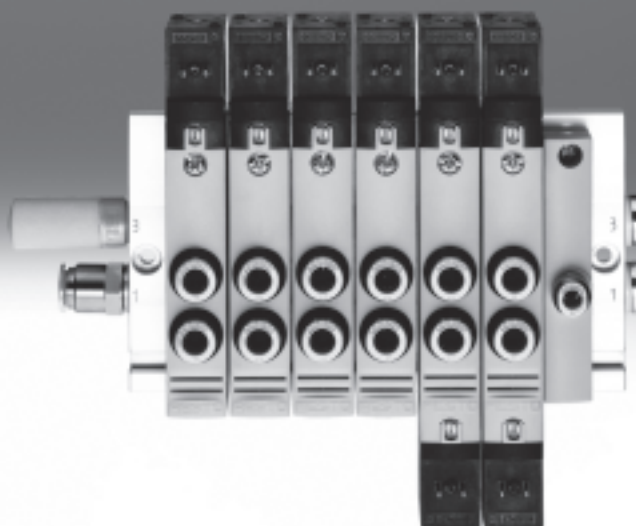


Solenoid valves VUVB/valve terminals type 24 VTUB, NPT

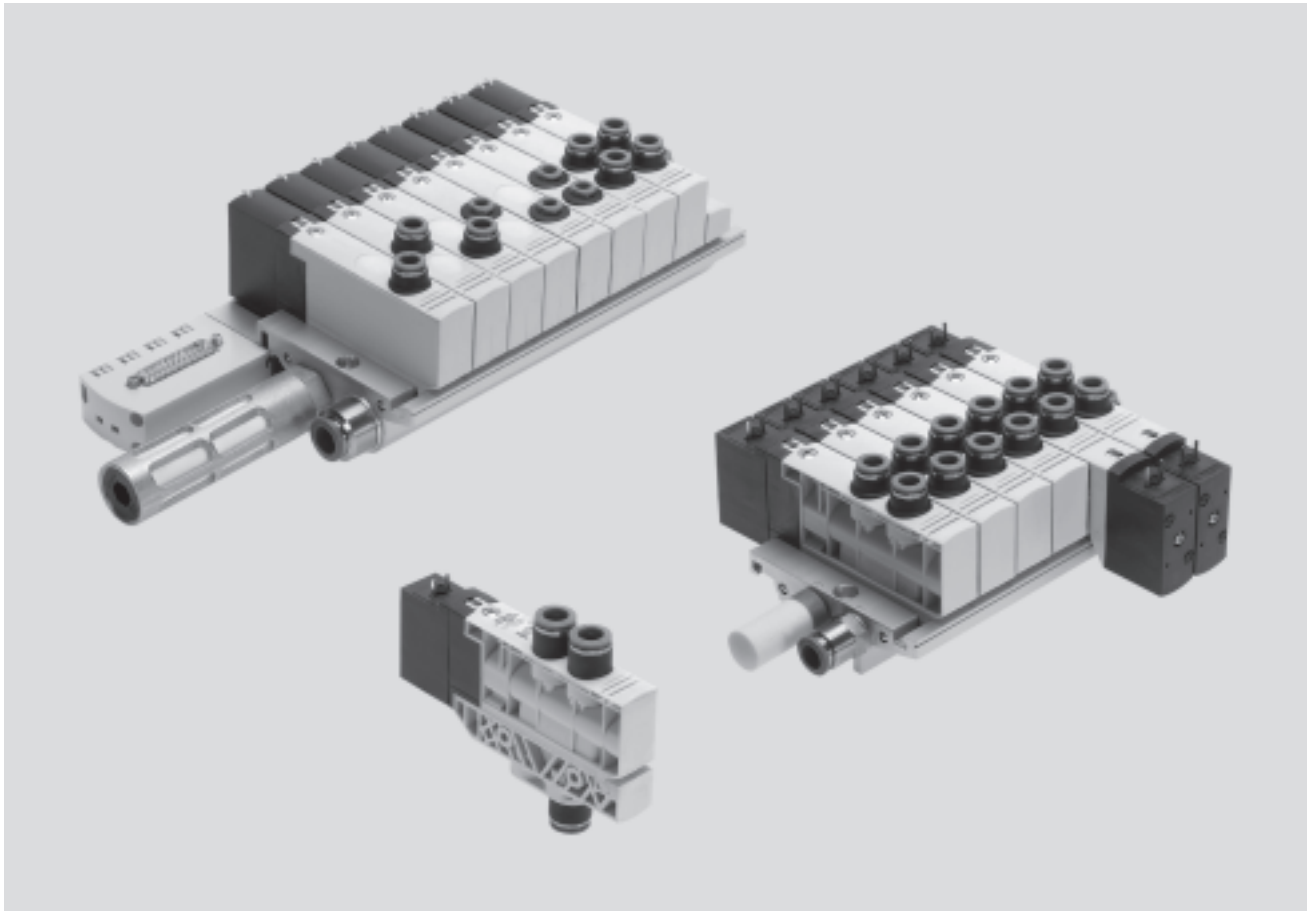
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Solenoid valves VUVB/valve terminals type 24 VTUB, NPT

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Key features



Innovative

- Valve terminal for a wide range of pneumatic applications
- Standardised from the individual valve to the multi-pin plug
- Great flexibility during planning, assembly and operation
- Selectable valve functions; 3/2- and 4/2-way function also suitable for vacuum applications
- Wide selection of optimally tailored accessories for flow rates from 200 to 1,000 l/min

Versatile

- Room for expansion with 2 ... 10 valve positions on one valve terminal
- Use of individual valves in combination with an individual sub-base
- Flexibility of the pneumatic working lines provides a practical solution to different requirements
- Two pressure zones (additional zones on request)
- High pressure range –0.9 ... 8 bar
- Extensive operating voltage range from 12 V DC to 230 V AC

Reliable

- Manual override
- Durable thanks to tried-and-tested piston spool valves
- Sturdy thanks to the polymer housing and metal manifold rail
- Fast troubleshooting thanks to an LED signal status display in the plug socket with cable or on the valve in the case of the design with multi-pin plug

Easy to mount

- Ready-to-install and tested unit
- Lower ordering, installation and commissioning costs
- Secure mounting on wall or H-rail



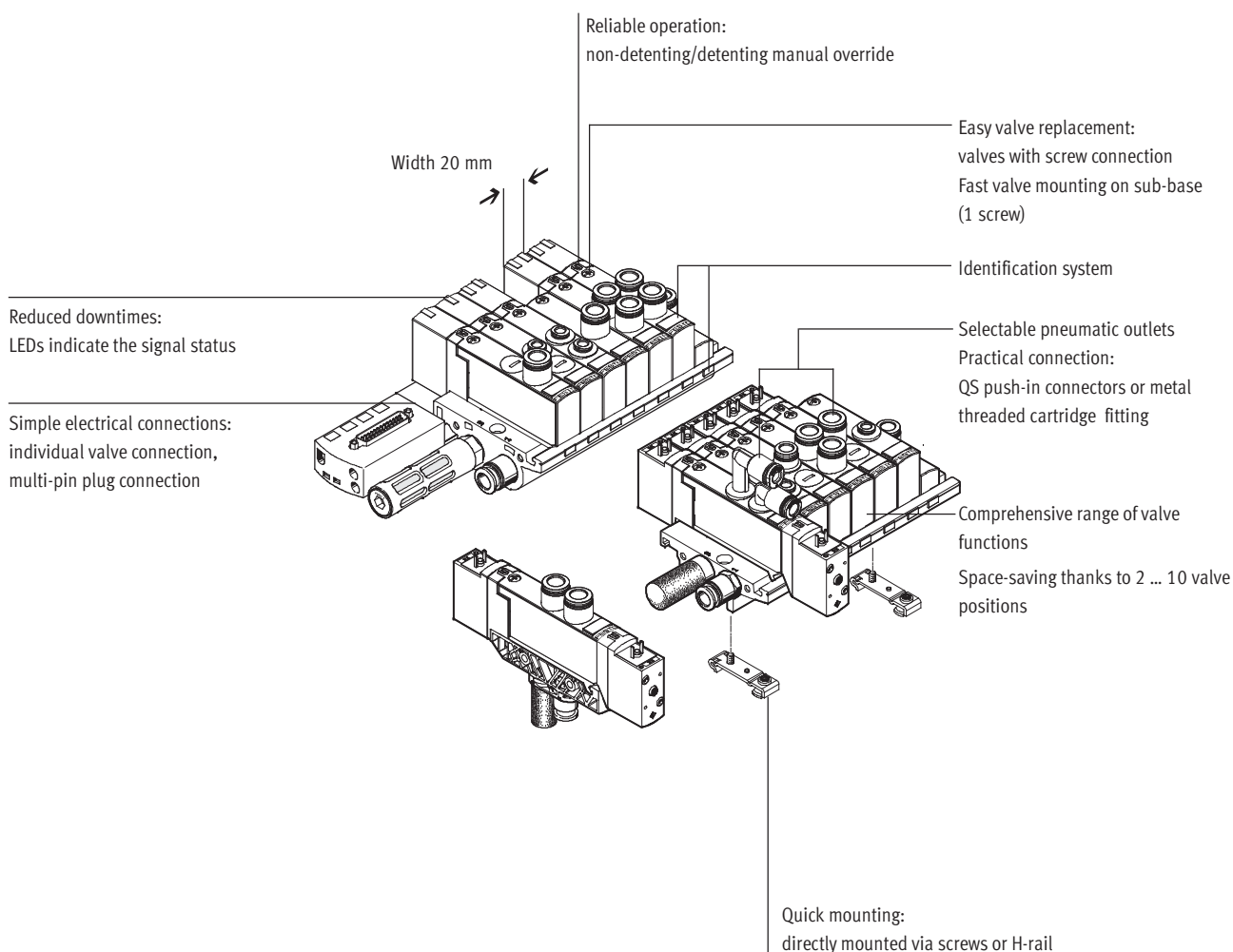
Note

Valve terminals are available for 4, 6, 8 and 10 valve positions in connection sizes 1/2 NPT and 1/4 NPT.

Solenoid valves VUVB/valve terminals type 24 VTUB, NPT

FESTO

Key features



Equipment options

Valve functions

- 3/2-way valve, normally open
- 3/2-way valve, normally closed
- 4/2-way valve, single solenoid
- 4/2-way valve, double solenoid

Electrical connection options

Individual connection/individual valve connection

- 2 ... 10 valve positions with manifold rail
- 2 ... 20 solenoid coils
- Via plug socket with cable with either LED or illuminating seal

Multi-pin plug

- 4 ... 10 valve positions/
max. 20 solenoid coils
- Sub-D

Valve terminal configurator

Download CAD data → www.festo.com

A valve terminal configurator is available to help you select a suitable valve terminal VTUB, which makes it much easier to order the right product. Valve terminals type 24 VTUB are ordered via an ident. code.

All valve terminals are supplied fully assembled and individually tested. This reduces assembly and installation time to a minimum.

Ordering system for valve terminal type 24 VTUB

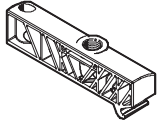
- Individual electrical connection
 - Electrical multi-pin plug connection
- Internet: vtub

Solenoid valves VUVB/valve terminals type 24 VTUB, NPT

FESTO

Key features

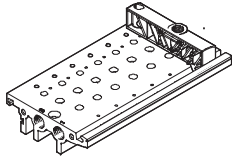
Pressure zone supply module



The pressure zone supply module for pilot air supply is included in the scope of delivery of the manifold rail.

The pressure zone supply module for internal or external pilot air supply ensures even greater flexibility.

Manifold rail

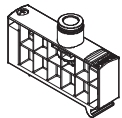


The manifold rail features a groove into which the semi in-line valves are latched and secured with just one screw.

The valve functions 4/2-way single solenoid, 4/2-way double solenoid, 3/2-way normally closed and 3/2-way normally open are available. All semi in-line valves are available with the cartridges QSP for the tubing

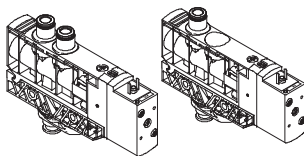
diameters 1/4, 5/16, and 3/8. 4/2-way valves are also supplied without cartridges, allowing users to fit cartridges of their choice or blanking plugs.

Pressure zone supply module



The pressure zone supply module occupies one valve position and can be used as an additional supply or for supplying a pressure zone.

Individual valve



An individual valve can be ordered as an in-line valve (comprising semi in-line valve and sub-base ready assembled) in all functions. The tubing

diameters 1/4 and 5/16 are available in this case. The in-line valve, however, can also be assembled using an individual

sub-base and semi in-line valve. All tubing diameters and the variant without cartridge are available in this case.

Blanking plate

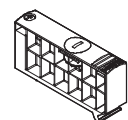
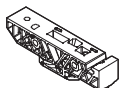


Plate without valve function for reserving valve positions on a valve terminal.

Valves and blanking plates are attached to the manifold rail using one screw.

Sub-base



Individual sub-bases can be equipped with any valve.

Electrical connection is by means of a standardised connector plug, square design to EN 175301-803, type C.

Pre-assembled plug sockets with cable or plugs for self-assembly are offered for this.

Solenoid valves VUVB/valve terminals type 24 VTUB, NPT

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Key features – Pneumatic components

Pneumatic connection

Supply and exhaust

The valves are supplied pneumatically via manifold rails or individual sub-bases.

The manifold rails contain common lines for compressed air supply, exhaust and pilot exhaust for all valves.

The common lines can be connected

- at the left (code L),
- at the right (code R) or
- at both ends (no code).

Pilot air supply

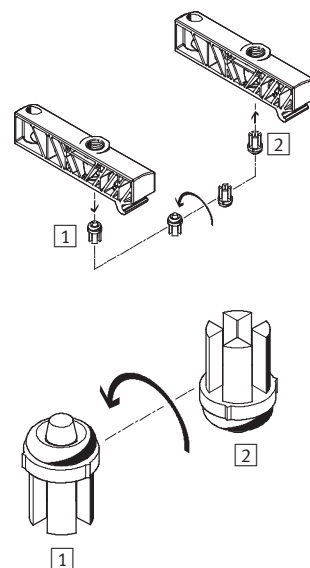
In-line valves are available with internal and external pilot air supply. With semi in-line valves the mounting position of the insert in the sub-base determines whether the valves are actuated internally or externally.

Internal pilot air supply

An internal pilot air supply can be selected if the supply pressure is between 2 and 8 bar. The pilot air supply is branched from duct 1 in the pressure zone supply module in this case.

External pilot air supply

An external pilot air supply must be used if the supply pressure is between -0.9 and $+2$ bar. The pilot air supply is supplied via duct 12/14 of the pressure zone supply module in this case.

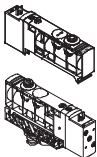


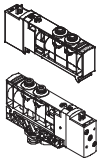
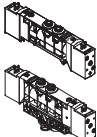
If the selector is installed as shown in position **1**, it means that the pilot air supply will be branched internally from duct 1.

If the selector is turned 180° and installed as shown in position **2**, it means that the valve manifold is set to external pilot air supply.

