

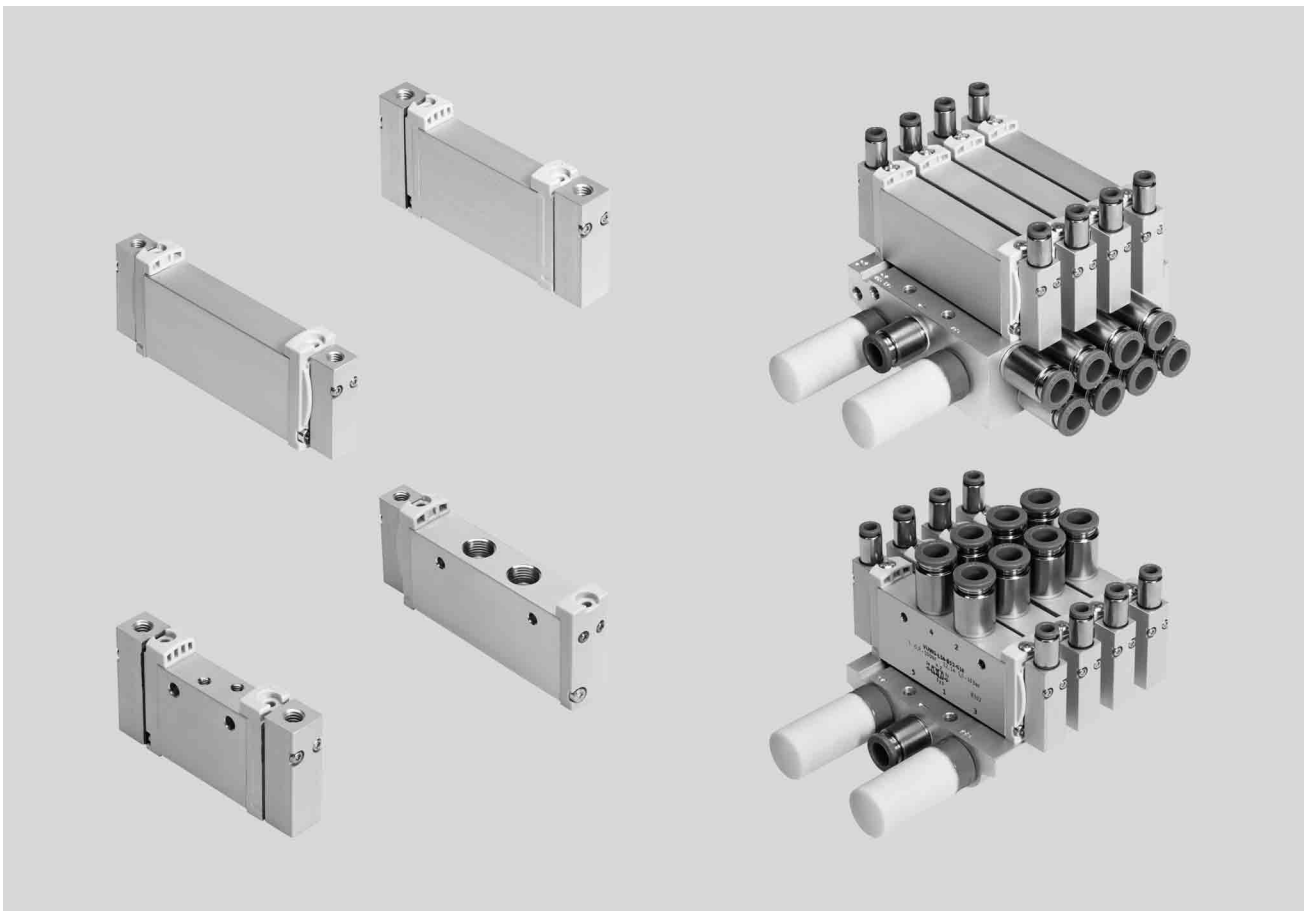
Pneumatic valves VUWG



Pneumatic valves VUWG

Key features

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Innovative

- Various connection sizes (M3, M5, M7, G $\frac{1}{8}$, G $\frac{1}{4}$)
- Max. pressure 10 bar
- 2x3/2-way valve in one valve housing

Versatile

- Wide range of valve functions
- In-line valves can be used as individual valves or manifold valves
- M5/M7 in-line valves can be mixed on one manifold rail
- Identical sub-base valves for M5 or M7 manifold rail
- Manifolds with pressure zones
- Choice of quick push-in connectors

Reliable

- Sturdy and durable metal components
 - Valves
 - Manifold rails
- Reliable servicing thanks to valves that can be replaced quickly and easily

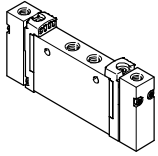
Easy to mount

- Secure mounting on wall or H-rail
- Easy mounting thanks to captive screws and seals

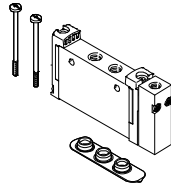
Pneumatic valves VUWG

Key features – Pneumatic components

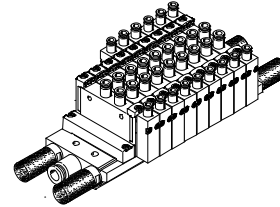
Individual valves and valve manifolds



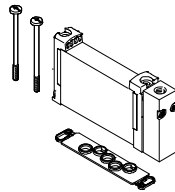
VUWG-L in-line valve as individual valve



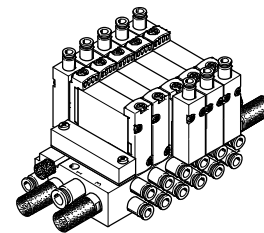
VUWG-S in-line valve for manifold assembly



VUWG-S valve manifold consisting of in-line valves

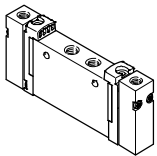


VUWG-B sub-base valve for manifold assembly



VUWG-B valve manifold consisting of sub-base valves

VUWG basic valves

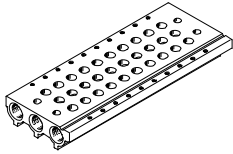


- Width 10, 14 and 18 mm
- 2x 3/2-way, 5/2-way and 5/3-way valves
- In-line valves
- Sub-base valves

Pneumatic valves VUWG

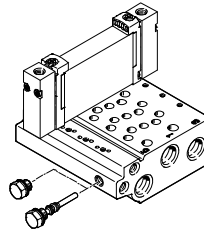
Key features – Pneumatic components

Manifold rail for in-line valves



- For in-line valves M3, M5, M7, G $\frac{1}{8}$ and G $\frac{1}{4}$, width 10/14/18
- For 2x3/2-way, 5/2-way and 5/3-way valves
- 2 to 10 and 12, 14, 16 valve positions

Manifold rail for sub-base valves



- For sub-base valves 10A, 10, 14 and 18, width 10/14/18
- Manifold rail with M3, M5/M7, G $\frac{1}{8}$ and G $\frac{1}{4}$ working ports
- For 2x3/2-way, 5/2-way and 5/3-way valves
- 2 to 10, 12, 14 and 16 valve positions
- The sub-base valves always have external pneumatic spring supply. The pneumatic spring is supplied via the manifold rail. A short (for internal pneumatic spring supply) and long (for external pneumatic spring supply) blanking plug are included with the manifold rail for this purpose.



Note

Duct 84 must not be sealed by a blanking plug when connecting a sub-base valve.

Blanking plate for vacant position



For covering unused valve positions

Supply plate



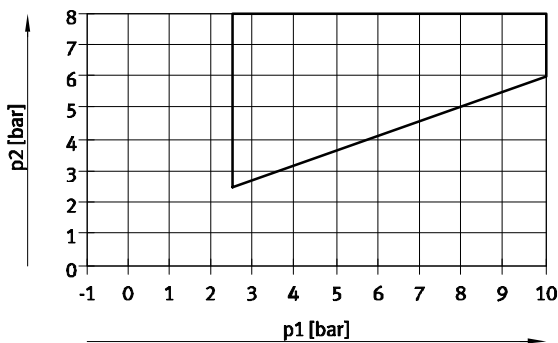
For additional air supply and exhaust via a valve position

Separator for pressure zones



For creating multiple pressure zones

Pilot pressure p₂ as a function of operating pressure p₁



This graph applies to the 2x3/2-way valves and 5/2-way single pilot valves with air spring:

- T32CA, T32UA, T32HA
- M52A, M52R



Note

The compressed air for the air spring is supplied from port 1 (operating pressure). To ensure reliable valve switching, the minimum pressure as per the graph must always be adhered to for the pilot pressure.

Pneumatic valves VUWG

Key features – Pneumatic components

Creating pressure zones and separating exhaust air


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

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

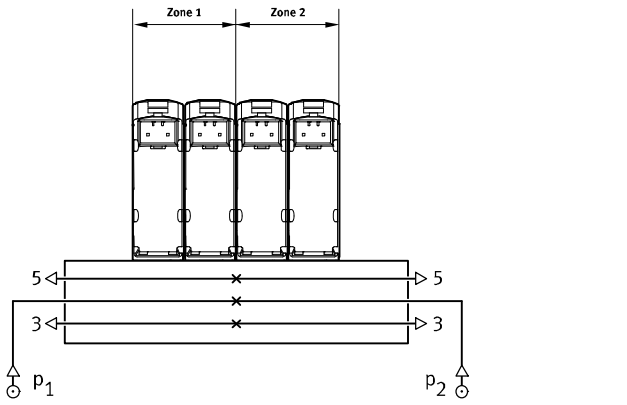
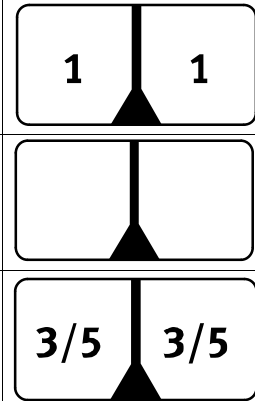

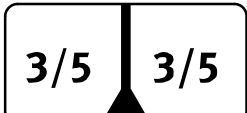
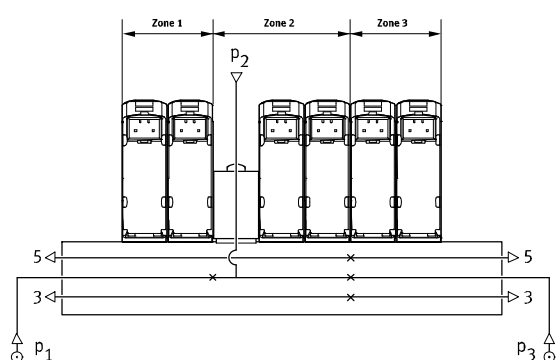
Pressure zones are created by isolating the internal supply ducts between the manifold sub-bases by means of appropriate duct separation.

Pressure zone separation can be used for the following ducts:

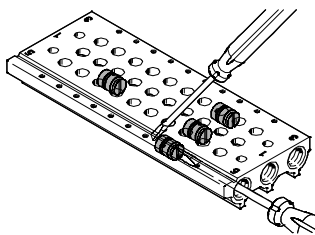
- Duct 1
- Duct 3
- Duct 5


 Note

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

Duct separation	Description	Symbol
	<p>The pressure zones can be freely configured with the VUWG. 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 VUWG is only limited by the number of valve positions on the manifold rail. Note that each supply plate occupies one valve position.</p>	

Separator VABD



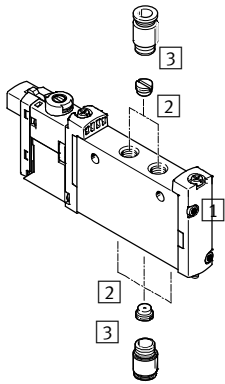
 Note

As the separators are mounted from only one side using a slotted screwdriver, several pressure zones can be created in one profile.

Pneumatic valves VUWG

Key features – Pneumatic components

Flow control valve



- 1 Valve
- 2 Flow control valve
- 3 Fitting

Flow control mountable on port 1, 3/5 and/or on port 2/4.

Operation with different pressures

Vacuum operation

Note the following with vacuum operation:

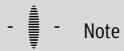
- M52 in-line valves with pneumatic spring and pneumatic/mechanical spring reset (vacuum only at 3/5)
- T32 valves with pneumatic spring reset (vacuum only at 3/5)

If external pilot air via duct 14 is used, M52 sub-base valves (B) can be used without restriction.

The remaining valve types can be used without restriction for vacuum.

Reverse operation

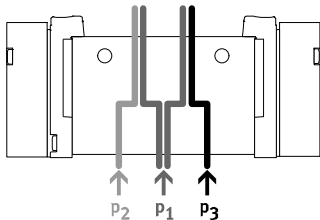
The valves with pneumatic spring are not suitable for reverse operation, since at least the minimum pilot pressure must be present in duct 1.



Note

Pressure must be present at port 1.

Pressure deflector (internal pilot air)



- If two different pressures are required.

- Different pressures can be supplied at duct 1, 3 and 5.



Note

- With internal pilot air, the minimum pilot pressure must be adhered to in duct 1

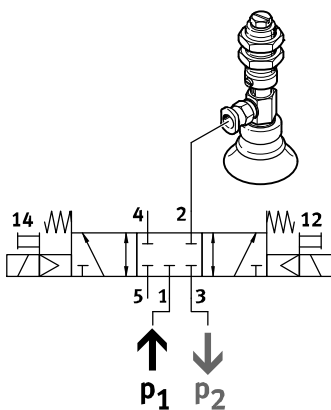
- With 2x3/2-way valves without spring return, the minimum pilot pressure must always be adhered to in duct 1

Advantages

Any pressure or vacuum can be connected at ducts 3 and 5 both with

external and internal pilot air.

Vacuum, ejector pulse and normal position

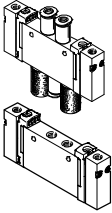
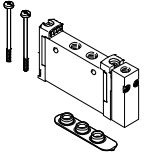


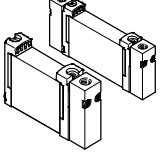
Vacuum, ejector pulse and normal position with internal pilot air can be achieved by connecting vacuum

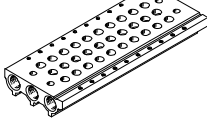
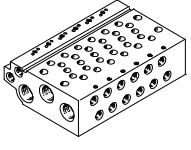
at duct 3 and pressure for the ejector pulse at duct 1.

