H-rails TH 35-7.5 or TH 35-15 to EN 60715	3488412	VAME-T-M6	2	
Inscription label					
	40 pieces in frame	565306	ASLR-C-E4	1	

1) Packaging unit

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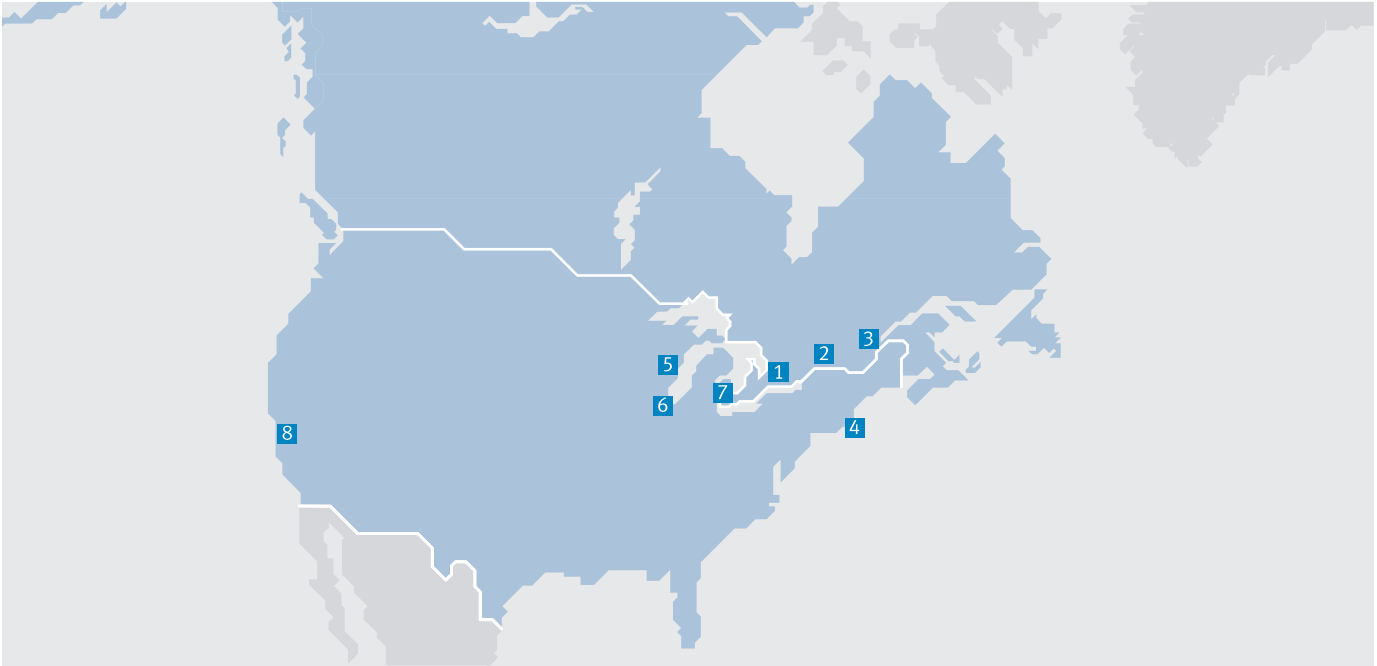


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