Solenoid valves VUVB/valve terminals type 24 VTUB, NPT

Product range overview – Individual valves and manifold valves


Function	Version	Type	Nominal flow rate [l/min]	Pneumatic connection	Operating voltage [V]	Semi in-line valve	In-line valve	Pilot air supply		→ Page/ Internet
								Internal	External	
3/2-way valves										
	Single solenoid valve for individual connection and valve manifold									
		VUVB-...-M32-...	500	QS-1/4	24 DC 110 AC	■	■	■	■	14
			800	QS-5/16		■	■	—	■	
			1000	QS-3/8		■	—	■	■	
			1000	QX ¹⁾	24 DC 110 AC 230 AC 12 DC/24 AC	■	—	—	■	



Function	Version	Type	Nominal flow rate [l/min]	Pneumatic connection	Operating voltage [V]	Semi in-line valve	In-line valve	Pilot air supply		→ Page/ Internet
								Internal	External	
4/2-way valves	Single solenoid valve for individual connection and valve manifold									
	VUVB-...-M42-...	500	QS-1/4	24 DC 110 AC	■	■	■	■	14	
		800	QS-5/16		■	■	■	■		
		1000	QS-3/8		■	-	-	■		
		1000	QX ¹⁾	24 DC 110 AC 230 AC 12 DC/24 AC	■	-	-	■		
Double solenoid valve for individual connection and valve manifold										
	VUVB-...-B42-...	500	QS-1/4	24 DC 110 AC	■	■	■	■	14	
		800	QS-5/16		■	■	■	■		
		1000	QS-3/8		■	-	-	■		
		1000	QX ¹⁾	24 DC 110 AC 230 AC 12 DC/24 AC	■	-	-	■		

1) Cartridge not included

Solenoid valves VUVB/valve terminals type 24 VTUB, NPT

Product range overview – Terminal valves

Function	Version	Type	Nominal flow rate [l/min]	Pneumatic connection	Operating voltage [V]	Semi in-line valve	Pilot air supply External	→ Page/ Internet
3/2-way valves	Single solenoid valve for valve terminal with electrical multi-pin plug connection							
		VUVB-...-M32-...	500	QS-1/4	24 DC	<input type="checkbox"/>	<input type="checkbox"/>	35
			800	QS-5/16		<input type="checkbox"/>	<input type="checkbox"/>	
			1000	QS-3/8		<input type="checkbox"/>	<input type="checkbox"/>	
			1000	QX ¹⁾		<input type="checkbox"/>	<input type="checkbox"/>	

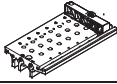
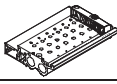
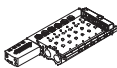
Function	Version	Type	Nominal flow rate [l/min]	Pneumatic connection	Operating voltage [V]	Semi in-line valve	Pilot air supply External	→ Page/ Internet
4/2-way valves	Single solenoid valve for valve terminal with electrical multi-pin plug connection							
		VUVB-...-M42-...	500	QS-1/4	24 DC	<input type="checkbox"/>	<input type="checkbox"/>	35
			800	QS-5/16		<input type="checkbox"/>	<input type="checkbox"/>	
			1000	QS-3/8		<input type="checkbox"/>	<input type="checkbox"/>	
			1000	QX ¹⁾		<input type="checkbox"/>	<input type="checkbox"/>	
	Double solenoid valve for valve terminal with electrical multi-pin plug connection							
		VUVB-...-B42-...	500	QS-1/4	24 DC	<input type="checkbox"/>	<input type="checkbox"/>	35
			800	QS-5/16		<input type="checkbox"/>	<input type="checkbox"/>	
			1000	QS-3/8		<input type="checkbox"/>	<input type="checkbox"/>	
1000			QX ¹⁾	<input type="checkbox"/>		<input type="checkbox"/>		


1) Cartridge not included


Solenoid valves VUVB/valve terminals type 24 VTUB, NPT

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Product range overview

Function	Version	Type	Pneumatic connection	Valve positions					Pilot air supply		➔ Page/ Internet
				2	4	6	8	10	Internal	External	
Manifold rail	For valve manifold with individual electrical connection										
		VABM	1/2 NPT	■	■	■	■	■	■	■	22
		VABM	1/4 NPT	■	■	■	■	■	■	■	23
	For valve terminal with electrical multi-pin plug connection										
		VABM-...-M1	1/2 NPT	—	■	■	■	■	■	■	41

Function	Version	Type	Pilot air supply		→ Page/ Internet
			Internal	External	
Sub-base	Individual valve				
		VABS	■	■	24

Function	Version	Type	Pneumatic connection	Use	→ Page/ Internet
Pressure zone supply module		VABF	QS-3/8	For additional supply to the manifold rail	43

Function	Version	Type	Use	→ Page/ Internet
Blanking plate		VABB	For covering vacant positions	44

Function	Version	Type	Use	→ Page/ Internet
Separator		VABD	For duct separation	44

Function	Version	Type	Use	→ Page/ Internet
H-rail mounting kit		VAME	For mounting on the H-rail NRH-35-2000	49

Function	Version	Type	→ Page/ Internet
Cartridge		QSP...	48

Solenoid valves VUVB, NPT

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Peripherals overview

Overview – Solenoid valve VUVB

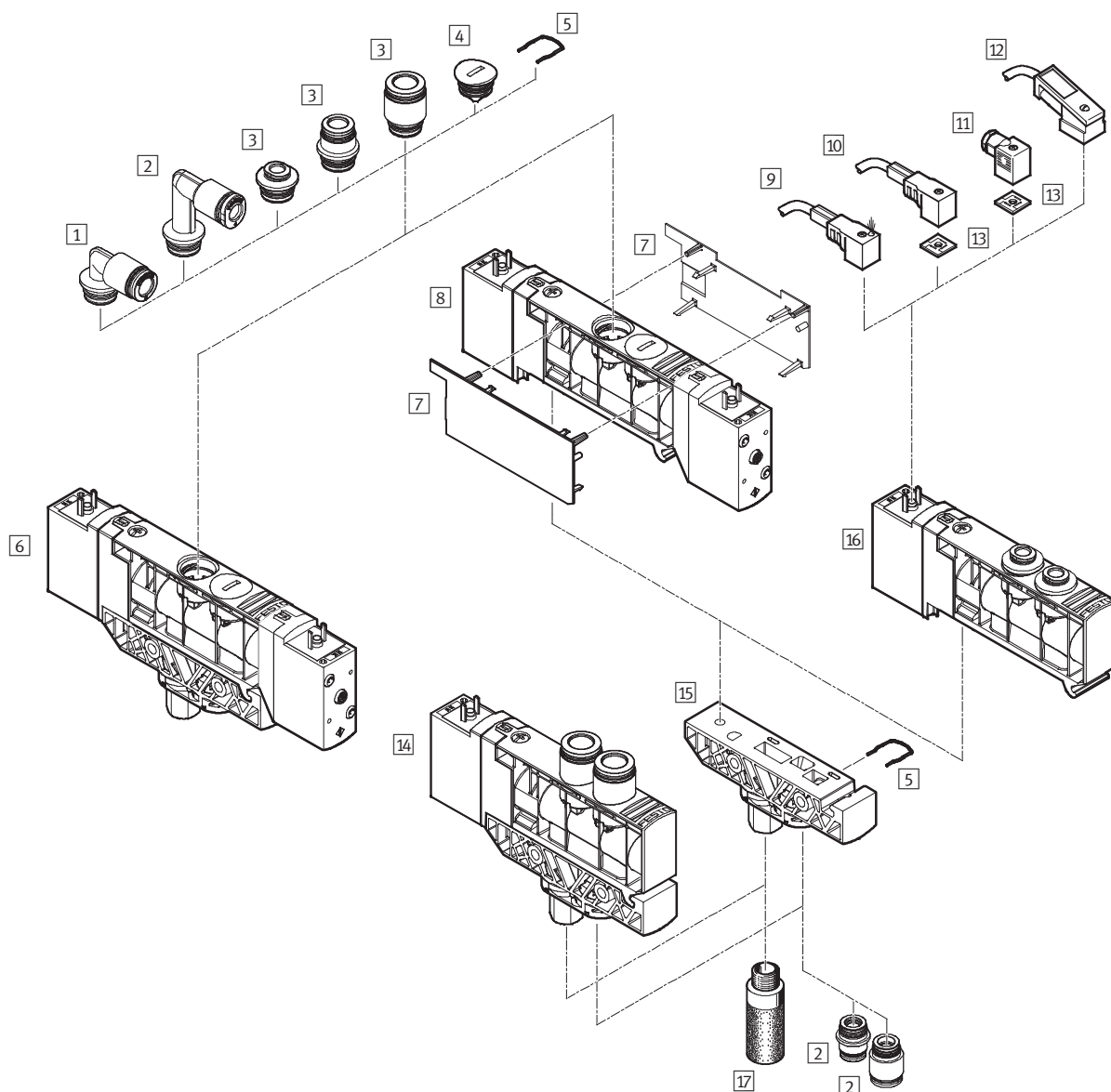
Individual position with individual electrical connection

These peripherals are ordered via individual parts/accessories.

An individual valve can be ordered as an in-line valve or as a fully assembled semi in-line valve on a sub-base.

The in-line valve is available with 1/4NPT or 5/16NPT push-in connectors. The semi in-line valve on sub-base is

available with 1/4, 5/16 or 3/8NPT push-in connectors or as a variant without a cartridge.



Solenoid valves VUVB, NPT

Peripherals overview

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Accessories		
	Brief description	→ Page/Internet
1 Cartridge QSPL	For connecting compressed air tubing with standard O.D.	48
2 Cartridge QSPLL	For connecting compressed air tubing with standard O.D.	48
3 Cartridge QSP	For connecting compressed air tubing with standard O.D.	48
4 Blanking plug QSPC18	For sealing the pneumatic connections on the valve	49
5 Retaining clip	For fitting cartridges and blanking plugs (included in the scope of delivery of cartridge QSP... and blanking plug QSPC18)	–
6 Double solenoid valve VUVB-L-...-B-...	In-line valve with adapter for NPT	20
7 Cover for valve housing VAMC	–	46
8 Double solenoid valve VUVB-S-...-B-...	Semi in-line valve	14
9 Plug socket with cable with LED KMEB-1-...-LED	For indicating the signal status	50
10 Plug socket with cable KMEB-1-230AC-...	Can be used up to 230 V	50
11 Plug socket MSSD-EB	–	50
12 Plug socket with cable with LED KMEB-2-24-...	For indicating the signal status	50
13 Illuminating seal MEB-LD	For indicating the signal status	50
14 Single solenoid valve VUVB-L-...-M-...	In-line valve with adapter for NPT	20
15 Sub-base VABS-B6-P...	For individual valve with adapter for NPT	47
16 Single solenoid valve VUVB-S-...-M-...	Semi in-line valve	20
17 Silencer U	For fitting in exhaust ports	49

Solenoid valves VUVB, NPT

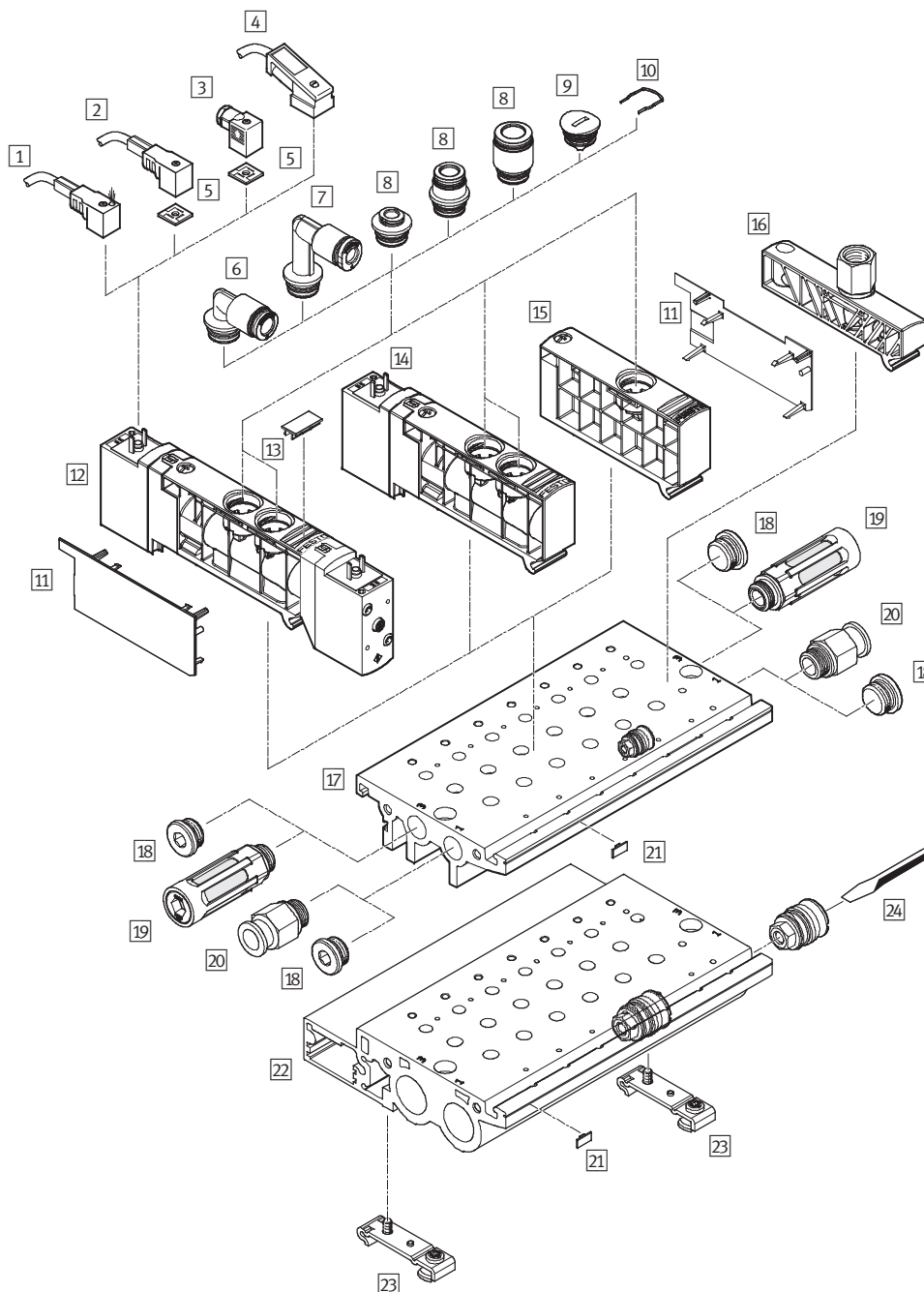
Peripherals overview

FESTO

Overview – Solenoid valve VUVB

Manifold assembly/valve terminal with individual electrical connections

- "Individual connection" code: ET
- Valve terminals with individual electrical connections are available in gradations from 2 to max. 10 valve positions.
- Valve positions can either be fitted with a valve or a blanking plate for future expansions.
- In total up to 20 solenoid valves can be actuated.