Pneumatic valves VUWG

Product range overview

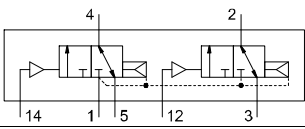
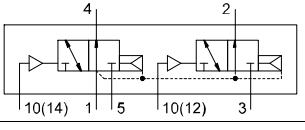
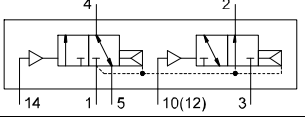
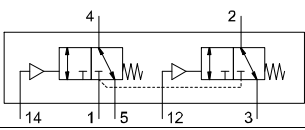
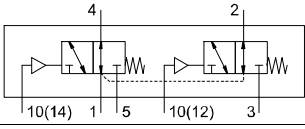
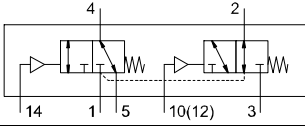
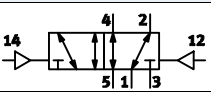
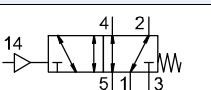
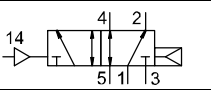
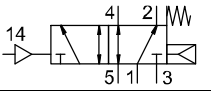
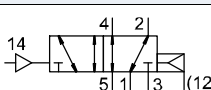
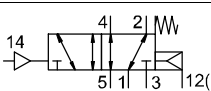
Design	Working port	Valve code	Functions and flow rate [l/min]											→ Page/ Internet	
			T32C	T32U	T32H	T32C/M	T32U/M	T32H/M	M52	M52/M	B52	P53C	P53U		P53E
In-line valve as individual valve, VUWG-L															
	M3	10A	-	-	-	-	-	-	100	80	100	90	90	90	12
	M5	10	■	■	■	■	■	■	■	■	■	■	■	■	18
	M7	10	150	150	150	135	125	125	220	190	220	210	210	210	18
	G1/8	14	■	■	■	■	■	■	■	■	■	■	■	■	28
	G1/4	18	650	600	650	550	500	500	780	780	780	650	600	600	35
			1,000	1,000	1,000	1,000	1,000	1,000	1,300	1,300	1,380	1,200	1,200	1,200	
In-line valve for manifold assembly, VUWG-S															
	M3	10A	-	-	-	-	-	-	100	80	100	90	90	90	15
	M5	10	■	■	■	■	■	■	■	■	■	■	■	■	25
	M7	10	150	150	150	135	125	125	220	190	220	210	210	210	25
	G1/8	14	■	■	■	■	■	■	■	■	■	■	■	■	32
	G1/4	18	620	580	580	520	480	480	730	730	730	620	580	580	39
			1,000	1,000	1,000	1,000	1,000	1,000	1,300	1,300	1,380	1,200	1,200	1,200	

Design	Working port	Type code	Functions and flow rate [l/min]											→ Page/ Internet	
			T32C	T32U	T32H	T32C/M	T32U/M	T32H/M	M52	M52/M	B52	P53C	P53U		P53E
Sub-base valve, VUWG-B															
	-	10 A	-	-	-	-	-	-	100	80	100	90	90	90	42
	-	10	■	■	■	■	■	■	■	■	■	■	■	■	47
	-	10	150	150	150	130	120	120	210	180	210	200	200	200	47
	-	14	■	■	■	■	■	■	■	■	■	■	■	■	52
	-	18	160	160	160	140	130	130	270	230	270	250	250	250	57
			540	510	540	430	410	410	580	580	580	540	510	510	
			900	900	900	900	900	900	1,000	1,000	1,000	950	950	950	

Design	Working port	Type code	Description	→ Page/ Internet
Manifold rail VABM- ... -S- ... , for in-line valves (manifold assembly)				
	-	-	Valve size M3, M5, M7, G1/8, G1/4	vabm
Manifold rail VABM, for sub-base valves				
	-	10AW	Connection size M3	vabm
	-	10W	Connection size M5	
	-	10HW	Connection size M7	
	-	14W	Connection size G1/8	
	-	18W	Connection size G1/4	

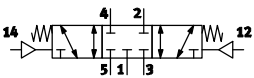
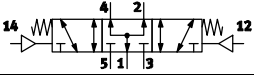
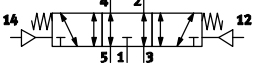
Pneumatic valves VUWG

Overview of valve functions

Valve	Valve code	Description	Valve terminal/ position function order code	Size			
				M3	M5/M7	G1/8	G1/4
2x 3/2-way valve, pneumatic spring							
	T32C-A	<ul style="list-style-type: none"> Normally closed Reset via pneumatic spring 	K	-	■	■	■
	T32U-A	<ul style="list-style-type: none"> Normally open Reset via pneumatic spring 	N	-	■	■	■
	T32H-A	<ul style="list-style-type: none"> 1x normally open 1x normally closed Reset via pneumatic spring 	H	-	■	■	■
2x 3/2-way valve, mechanical spring							
	T32C-M	<ul style="list-style-type: none"> Normally closed Reset via mechanical spring 	VK	-	■	■	■
	T32U-M	<ul style="list-style-type: none"> Normally open Reset via mechanical spring 	VN	-	■	■	■
	T32H-M	<ul style="list-style-type: none"> 1x normally open 1x normally closed Reset via mechanical spring 	VH	-	■	■	■
5/2-way valve, bistable							
	B52	-	J	■	■	■	■
5/2-way valve, monostable							
	M52-M	<ul style="list-style-type: none"> Reset via mechanical spring 	A	■	■	■	■
	M52-A	<ul style="list-style-type: none"> In-line valve Reset via pneumatic spring 	M	-	-	■	-
	M52-R	<ul style="list-style-type: none"> In-line valve Reset via pneumatic/mechanical spring 	P	■	■	-	■
5/2-way valve, monostable, sub-base valve							
	M52-A	<ul style="list-style-type: none"> Reset via pneumatic spring 	M	-	-	■	-
	M52-R	<ul style="list-style-type: none"> Reset via pneumatic/mechanical spring 	P	■	■	-	■

Pneumatic valves VUWG

Overview of valve functions

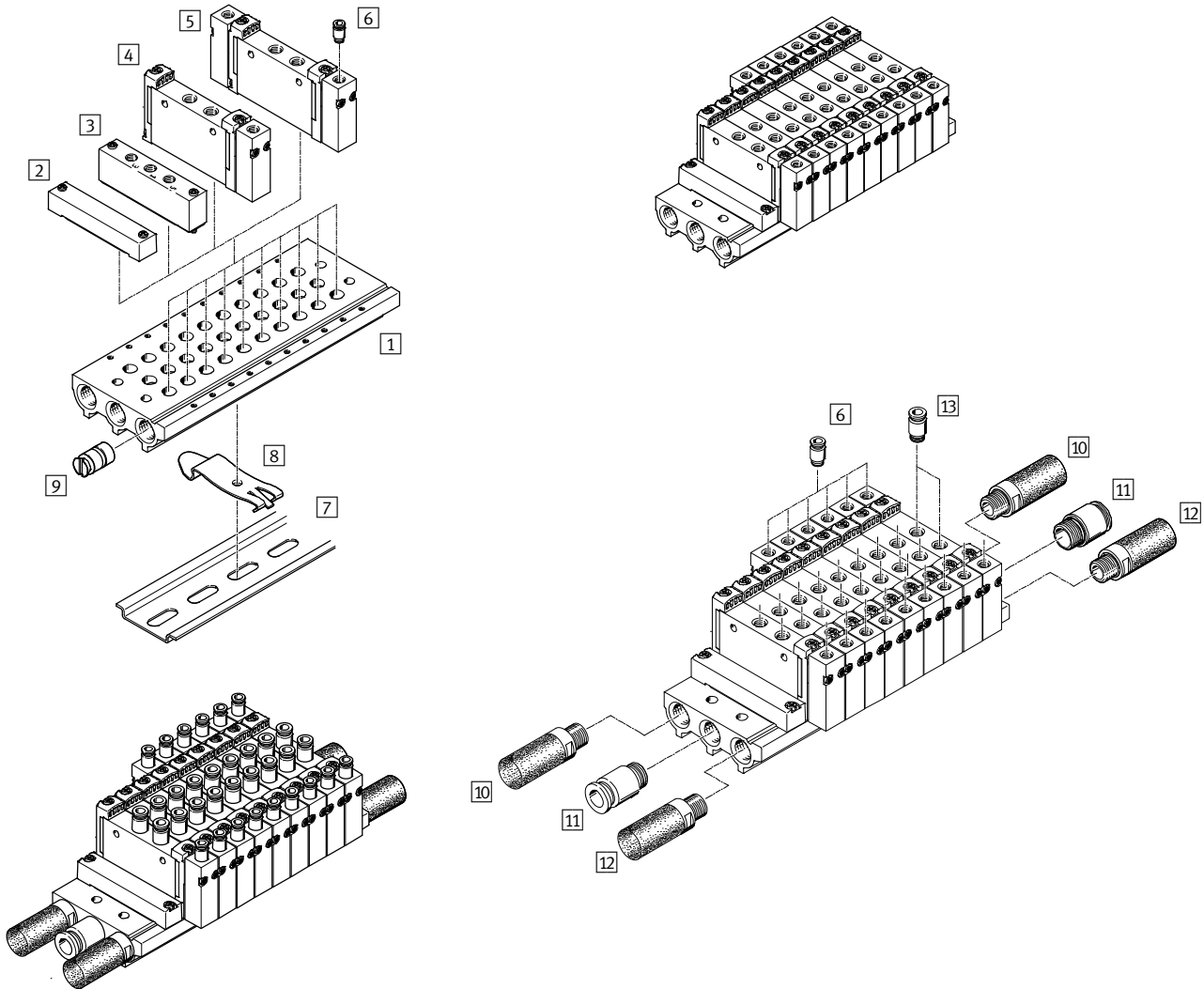
Valve	Valve code	Description	Valve terminal/ position function order code	Size			
				M3	M5/M7	G1/8	G1/4
5/3-way valve							
	P53C	<ul style="list-style-type: none"> • Mid-position closed • Reset via mechanical spring 	G	■	■	■	■
	P53U	<ul style="list-style-type: none"> • Mid-position pressurised • Reset via mechanical spring 	B	■	■	■	■
	P53E	<ul style="list-style-type: none"> • Mid-position exhausted • Reset via mechanical spring 	E	■	■	■	■

Pneumatic valves VUWG

Sample system overview – VUWG-L10 and VUWG-S10, in-line valves M5/M7

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Manifold assembly

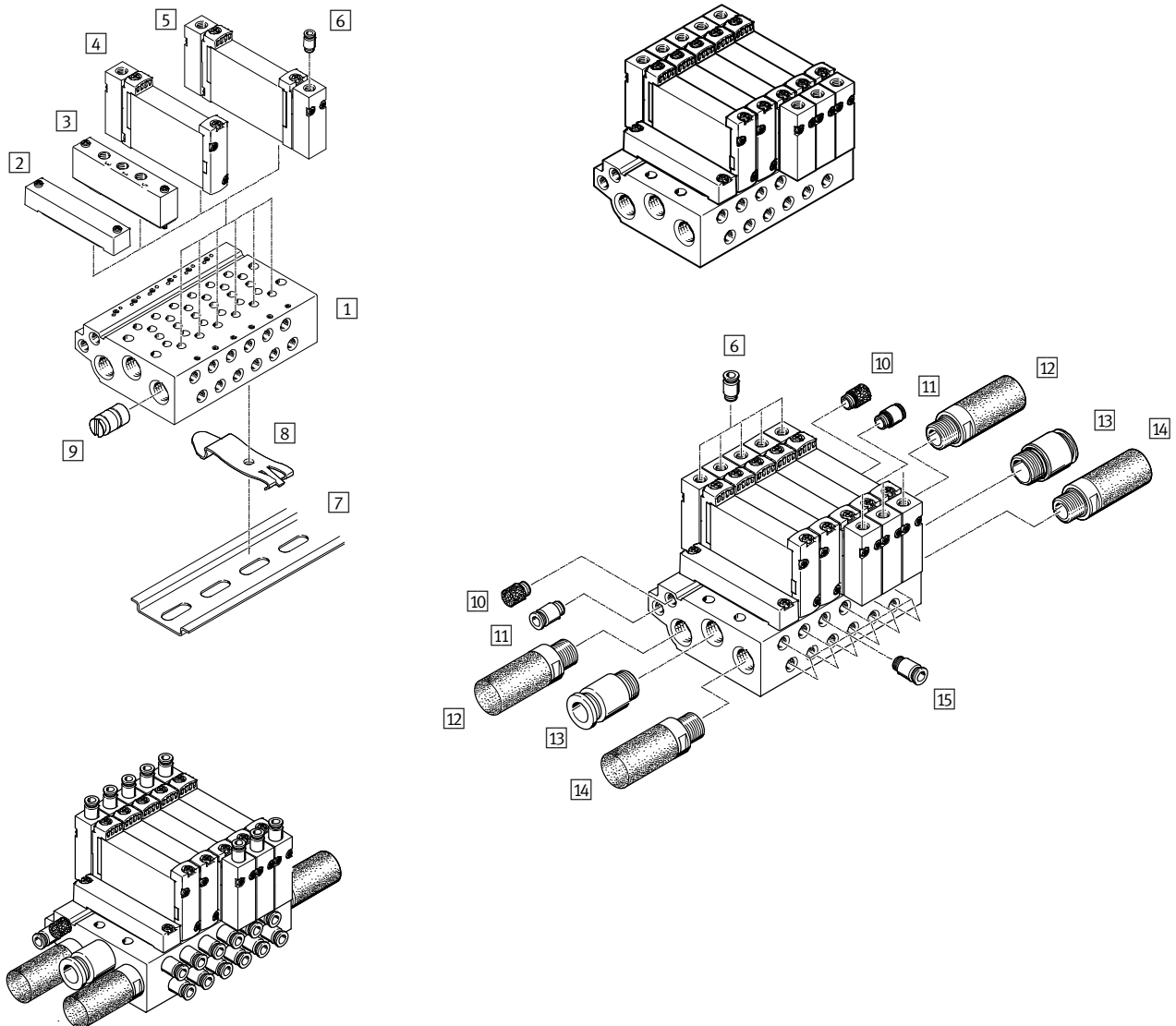


Manifold assembly and accessories				
	Type	Brief description	→ Page/Internet	
1	Manifold rail	VABM-L1-10S-G18	For 2 to 10, 12, 14 and 16 valve positions	26
2	Blanking plate	VABB-L1-10-S	For covering an unused valve position	27
3	Supply plate	VABF-L1-10-P3A4	For air supply port 1 and ports 3 and 5	27
4	Pneumatic valve	VUWG	Single pilot pneumatic valve	18
5	Pneumatic valve	VUWG	Double pilot pneumatic valve	18
6	Push-in fitting	QS	For adapter plate for port 12 or 14	62
7	H-rail	NRH-35-2000	For mounting the valve manifold	62
8	H-rail mounting	VAME-T-M4	2 pieces for fitting the valve manifold on an H-rail	62
9	Separator	VABD-8-B	For creating pressure zones	62
10	Silencer	U	For port 3	62
11	Push-in fitting	QS	For port 1	62
12	Silencer	U	For port 5	62
13	Push-in fitting	QS	For ports 2 and 4	62

Pneumatic valves VUWG

Sample system overview – VUWG-B10, sub-base valves

Manifold assembly



Manifold assembly and accessories				
	Type	Brief description	→ Page/Internet	
1	Manifold rail	VABM-L1-10W-G18	For 2 to 10, 12, 14 and 16 valve positions	51
2	Blanking plate	VABB-L1-10-W	For covering an unused valve position	51
3	Supply plate	VABF-L1-10-P3A4-M5	For air supply port 1 and ports 3 and 5	51
4	Pneumatic valve	VUWG	Single pilot pneumatic valve	47
5	Pneumatic valve	VUWG	Double pilot pneumatic valve	47
6	Push-in fitting	QS	For adapter plate for port 12 or 14	62
7	H-rail	NRH-35-2000	For mounting the valve manifold	62
8	H-rail mounting	VAME-T-M4	2 pieces for fitting the valve manifold on an H-rail	62
9	Separator	VABD-6-B	For creating pressure zones	51
10	Silencer	U	For port 84	62
11	Push-in fitting	QS	For port 14	62
12	Silencer	U	For port 5	62
13	Push-in fitting	QS	For port 1	62
14	Silencer	U	For port 3	62
15	Push-in fitting	QS	For ports 2 and 4	62

Pneumatic valves VUWG-L10A, in-line valves M3


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Technical data

Function

5/2-way, single pilot
5/2-way, double pilot
5/3C, 5/3U, 5/3E

-  - Width 10 mm

-  - Flow rate
80 ... 100 l/min



General technical data					
Valve function	M52-R	B52	M52-M	P53	
Normal position	-	-	-	C ¹⁾	U ²⁾ E ³⁾
Pneumatic spring reset method	Yes ⁴⁾	-	No	No	
Mechanical spring reset method	Yes ⁴⁾	-	Yes	Yes	
Vacuum operation at port 1	No	Yes	Yes	Yes	
Vacuum operation at port 3/5	Yes				
Design	Piston spool valve				
Sealing principle	Soft				
Actuation type	Pneumatic				
Type of control	Direct				
Pneumatic spring supply	External				
Exhaust function	With flow control				
Type of mounting	Optionally via through-holes ⁶⁾ or on manifold rail				
Mounting position	Any				
Standard nominal flow rate	[l/min]	100	80	90	
Switching time on/off	[ms]	5/11	5/16	7/19	
Changeover time	[ms]	-	-	9	
Width	[mm]	10			
Port	1, 2, 3, 4, 5 12, 14	M3 M5			
Product weight	[g]	37	40	34	40
Corrosion resistance class CRC ⁵⁾	2				

1) C = Normally closed

2) U = Normally open/mid-position pressurised

3) E = Normally exhausted

4) Combined reset method

5) 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.

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

Operating and environmental conditions					
Valve function	M52-R ³⁾	B52	M52-M ²⁾	P53	
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]				
Note on operating/pilot medium	Lubricated operation possible (required during subsequent operation)				
Operating pressure	[bar]	2.5 ... 10	-0.9 ... 10	-0.9 ... 8	-0.9 ... 10
Pilot pressure ¹⁾	[bar]	2.5 ... 10	1.5 ... 10	3 ... 10	
Ambient temperature	[°C]	-5 ... +60			
Temperature of medium	[°C]	-5 ... +50			

1) Note operating pressure/pilot pressure graph → page 4

2) Mechanical spring

3) Mixed, pneumatic/mechanical spring

Pneumatic valves VUWG-L10A, in-line valves M3

Technical data

Information on materials	
Housing	Anodised aluminium
Seals	HNBR, NBR
Note on materials	RoHS-compliant

Dimensions Download CAD data → www.festo.com

5/2-way and 5/3-way valve

VUWG-L10A-M52-...

1 Ports 1, 2, 3, 4, 5: M3 2 Port 14: M5 3 Port 12: M5 4 M2.5 mounting screw


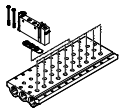
Type	B1	B2	D1 Ø	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
VUWG-L10A-...	10.3	3.6	3.2	32.5	9.1	59.9	50.7	34.9	18.5	20.7	7	9	7.9	7.3	12.4
VUWG-L10A-M52-...						49.9									

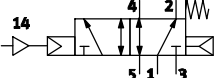
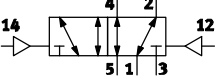
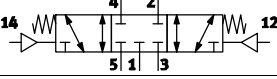
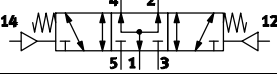
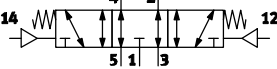
Ordering data

	Description	Part No.	Type
	In-line valve M3		
	5/2-way valve, monostable		
	External pneumatic spring supply, reset method: mechanical/pneumatic spring	573795	VUWG-L10A-M52-R-M3
	External pneumatic spring supply, reset method: mechanical spring	574250	VUWG-L10A-M52-M-M3
	5/2-way valve, bistable		
	-	573796	VUWG-L10A-B52-M3
	5/3-way valve		
	Mid-position closed, external pneumatic spring supply	573797	VUWG-L10A-P53C-M3
Mid-position exhausted, external pneumatic spring supply	573798	VUWG-L10A-P53E-M3	
Mid-position pressurised, external pneumatic spring supply	573799	VUWG-L10A-P53U-M3	

Pneumatic valves VUWG-L10A and VUWG-S10A, in-line valves M3

Order code

VUWG	-	10 A	-
Valve design			
In-line, individual valve	L		
			
In-line, manifold valve incl. seal and screws	S		
			
Width			
10 mm		10A	

Valve functions	
	M52
	B52
	P53C
	P53U
	P53E

- 1) If Q... is chosen for the pneumatic connection, this also applies to the exhaust ports 3 and 5
- 2) Flow rate applies to 5/2-way individual valve

Exhausting with VUWG-L	
QN	Via fitting ¹⁾
U	Silencer
-	M3
Pneumatic connection	
M3	Thread M3
Q3	Push-in connector 3 mm/M3
Q4	Push-in connector 4 mm/M3
T18	Push-in connector 1/8"
T532	Push-in connector 5/32"
Flow rate [l/min] ²⁾	
M3	100
Q3	80
Q4	100
T18	80
T532	100
Reset method	
M	Mechanical spring for M52
R	Pneu./mech. spring for M52
-	With B52 and P53

Pneumatic valves VUWG-S10A, in-line valves M3

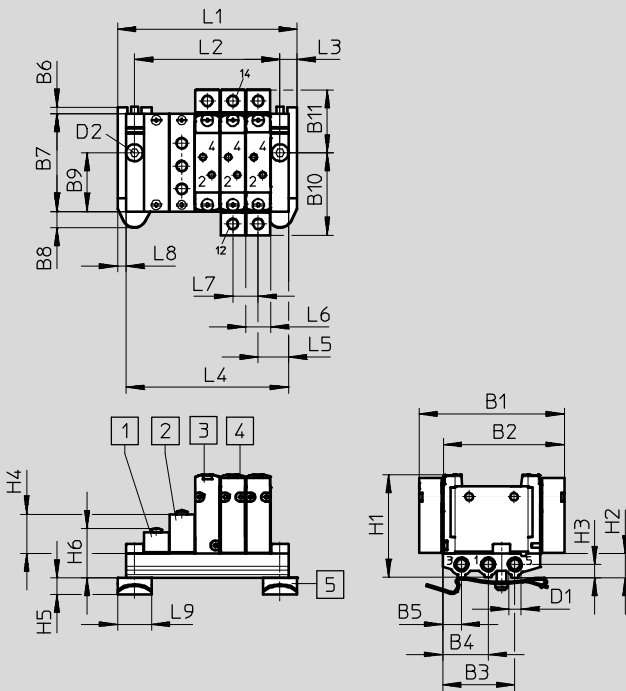
Manifold assembly

In-line valves for manifold assembly



Dimensions

Download CAD data → www.festo.com



- 1 Blanking plate VABB-L1-10A-S
- 2 Supply plate VABF-L1-10A-P3A4-M5
- 3 Single pilot pneumatic valve
- 4 Double pilot pneumatic valve
- 5 H-rail mounting (two M4x15 screws to DIN 912 are required for mounting)

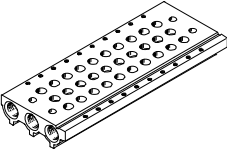
Type	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	D1
VABM-L1-10AS-M5	59.9	49.9	29.7	18.7	7.7	2.95	40.3	6.75	24.2	34	25.9	M5

Type	D2	H1	H2	H3	H4	H5	H6	L3	L5	L6	L7	L8	L9
VABM-L1-10AS-M5	∅ 4.5	42.5	10	5.5	16.2	6.8	20.3	7	12.5	103	10.5	3.5	14

Valve positions	2	3	4	5	6	7	8	9	10	12	14	16
L1 [mm]	42.5	53	63.5	74	84.5	95	105.5	116	126.5	147.5	168.5	189.5
L2 [mm]	28.5	39	49.5	60	70.5	81	91.5	102	112.5	133.5	154.5	175.5
L4 [mm]	35.5	46	56.5	67	77.5	88	98.5	109	119.5	140.5	161.5	182.5

Pneumatic valves VUWG-S10A, in-line valves M3

Ordering data

Technical data – Manifold rails							
	Port	CRC	Material ²⁾	Operating pressure [bar]	Max. tightening torque for assembly [Nm]		
	1, 3, 5				Valve	H-rail	Wall
	M5	2 ¹⁾	Wrought aluminium alloy	-0.9 ... 10	0.45	1.5	3

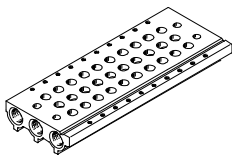


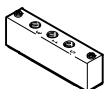

- 1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.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

Order code – Manifold rails

VABM	-	L1	-	10A	S	-	M5	-	
Manifold assembly parts									Number of valve positions
Manifold rail		VABM							2 to 10, 12, 14 and 16
Valve series									Ports 1, 3, 5
VUWG		L1					M5	M5	
Valve width									
10 mm				10A					
Manifold rail with ports 1, 3, 5									
For M3 in-line valves					S				

Pneumatic valves VUWG-S10A, in-line valves M3

Ordering data

Ordering data – Accessories				
	Description		Part No.	Type
Manifold rail for in-line valves (manifold assembly)				
	For valve size M3	2 valve positions	566522	VABM-L1-10AS-M5-2
		3 valve positions	566523	VABM-L1-10AS-M5-3
		4 valve positions	566524	VABM-L1-10AS-M5-4
		5 valve positions	566525	VABM-L1-10AS-M5-5
		6 valve positions	566526	VABM-L1-10AS-M5-6
		7 valve positions	566527	VABM-L1-10AS-M5-7
		8 valve positions	566528	VABM-L1-10AS-M5-8
		9 valve positions	566529	VABM-L1-10AS-M5-9
		10 valve positions	566530	VABM-L1-10AS-M5-10
		12 valve positions	566531	VABM-L1-10AS-M5-12
	14 valve positions	566532	VABM-L1-10AS-M5-14	
	16 valve positions	566533	VABM-L1-10AS-M5-16	
Blanking plate Technical data → Internet: vabb				
	For manifold rail for M3 in-line valves	Incl. screws and seal	569986	VABB-L1-10A
Separator Technical data → Internet: vabd				
	For manifold rail for M3 in-line valves	Separator for pressure zones	570872	VABD-4.2-B
Supply plate Technical data → Internet: vabf				
	For manifold rail for M3 in-line valves	Incl. screws and seal	569990	VABF-L1-10A-P3A4-M5
Seals for in-line valves Technical data → Internet: vabd				
	M3	Delivery unit: 10 sets (each with 2 screws and 1 seal)	566670	VABD-L1-10AX-S-M3

Pneumatic valves VUWG-L10 and VUWG-S10, in-line valves M5

Technical data

Function

2x3/2C, 2x3/2U, 2x3/2H

5/2-way, single pilot

5/2-way, double pilot

5/3C, 5/3U, 5/3E

- - Width 10 mm

- - Flow rate
125 ... 220 l/min



General technical data											
Valve function	T32-A			T32-M			M52-R	B52	M52-M	P53	
Normal position	C ¹⁾	U ²⁾	H ⁴⁾	C ¹⁾	U ²⁾	H ⁴⁾	-	-	-	C ¹⁾ U ²⁾ E ³⁾	
Pneumatic spring reset method	Yes			No			Yes ⁵⁾	-	No	No	
Mechanical spring reset method	No			Yes			Yes ⁵⁾	-	Yes	Yes	
Vacuum operation at port 1	No			Yes			No	Yes			
Vacuum operation at port 3/5	Yes										
Design	Piston spool valve										
Sealing principle	Soft										
Actuation type	Pneumatic										
Type of control	Direct										
Pneumatic spring supply	External										
Exhaust function	With flow control										
Type of mounting	Optionally via through-holes ⁷⁾ or on manifold rail										
Mounting position	Any										
Standard nominal flow rate	[l/min]	150	135	125	220		190	210			
Switching time on/off	[ms]	4/9	6/7		6/12	-	7/16	8/25			
Changeover time	[ms]	-						5	-	11	
Width	[mm]	10									
Port	1, 2, 3, 4, 5	M5									
	12, 14	M5									
Product weight	[g]	48	51		45	48	41	48			
Corrosion resistance class CRC ⁶⁾		2									

1) C = Normally closed

2) U = Normally open/mid-position pressurised

3) E = Normally exhausted

4) H = 2x 3/2-way valve in one housing with 1x normally closed and 1x normally open

5) Combined reset method

6) 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.