Solenoid valves VUVB, NPT

Peripherals overview

FESTO

Accessories		
	Brief description	→ Page/Internet
1 Plug socket with cable with LED KMEB-1-...-LED	For indicating the signal status	50
2 Plug socket with cable KMEB-1-230AC-...	Can be used up to 230 V	50
3 Plug socket MSSD-EB	–	50
4 Plug socket with cable with LED KMEB-2-24-...	For indicating the signal status	50
5 Illuminating seal MEB-LD	For indicating the signal status	50
6 Cartridge QSPL-...	For connecting compressed air tubing with standard O.D.	48
7 Cartridge QSPLL-...	For connecting compressed air tubing with standard O.D.	48
8 Cartridge QSP-...	For connecting compressed air tubing with standard O.D.	48
9 Blanking plug QSPC18	For sealing the pneumatic connections on the valve	49
10 Retaining clip	For fitting cartridges and blanking plugs (included in the scope of delivery of the cartridge QSP... and the blanking plug QSPC18)	
11 Cover for valve housing VAMC	–	46
12 Double solenoid valve VUVB-...-B	–	20
13 Inscription label IBS-9x17	For identifying the valves	49
14 Single solenoid valve VUVB-...-M	–	20
15 Blanking plate/pressure zone supply module VABF/VABB	Pressure zone supply module VABF: with cartridge Blanking plate VABB: for vacant position, with blanking plug	43/44
16 Pressure zone supply module	For pilot air supply with adapter for NPT (included in the scope of delivery of the manifold rail VABM)	–
17 Manifold rail VABM-B6-E-N14-...	Pneumatic connection 1/4 NPT, for connecting max. 10 valves	22
18 Blanking plug B	–	49
19 Silencer U	For fitting in exhaust ports	49
20 Push-in fitting QS	For connecting compressed air tubing with standard O.D.	48
21 Inscription label MH-BZ-80X	For identifying the manifold rail	49
22 Manifold rail VABM-B6-E-N12-...	Pneumatic connection 1/2 NPT, for connecting max. 10 valves	23
23 H-rail mounting kit VAME	For mounting on the H-rail NRH-35-2000	49
24 Separator for pressure zones VABD	For mounting in the manifold rail	44

Solenoid valves VUVB, NPT

Type codes – Individual valves and manifold valves

FESTO

		VUVB	–	L	–	M32C	–	A	Z	D	–	T14	–	1	C1
Valve series															
VUVB	Solenoid valve														
Constructional design															
L	In-line valve														
S	Semi in-line valve														
Valve function															
M32C	3/2-way valve, normally closed														
M32U	3/2-way valve, normally open														
M42	4/2-way valve, single solenoid														
B42	4/2-way valve, double solenoid														
Reset method															
–	None (double solenoid)														
A	Pneumatic reset														
Pilot air supply															
–	Internal														
Z	External														
Manual override															
D	Non-detenting/detenting														
Pneumatic connection															
T532	For tubing O.D. 5/32														
T14	For tubing O.D. 1/4														
T516	For tubing O.D. 5/16														
T38	For tubing O.D. 3/8														
QX	Without push-in connector														
Operating voltage															
1	24 V DC														
2A	110 V AC														
3A	230V														
5W	12 V DC/24 V AC														
Electrical connection															
C1	Plug socket connection pattern to EN 175301-803, type C														

Solenoid valves VUVB, NPT

Technical data – Individual valves and manifold valves

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Voltage

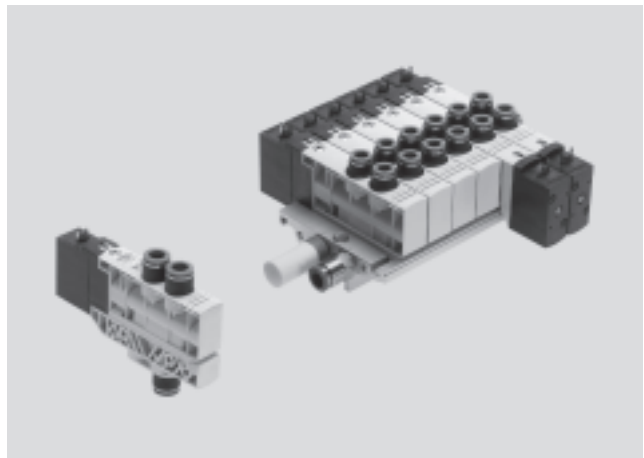
12, 24 V DC
24, 110 V AC

Pressure

–0.9 ... +8 bar

Temperature range

–5 ... +50 °C



General technical data				
Valve function		3/2-way, single solenoid	4/2-way, single solenoid	4/2-way, double solenoid
Design		Piston spool valve		
Sealing principle		Soft		
Actuation type		Electric		
Reset method		Pneumatic spring		ċ
Type of control		Piloted		
Pilot air supply		Internal or external		
Direction of flow		Non-reversible		
Exhaust function		No flow control		
Manual override		Non-detenting, detenting		
Type of mounting		Via through-hole		
Mounting position		Any		
Nominal size		[mm]	7	
Standard nominal flow rate		qnN [l/min]	200 (5/32NPT), 500 (1/4NPT), 800 (5/16NPT), 1000 (3/8NPT)	
Width		[mm]	20	
Product weight	In-line valve	[g]	170	240
	Semi in-line valve	[g]	150	220

Operating and environmental conditions		
Operating medium		Dried and filtered compressed air, lubricated or unlubricated, grade of filtration 40 µm, vacuum
Operating pressure	[bar]	−0.9 ... +8
Operating pressure for valve terminal with internal pilot air supply	[bar]	2 ... 8
Pilot pressure	[bar]	2 ... 8
Ambient temperature	[°C]	−5 ... +50
Temperature of medium	[°C]	−5 ... +50
Corrosion resistance class CRC		1 ¹⁾
Note on materials		RoHS-compliant

1) Corrosion resistance class 1 according to Festo standard 940 070
Components subject to low corrosion stress. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Note

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

Solenoid valves VUVB, NPT

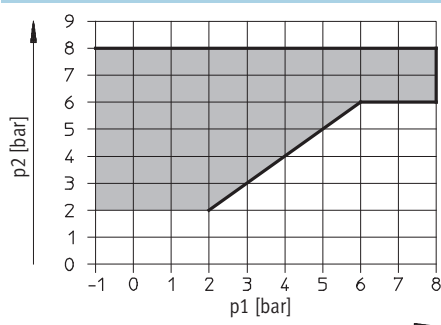
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Technical data – Individual valves and manifold valves

Electrical data			
Electrical connection		Plug, square design to EN 175301-803, type C	
Nominal operating voltage	DC	[V]	12, 24
	AC	[V]	24, 110, 230
Permissible voltage fluctuations		[%]	±10
Electrical power consumption	24 V DC	[W]	1.5
	110 V AC	[VA]	Pull: 3.1, hold: 2.2
Protection class to EN 60529		IP65 (in combination with plug socket)	

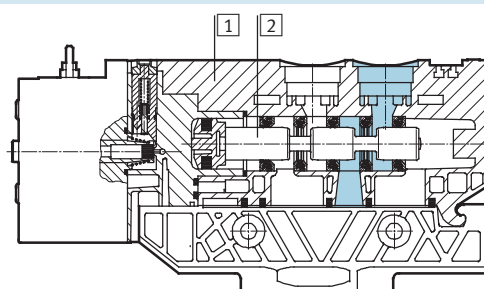
Valve switching times [ms]			
Valve function	3/2-way, single solenoid	4/2-way, single solenoid	4/2-way, double solenoid
On	20	20	–
Off	20	20	–
Changeover	–	–	15

Pilot pressure p2 as a function of operating pressure p1

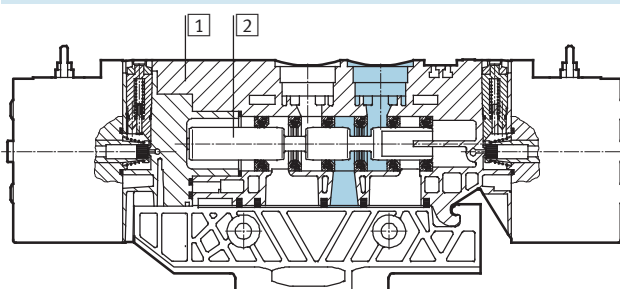


Materials

Sectional view – Single solenoid valve



Sectional view – Double solenoid valve



1	Housing	Reinforced polyamide
2	Piston spool	Wrought aluminium alloy
–	Seals	Nitrile rubber, hydrogenated nitrile rubber, fluoro elastomer

Solenoid valves VUVB, NPT

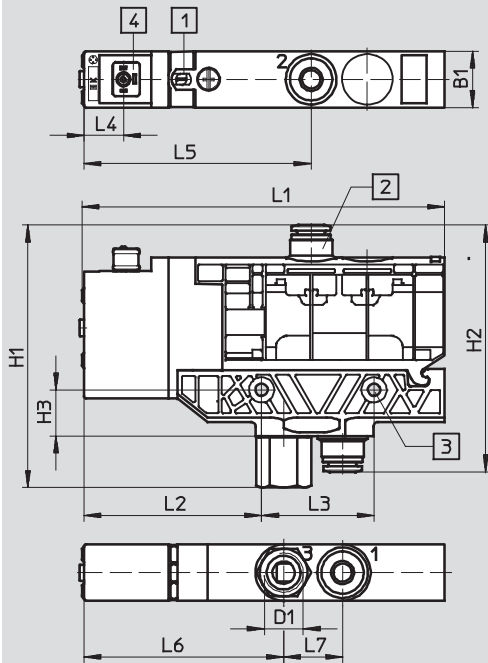
Technical data – Individual valves and manifold valves

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Dimensions – 3/2-way and 4/2-way valve, single solenoid

Download CAD Data → www.festo.com/us/cad

In-line valve



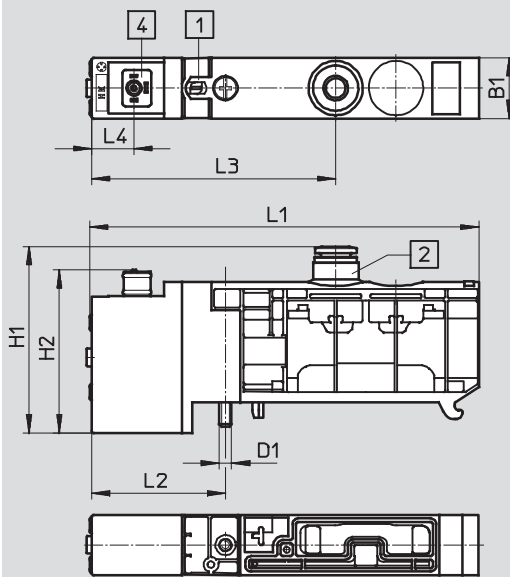
- 1 Manual override
- 2 Fitting QS
- 3 Through-hole for screw M4
- 4 Plug socket connection pattern to EN 175301-803

Type	B1	D1	H1	H2	H3	L1	L2	L3	L4	L5	L6	L7
VUVB-L-M32...-T14	20	1/4 NPT	87	83.1	16.5	129	63.2	40	14	80.8	71	21
VUVB-L-M32...-T516			93	89.9								

Dimensions – 3/2-way and 4/2-way valve, single solenoid

Download CAD Data → www.festo.com/us/cad

Semi in-line valve



- 1 Manual override
- 2 Fitting QS
- 4 Plug socket connection pattern to EN 175301-803, type C

Type	B1	D1	H1	H2	L1	L2	L3	L4
VUVB-S-M32...-T14	20	M4	54	53.9	129	44.3	80.8	14
VUVB-S-M32...-T516			61					
VUVB-S-M32...-T38			65					

Solenoid valves VUVB, NPT

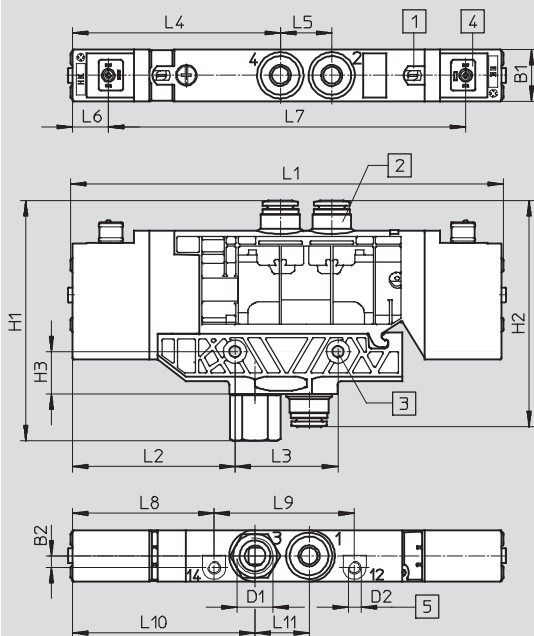
Technical data – Individual valves and manifold valves

FESTO

Dimensions – 4/2-way valve, double solenoid

Download CAD Data → www.festo.com/us/cad

In-line valve



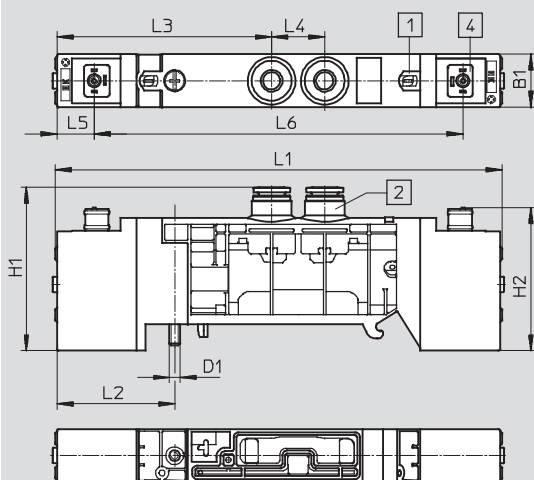
- 1 Manual override
- 2 Fitting QS
- 3 Through-hole for screw M4
- 4 Plug socket connection pattern to EN 175301-803, type C
- 5 Port for external pilot air

Type	B1	B2	D1	D2	H1	H2	H3	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
VUVB-L-B42...-T14	20	4.6	1/4 NPT	M5	87	83.1	16.5	168.2	63.2	40	80.8	20	14	140.2	55.1	54.55	71	21
VUVB-L-B42...-T516					93	89.9												

Dimensions – 4/2-way valve, double solenoid

Download CAD Data → www.festo.com/us/cad

Semi in-line valve



- 1 Manual override
- 2 Fitting QS
- 4 Plug socket connection pattern to EN 175301-803, type C

Type	B1	D1	H1	H2	L1	L2	L3	L4	L5	L6
VUVB-S-B42...-T14	20	M4	54	53.9	168.2	44.3	80.8	20	14	138.8
VUVB-S-B42...-T516			61							
VUVB-S-B42...-T38			65							

Solenoid valves VUVB, NPT

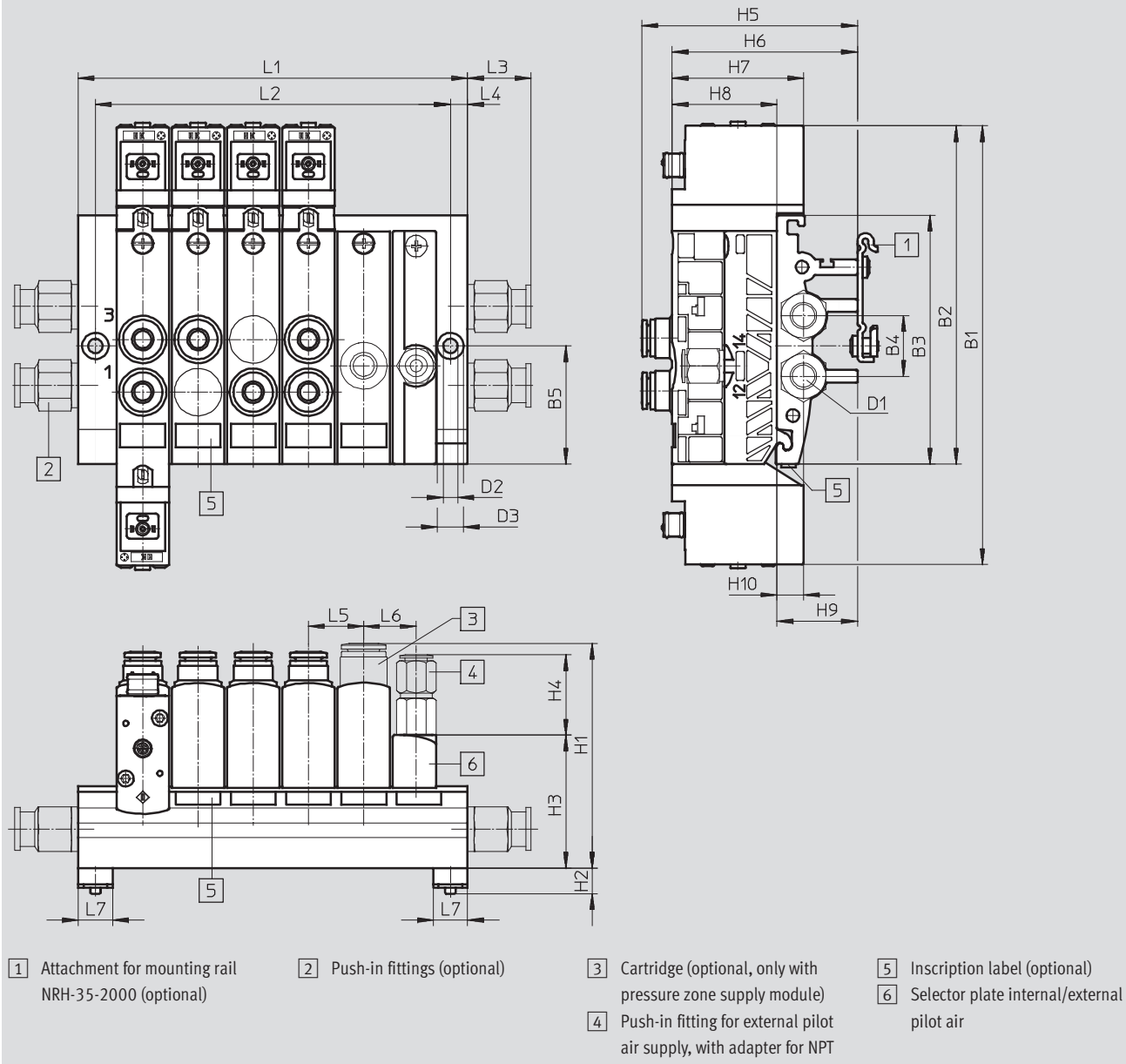
Technical data – Individual valves and manifold valves

FESTO

Dimensions – Manifold assembly

Download CAD Data → www.festo.com/us/cad

Manifold rail 1/4 NPT



Type	B1	B2	B3	B4	B5	D1	D2 H13	D3 H13	H1	H2	H3	H4	H6	H7	H8	H9	H10	L1 ±0.1	L2 ±0.1	L3	L4	L5	L6	L7
VTUB-2...	166.8	128.3	94.7	23	45	1/4 NPT	5.5	10	88.4	10	50.5	30.6	70.5	50.1	40	31	10	85	72	24.1	6.5	21	20	13
VTUB-4...																		127	114					
VTUB-6...																		169	156					
VTUB-8...																		211	198					
VTUB-10...																		253	240					

Type	H5
QSPK18-1/4-U-100	74.9
QSPK18-5/16-U-100	81.7
QSPK18-3/8-U-100	85.5

Solenoid valves VUVB, NPT

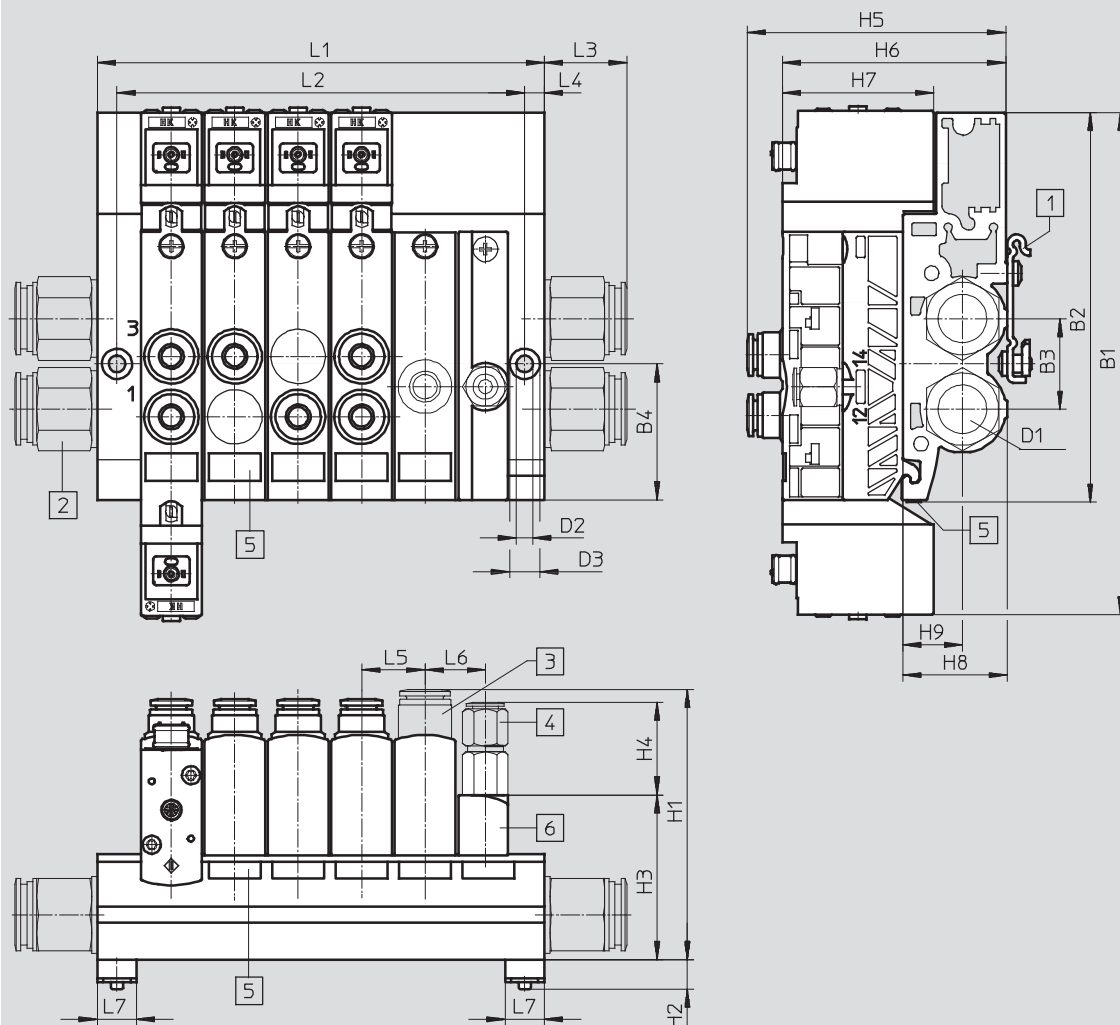
Technical data – Individual valves and manifold valves

FESTO

Dimensions – Manifold assembly

Download CAD Data → www.festo.com/us/cad

Manifold rail 1/2 NPT



1 Attachment for mounting rail
NRH-35-2000 (optional)

2 Push-in fittings (optional)

3 Cartridge (optional, only with
pressure zone supply module)

4 Push-in fitting for external pilot
air supply, with adapter for NPT

5 Inscription label (optional)

6 Selector plate internal/external
pilot air

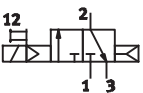
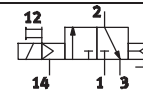
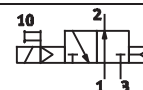
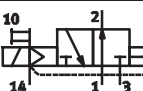
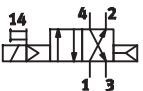
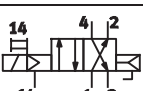
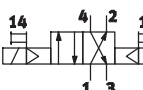
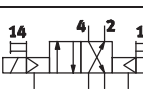
Type	B1	B2	B3	B4	D1	D2 H13	D3 H13	H1	H2	H3	H4	H6	H7	H8	H9	L1 ±0.1	L2 ±0.1	L3	L4	L5	L6	L7
VTUB-2...	166.8	129.5	30	45	1/2 NPT	5.5	10	89.4	10	54.5	30.6	74	50.1	34.5	19.7	85	72	27.3	6.5	21	20	13
VTUB-4...																127	114					
VTUB-6...																169	156					
VTUB-8...																211	198					
VTUB-10...																253	240					

Type	H5
QSPK18-1/4-U-100	78.9
QSPK18-5/16-U-100	85.7
QSPK18-3/8-U-100	89.5

Solenoid valves VUVB, NPT

Technical data – Individual valves and manifold valves

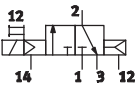
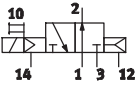
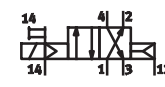
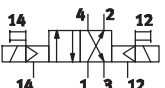
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Ordering data – In-line valves						
Circuit symbol	Code	Description	Voltage	Pneumatic connection	Part No.	Type
3/2-way valves, single solenoid						
	K	Normally closed, internal pilot air supply, pneumatic spring return	24 V DC	QS-1/4	568280	VUVB-L-M32C-AD-T14-1C1
				QS-5/16	568281	VUVB-L-M32C-AD-T516-1C1
			110 V AC	QS-1/4	568296	VUVB-L-M32C-AD-T14-2AC1
				QS-5/16	568297	VUVB-L-M32C-AD-T516-2AC1
	K	Normally closed, external pilot air supply, pneumatic spring return	24 V DC	QS-1/4	568288	VUVB-L-M32C-AZD-T14-1C1
				QS-5/16	568289	VUVB-L-M32C-AZD-T516-1C1
			110 V AC	QS-1/4	568304	VUVB-L-M32C-AZD-T14-2AC1
				QS-5/16	568305	VUVB-L-M32C-AZD-T516-2AC1
	N	Normally open, internal pilot air supply, pneumatic spring return	24 V DC	QS-1/4	568282	VUVB-L-M32U-AD-T14-1C1
				QS-5/16	568283	VUVB-L-M32U-AD-T516-1C1
			110 V AC	QS-1/4	568298	VUVB-L-M32U-AD-T14-2AC1
				QS-5/16	568299	VUVB-L-M32U-AD-T516-2AC1
	N	Normally open, external pilot air supply, pneumatic spring return	24 V DC	QS-1/4	568290	VUVB-L-M32U-AZD-T14-1C1
				QS-5/16	568291	VUVB-L-M32U-AZD-T516-1C1
			110 V AC	QS-1/4	568306	VUVB-L-M32U-AZD-T14-2AC1
				QS-5/16	568307	VUVB-L-M32U-AZD-T516-2AC1
4/2-way valves, single solenoid						
	N	Normally open, internal pilot air supply, pneumatic spring return	24 V DC	QS-1/4	568284	VUVB-L-M42-AD-T14-1C1
				QS-5/16	568285	VUVB-L-M42-AD-T516-1C1
			110 V AC	QS-1/4	568300	VUVB-L-M42-AD-T14-2AC1
				QS-5/16	568301	VUVB-L-M42-AD-T516-2AC1
	N	Normally open, external pilot air supply, pneumatic spring return	24 V DC	QS-1/4	568292	VUVB-L-M42-AZD-T14-1C1
				QS-5/16	568293	VUVB-L-M42-AZD-T516-1C1
			110 V AC	QS-1/4	568308	VUVB-L-M42-AZD-T14-2AC1
				QS-5/16	568309	VUVB-L-M42-AZD-T516-2AC1
4/2-way valves, double solenoid						
	J	Normally open, internal pilot air supply	24 V DC	QS-1/4	568286	VUVB-L-B42-D-T14-1C1
				QS-5/16	568287	VUVB-L-B42-D-T516-1C1
			110 V AC	QS-1/4	568302	VUVB-L-B42-D-T14-2AC1
				QS-5/16	568303	VUVB-L-B42-D-T516-2AC1
	J	Normally open, external pilot air supply	24 V DC	QS-1/4	568294	VUVB-L-B42-ZD-T14-1C1
				QS-5/16	568295	VUVB-L-B42-ZD-T516-1C1
			110 V AC	QS-1/4	568310	VUVB-L-B42-ZD-T14-2AC1
				QS-5/16	568311	VUVB-L-B42-ZD-T516-2AC1

Solenoid valves VUVB, NPT

FESTO

Technical data – Individual valves and manifold valves

Ordering data – Semi in-line valves for sub-base or manifold rail						
Circuit symbol	Code	Description	Voltage	Pneumatic connection	Part No.	Type
3/2-way valves, single solenoid						
	K	Normally closed, external pilot air supply, pneumatic spring return	24 V DC	QS-1/4	568312	VUVB-S-M32C-AZD-T14-1C1
				QS-5/16	568313	VUVB-S-M32C-AZD-T516-1C1
				QS-3/8	568314	VUVB-S-M32C-AZD-T38-1C1
				Without push-in connector	573993	VUVB-S-M32C-AZD-QX-1C1
			110 V AC	QS-1/4	658324	VUVB-S-M32C-AZD-T14-2AC1
				QS-5/16	568325	VUVB-S-M32C-AZD-T516-2AC1
				QS-3/8	568326	VUVB-S-M32C-AZD-T38-2AC1
				Without push-in connector	573995	VUVB-S-M32C-AZD-QX-2AC1
			230 V AC	Without push-in connector	573997	VUVB-S-M32C-AZD-QX-3AC1
			12 V DC / 24 V AC		573999	VUVB-S-M32C-AZD-QX-5WC1
	N	Normally open, external pilot air supply, pneumatic spring return	24 V DC	QS-1/4	568315	VUVB-S-M32U-AZD-T14-1C1
				QS-5/16	568316	VUVB-S-M32U-AZD-T516-1C1
				QS-3/8	568317	VUVB-S-M32U-AZD-T38-1C1
				Without push-in connector	573994	VUVB-S-M32U-AZD-QX-1C1
			110 V AC	QS-1/4	568327	VUVB-S-M32U-AZD-T14-2AC1
				QS-5/16	568328	VUVB-S-M32U-AZD-T516-2AC1
				QS-3/8	568604	VUVB-S-M32U-AZD-T38-2AC1
				Without push-in connector	573996	VUVB-S-M32U-AZD-QX-2AC1
			230 V AC	Without push-in connector	573998	VUVB-S-M32U-AZD-QX-3AC1
			12 V DC / 24 V AC		574000	VUVB-S-M32U-AZD-QX-5WC1
4/2-way valves, single solenoid						
	M	Normally open, external pilot air supply, pneumatic spring return	24 V DC	QS-1/4	568318	VUVB-S-M42-AZD-T14-1C1
				QS-5/16	568319	VUVB-S-M42-AZD-T516-1C1
				QS-3/8	568320	VUVB-S-M42-AZD-T38-1C1
			110 V AC	QS-1/4	568605	VUVB-S-M42-AZD-T14-2AC1
				QS-5/16	568606	VUVB-S-M42-AZD-T516-2AC1
				QS-3/8	568607	VUVB-S-M42-AZD-T38-2AC1
			24 V DC	Without push-in connector	537534	VUVB-S-M42-AZD-QX-1C1
			110 V AC		537632	VUVB-S-M42-AZD-QX-2AC1
			230 V AC		537636	VUVB-S-M42-AZD-QX-3AC1
			12 V DC / 24 V AC		545376	VUVB-S-M42-AZD-QX-5WC1
4/2-way valves, double solenoid						
	J	Normally open, external pilot air supply	24 V DC	QS-1/4	568321	VUVB-S-B42-ZD-T14-1C1
				QS-5/16	568322	VUVB-S-B42-ZD-T516-1C1
				QS-3/8	568323	VUVB-S-B42-ZD-T38-1C1
			110 V AC	QS-1/4	568608	VUVB-S-B42-ZD-T14-2AC1
				QS-5/16	568609	VUVB-S-B42-ZD-T516-2AC1
				QS-3/8	568610	VUVB-S-B42-ZD-T38-2AC1
			24 V DC	Without push-in connector	537535	VUVB-S-B42-ZD-QX-1C1
			110 V AC		537633	VUVB-S-B42-ZD-QX-2AC1
			230 V AC		537637	VUVB-S-B42-ZD-QX-3AC1
			12 V DC / 24 V AC		545377	VUVB-S-B42-ZD-QX-5WC1