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

Pneumatic valves VUWG-L10 and VUWG-S10, in-line valves M5

Technical data

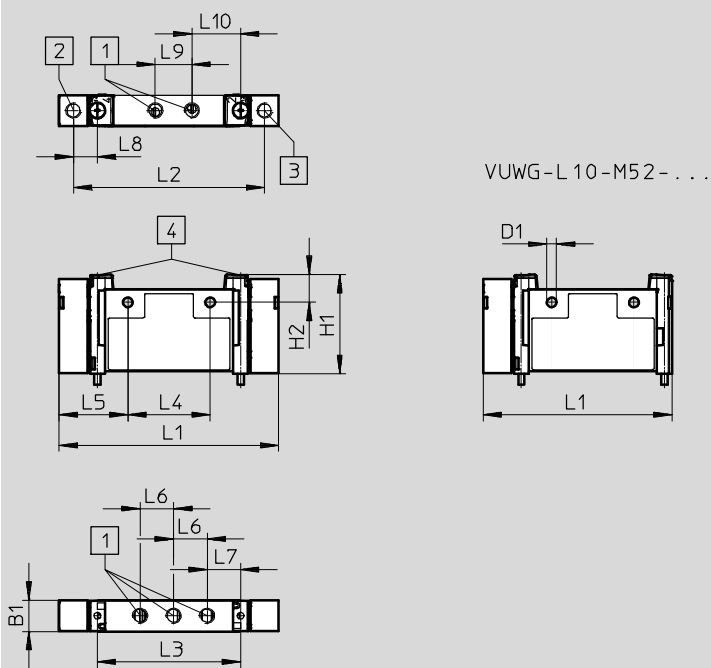
Operating and environmental conditions						
Valve function		T32-A ²⁾	T32-M ³⁾	M52-R ⁴⁾	B52	M52-M ³⁾ P53
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Note on operating/pilot medium	Lubricated operation possible (required during subsequent operation)					
Operating pressure	[bar]	1.5 ... 10	-0.9 ... 10	2.5 ... 10	-0.9 ... 10	-0.9 ... 10
Pilot pressure ¹⁾	[bar]	1.5 ... 10	3 ... 10	2.5 ... 10	1.5 ... 10	3 ... 10
Ambient temperature	[°C]	-5 ... +60				
Temperature of medium	[°C]	-5 ... +50				

- 1) Note operating pressure/pilot pressure graph → page 4
- 2) Pneumatic spring
- 3) Mechanical spring
- 4) Mixed, pneumatic/mechanical spring

Information on materials	
Housing	Wrought aluminium alloy
Seals	HNBR, NBR
Note on materials	RoHS-compliant

Dimensions Download CAD data → www.festo.com

2x3/2-way, 5/2-way and 5/3-way valve

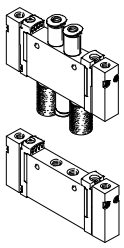


- 1) Ports 1, 2, 3, 4, 5: M5
- 2) Port 14: M5
- 4) M2.5 mounting screw
- 3) Port 12: M5

Type	B1	D1 Ø	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
VUWG-L10-...	10.2	3.2	32.5	9.1	72	62.8	47	27	22.5	11	11	7.9	12	16
VUWG-L10-M52-...					62									

Pneumatic valves VUWG-L10 and VUWG-S10, in-line valves M5

Technical data

Ordering data				
	Description	Part No.	Type	
In-line valve M5				
	2x3/2-way valve			
	Normally closed, external pneumatic spring supply, reset method: pneumatic spring	573805	VUWG-L10-T32C-A-M5	
	Normally open, external pneumatic spring supply, reset method: pneumatic spring	573806	VUWG-L10-T32U-A-M5	
	1x normally open, 1x normally closed, external pneumatic spring supply, reset method: pneumatic spring	573807	VUWG-L10-T32H-A-M5	
	Normally closed, external pneumatic spring supply, reset method: mechanical spring	574251	VUWG-L10-T32C-M-M5	
	Normally open, external pneumatic spring supply, reset method: mechanical spring	574252	VUWG-L10-T32U-M-M5	
	1x normally open, 1x normally closed, external pneumatic spring supply, reset method: mechanical spring	574253	VUWG-L10-T32H-M-M5	
	5/2-way valve, monostable			
	External pneumatic spring supply, reset method: pneumatic/mechanical spring	573808	VUWG-L10-M52-R-M5	
	External pneumatic spring supply, reset method: mechanical spring	574254	VUWG-L10-M52-M-M5	
	5/2-way valve, bistable			
	–	573809	VUWG-L10-B52-M5	
	5/3-way valve			
	Mid-position closed, external pneumatic spring supply	573810	VUWG-L10-P53C-M5	
Mid-position exhausted, external pneumatic spring supply	573811	VUWG-L10-P53E-M5		
Mid-position pressurised, external pneumatic spring supply	573812	VUWG-L10-P53U-M5		

Pneumatic valves VUWG-L10 and VUWG-S10, in-line valves M7

Technical data

Function


2x3/2C, 2x3/2U, 2x3/2H

5/2-way, single pilot

5/2-way, double pilot

5/3C, 5/3U, 5/3E

-  - Width 10 mm

-  - Flow rate
140 ... 380 l/min



General technical data														
Valve function	T32-A			T32-M			M52-R	B52	M52-M	P53				
Normal position	C ¹⁾	U ²⁾	H ⁴⁾	C ¹⁾	U ²⁾	H ⁴⁾	-	-	-	C ¹⁾	U ²⁾	E ³⁾		
Pneumatic spring reset method	Yes			No			Yes ⁵⁾	-	No	No				
Mechanical spring reset method	No			Yes			Yes ⁵⁾	-	Yes	Yes				
Vacuum operation at port 1	No			Yes			No	Yes						
Vacuum operation at port 3/5	Yes													
Design	Piston spool valve													
Sealing principle	Soft													
Actuation type	Pneumatic													
Type of control	Direct													
Pneumatic spring supply	External													
Exhaust function	With flow control													
Type of mounting	Optionally via through-holes ⁷⁾ or on manifold rail													
Mounting position	Any													
Standard nominal flow rate	[l/min]	190		150	140		380		320					
Switching time on/off	[ms]	4/9		6/7		6/12		-	7/16		8/25			
Changeover time	[ms]	-										5	-	11
Width	[mm]	10												
Port	1, 2, 3, 4, 5	M7												
	12, 14	M5												
Product weight	[g]	48		51		45		48	41		48			
Corrosion resistance class CRC ⁶⁾	2													

1) C = Normally closed

2) U=Normally open/mid-position pressurised

3) E = Normally exhausted

4) H=2x 3/2-way valve in one housing with 1x normally closed and 1x normally open

5) Combined reset method

6) 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.

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

Pneumatic valves VUWG-L10 and VUWG-S10, in-line valves M7

Technical data

Operating and environmental conditions							
Valve function		T32-A ²⁾	T32-M ³⁾	M52-R ⁴⁾	B52	M52-M ³⁾	P53
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]						
Note on operating/pilot medium	Lubricated operation possible (required during subsequent operation)						
Operating pressure	[bar]	1.5 ... 10	-0.9 ... 10	2.5 ... 10	-0.9 ... 10	-0.9 ... 8	-0.9 ... 10
Pilot pressure ¹⁾	[bar]	1.5 ... 10	3 ... 10	2.5 ... 10	1.5 ... 10	3 ... 10	
Ambient temperature	[°C]	-5 ... +60					
Temperature of medium	[°C]	-5 ... +50					

- 1) Note operating pressure/pilot pressure graph → page 4
- 2) Pneumatic spring
- 3) Mechanical spring
- 4) Mixed, pneumatic/mechanical spring

Information on materials	
Housing	Wrought aluminium alloy
Seals	HNBR, NBR
Note on materials	RoHS-compliant

Dimensions Download CAD data → www.festo.com

2x3/2-way, 5/2-way and 5/3-way valve

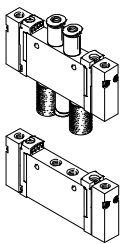
VUWG-L 10-M52- . . .

1 Ports 1, 2, 3, 4, 5: M7
 2 Port 14: M5
 4 M2.5 mounting screw
3 Port 12: M5

Type	B1	D1 Ø	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
VUWG-L10-...	10.2	3.2	32.5	9.1	72	62.8	47	27	22.5	11	11	7.9	12	16
VUWG-L10-M52-...					62									


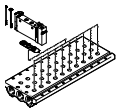
Pneumatic valves VUWG-L10 and VUWG-S10, in-line valves M7

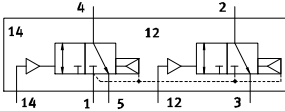
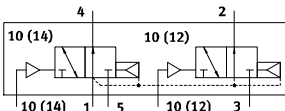
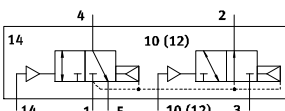
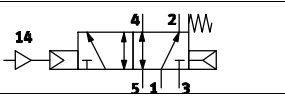
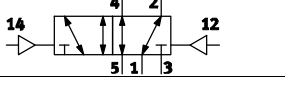
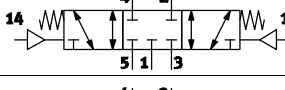
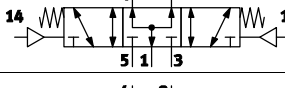
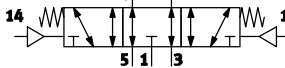
Technical data

Ordering data				
	Description	Part No.	Type	
In-line valve M7				
	2x3/2-way valve			
	Normally closed, external pneumatic spring supply, reset method: pneumatic spring	573821	VUWG-L10-T32C-A-M7	
	Normally open, external pneumatic spring supply, reset method: pneumatic spring	573822	VUWG-L10-T32U-A-M7	
	1x normally open, 1x normally closed, external pneumatic spring supply, reset method: pneumatic spring	573823	VUWG-L10-T32H-A-M7	
	Normally closed, external pneumatic spring supply, reset method: mechanical spring	574255	VUWG-L10-T32C-M-M7	
	Normally open, external pneumatic spring supply, reset method: mechanical spring	574256	VUWG-L10-T32U-M-M7	
	1x normally open, 1x normally closed, external pneumatic spring supply, reset method: mechanical spring	574257	VUWG-L10-T32H-M-M7	
	5/2-way valve, monostable			
	External pneumatic spring supply, reset method: pneumatic/mechanical spring	573824	VUWG-L10-M52-R-M7	
	External pneumatic spring supply, reset method: mechanical spring	574258	VUWG-L10-M52-M-M7	
	5/2-way valve, bistable			
	–	573825	VUWG-L10-B52-M7	
	5/3-way valve			
	Mid-position closed, external pneumatic spring supply	573826	VUWG-L10-P53C-M7	
	Mid-position exhausted, external pneumatic spring supply	573827	VUWG-L10-P53E-M7	
Mid-position pressurised, external pneumatic spring supply	573828	VUWG-L10-P53U-M7		

Pneumatic valves VUWG-L10 and VUWG-S10, in-line valves M5/M7

Order code

VUWG	-	10	-	-
Valve design				
In-line, individual valve		L		
				
In-line valve, manifold valve incl. seal and screws		S		
				
Width				
10 mm		10		

Valve functions	
	T32C
	T32U
	T32H
	M52
	B52
	P53C
	P53U
	P53E

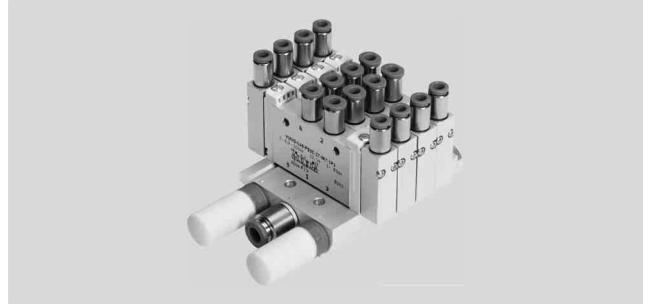
- 1) If Q... is chosen for the pneumatic connection, this also applies to the exhaust ports 3 and 5
- 2) Flow rate applies to 5/2-way individual valve

Exhausting with VUWG-L		
QN	QS if QS ¹⁾	
U	Silencer	
-	M5 and M7	
Pneumatic connection		Flow rate [l/min] ²⁾
M5	Thread M5	220
Q3	Push-in connector 3 mm/M5	100
Q4	Push-in connector 4 mm/M5	200
Q6	Push-in connector 6 mm/M5	220
T14	Push-in connector 1/4"	220
T18	Push-in connector 1/8"	100
T316	Push-in connector 3/16"	200
T532	Push-in connector 5/32"	200
M7	Thread M7	380
Q4H	Push-in connector 4 mm/M7	220
Q6H	Push-in connector 6 mm/M7	330
T14H	Push-in connector 1/4", M7	330
T316H	Push-in connector 3/16", M7	200
Reset method		
A	Pneumatic spring for T32 and M52	
M	Mechanical spring for T32 and M52	
R	Pneu./mech. spring for M52	
-	With B52 and P53	

Pneumatic valves VUWG-S10, in-line valves M5/M7

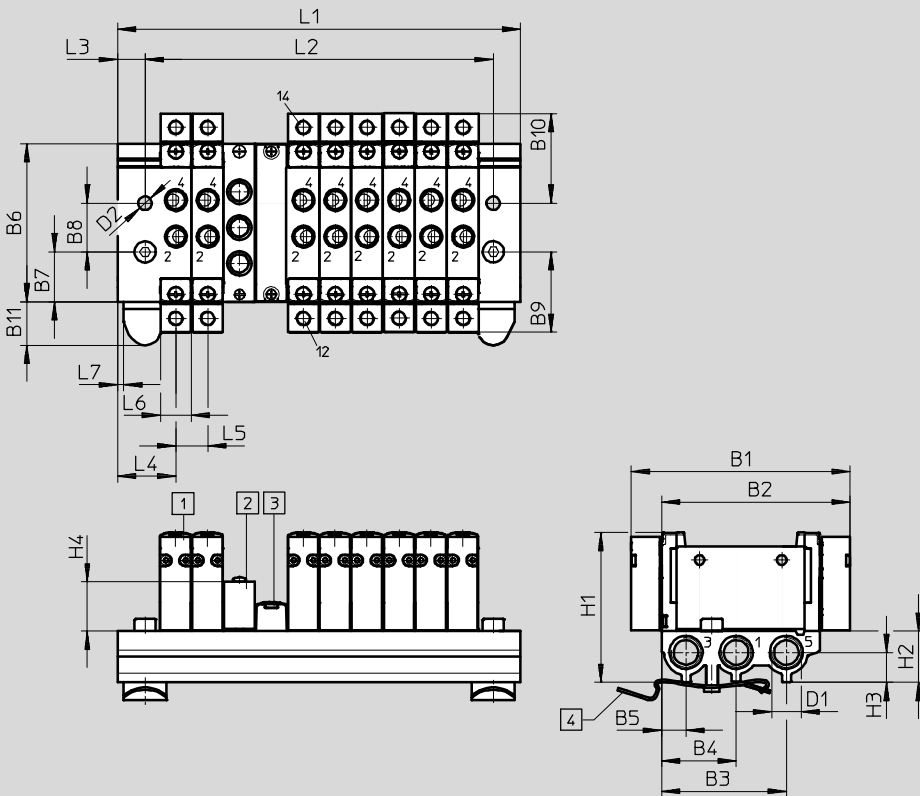
Manifold assembly

In-line valves for manifold assembly



Dimensions

Download CAD data → www.festo.com



- 1 Pneumatic valve
- 2 Supply plate M5 or M7 for 1, 3, 5
- 3 Blanking plate VABB-L1-10-S
- 4 H-rail mounting (two M4x20 screws to DIN 912 are required)

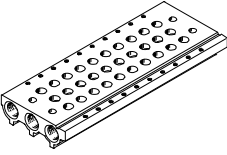
Type	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
VABM-L1-10S-G18	72	62	41	24.5	8	52	16.5	16	26.5	29.5	14.45

Type	D1	D2	H1	H2	H3	H4	H4	L3	L4	L5	L6	L7
VABM-L1-10S-G18	G $\frac{1}{8}$	4.5	49.3	16.8	7	16.2	16.2	9	19	10.5	10.3	2

Valve positions	2	3	4	5	6	7	8	9	10	12	14	16	22
L1 [mm]	48.5	59	69.5	80	90.5	101	111.5	122	132.5	153.5	174.5	195.5	258.5
L2 [mm]	30.5	41	51.5	62	72.5	83	93.5	104	114.5	135.5	156.5	177.5	240.5

Pneumatic valves VUWG-S10, in-line valves M5/M7

Ordering data

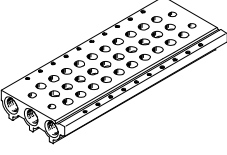
Technical data – Manifold rails							
	Port	CRC	Material ²⁾	Operating pressure [bar]	Max. tightening torque for assembly [Nm]		
	1, 3, 5				Valve	H-rail	Wall
	G1/8	2 ¹⁾	Wrought aluminium alloy	-0.9 ... 10	0.45	1.5	3

- 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.
- 2) Note on materials: RoHS-compliant.