Solenoid valves VUVB, NPT

Technical data – Manifold rail

FESTO

Manifold rail 1/4 NPT VABM

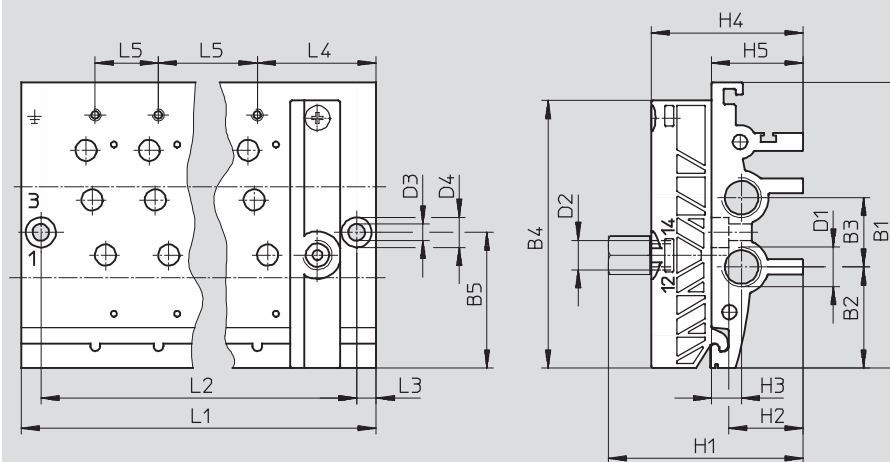
Material:

Wrought aluminium alloy



Dimensions

Download CAD Data → www.festo.com/us/cad



Note

The manifold rail is supplied with an adapter for NPT.

Type	L1 ±0.1	L2 ±0.1	L3 ±0.1	L4 ±0.1	L5 ±0.1	B1 ±0.1	B2 ±0.1	B3 ±0.1	B4	B5	D1	D2	D3 H13	D4 H13	H1	H2	H3 ±0.2	H4	H5 ±0.2
VABM-B6-E-N14-2	85	72	6.5	39.5	21	94.7	33.5	23	88.7	45	1/4 NPT	1/8 NPT	5.5	10	64.7	24.8	10	50.5	30.5
VABM-B6-E-N14-4	127	114																	
VABM-B6-E-N14-6	169	156																	
VABM-B6-E-N14-8	211	198																	
VABM-B6-E-N14-10	253	240																	

Ordering data		
Valve positions	CRC	Part No. Type
2	2 ¹⁾	568185 VABM-B6-E-N14-2
4	2 ¹⁾	568186 VABM-B6-E-N14-4
6	2 ¹⁾	568187 VABM-B6-E-N14-6
8	2 ¹⁾	568188 VABM-B6-E-N14-8
10	2 ¹⁾	568189 VABM-B6-E-N14-10

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Solenoid valves VUVB, NPT

Technical data – Manifold rail

FESTO

Manifold rail 1/2 NPT VABM

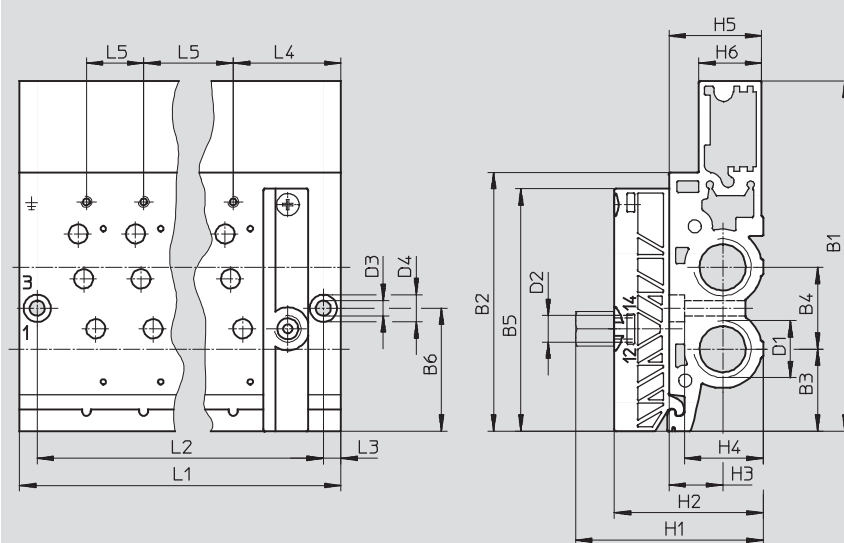
Material:

Wrought aluminium alloy



Dimensions

Download CAD Data → www.festo.com/us/cad



Note

The manifold rail is supplied with an adapter for NPT.

Type	L1 ±0.1	L2 ±0.1	L3 ±0.1	L4 ±0.1	L5 ±0.1	B1 ±0.25	B2 ±0.2	B3 ±0.2	B4 ±0.2	B5	B6	D1	D2	D3 H13	D4 H13	H1	H2	H3 ±0.2	H4	H5 ±0.2	H6
VABM-B6-E-N12-2	85	72	6.5	39.5	21	128.25	94.7	30	30	88.7	45	1/2 NPT	1/8 NPT	5.5	10	68.7	54.8	19.7	28.8	34	23
VABM-B6-E-N12-4	127	114																			
VABM-B6-E-N12-6	169	156																			
VABM-B6-E-N12-8	211	198																			
VABM-B6-E-N12-10	253	240																			

Ordering data

Valve positions	CRC	Part No.	Type
2	2 ¹⁾	570725	VABM-B6-E-N12-2
4	2 ¹⁾	570726	VABM-B6-E-N12-4
6	2 ¹⁾	570727	VABM-B6-E-N12-6
8	2 ¹⁾	570728	VABM-B6-E-N12-8
10	2 ¹⁾	570729	VABM-B6-E-N12-10

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

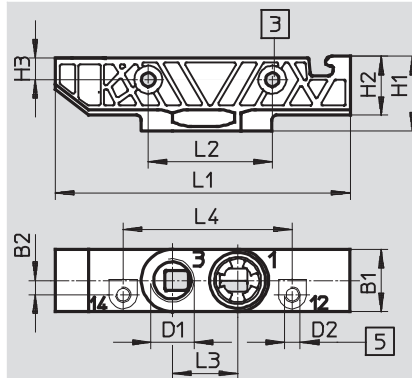
Solenoid valves VUVB, NPT

Technical data – Sub-base

FESTO

Sub-base VABS

Material:
Reinforced polyamide



- 3 Through-hole for screw M4
- 5 Port for external pilot air

Note

Sub-base has G-thread.
Adapter for NPT thread (9396) must be ordered separately.
→ Page 48

Type	D1	D2	B1	B2	H1	H2	H3	L1	L2	L3	L4
VABS-B6-PB-Q	G1/4	M5	20	4.6	23.5	18.5	7	95	40	21	54.55

Ordering data						
Valve positions	Description	Compressed air supply connection	Weight [g]	CRC	Part No.	Type
1	Internal pilot air supply	Cartridge	22	2 ¹⁾	537518	VABS-B6-PB-Q-B
1	External pilot air supply	Cartridge	22	2 ¹⁾	537519	VABS-B6-PB-Q

- 1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Valve terminals type 24 VTUB, NPT

Peripherals overview

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Overview – Valve terminal type 24 VTUB

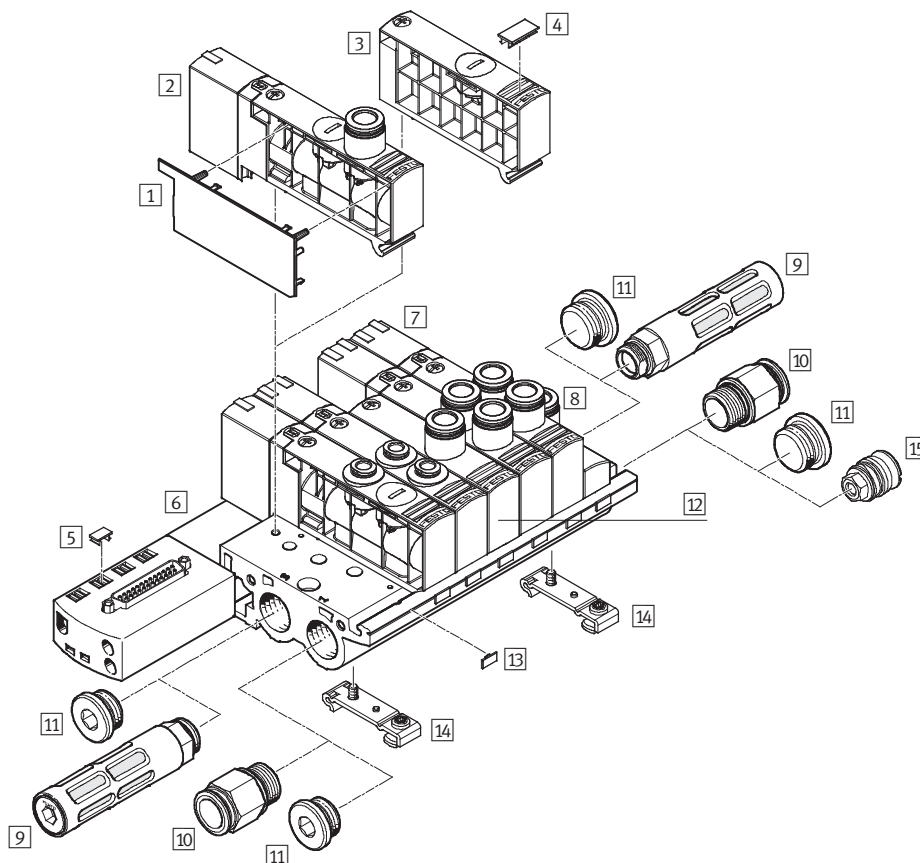
Valve terminal with electrical multi-pin plug connection

- 25-pin Sub-D multi-pin plug connection
Code: SD

Valve terminals with electrical multi-pin plug connection are available in gradations from 2 to max. 10 valve positions.

Each valve position can either be equipped with a valve or a blanking plate.

A maximum of 20 solenoid coils can be actuated via the electrical multi-pin plug connection.



Note

Valve terminals are available for 4, 6, 8 and 10 valve positions in connection size 1/2 NPT.

Valve terminals type 24 VTUB, NPT

Peripherals overview

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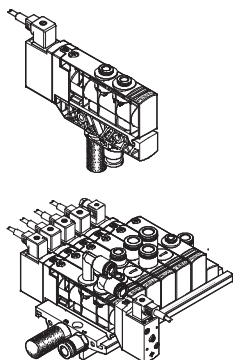
Accessories		
	Brief description	→ Page/Internet
1 Cover for valve housing VAMC	–	45
2 Single solenoid valve VUVB-...-M-–	–	34
3 Blanking plate VABB	Blanking plate VABB: for vacant position, with blanking plug	43
4 Inscription label IBS-9x17	For identifying the valves	48
5 Inscription label IBS-6x10	–	48
6 Manifold rail VABM-B6-E-N...-M1	With multi-pin plug connection, for connecting max. 16 valves	40
7 Double solenoid valve VUVB-...-B-–	–	34
8 Pressure zone supply module	For pilot air supply (included in the scope of delivery of the manifold rail VABM)	–
9 Silencer U	For fitting in exhaust ports	48
10 Push-in fitting QS	For connecting compressed air tubing with standard O.D.	47
11 Blanking plug B	–	48
12 Pressure zone supply module VABF	Pressure zone supply module VABF: with cartridge	42
13 Inscription label MH-BZ-80X	For identifying the manifold rail	48
14 H-rail mounting kit VAME	For mounting on the H-rail NRH-35-2000	48
15 Separator for pressure zones VABD	For mounting in the manifold rail	43

Valve terminals type 24 VTUB, NPT

Key features

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Individual connection

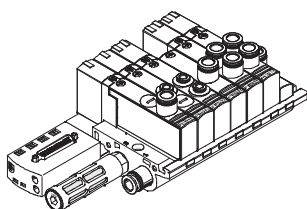


Connection is independent of the control technology used and is flexible thanks to pre-assembled cables. There are two different valve types; in-line valves and semi in-line valves for manifold rails or individual sub-bases. Between 2 ... 20 solenoid coils (divided between 2 ... 10 valve positions) can be selected with individual connection.

Valves can be used on individual sub-bases for actuators further away from the valve terminal. With an individual electrical connection, the plug is connected directly to the valve. A number of plug sockets/ plug sockets with cable can be selected for the valve terminal and for the individual sub-base:

- KMEB-1-...-LED with signal status display
- KMEB-1-230AC-... can be used up to 230 V AC
- MSSD-EB for self-assembly
- KMEB-2-24-... with signal status display
- Illuminating seal MEB-LD for signal status display

Multi-pin plug connection



Control signals from the controller to the valve terminal are transmitted via a pre-assembled multi-core cable, which substantially reduces installation time.

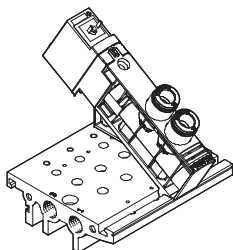
This valve terminal can be equipped with 4 ... 10 valves.

Versions

- Sub-D connection

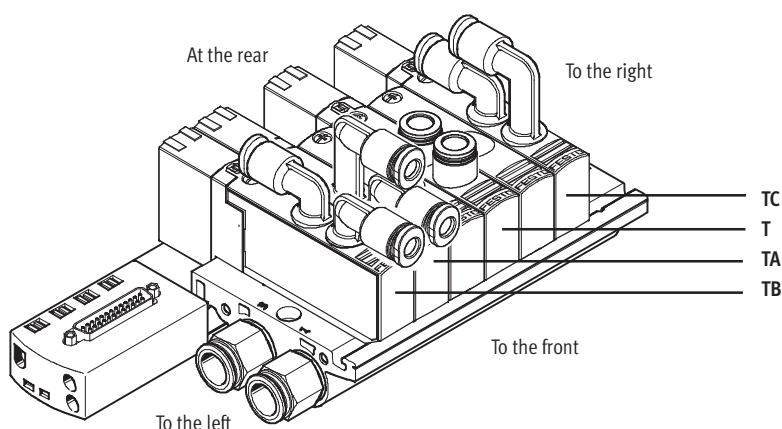
Double solenoid drive with multi-pin plug connection. The valve is equipped with an LED for signal status display.

Wide range of pneumatic components



- Using the same basic valves for both the individual valves and the valve manifold permits fast and flexible conversion and multiple use of parts.
- Flexible construction thanks to assembled and tested units or individual components as modules for individual configurations.
- Flow rates from 200 ... 1,000 l/min depending on the respective application through the selection of appropriate QS connections.