Order code – Manifold rails



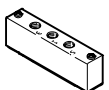

VABM	-	L1	-	10	S	-	G18	-	
Manifold assembly parts									Number of valve positions
Manifold rail		VABM							2 to 10, 12, 14 and 16
Valve series									Ports 1, 3, 5
VUWG		L1					G18	G1/8	
Valve width									
10 mm				10					
Manifold rail with ports 1, 3, 5									
For M5 and M7 in-line valves					S				

Ordering data – Manifold rail

	Description	Part No.	Type	
	For valve size M5/M7			
		2 valve positions	566558	VABM-L1-10S-G18-2
		3 valve positions	566559	VABM-L1-10S-G18-3
		4 valve positions	566560	VABM-L1-10S-G18-4
		5 valve positions	566561	VABM-L1-10S-G18-5
		6 valve positions	566562	VABM-L1-10S-G18-6
		7 valve positions	566563	VABM-L1-10S-G18-7
		8 valve positions	566564	VABM-L1-10S-G18-8
		9 valve positions	566565	VABM-L1-10S-G18-9
		10 valve positions	566566	VABM-L1-10S-G18-10
		12 valve positions	566567	VABM-L1-10S-G18-12
	14 valve positions	566568	VABM-L1-10S-G18-14	
	16 valve positions	566569	VABM-L1-10S-G18-16	

Pneumatic valves VUWG-S10, in-line valves M5/M7

Ordering data

Ordering data – Accessories			
	Description	Part No.	Type
Blanking plate Technical data → Internet: vabb			
	For manifold rail for M5/M7 in-line valves	Incl. screws and seal	566462 VABB-L1-10-S
Separator Technical data → Internet: vabd			
	For manifold rail for M5/M7 in-line valves	Separator for pressure zones	569995 VABD-8-B
Supply plate Technical data → Internet: vabf			
	For manifold rail for M5 in-line valves	Incl. screws and seal	569991 VABF-L1-10-P3A4-M5
	For manifold rail for M7 in-line valves		569992 VABF-L1-10-P3A4-M7
Seals for in-line valves Technical data → Internet: vabd			
	M5	Delivery unit: 10 sets (each with 2 screws and 1 seal)	566672 VABD-L1-10X-S-M5
	M7		566673 VABD-L1-10X-S-M7

Pneumatic valves VUWG-L14 and VUWG-S14, in-line valves G $\frac{1}{8}$

Technical data

Function


2x3/2C, 2x3/2U, 2x3/2H

5/2-way, single pilot

5/2-way, double pilot

5/3C, 5/3U, 5/3E

-  - Width 14 mm

-  - Flow rate
500 ... 780 l/min



General technical data														
Valve function	T32-A			T32-M			M52-A	B52	M52-M	P53				
Normal position	C ¹⁾	U ²⁾	H ⁴⁾	C ¹⁾	U ²⁾	H ⁴⁾	-	-	-	C ¹⁾	U ²⁾ E ³⁾			
Pneumatic spring reset method	Yes			No			Yes	-	No	No				
Mechanical spring reset method	No			Yes			No	-	Yes	Yes				
Vacuum operation at port 1	No			Yes			No	Yes						
Vacuum operation at port 3/5	Yes													
Design	Piston spool valve													
Sealing principle	Soft													
Actuation type	Pneumatic													
Type of control	Direct													
Pneumatic spring supply	External													
Exhaust function	With flow control													
Type of mounting	Optionally via through-holes ⁶⁾ or on manifold rail													
Mounting position	Any													
Standard nominal flow rate	[l/min]		650	600	650	550	500	780		650	600			
Switching time on/off	[ms]		6/19			9/13		12/22	-	12/32	8/30			
Changeover time	[ms]		-									6	-	16
Width	[mm]		14											
Port	1, 2, 3, 4, 5		G $\frac{1}{8}$											
	12, 14		M5											
Product weight	[g]		81			77		75	81	67	81			
Corrosion resistance class CRC ⁵⁾	2													

1) C = Normally closed

2) U = Normally open/mid-position pressurised

3) E = Normally exhausted

4) H = 2x3/2-way valve in one housing with 1x normally closed and 1x normally open

5) 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.

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

Pneumatic valves VUWG-L14 and VUWG-S14, in-line valves G¹/₈

Technical data

Operating and environmental conditions						
Valve function		T32-A ²⁾	T32-M ³⁾	M52-A ²⁾	B52	M52-M ³⁾ P53
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Note on operating/pilot medium	Lubricated operation possible (required during subsequent operation)					
Operating pressure	[bar]	1.5 ... 10	-0.9 ... 10	2.5 ... 10	-0.9 ... 10	-0.9 ... 8
Pilot pressure ¹⁾	[bar]	1.5 ... 10	3 ... 10	2.5 ... 10	1.5 ... 10	3 ... 10
Ambient temperature	[°C]	-5 ... +60				
Temperature of medium	[°C]	-5 ... +50				

- 1) Note operating pressure/pilot pressure graph → page 4
- 2) Pneumatic spring
- 3) Mechanical spring

Information on materials	
Housing	Wrought aluminium alloy
Seals	HNBR, NBR
Note on materials	RoHS-compliant

Dimensions Download CAD data → www.festo.com

2x3/2-way, 5/2-way and 5/3-way valve

VUWG-L14-M52-...

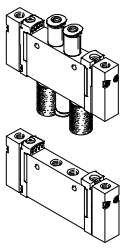
1 Ports 1, 2, 3, 4, 5: G¹/₈
 2 Port 14: M5
 4 M2.5 mounting screw
3 Port 12: M5

Type	B1	D1 Ø	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
VUWG-L14-...	14.4	3.2	34.8	10.8	92.6	83.4	66.5	37	28.8	14.9	18.35	8.45	18	24.25
VUWG-L14-M52-...					82.25									

Pneumatic valves VUWG-L14 and VUWG-S14, in-line valves G¹/₈


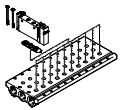
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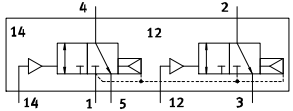
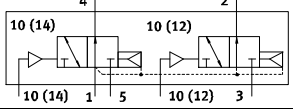
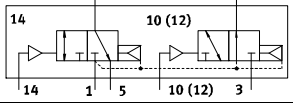
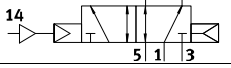
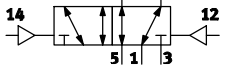
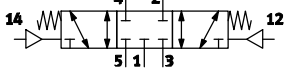
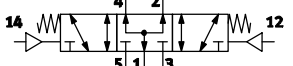
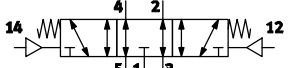
Technical data

Ordering data				
	Description	Part No.	Type	
In-line valve G ¹ / ₈				
	2x3/2-way valve			
	Normally closed, external pneumatic spring supply, reset method: pneumatic spring	573829	VUWG-L14-T32C-A-G18	
	Normally open, external pneumatic spring supply, reset method: pneumatic spring	573830	VUWG-L14-T32U-A-G18	
	1x normally open, 1x normally closed, external pneumatic spring supply, reset method: pneumatic spring	573831	VUWG-L14-T32H-A-G18	
	Normally closed, external pneumatic spring supply, reset method: mechanical spring	574259	VUWG-L14-T32C-M-G18	
	Normally open, external pneumatic spring supply, reset method: mechanical spring	574260	VUWG-L14-T32U-M-G18	
	1x normally open, 1x normally closed, external pneumatic spring supply, reset method: mechanical spring	574261	VUWG-L14-T32H-M-G18	
	5/2-way valve, monostable			
	External pneumatic spring supply, reset method: pneumatic/mechanical spring	573832	VUWG-L14-M52-A-G18	
	External pneumatic spring supply, reset method: mechanical spring	574262	VUWG-L14-M52-M-G18	
	5/2-way valve, bistable			
	–	573833	VUWG-L14-B52-G18	
	5/3-way valve			
	Mid-position closed, external pneumatic spring supply	573834	VUWG-L14-P53C-G18	
	Mid-position exhausted, external pneumatic spring supply	573835	VUWG-L14-P53E-G18	
Mid-position pressurised, external pneumatic spring supply	573836	VUWG-L14-P53U-G18		

Pneumatic valves VUWG-L14 and VUWG-S14, in-line valves G¹/₈

Order code

VUWG	-	14	-
Valve design			
In-line, individual valve		L	
			
In-line valve, manifold valve incl. seal and screws		S	
			
Width			
14 mm		14	

Valve functions	
	T32C
	T32U
	T32H
	M52
	B52
	P53C
	P53U
	P53E

- 1) If Q... is chosen for the pneumatic connection, this also applies to the exhaust ports 3 and 5
- 2) Flow rate applies to 5/2-way individual valve

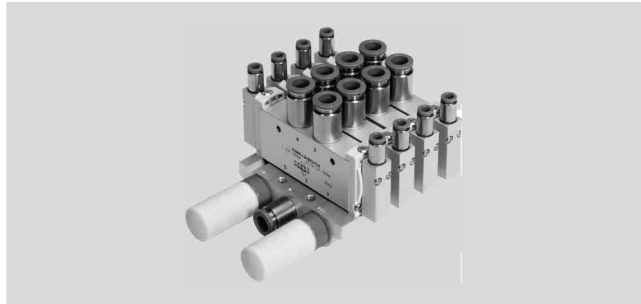
Exhausting with VUWG-L	
QN	QS if QS ¹⁾
U	Silencer
-	G ¹ / ₈
Pneumatic connection	
G18	Thread G ¹ / ₈
Q4	Push-in connector 4 mm/G ¹ / ₈
Q6	Push-in connector 6 mm/G ¹ / ₈
Q8	Push-in connector 8 mm/G ¹ / ₈
T14	Push-in connector 1/4"
T516	Push-in connector 5/16"
Flow rate [l/min] ²⁾	
G18	780
Q4	200
Q6	400
Q8	700
T14	400
T516	700
Reset method	
A	Pneumatic spring for T32 and M52
M	Mechanical spring for T32 and M52
-	With B52 and P53

Pneumatic valves VUWG-S14, in-line valves G1/8



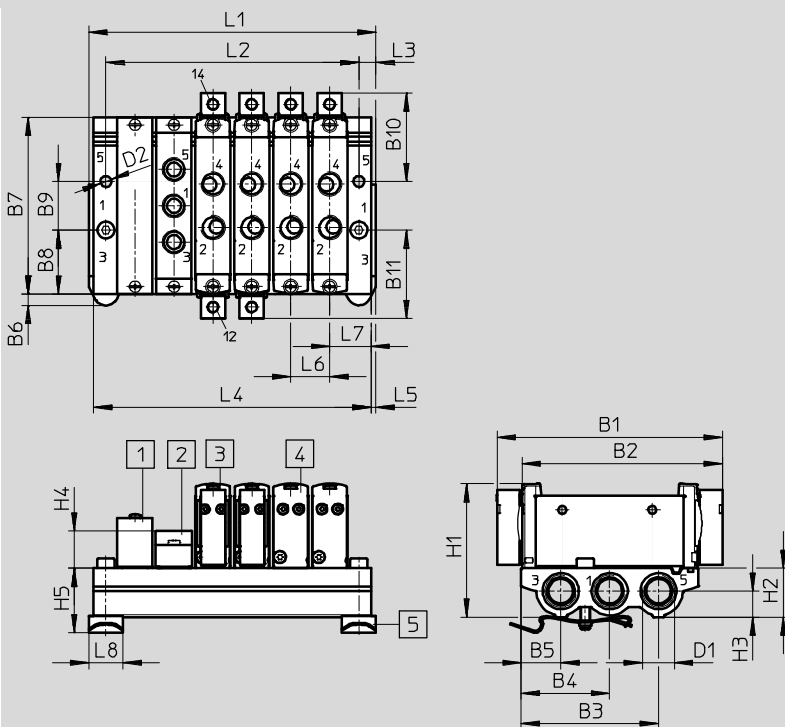
Manifold assembly

In-line valves for manifold assembly



Dimensions

Download CAD data → www.festo.com



- 1 Blanking plate VABB-L1-14
- 2 Supply plate VABF-L1-14-P3A4-G18
- 3 Double pilot pneumatic valve
- 4 Single pilot pneumatic valve
- 5 H-rail mounting (two M4x25 screws to DIN 912 are required for mounting)

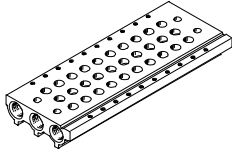
Type	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	D1
VABM-L1-14S-G14	92.6	82.3	56.6	36.5	16.4	4.5	72.9	26.45	20	36.3	36.3	G3/4

Type	D2	H1	H2	H3	H4	H5	L3	L5	L6	L7
VABM-L1-14S-G14	Ø 4.5	54.8	20	10.6	15.4	26.4	7	2	16	17

Valve positions	2	3	4	5	6	7	8	9	10	12	14	16
L1 [mm]	54	70	86	98	118	134	150	166	182	214	246	278
L2 [mm]	40	56	72	88	104	120	136	152	168	200	232	264
L4 [mm]	50	66	82	98	114	130	146	162	178	210	242	274

Pneumatic valves VUWG-S14, in-line valves G1/8

Ordering data

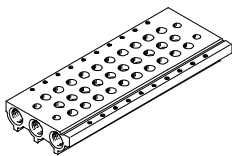
Technical data – Manifold rails							
	Port	CRC	Material ²⁾	Operating pressure [bar]	Max. tightening torque for assembly [Nm]		
	1, 3, 5				Valve	H-rail	Wall
	G1/4	2 ¹⁾	Wrought aluminium alloy	-0.9 ... 10	0.65	1.5	3

- 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.
- 2) Note on materials: RoHS-compliant.