Connection to the valve



Connection positions on valve:

- T (on top, straight)
- TA (on top, angled outlet to the front)
- TB (on top, angled outlet to the front/rear)
- TC (on top, angled outlet to the rear)

Connection sizes for connection position T:

- Push-in connector 4 mm (code P4)
- Push-in connector 6 mm (code P6)
- Push-in connector 8 mm (code P8)
- Push-in connector 10 mm (code P10)

Connection sizes for connection position TB/TA/TC:

- Push-in connector 4 mm (code P4)
- Push-in connector 6 mm (code P6)
- Push-in connector 8 mm (code P8)

Valve terminals type 24 VTUB, NPT

Key features – Pneumatic components

FESTO


Instructions for using pressure zones

The valve terminal VTUB can be operated with 2 pressure zones, supplied either from the left or from the right. Pressure zones are created by means of separators that can be used in the following ducts:

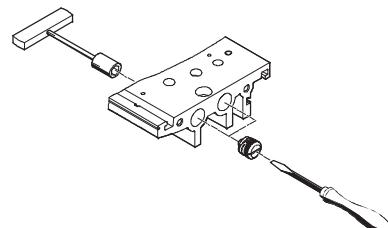
- Supply duct 1 (code TP)
- or
- Supply duct 1 and exhaust duct 3 (code TS) or
- Exhaust duct 3 (code TR)

Duct separation		Code	Description
	<div> <div>1</div> <div>2</div> </div> <div> <div>1</div> Pressure zone 1 <div>2</div> Pressure zone 2 </div>	TP	Duct 1 closed
	<div> <div>1</div> <div>2</div> </div> <div> <div>1</div> Pressure zone 1 <div>2</div> Pressure zone 2 </div>	TS	Duct 1/3 closed
	<div> <div>1</div> <div>2</div> </div> <div> <div>1</div> Pressure zone 1 <div>2</div> Pressure zone 2 </div>	TR	Duct 3 closed

Separator VABD-B6

-  Note

The separator can also be fitted subsequently using a screwdriver/ socket spanner.

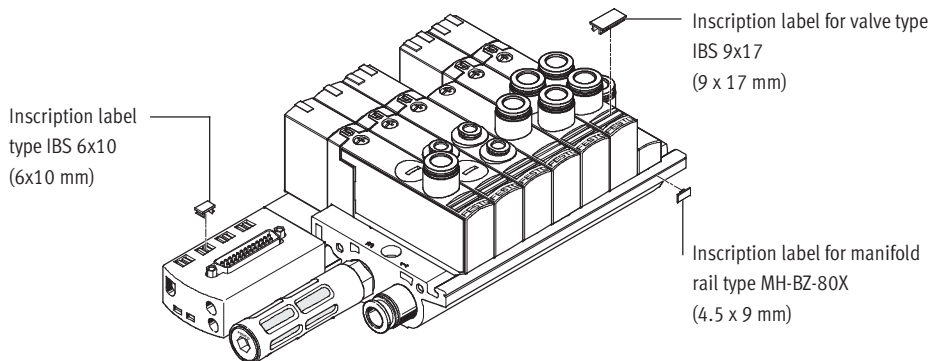


Valve terminals type 24 VTUB, NPT

Key features – Display and operation

FESTO

Identification system



Inscription labels can be applied to the valves and manifold rails to identify them.

- Inscription labels for valve type IBS-9x17
Part No. 161937
- Inscription labels for manifold rail type MH-BZ-80X
Part No. 197259

Display and operation

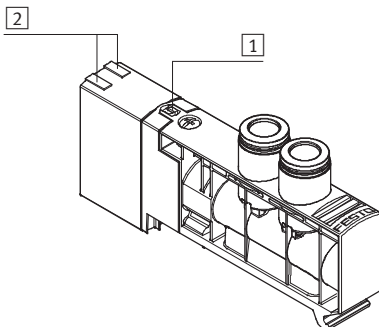
Each solenoid coil can be allocated an LED which indicates its signal status. Suitable plug sockets with cable can be found on page 49. On the multi-pin variant the LED is integrated in the valve.

The manual override (MO) enables the valve to be activated without electronic control or power supply.

The valve is activated by pushing the manual override. The set switching status can be secured by rotating the manual override.

 Note

A manually actuated valve (manual override) cannot be reset electrically. Conversely, an electrically actuated valve cannot be reset using the mechanical manual override.



- 1 Optional manual override (pushing and detenting via turning using a screwdriver)
- 2 LED signal status display per solenoid coil

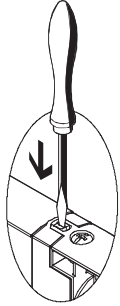
Valve terminals type 24 VTUB, NPT

Key features – Display and operation

FESTO

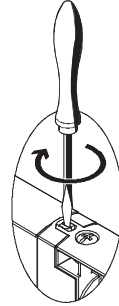
Manual override (MO)

MO with automatic return (non-detenting)



Press in the stem of the MO with a pin or screwdriver.
 → Valve is in switching position
 Remove the pointed object or screwdriver.
 Spring force pushes the stem of the MO back.
 → Valve returns to normal position.

MO with detent (turning with detent)¹⁾



Press in the stem of the MO using a pin or screwdriver until the valve switches and then turn the stem clockwise by 90° until the stop is reached.
 → Valve remains in switching position.
 Turn the stem anti-clockwise by 90° until the stop is reached and then remove the pin or screwdriver.
 Spring force pushes the stem of the MO back.
 → Valve returns to normal position.

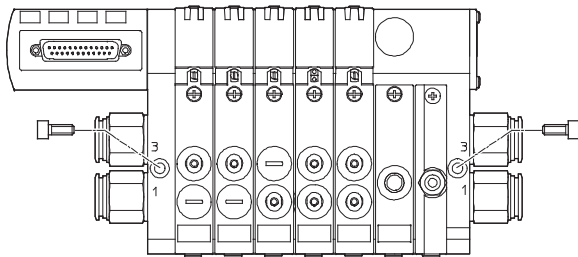
1) Not with double solenoid valve code J for electrical multi-pin plug connection (double solenoid valve)

Mounting – Valve terminal

Sturdy terminal mounting thanks to:

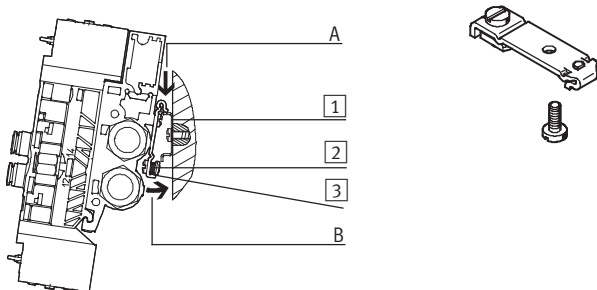
- Two through-holes for wall mounting
- Integrated attachment for H-rail mounting

Wall mounting



The VTUB valve terminal is screwed onto the mounting surface using two M5 screws.

H-rail mounting



The valve terminal VTUB is hooked onto the H-rail (see arrow A). The valve terminal VTUB is then swivelled on the H-rail and secured in place with the clamping component (see arrow B).

- 1 H-rail
- 2 Self-tapping M4x8 screw of the H-rail clamping unit
- 3 Clamping component of the H-rail clamping unit

For H-rail mounting of the valve terminal you will need the mounting kit VAME-B6-T. This permits mounting of the valve terminal on an H-rail to EN 60715.

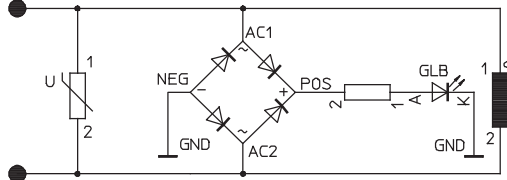
Valve terminals type 24 VTUB, NPT

Key features – Electrical components

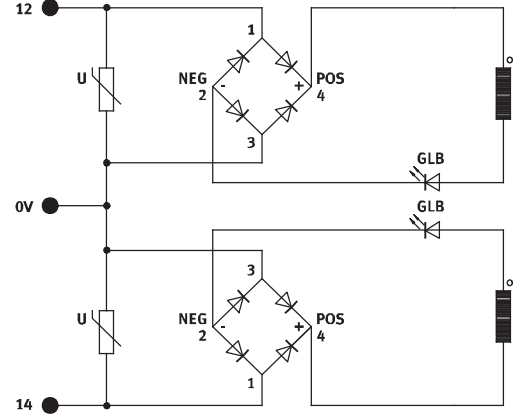
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Protective circuits for plug-in valves for multi-pin terminals

24 V DC version for single solenoid valve



24 V DC version for double solenoid valve



Pin allocation – Sub-D plug

	Connecting cable, 25-wire			Connecting cable, 15-wire		
	Pin	Address/coil	Wire colour ¹⁾	Pin	Address/coil	Wire colour ¹⁾
	1	0	WH	1	0	WH
	2	1	BN	2	1	BN
	3	2	GN	3	2	GN
	4	3	YE	4	3	YE
	5	4	GY	5	4	GY
	6	5	PK	6	5	PK
	7	6	BU	7	6	BU
	8	7	RD	8	7	RD
	9	8	BK	9	8	BK
	10	9	VT	10	9	VT
	11	10	GY PK	11	10	GY PK
	12	11	RD BU	12	11	RD BU
	13	12	GN WH	13	–	–
	14	13	BN GN	14	–	–
	15	14	YE WH	15	–	–
	16	15	BN YE	16	–	–
	17	16	GY WH	17	–	–
	18	17	BN GY	18	–	–
	19	18	WH PK	19	–	–
	20	19	BN PK	20	–	–
	21	20	BU WH	21	–	–
	22	21	BN BU	22	–	–
	23	22	RD WH	23	–	WH GN
	24	23	BN RD	24	–	BN GN
	25	0 V	BK WH	25	0 V	WH YE

1) To IEC 757

Valve terminals type 24 VTUB, NPT

Key features – Applications

FESTO

Equipment

Operate system equipment with unlubricated compressed air if possible. Festo valves and cylinders are designed so that, if used as designated, they will not require additional lubrication and will still achieve a long service life.

The quality of compressed air downstream of the compressor must correspond to that of unlubricated compressed air. If possible, do not operate all of your system equipment with lubricated compressed air. The lubricators should, where possible, always be installed directly upstream of the actuator used.

Incorrect additional oil and too high an oil content in the compressed air reduce the service life of the valve terminal.

Use Festo special oil OFSW-32 or the alternatives listed in the Festo catalogue (as specified in DIN 51524 HLP32; basic oil viscosity 32 CST at 40 °C).

Bio-oils

When using bio-oils (oils which are based on synthetic or native ester, e.g. rapeseed oil methyl ester), the maximum residual oil content of 0.1 mg/m³ must not be exceeded (see ISO 8573-1 Class 2).

Mineral oils

When using mineral oils (e.g. HLP oils to DIN 51524, parts 1 to 3) or similar oils based on poly-alpha-olefins (PAO), the maximum residual oil content of 5 mg/m³ must not be exceeded (see ISO 8573-1 Class 4).

A higher residual oil content irrespective of the compressor oil cannot be permitted, as the basic lubricant would be flushed out over time.

Valve terminals type 24 VTUB, NPT

Type codes – Terminal valves

		VUVB	-	S	-	M32C	-	A	Z	D	-	T14	-	1	T1	L
Valve series																
VUVB	Solenoid valve															
Constructional design																
S	Semi in-line valve															
Valve function																
M32C	3/2-way valve, normally closed															
M32U	3/2-way valve, normally open															
M42	4/2-way valve, single solenoid															
B42	4/2-way valve, double solenoid															
Reset method																
-	None (double solenoid)															
A	Pneumatic reset															
Pilot air supply																
-	Internal															
Z	External															
Manual override																
D	Non-detenting/detenting															
Pneumatic connection																
T532	For tubing O.D. 5/32															
T14	For tubing O.D. 1/4															
T516	For tubing O.D. 5/16															
T38	For tubing O.D. 3/8															
QX	Without push-in connector															
Operating voltage																
1	24 V DC															
Electrical connection																
T1	Plug-in, connection for multi-pin plug															
Signal status display																
L	LED															

Valve terminals type 24 VTUB, NPT

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Technical data – Terminal valves

Voltage

24 V DC

Pressure

–0.9 ... +8 bar

Temperature range

–5 ... +50 °C



General technical data				
Valve function		3/2-way, single solenoid	4/2-way, single solenoid	4/2-way, double solenoid
Design		Piston spool valve		
Sealing principle		Soft		
Actuation type		Electric		
Reset method		Pneumatic spring		–
Type of control		Piloted		
Pilot air supply		Internal or external		
Direction of flow		Non-reversible		
Exhaust function		No flow control		
Manual override		Non-detenting, detenting		Non-detenting
Type of mounting		Via through-hole		
Mounting position		Any		
Width	[mm]	20		
Nominal size	[mm]	7		
Pneumatic connections				
Supply port	1	½ NPT (sub-base)		
Exhaust port	3	½ NPT (sub-base)		
Working lines	2/4	⅝ NPT, ¼ NPT, ⅜ NPT, ⅜ NPT		
External pilot air connection	12/14	⅛ NPT		
Standard nominal flow rate	qnN	[l/min]	200 (⅝ NPT) 500 (¼ NPT), 800 (⅜ NPT), 1,000 (⅜ NPT)	

Operating and environmental conditions		
Operating medium		Dried and filtered compressed air, lubricated or unlubricated, grade of filtration 40 µm, vacuum
Operating pressure	[bar]	–0.9 ... +8
Operating pressure for valve terminal with internal pilot air supply	[bar]	2 ... 8
Pilot pressure	[bar]	2 ... 8
Ambient temperature	[°C]	–5 ... +50
Temperature of medium	[°C]	–5 ... +50
Storage temperature ¹⁾	[°C]	–20 ... +40
Note on materials		RoHS-compliant

1) Long-term storage

Note

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

Valve terminals type 24 VTUB, NPT

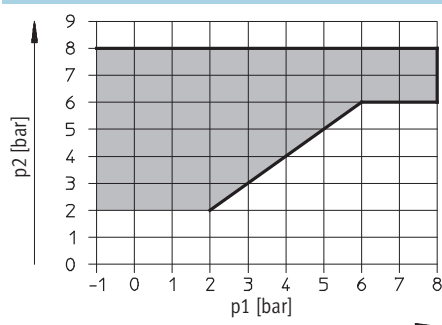
Technical data – Terminal valves

FESTO

Electrical data			
Valve function		3/2-way, single solenoid	4/2-way, single solenoid 4/2-way, double solenoid
Electrical connection		Socket for multi-pin plug	
Nominal operating voltage	[V DC]	24	
Permissible voltage fluctuations		±10%	
Electrical power consumption	[W]	1.5	1.5 3.3 (following a current reduction 0.1)
Protection class to EN 60529		IP65	

Valve switching times [ms]			
Valve function		3/2-way, single solenoid	4/2-way, single solenoid 4/2-way, double solenoid
On		20	20 –
Off		20	20 –
Changeover		–	– 20