Order code – Manifold rails



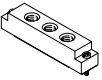

VABM	-	L1	-	14	S	-	G14	-	
Manifold assembly parts									Number of valve positions
Manifold rail		VABM							2 to 10, 12, 14 and 16
Valve series									Ports 1, 3, 5
VUWG		L1					G14	G1/4	
Valve width									
14 mm				14					
Manifold rail with ports 1, 3, 5									
For G1/8 in-line valves					S				

Ordering data – Manifold rail

	Description	Part No.	Type
	Manifold rail for in-line valves (manifold assembly)		
	For valve size G1/8		
	2 valve positions	566618	VABM-L1-14S-G14-2
	3 valve positions	566619	VABM-L1-14S-G14-3
	4 valve positions	566620	VABM-L1-14S-G14-4
	5 valve positions	566621	VABM-L1-14S-G14-5
	6 valve positions	566622	VABM-L1-14S-G14-6
	7 valve positions	566623	VABM-L1-14S-G14-7
	8 valve positions	566624	VABM-L1-14S-G14-8
	9 valve positions	566625	VABM-L1-14S-G14-9
	10 valve positions	566626	VABM-L1-14S-G14-10
12 valve positions	566627	VABM-L1-14S-G14-12	
14 valve positions	566628	VABM-L1-14S-G14-14	
16 valve positions	566629	VABM-L1-14S-G14-16	

Pneumatic valves VUWG-S14, in-line valves G1/8

Ordering data

Ordering data – Accessories			
	Description	Part No.	Type
Blanking plate Technical data → Internet: vabb			
	For manifold rail for G1/8 in-line valves	Incl. screws and seal	569989 VABB-L1-14
Separator Technical data → Internet: vabd			
	For manifold rail for G1/8 in-line valves	Separator for pressure zones	569996 VABD-10-B
Supply plate Technical data → Internet: vabf			
	For manifold rail for G1/8 in-line valves	Incl. screws and seal	569993 VABF-L1-14-P3A4-G18
Seals for in-line valves Technical data → Internet: vabd			
	G1/8	Delivery unit: 10 sets (each with 2 screws and 1 seal)	566675 VABD-L1-14X-S-G18

Pneumatic valves VUWG-L18 and VUWG-S18, in-line valves G¹/₄

Technical data

Function


2x3/2C, 2x3/2U, 2x3/2H

5/2-way, single pilot

5/2-way, double pilot

5/3C, 5/3U, 5/3E

 Width 18 mm

 Flow rate
1,000 ... 1,380 l/min



General technical data														
Valve function	T32-A			T32-M			M52-R	B52	M52-M	P53				
Normal position	C ¹⁾	U ²⁾	H ⁴⁾	C ¹⁾	U ²⁾	H ⁴⁾	–	–	–	C ¹⁾	U ²⁾	E ³⁾		
Pneumatic spring reset method	Yes			No			Yes ⁵⁾	–	No	No				
Mechanical spring reset method	No			Yes			Yes ⁵⁾	–	Yes	Yes				
Vacuum operation at port 1	No			Yes			No	Yes						
Vacuum operation at port 3/5	Yes													
Design	Piston spool valve													
Sealing principle	Soft													
Actuation type	Pneumatic													
Type of control	Direct													
Pneumatic spring supply	External													
Exhaust function	With flow control													
Type of mounting	Optionally via through-holes ⁷⁾ or on manifold rail													
Mounting position	Any													
Standard nominal flow rate	[l/min]	1,000						1,300	1,380	1,300	1,200			
Switching time on/off	[ms]	12/36			17/25			16/40	–	12/59	17/69			
Changeover time	[ms]	–										12	–	34
Width	[mm]	18												
Port	1, 2, 3, 4, 5	G ¹ / ₄												
	12, 14	M5												
Product weight	[g]	160						152	160	152				
Corrosion resistance class CRC ⁶⁾	2													

1) C = Normally closed

2) U = Normally open/mid-position pressurised

3) E = Normally exhausted

4) H = 2x 3/2-way valve in one housing with 1x normally closed and 1x normally open

5) Combined reset method

6) 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.

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

Pneumatic valves VUWG-L18 and VUWG-S18, in-line valves G¹/₄

Technical data

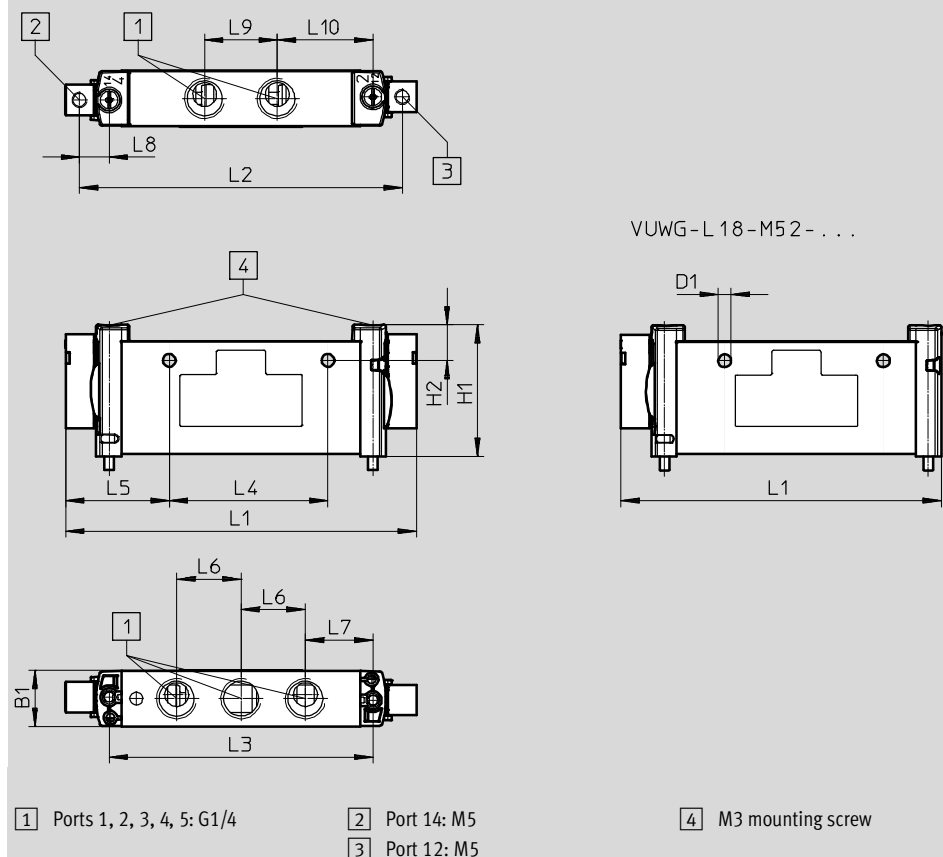
Operating and environmental conditions						
Valve function		T32-A ²⁾	T32-M ³⁾	M52-R ⁴⁾	B52	M52-M ³⁾ P53
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Note on operating/pilot medium	Lubricated operation possible (required during subsequent operation)					
Operating pressure	[bar]	1.5 ... 10	-0.9 ... 10	2.5 ... 10	-0.9 ... 10	-0.9 ... 8
Pilot pressure ¹⁾	[bar]	1.5 ... 10	3 ... 10	2.5 ... 10	1.5 ... 10	3 ... 10
Ambient temperature	[°C]	-5 ... +60				
Temperature of medium	[°C]	-5 ... +50				

- 1) Note operating pressure/pilot pressure graph → page 4
- 2) Pneumatic spring
- 3) Mechanical spring
- 4) Mixed, pneumatic/mechanical spring

Information on materials	
Housing	Wrought aluminium alloy
Seals	HNBR, NBR
Note on materials	RoHS-compliant

Dimensions Download CAD data → www.festo.com

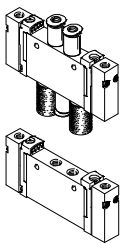
2x3/2-way, 5/2-way and 5/3-way valve



Type	B1	D1 Ø	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
VUWG-L18-...	18.3	4.2	43.1	6.4	115	96.1	86.4	52	34	21.1	22.1	9.7	23.8	31.3
VUWG-L18-M52-...					105									


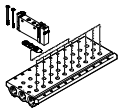
Pneumatic valves VUWG-L18 and VUWG-S18, in-line valves G¹/₄

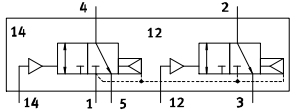
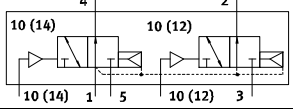
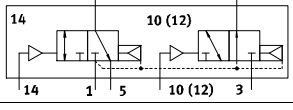
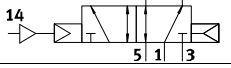
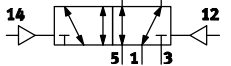
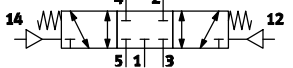
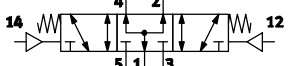
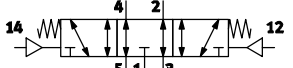
Technical data

Ordering data				
	Description	Part No.	Type	
In-line valve G ¹ / ₄				
	2x3/2-way valve			
	Normally closed, external pneumatic spring supply, reset method: pneumatic spring	574263	VUWG-L18-T32C-A-G14	
	Normally open, external pneumatic spring supply, reset method: pneumatic spring	574264	VUWG-L18-T32U-A-G14	
	1x normally open, 1x normally closed, external pneumatic spring supply, reset method: pneumatic spring	574265	VUWG-L18-T32H-A-G14	
	Normally closed, external pneumatic spring supply, reset method: mechanical spring	574266	VUWG-L18-T32C-M-G14	
	Normally open, external pneumatic spring supply, reset method: mechanical spring	574267	VUWG-L18-T32U-M-G14	
	1x normally open, 1x normally closed, external pneumatic spring supply, reset method: mechanical spring	574268	VUWG-L18-T32H-M-G14	
	5/2-way valve, monostable			
	External pneumatic spring supply, reset method: pneumatic/mechanical spring	574269	VUWG-L18-M52-R-G14	
	External pneumatic spring supply, reset method: mechanical spring	574270	VUWG-L18-M52-M-G14	
	5/2-way valve, bistable			
	–	574271	VUWG-L18-B52-G14	
	5/3-way valve			
	Mid-position closed, external pneumatic spring supply	574272	VUWG-L18-P53C-G14	
Mid-position exhausted, external pneumatic spring supply	574273	VUWG-L18-P53E-G14		
Mid-position pressurised, external pneumatic spring supply	574274	VUWG-L18-P53U-G14		

Pneumatic valves VUWG-L18 and VUWG-S18, in-line valves G¹/₄

Order code

VUWG	-	18	-	-
Valve design				
In-line, individual valve	L			
				
In-line valve, manifold valve incl. seal and screws	S			
				
Width				
18 mm		18		

Valve functions	
	T32C
	T32U
	T32H
	M52
	B52
	P53C
	P53U
	P53E

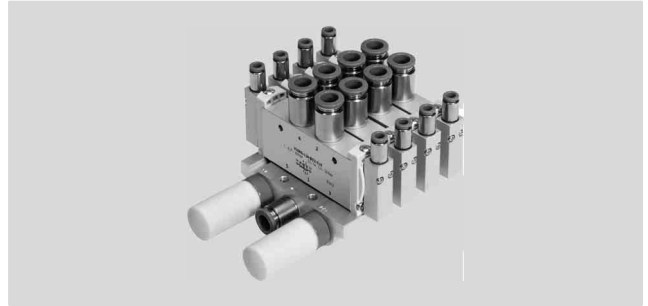
- 1) If Q... is chosen for the pneumatic connection, this also applies to the exhaust ports 3 and 5
- 2) Flow rate applies to 5/2-way individual valve

Exhausting with VUWG-L	
QN	QS if QS ¹⁾
U	Silencer
-	G ¹ / ₈
Pneumatic connection	
G14	Thread G ¹ / ₄
Q6	Push-in connector 6 mm
Q8	Push-in connector 8 mm
Q10	Push-in connector 10 mm
T14	Push-in connector 1/4"
T38	Push-in connector 3/8"
T516	Push-in connector 5/16"
Flow rate [l/min]²⁾	
G14	1,300
Q6	400
Q8	700
Q10	1,100
T14	400
T38	1,200
T516	700
Reset method	
A	Pneumatic spring for T32 and M52
M	Mechanical spring for T32 and M52
R	Pneu./mech. spring for M52
-	With B52 and P53

Pneumatic valves VUWG-S18, in-line valves G1/4

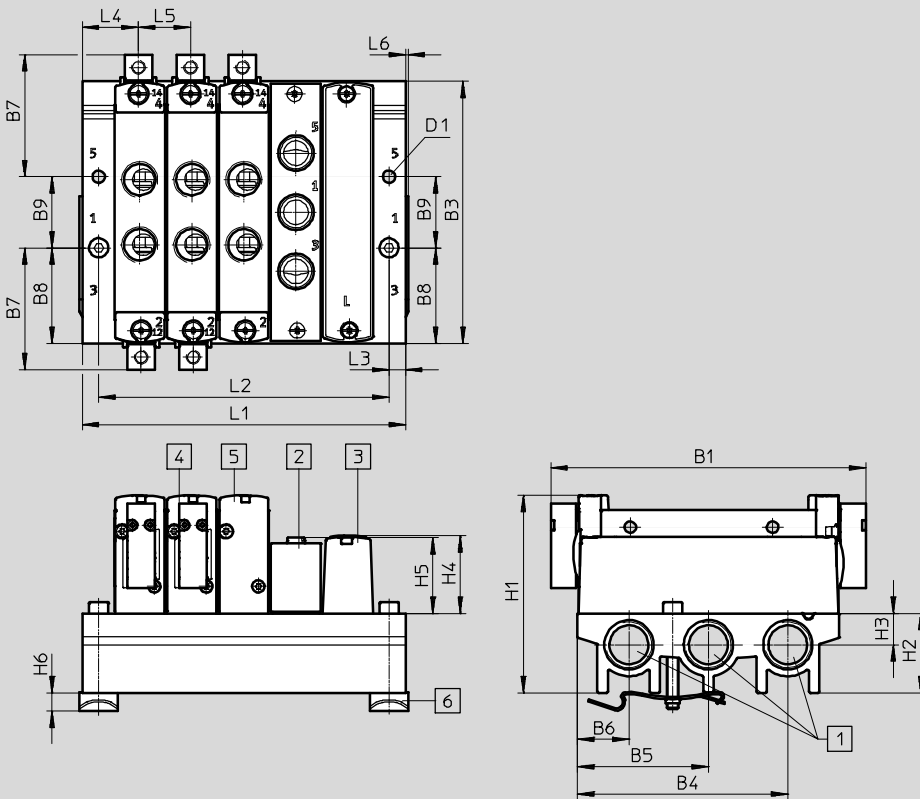
Manifold assembly

In-line valves for manifold assembly



Dimensions

Download CAD data → www.festo.com



- 1 Ports 1, 3 and 5: G3/8
- 2 Blanking plate VABB-L1-18
- 3 Supply plate VABF-L1-18-P3A4-G14
- 4 Double pilot pneumatic valve
- 5 Single pilot pneumatic valve
- 6 H-rail mounting (two M4x35 screws to DIN 912 are required)

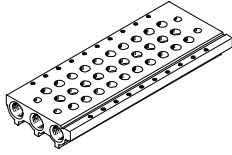
Type	B1	B3	B4	B5	B6	B7	B8	B9	D1	H1	H2
VABM-L1-18S-G38	115	95.6	76.8	47.8	18.8	44.5	34.8	26	4.5	72.1	29

Type	H3	H4	H5	H6	L3	L4	L5	L6
VABM-L1-18S-G38	11.5	28.4	27.6	6.5	6	20.5	19	1

Valve positions	2	3	4	5	6	7	8	9	10	12	14	16
L1 [mm]	61	80	99	118	137	156	175	194	213	251	289	327
L2 [mm]	49	68	87	106	125	144	163	182	201	239	277	315

Pneumatic valves VUWG-S18, in-line valves G1/4

Ordering data

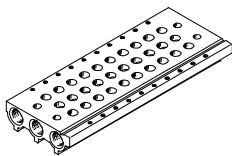
Technical data – Manifold rails							
	Port	CRC	Material ²⁾	Operating pressure [bar]	Max. tightening torque for assembly [Nm]		
	1, 3, 5				Valve	H-rail	Wall
	G3/8	2 ¹⁾	Wrought aluminium alloy	-0.9 ... 10	0.65	1.5	3

- 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.
- 2) Note on materials: RoHS-compliant.

Order code – Manifold rails



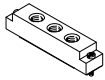

VABM	-	L1	-	18	S	-	G38	-	
Manifold assembly parts									Number of valve positions
Manifold rail		VABM							2 to 10, 12, 14 and 16
Valve series									Ports 1, 3, 5
VUWG		L1					G38		G3/8
Valve width									
18 mm				18					
Manifold rail with ports 1, 3, 5									
For G1/8 in-line valves					S				

Ordering data – Manifold rail

	Description	Part No.	Type
	For valve size G1/4	2 valve positions	574455 VABM-L1-18S-G38-2
		3 valve positions	574456 VABM-L1-18S-G38-3
		4 valve positions	574457 VABM-L1-18S-G38-4
		5 valve positions	574458 VABM-L1-18S-G38-5
		6 valve positions	574459 VABM-L1-18S-G38-6
		7 valve positions	574460 VABM-L1-18S-G38-7
		8 valve positions	574461 VABM-L1-18S-G38-8
		9 valve positions	574462 VABM-L1-18S-G38-9
		10 valve positions	574463 VABM-L1-18S-G38-10
		12 valve positions	574464 VABM-L1-18S-G38-12
		14 valve positions	574465 VABM-L1-18S-G38-14
		16 valve positions	574466 VABM-L1-18S-G38-16

Pneumatic valves VUWG-S18, in-line valves G¹/₄

Ordering data

Ordering data – Accessories			
	Description	Part No.	Type
Blanking plate Technical data → Internet: vabb			
	For manifold rail for G ¹ / ₄ in-line valves	Incl. screws and seal	574482 VABB-L1-18
Separator Technical data → Internet: vabd			
	For manifold rail for G ¹ / ₄ in-line valves	Separator for pressure zones	574483 VABD-14-B
Supply plate Technical data → Internet: vabf			
	For manifold rail for G ¹ / ₄ in-line valves	Incl. screws and seal	574481 VABF-L1-18-P3A4-G14
Seals for in-line valves Technical data → Internet: vabd			
	G ¹ / ₄	Delivery unit: 10 sets (each with 2 screws and 1 seal)	574479 VABD-L1-18X-S-G14

 **Note**

Connect supply plate at port 1 with compressed air. Reverse operation (pressure at port 3/5) is not permissible.


Pneumatic valves VUWG-B10A, sub-base valves

Technical data

Function

5/2-way, single pilot
 5/2-way, double pilot
 5/3C, 5/3U, 5/3E

-  - Width 10 mm

-  - Flow rate
 80 ... 100 l/min



General technical data						
Valve function	M52-R	B52	M52-M	P53		
Normal position	-	-	-	C ¹⁾	U ²⁾	E ³⁾
Pneumatic spring reset method	Yes ⁴⁾	-	No	No		
Mechanical spring reset method	Yes ⁴⁾	-	Yes	Yes		
Vacuum operation at port 1	No	Yes				
Vacuum operation at port 3/5	Yes					
Design	Piston spool valve					
Sealing principle	Soft					
Actuation type	Pneumatic					
Type of control	Direct					
Pneumatic spring supply	External					
Exhaust function	With flow control					
Type of mounting	On manifold rail					
Mounting position	Any					
Standard nominal flow rate	[l/min]	100		80	90	
Switching time on/off	[ms]	5/11	-	5/16	7/19	
Changeover time	[ms]	-	5	-	9	
Width	[mm]	10				
Port	1, 3, 5	M7 in manifold rail				
	2, 4	M5 in manifold rail				
	12, 14	M5				
Product weight	[g]	37	40	34	40	
Corrosion resistance class CRC ⁵⁾		2				

1) C = Normally closed

2) U = Normally open/mid-position pressurised

3) E = Normally exhausted

4) Combined reset method

5) 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.

Pneumatic valves VUWG-B10A, sub-base valves

Technical data

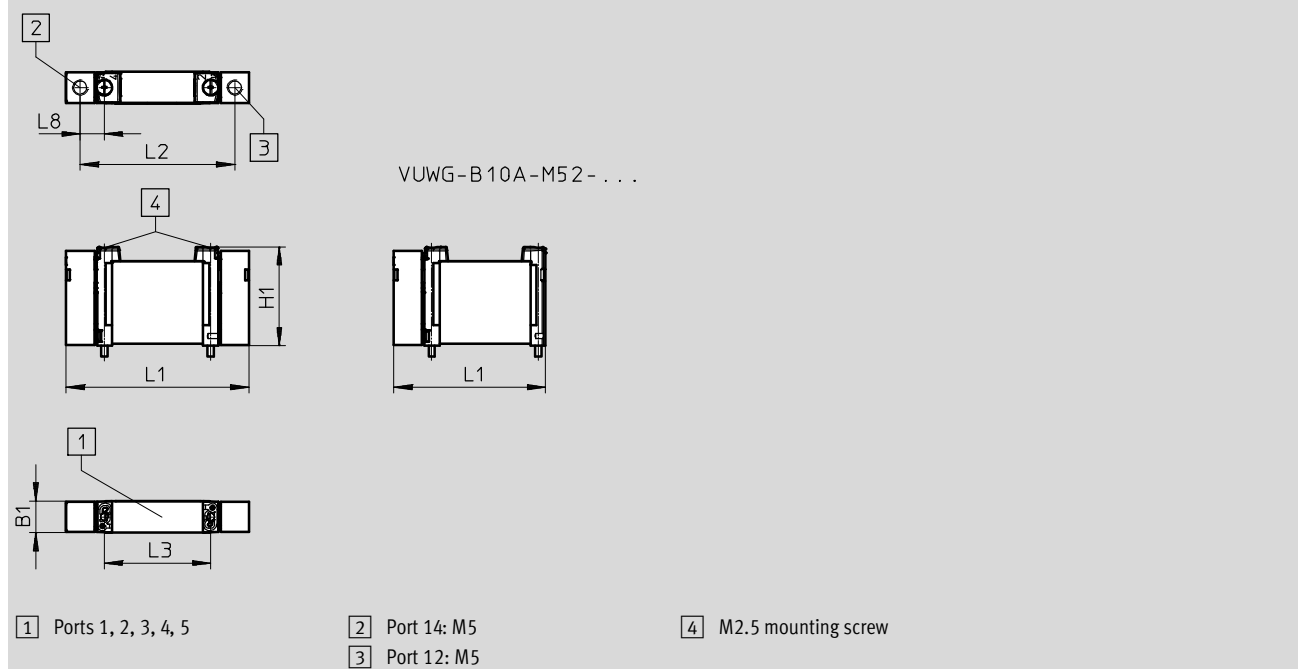
Operating and environmental conditions					
Valve function		M52-R ³⁾	B52	M52-M ²⁾	P53
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]				
Note on operating/pilot medium	Lubricated operation possible (required during subsequent operation)				
Operating pressure	[bar]	2.5 ... 10	-0.9 ... 10	-0.9 ... 8	-0.9 ... 10
Pilot pressure ¹⁾	[bar]	2.5 ... 10	1.5 ... 10	3 ... 10	
Ambient temperature	[°C]	-5 ... +60			
Temperature of medium	[°C]	-5 ... +50			

- 1) Note operating pressure/pilot pressure graph → page 4
- 2) Mechanical spring
- 3) Mixed, pneumatic/mechanical spring

Information on materials	
Housing	Anodised aluminium
Seals	HNBR, NBR
Note on materials	RoHS-compliant

Dimensions Download CAD data → www.festo.com

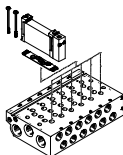
5/2-way and 5/3-way valve



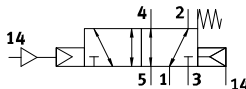
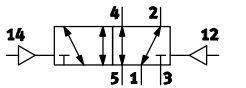
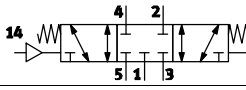
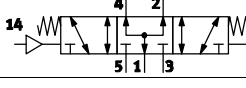
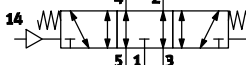
Type	B1	H1	L1	L2	L3	L8
VUWG-B10A-...	10.3	32.5	59.9	50.7	34.9	7.9
VUWG-B10A-M52-...			49.9			

Pneumatic valves VUWG-B10A, sub-base valves

Order code

VUWG	-	B	10A	-	-
Valve design					
Sub-base, manifold valve		B			
incl. seal and screws					
					
Width					
10 mm			10A		

-	F
Pneumatic connection	
F	In the manifold rail
Reset method	
M	Mechanical spring for M52
R	Pneu./mech. spring for M52
-	With B52 and P53

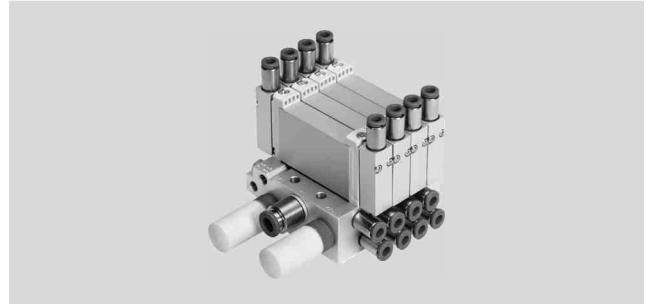
Valve functions	
	M52
	B52
	P53C
	P53U
	P53E

Pneumatic valves VUWG-B10A, sub-base valves

Manifold assembly

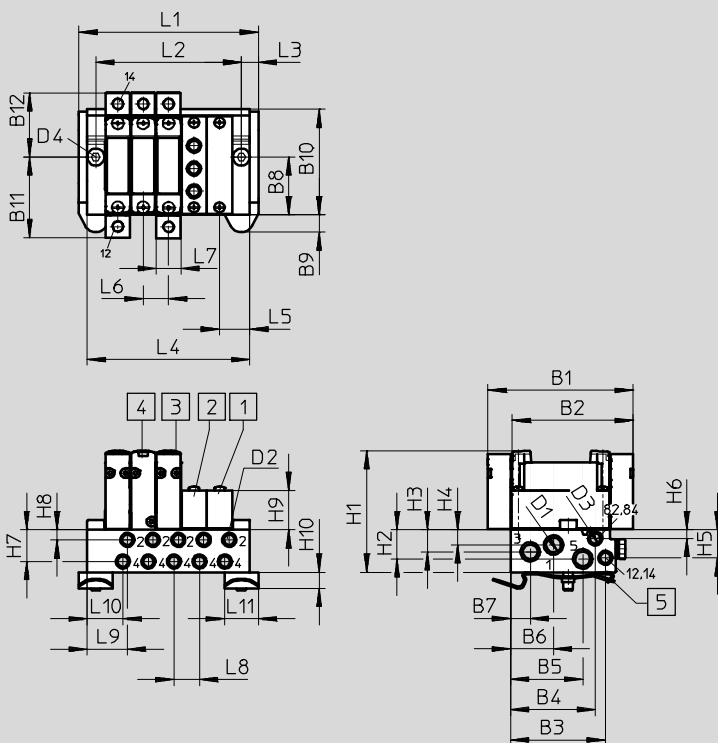


Sub-base valve for manifold assembly
M5 connection



Dimensions

Download CAD data → www.festo.com



- 1 Blanking plate VABB-L1-10A
- 2 Supply plate VABF-L1-10A-P3A4-M5
- 3 Double pilot pneumatic valve
- 4 Single pilot pneumatic valve
- 5 H-rail mounting (two M4x25 screws to DIN 912 are required)

Type	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
VABM-L1-10AW-M7	59.9	49.9	39.1	35	29.8	17.8	8.2	24	7.15	43.5	33.45	26.45

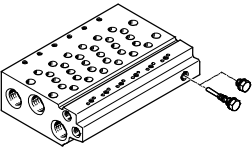
Type	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	D1	D2
VABM-L1-10AW-M7	50	12	9.1	6.3	11.6	3.6	13.1	4.2	16.2	6.8	M7	M5

Type	D3	D4	L3	L5	L6	L7	L8	L9	L10	L11
VABM-L1-10AW-M7	M5	∅ 4.5	7	12.5	10.5	10.2	10.5	16.5	14.7	11

Valve positions	2	3	4	5	6	7	8	9	10	12	14	16
L1 [mm]	42.5	53	63.5	74	84.5	96	106.5	116	126.5	147.5	168.5	189.5
L2 [mm]	28.5	39	49.5	60	70.5	81	91.5	102	112.5	133.5	154.5	175.5
L4 [mm]	35.5	46	56.5	67	77.5	89	99.5	109	119.5	140.5	161.5	182.5

Pneumatic valves VUWG-B10A, sub-base valves

Ordering data





Technical data – Manifold rails ¹⁾									
	Port			CRC	Material ³⁾	Operating pressure [bar]	Max. tightening torque for assembly [Nm]		
	2, 4	1, 3, 5	12/14, 82/84				Valve	H-rail	Wall
	M5	M7	M5	2 ²⁾	Wrought aluminium alloy	-0.9 ... 10	0.45	1.5	1.5

- 1) Blanking plugs are included with the manifold rail.
- 2) 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.
- 3) Note on materials: RoHS-compliant.