Pilot pressure p2 as a function of operating pressure p1

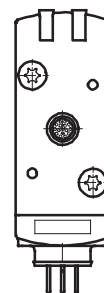
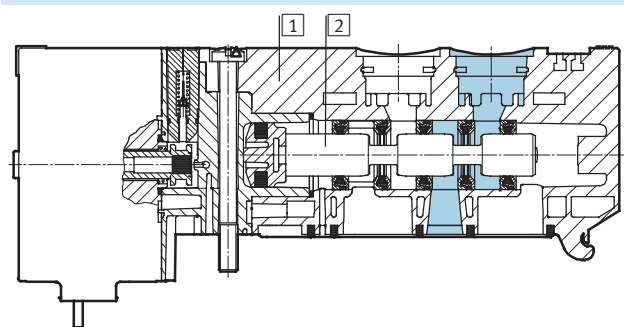


Materials – Valves

Sectional view

Single solenoid

Double solenoid



1	Housing	Reinforced polyamide
2	Piston spool	Wrought aluminium alloy
–	Seals	Nitrile rubber, hydrogenated nitrile rubber, fluoro elastomer

Materials

Manifold rail with multi-pin plug	Wrought aluminium alloy
Pressure zone supply module	Reinforced polyamide
Blanking plate for vacant position	Reinforced polyamide

Valve terminals type 24 VTUB, NPT

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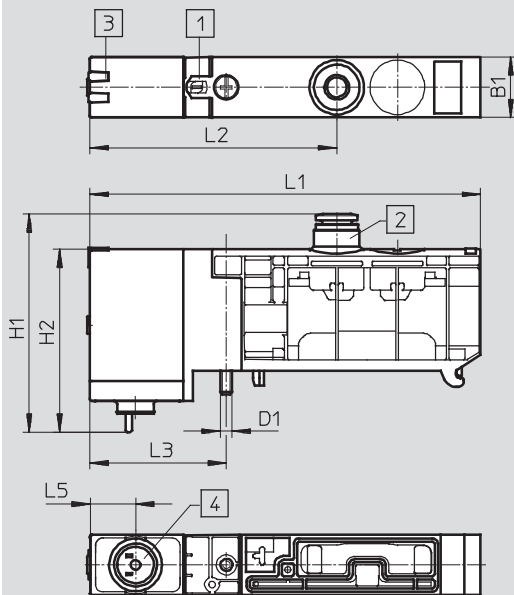
Technical data – Terminal valves

Product weight	
Approx. weight	[g]
Manifold rail with multi-pin plug	
• 4 valve positions	700
• 6 valve positions	925
• 8 valve positions	1160
• 10 valve positions	1390
Pressure zone supply module	30
Valves	
• Single solenoid (code K, N, M)	150
• Double solenoid (code J)	220
Blanking plate for vacant position	25

Dimensions – 3/2-way and 4/2-way valve, single solenoid

Download CAD Data → www.festo.com/us/cad

For electrical multi-pin plug



- 1 Manual override
- 2 Fitting QS
- 3 LED display
- 4 Plug for electrical interlinking

Type	B1	D1	H1	H2	L1	L2	L3	L5
VUVB-S-M32...-T14	20	M4	54	60.3	128.95	81.5	45	15
VUVB-S-M32...-T516			61					
VUVB-S-M32...-T38			65					

Valve terminals type 24 VTUB, NPT

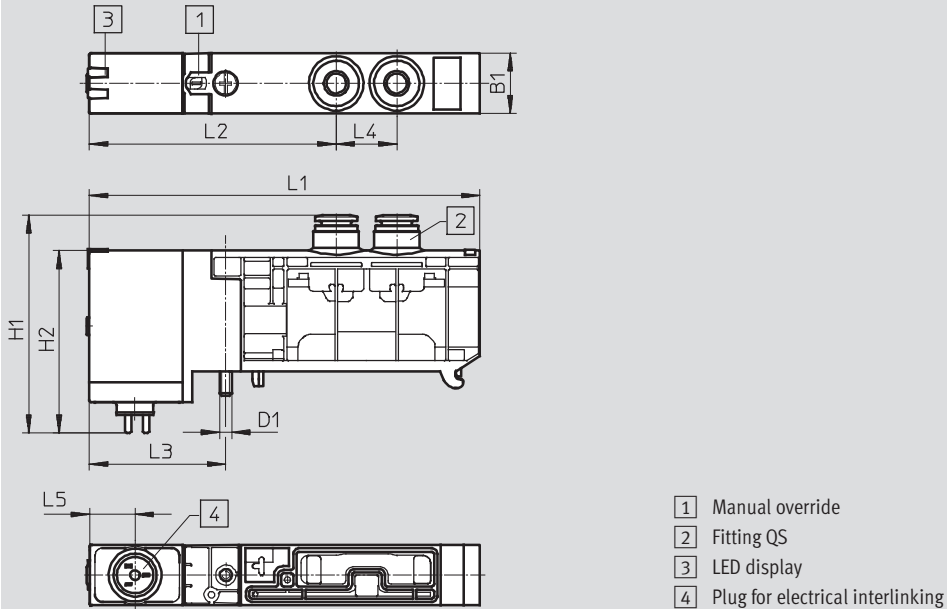
Technical data – Terminal valves

FESTO

Dimensions – 4/2-way valve, double solenoid

Download CAD Data → www.festo.com/us/cad

For electrical multi-pin plug



Type	B1	D1	H1	H2	L1	L2	L3	L4	L5
VUVB-S-B42...-T14	20	M4	54	60.3	128.95	81.5	45	20	15
VUVB-S-B42...-T516			61						
VUVB-S-B42...-T38			65						

Valve terminals type 24 VTUB, NPT

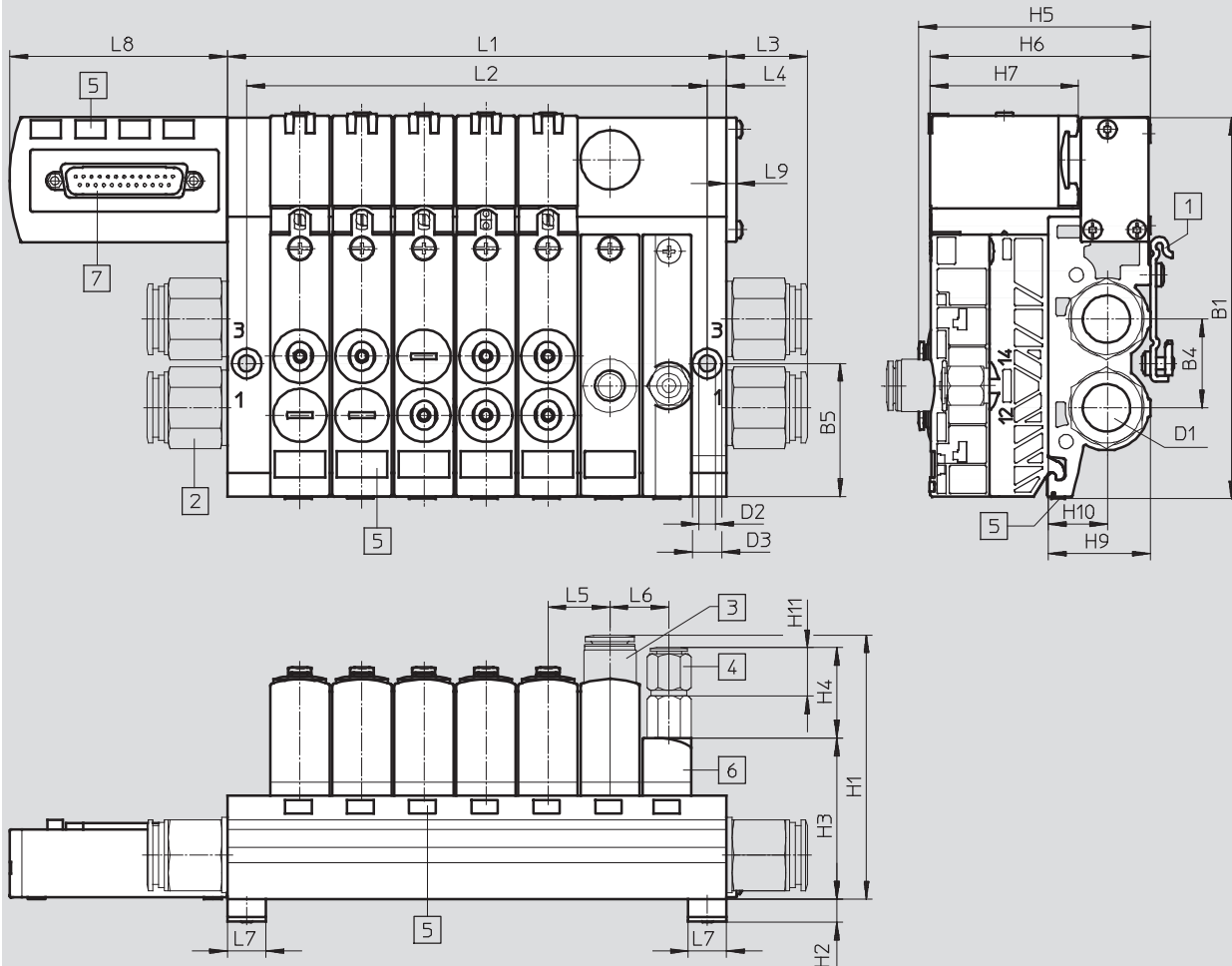
Technical data – Terminal valves

FESTO

Dimensions – Valve terminal

Download CAD Data → www.festo.com/us/cad

With electrical multi-pin plug



- | | | | |
|---|--|---|--|
| 1 Attachment VAME-B6-T (optional) for mounting rail | 3 Push-in fittings (optional, only with pressure zone supply module; blanking plate only with blanking plug) | 4 Push-in fitting for external pilot air supply, with adapter for NPT | 6 Selector plate for internal/external pilot air |
| 2 Push-in fittings (optional) | 5 Inscription label (optional) | 7 Sub-D plug | |

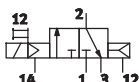
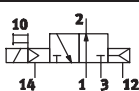
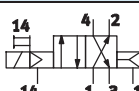
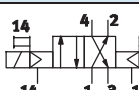
Type	B1	B4	B5	D1	D2 Ø H13	D3 Ø H13	H1	H2	H3	H4	H6	H7	H9	H10	L1 ± 0.2	L2 ± 0.2	L3	L4	L5	L6	L7	L8	L9
VTUB-4--	129.1	30	4	NPT	5.5	10	89.4	8	54.5	30.6	74.5	50.1	34.5	19.7	127	114	27.4	6.5	21	20	13	73.8	3.5
VTUB-6--				1/2											169	156							
VTUB-8--															211	198							
VTUB-10--															253	240							

Type	H5
QSPK18-1/4-U-100	78.9
QSPK18-5/16-U-100	85.7
QSPK18-3/8-U-100	89.5

Valve terminals type 24 VTUB, NPT

FESTO

Technical data – Terminal valves

Ordering data – Valves for valve terminal						
Circuit symbol	Code	Description	Voltage	Pneumatic connection	Part No.	Type
3/2-way valves						
	K	Normally closed, external pilot air supply, pneumatic spring return	24 V DC	QS-1/4	568611	VUVB-S-M32C-AZD-T14-1T1L
				QS-5/16	568612	VUVB-S-M32C-AZD-T516-1T1L
				QS-3/8	568613	VUVB-S-M32C-AZD-T38-1T1L
				Without push-in connector	574001	VUVB-S-M32C-AZD-QX-1T1L
	N	Normally open, external pilot air supply, pneumatic spring return	24 V DC	QS-1/4	568614	VUVB-S-M32U-AZD-T14-1T1L
				QS-5/16	568615	VUVB-S-M32U-AZD-T516-1T1L
				QS-3/8	568616	VUVB-S-M32U-AZD-T38-1T1L
				Without push-in connector	574002	VUVB-S-M32U-AZD-QX-1T1L
4/2-way valves, single solenoid						
	M	External pilot air supply, pneumatic spring return	24 V DC	QS-1/4	568617	VUVB-S-M42-AZD-T14-1T1L
				QS-5/16	568618	VUVB-S-M42-AZD-T516-1T1L
				QS-3/8	568619	VUVB-S-M42-AZD-T38-1T1L
				Without push-in connector	537640	VUVB-S-M42-AZD-QX-1T1L
4/2-way valves, double solenoid						
	J	External pilot air supply	24 V DC	QS-1/4	568620	VUVB-S-B42-ZD-T14-1T1L
				QS-5/16	568621	VUVB-S-B42-ZD-T516-1T1L
				QS-3/8	568622	VUVB-S-B42-ZD-T38-1T1L
				Without push-in connector	537641	VUVB-S-B42-ZD-QX-1T1L

Valve terminals type 24 VTUB, NPT

Technical data – Manifold rail

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Manifold rail with electrical multi-pin plug

VABM-...-M1

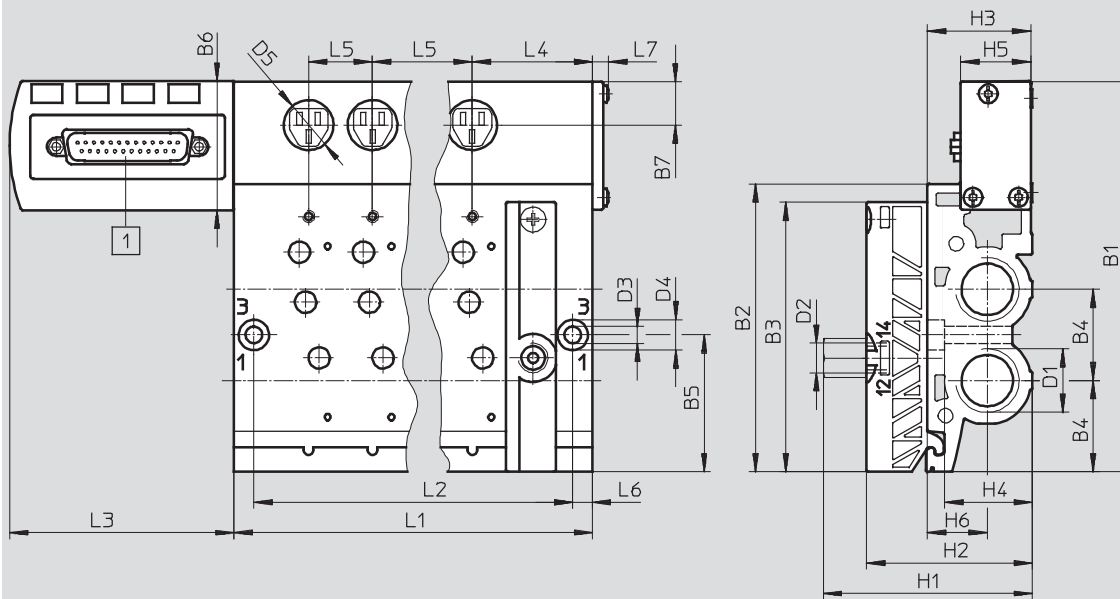
Material:

Wrought aluminium alloy



Dimensions

Download CAD Data → www.festo.com/us/cad



1 Sub-D plug

Note

The manifold rail is supplied with an adapter for NPT.

Type	B1	B2	B3	B4 ± 0.2	B5	B6	B7	D1	D2	D3 -Ø- H13	D4 -Ø- H13	D5 -Ø- H13	H1	H2	H3	H4	H5	H6 ±0.2
VABM-B6-E-N12-4-M1	128.3	94.7	88.7	30	45	42.2	14.3	1/2NPT	1/8NPT	5.5	10	16.4	68.7	54.5	34	28.8	23	19.7
VABM-B6-E-N12-6-M1																		
VABM-B6-E-N12-8-M1																		
VABM-B6-E-N12-10-M1																		

Type	L1	L2	L3	L4 ±0.1	L5 ±0.1	L6 ±0.1	L7
VABM-B6-E-N12-4-M1	127	114	73.8	39.5	21	6.5	5.4
VABM-B6-E-N12-6-M1	169	156					
VABM-B6-E-N12-8-M1	211	198					
VABM-B6-E-N12-10-M1	253	240					

Valve terminals type 24 VTUB, NPT

Technical data – Manifold rail

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Ordering data		
CRC	Part No.	Type
2 ¹⁾	568181	VABM-B6-E-N12-4-M1
2 ¹⁾	568182	VABM-B6-E-N12-6-M1
2 ¹⁾	568183	VABM-B6-E-N12-8-M1
2 ¹⁾	568184	VABM-B6-E-N12-10-M1

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to medium corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Solenoid valves VUVB/valve terminals type 24 VTUB, NPT

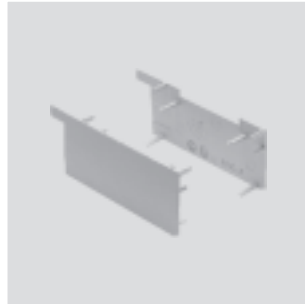
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Accessories

Cover for valve housing VAMC

Material:

Polyamide



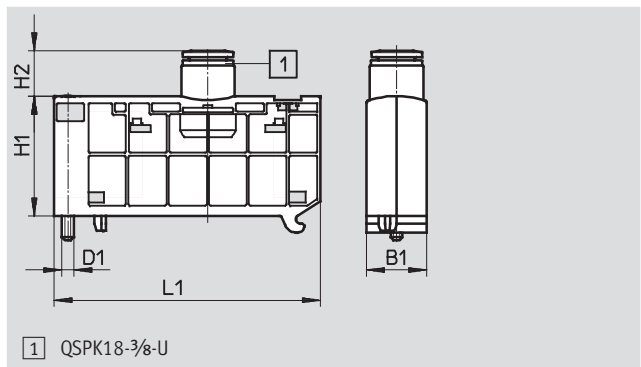
Ordering data		
CRC	Part No.	Type
2 ¹⁾	537512	VAMC-B6-C

- 1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Pressure zone supply module VABF

Material:

Reinforced polyamide



Type	D1	B1	H1	H2	L1
VABF-B6-...	M4	20	40	15	88.5

Ordering data				
		CRC	Part No.	Type
For individual electrical connection	With cartridge QSPK18-3/8-U	2 ¹⁾	568624	VABF-B6-P1A5-T38
For multi-pin plug connection	With cartridge QSPK18-3/8-U and cover cap for multi-pin plug connection	2 ¹⁾	568623	VABF-B6-P1A9-T38

- 1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

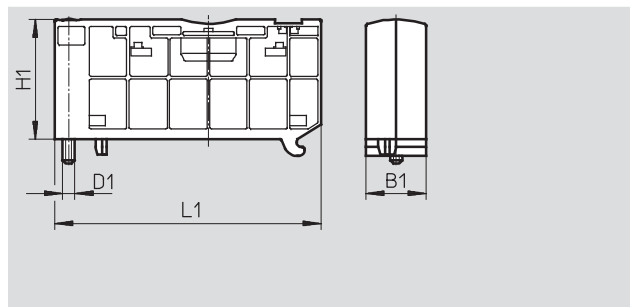
Solenoid valves VUVB/valve terminals type 24 VTUB, NPT

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Accessories

Blanking plate VABB

Material:
Reinforced polyamide



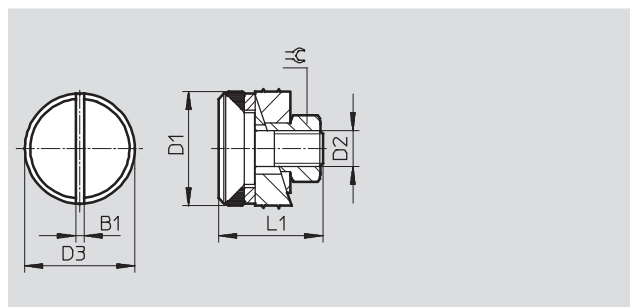
Type	B1	D1	H1	L1
VABB-B-6-E	20	M4	40	88.5

Ordering data				
		CRC	Part No.	Type
For individual electrical connection	–	2 ¹⁾	537513	VABB-B6-E
For multi-pin plug connection	With cover cap for multi-pin plug connection	2 ¹⁾	537623	VABB-B6-ET

1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Separator for pressure zones VABD

Material:
Steel



Type	B1	D1 Ø	D2 Ø	D3	L1	⌀
VABD-B6-14-P-C	1.6	11.7	M4	11.3	13.9	7
VABD-B6-12-P-C	1.4	19	M6	18.3	17.3	10

Ordering data				
Manifold rail	CRC	Part No.	Type	
¼ NPT	2 ¹⁾	537515	VABD-B6-14-P-C	
½ NPT	2 ¹⁾	537516	VABD-B6-12-P-C	

1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

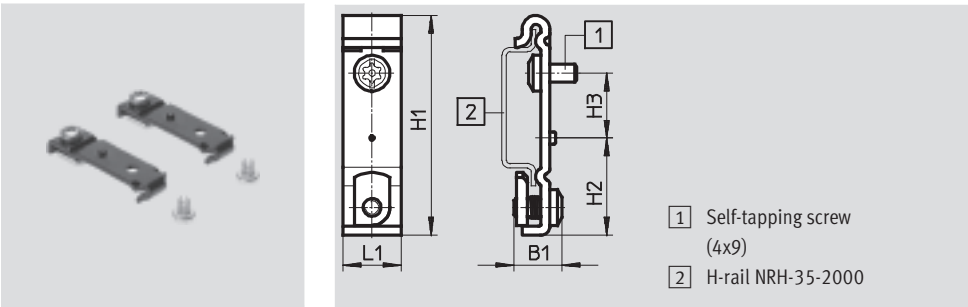
Solenoid valves VUVB/valve terminals type 24 VTUB, NPT

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Accessories

H-rail mounting kit VAME

Material:
Steel



Type	B1	H1	H2	H3	L1
VAME-B6-T	10.7	49.1	21.7	14.5	13

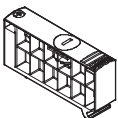

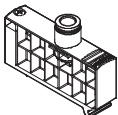
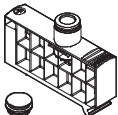
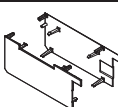
Ordering data		
CRC	Part No.	Type
2 ¹⁾	537514	VAME-B6-T

1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Solenoid valves VUVB/valve terminals type 24 VTUB, NPT

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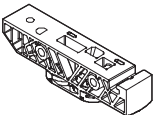

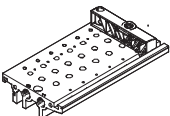
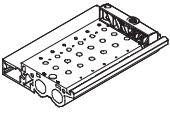
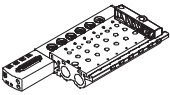

Accessories

Ordering data					
	Code	Valve function	Pneumatic connection	Part No.	Type
Blanking plate for vacant position					
	L	For individual electrical connection	–	537513	VABB-B6-E
	L	For multi-pin plug connection with cover cap for electrical multi-pin plug connection	–	537623	VABB-B6-ET
Pressure zone supply module					
	S	Additional supply for individual electrical connection	QS-3/8	568623	VABF-B6-P1A5-Q38
	S	Additional supply for multi-pin plug connection with cover cap for electrical multi-pin plug connection	QS-3/8	568624	VABF-B6-P1A9-Q38
			Without push-in connector	537532	VABF-B6-P1A5-QX
Cover plate for valve housing					
	C	Valve design with cover	–	537512	VAMC-B6-C

Solenoid valves VUVB/valve terminals type 24 VTUB, NPT

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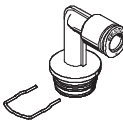

Accessories

Ordering data						
	Code	Description	Valve positions	Compressed air supply connection	Part No.	Type
Sub-base for individual valve						
	–	Internal pilot air supply	1	Cartridge	537518	VABS-B6-PB-Q-B
	–	External pilot air supply	1	Cartridge	537519	VABS-B6-PB-Q
Adapter for individual sub-base						
	–	For thread 1/4 NPT	1	1/4 NPT	9396	AD-G1/4-1/4NPT-I
Manifold rail for individual electrical connection						
	–		2	1/4 NPT	568185	VABM-B6-E-N14-2
			4		568186	VABM-B6-E-N14-4
			6		568187	VABM-B6-E-N14-6
			8		568188	VABM-B6-E-N14-8
			10		568189	VABM-B6-E-N14-10
	–		2	1/2 NPT	570725	VABM-B6-E-N12-2
			4		570726	VABM-B6-E-N12-4
			6		570727	VABM-B6-E-N12-6
			8		570728	VABM-B6-E-N12-8
			10		570729	VABM-B6-E-N12-10
Manifold rail for valve terminal with multi-pin plug connection						
	–		4	1/2 NPT	568181	VABM-B6-E-N12-4-M1
			6		568182	VABM-B6-E-N12-6-M1
			8		568183	VABM-B6-E-N12-8-M1
			10		568184	VABM-B6-E-N12-10-M1
Separator						
	TP, TS, TR	For duct separation	–	1/4 NPT	537515	VABD-B6-14-P-C
			–	1/2 NPT	537516	VABD-B6-12-P-C

Solenoid valves VUVB/valve terminals type 24 VTUB, NPT

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



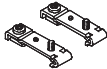
Accessories

Ordering data						
	Code	Description	Tubing O.D.	Packaging unit	Part No.	Type
Cartridge with push-in connector						
	–	Straight	5/32	10 pieces	132171	QSPK18-5/32-U
	–		1/4	10 pieces	132172	QSPK18-1/4-U
	–		5/16	10 pieces	132173	QSPK18-5/16-U
	–		3/8	10 pieces	132174	QSPK18-3/8-U
	–	L-shape	5/32	10 pieces	132175	QSPLK18-5/32-U
	–		1/4	10 pieces	132176	QSPLK18-1/4-U
	–		5/16	10 pieces	132177	QSPLK18-5/16-U
	–	Extra-long L-shape	5/32	10 pieces	132178	QSPLLK18-5/32-U
	–		1/4	10 pieces	132179	QSPLLK18-1/4-U
	–		5/16	10 pieces	132180	QSPLLK18-5/16-U
Push-in fitting						Technical data ➔ Internet: quick star
	–	Connection 1/4 NPT	3/8	1 piece	533278	QB-1/4-3/8-U
	–		1/2	1 piece	567771	QB-1/4-1/2-U
	–	Connection 1/2 NPT	3/8	1 piece	533283	QB-1/2-3/8-U
	–		1/2	1 piece	533284	QB-1/2-1/2-U
	–	Connection 1/8 NPT	1/4	1 piece	533273	QB-1/8-1/4-U

Solenoid valves VUVB/valve terminals type 24 VTUB, NPT

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

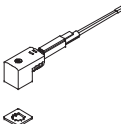

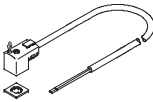
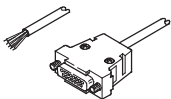
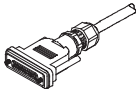

Accessories

Ordering data					
	Code	Description	Packaging unit	Part No.	Type
Blanking plug					
	–	Connection Ø 18 mm	10 pieces	537533	QSPC18
	–	For thread 1/4 NPT	10 pieces	174165	B-1/4-NPT
	–	For thread 1/2 NPT	10 pieces	31785	B-1/2-NPT
Adapter					
	–	For thread 1/8 NPT	1 piece	9395	AD-G1/8-1/8NPT-I
Silencer					
			Technical data → Internet: u		
	–	For thread 1/4 NPT	1 piece	12639	U-1/4-B-NPT
	–	For thread 1/2 NPT	1 piece	12741	U-1/2-B-NPT
Inscription label					
	–	Scope of delivery 24 labels in frame		161937	IBS-9x17
	–	Scope of delivery 80 labels in frame		197259	MH-BZ-80X
	–	Scope of delivery 64 labels in frame		18576	IBS-6x10
H-rail mounting kit					
	H	Attachment of the manifold rails to H-rails to EN 60715-TH35	1 piece	537514	VAME-B6-T

Solenoid valves VUVB/valve terminals type 24 VTUB, NPT

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Accessories

Ordering data						
	Code	Description	Voltage [V]	Cable length [m]	Part No.	Type
Plug socket					Technical data ➔ Internet: mssd-eb	
	–	With screw terminals, for self-assembly	Up to 250 AC	–	151687	MSSD-EB
	C		Up to 250 AC	–	539712	MSSD-EB-M12
	–	With insulation displacement connection, for self-assembly	Up to 250 AC	–	192745	MSSD-EB-S-M14
Plug socket with cable for individual electrical connection					Technical data ➔ Internet: kmeb	
	–	Switching status display via LED	24 DC	2.5	151688	KMEB-1-24-2,5-LED
		Polyvinyl chloride	24 DC	5	151689	KMEB-1-24-5-LED
		Polyvinyl chloride	Up to 240 AC	2.5	151690	KMEB-1-230AC-2,5
		Polyvinyl chloride	Up to 240 AC	5	151691	KMEB-1-230AC-5
	C1	Switching status display via LED, polyurethane	24 DC	2.5	174844	KMEB-2-24-2,5-LED
	C2	Switching status display via LED, polyurethane	24 DC	5	174845	KMEB-2-24-5-LED
	C1	Polyurethane	Up to 230 AC	2.5	174846	KMEB-2-230AC-2,5
	C2	Polyurethane	Up to 230 AC	5	174847	KMEB-2-230AC-5
	–	Switching status display via LED	24 DC	2.5	547268	KMEB-3-24-2,5-LED
		Polyvinyl chloride	24 DC	5	547269	KMEB-3-24-5-LED
		Polyvinyl chloride	24 DC	2.5	547270	KMEB-3-24-2,5
		Polyvinyl chloride	24 DC	5	547271	KMEB-3-24-5
Connecting cable for multi-pin plug to IP40						
	–	Sub-D, 25-pin, up to 20 coils	24 DC	2.5	530046	KMP6-25P-20-2,5
	–	Polyvinyl chloride	24 DC	5	530047	KMP6-25P-20-5
	–	Polyvinyl chloride	24 DC	10	530048	KMP6-25P-20-10
	–	Sub-D, 25-pin, up to 12 coils	24 DC	2.5	530049	KMP6-25P-12-2,5
	–	Polyvinyl chloride	24 DC	5	530050	KMP6-25P-12-5
	–	Polyvinyl chloride	24 DC	10	530051	KMP6-25P-12-10
Connecting cable for multi-pin plug to IP65						
	M1	Sub-D, 25-pin, up to 12 coils	24 DC	2.5	538222	NEBV-S1G25-K-2,5-N-LE15
	M2	Polyvinyl chloride	24 DC	5	538223	NEBV-S1G25-K-5-N-LE15
	M3	Polyvinyl chloride	24 DC	10	538224	NEBV-S1G25-K-10-N-LE15
	M1	Sub-D, 25-pin, up to 24 coils	24 DC	2.5	538225	NEBV-S1G25-K-2,5-N-LE25
	M2	Polyvinyl chloride	24 DC	5	538226	NEBV-S1G25-K-5-N-LE25
	M3	Polyvinyl chloride	24 DC	10	538227	NEBV-S1G25-K-10-N-LE25
Illuminating seal						
	–	For indicating the signal status	12 ... 24 DC	–	151717	MEB-LD-12-24DC
	–		Up to 230 AC	–	151718	MEB-LD-230AC

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