Order code – Manifold rails M3

VABM	-	L1	-	10A	W	-	M7	-	
Manifold assembly parts									Number of valve positions
Manifold rail	VABM								2 to 10, 12, 14 and 16
Valve series									Ports 1, 3, 5
VUWG		L1					M7	M7	
Valve width									
10 mm				10A					
Rail with ports 1, 2, 3, 4, 5, 12/14, 82/84									
Port 2 and 4 in M5					W				



Ordering data – Accessories

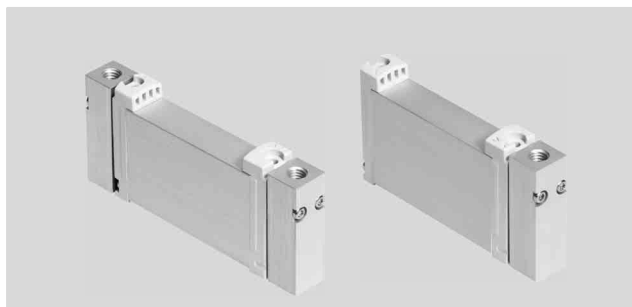
			Part No.	Type
Blanking plate Technical data → Internet: vabb				
	For manifold rail 10AW	Incl. screws and seal	569986	VABB-L1-10A
Separator Technical data → Internet: vabd				
	For manifold rail 10AW	Separator for pressure zones	570872	VABD-4.2-B
Supply plate Technical data → Internet: vabf				
	For manifold rail 10AW	Incl. screws and seal	569990	VABF-L1-10A-P3A4-M5
Seals Technical data → Internet: vabd				
	For sub-base valves B10A	Delivery unit: 10 sets (each with 2 screws and 1 seal)	566671	VABD-L1-10AB-S-M3

Pneumatic valves VUWG-B10, sub-base valves

Technical data

Function
 2x3/2C, 2x3/2U, 2x3/2H
 5/2-way, single pilot
 5/2-way, double pilot
 5/3C, 5/3U, 5/3E

-  - Width 10 mm
 -  - Flow rate
 120 ... 270 l/min



General technical data											
Valve function	T32-A			T32-M			M52-R	B52	M52-M	P53	
Normal position	C ¹⁾	U ²⁾	H ⁴⁾	C ¹⁾	U ²⁾	H ⁴⁾	-	-	-	C ¹⁾ U ²⁾ E ³⁾	
Pneumatic spring reset method	Yes			No			Yes ⁵⁾	-	No	No	
Mechanical spring reset method	No			Yes			Yes ⁵⁾	-	Yes	Yes	
Vacuum operation at port 1	No			Yes			Yes ⁷⁾	Yes			
Vacuum operation at port 3/5	Yes										
Design	Piston spool valve										
Sealing principle	Soft										
Actuation type	Pneumatic										
Type of control	Direct										
Pneumatic spring supply	External										
Exhaust function	With flow control										
Type of mounting	On manifold rail										
Mounting position	Any										
Standard nominal flow rate M5	[l/min]	150			130	120	210		180	200	
Standard nominal flow rate M7	[l/min]	160			140	130	270		230	250	
Switching time on/off	[ms]	4/9			6/7		6/12	-	7/16	8/25	
Changeover time	[ms]	-							5	-	11
Width	[mm]	10									
Port	1, 3, 5	G1/8 in manifold rail									
	2, 4	M5/M7 in manifold rail									
	12, 14	M5									
Product weight	[g]	48			51		45	48	41	48	
Corrosion resistance class CRC ⁶⁾	2										

- 1) C = Normally closed
- 2) U = Normally open/mid-position pressurised
- 3) E = Normally exhausted
- 4) H = 2x 3/2-way valve in one housing with 1x normally closed and 1x normally open
- 5) Combined reset method
- 6) 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.
- 7) Only with external pneumatic spring supply

Pneumatic valves VUWG-B10, sub-base valves

Technical data

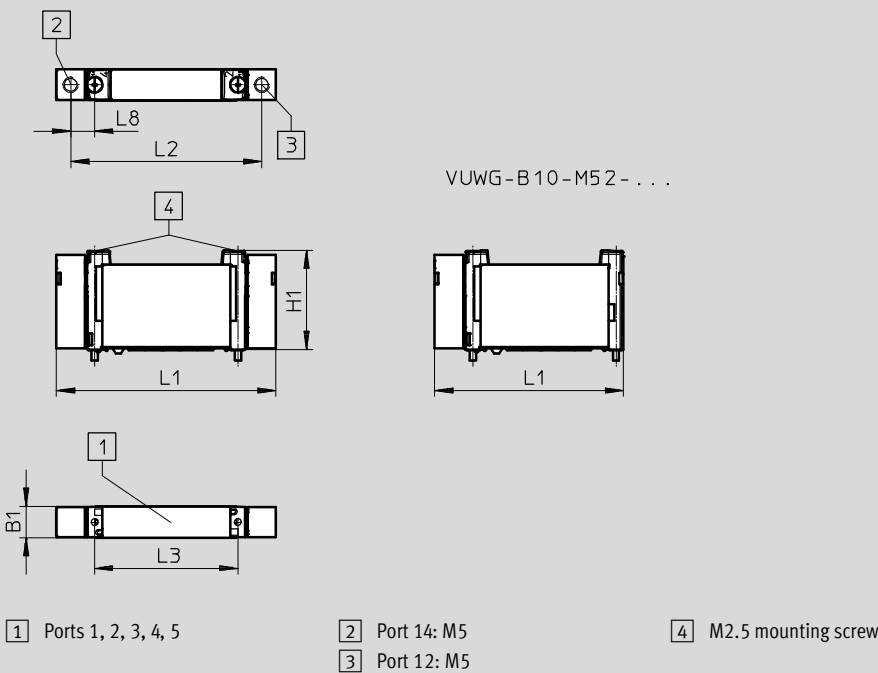
Operating and environmental conditions						
Valve function	T32-A ²⁾	T32-M ³⁾	M52-R ⁴⁾	B52	M52-M ²⁾	P53
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Note on operating/pilot medium	Lubricated operation possible (required during subsequent operation)					
Operating pressure [bar]	1.5 ... 10	-0.9 ... 10	2.5 ... 10	-0.9 ... 10	-0.9 ... 8	-0.9 ... 10
Pilot pressure ¹⁾ [bar]	1.5 ... 10	3 ... 10	2.5 ... 10	1.5 ... 10	3 ... 10	
Ambient temperature [°C]	-5 ... +60					
Temperature of medium [°C]	-5 ... +50					

- 1) Note operating pressure/pilot pressure graph → page 4
- 2) Pneumatic spring
- 3) Mechanical spring
- 4) Mixed, pneumatic/mechanical spring

Information on materials	
Housing	Wrought aluminium alloy
Seals	HNBR, NBR
Note on materials	RoHS-compliant

Dimensions Download CAD data → www.festo.com

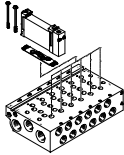
2x3/2-way, 5/2-way and 5/3-way valve



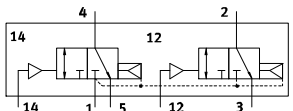
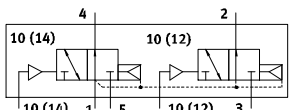
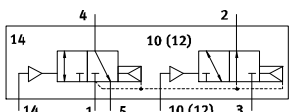
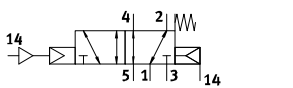
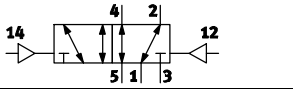
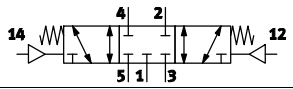
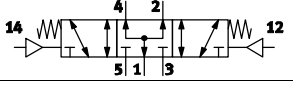

Type	B1	H1	L1	L2	L3	L8
VUWG-B10-...	10.3	32.5	72	62.8	47	7.9
VUWG-B10-M52-...			62			

Pneumatic valves VUWG-B10, sub-base valves

Order code

VUWG	-	B	10	-
Valve design				
Sub-base, manifold valve incl. seal and screws		B		
				
Width				
10 mm			10	

-	F
Pneumatic connection	
F	In the manifold rail
Reset method	
A	Pneumatic spring for T32 and M52
M	Mechanical spring for T32 and M52
R	Pneu./mech. spring for M52
-	With B52 and P53

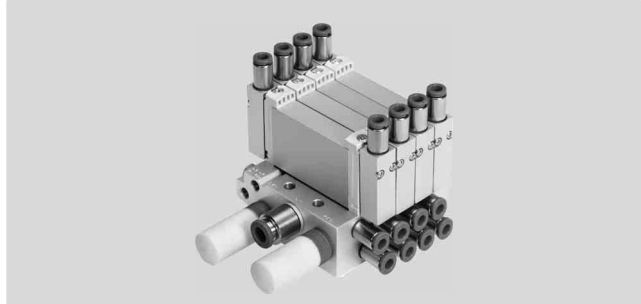
Valve functions	
	T32C
	T32U
	T32H
	M52
	B52
	P53C
	P53U
	P53E

Pneumatic valves VUWG-B10, sub-base valves

Manifold assembly

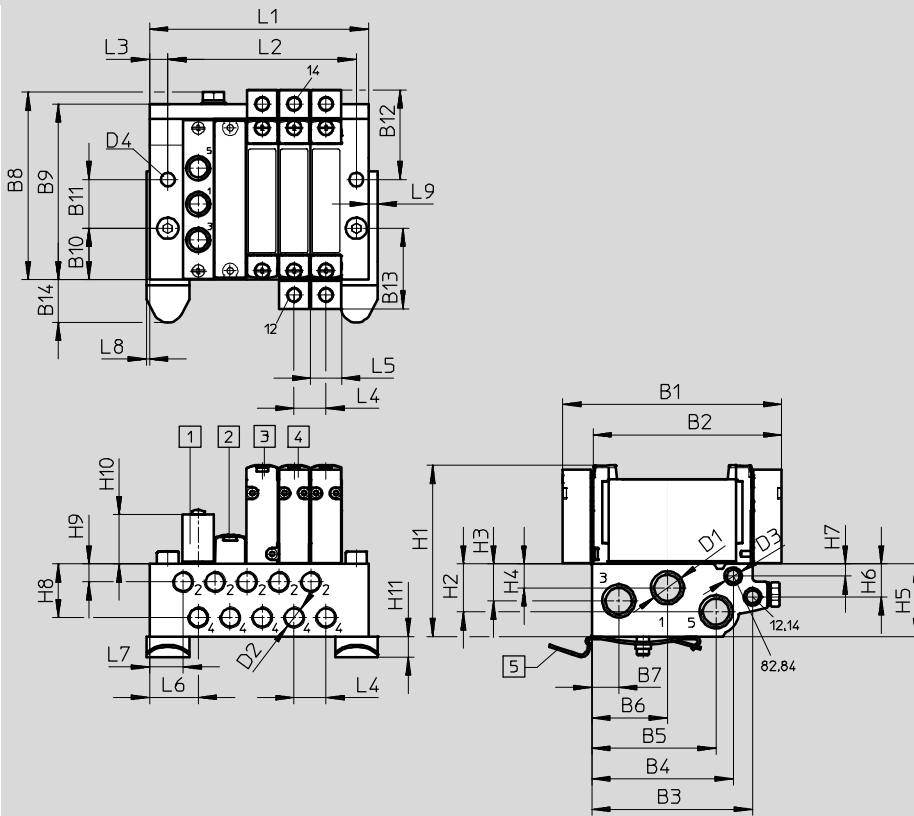


Sub-base valve for manifold assembly
M5 or M7 connection



Dimensions

Download CAD data → www.festo.com



- 1 Supply plate
VABF-L1-10-P3A4-M5
- 2 Blanking plate
VABB-L1-10-W
- 3 Single pilot pneumatic valve,
VUWG-B10-M52
- 4 Double pilot pneumatic valve,
VUWG-B10
- 5 H-rail mounting (two M4x30
screws to DIN 912 are
required)

Type	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
VABM-L1-...G18	72	62	52.9	46.5	40.9	24.9	8.9	62	57.7	16.9	16	29.5

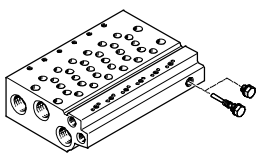
Type	B13	B14	D1	D2	D3	D4	H1	H2	H3	H4	H5	H6
VABM-L1-...G18	26.5	14.1	G $\frac{1}{8}$	M5	M5	4.5	56.4	15.7	12.2	7.9	23.9	10.8

Type	H7	H8	H9	H10	H11	L3	L4	L5	L6	L7	L8	L9	L15
VABM-L1-...G18	4	17.6	5.9	16.2	6.8	4	10.5	10.3	16	11	1	3	10

Valve positions	2	3	4	5	6	7	8	9	10	12	14	16	22
L1 [mm]	48.5	59	69.5	80	90.5	101	111.5	122	132.5	153.5	174.5	195.5	258.5
L2 [mm]	30.5	41	51.5	62	72.5	83	93.5	104	114.5	135.5	156.5	177.5	240.5

Pneumatic valves VUWG-B10, sub-base valves

Ordering data

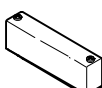

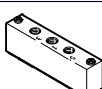

Technical data – Manifold rails ¹⁾									
	Port			CRC	Material ³⁾	Operating pressure [bar]	Max. tightening torque for assembly [Nm]		
	2, 4	1, 3, 5	12/14, 82/84				Valve	H-rail	Wall
	M5 or M7	G $\frac{1}{8}$	M5	2 ²⁾	Wrought aluminium alloy	-0.9 ... 10	0.45	1.5	3

- 1) Blanking plugs are included with the manifold rail.
- 2) 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.
- 3) Note on materials: RoHS-compliant.

Order code – Manifold rails M5 and M7

VABM	-	L1	-	10	-	G18	-	
Manifold assembly parts								Number of valve positions
Manifold rail		VABM						2 to 10, 12, 14 and 16
Valve series								Ports 1, 3, 5
VUWG		L1				G18	G $\frac{1}{8}$	
Valve width								
10 mm				10				
Manifold rail with ports 1, 2, 3, 4, 5, 12/14, 82/84								
Port 2 and 4 in M5								W
Port 2 and 4 in M7								HW



Ordering data – Accessories

			Part No.	Type
Blanking plate Technical data → Internet: vabb				
	For manifold rail 10W/10HW, sub-base valves	Incl. screws and seal	566495	VABB-L1-10-W
Separator Technical data → Internet: vabd				
	For manifold rail 10W and 10HW, sub-base valves	Separator for pressure zones	569994	VABD-6-B
Supply plate Technical data → Internet: vabf				
	For manifold rail 10W	Incl. screws and seal	569991	VABF-L1-10-P3A4-M5
	For manifold rail 10HW		569992	VABF-L1-10-P3A4-M7
Seals Technical data → Internet: vabd				
	For sub-base valves B10	Delivery unit: 10 sets (each with 2 screws and 1 seal)	566674	VABD-L1-10B-S-M7

Pneumatic valves VUWG-B14, sub-base valves

Technical data

Function
 2x3/2C, 2x3/2U, 2x3/2H
 5/2-way, single pilot
 5/2-way, double pilot
 5/3C, 5/3U, 5/3E

-  - Width 14 mm
 -  - Flow rate
 410 ... 580 l/min



General technical data												
Valve function	T32-A			T32-M			M52-A	B52	M52-M	P53		
Normal position	C ¹⁾	U ²⁾	H ⁴⁾	C ¹⁾	U ²⁾	H ⁴⁾	-	-	-	C ¹⁾	U ²⁾	E ³⁾
Pneumatic spring reset method	Yes			No			Yes	-	No	No		
Mechanical spring reset method	No			Yes			No	-	Yes	Yes		
Vacuum operation at port 1	No			Yes			No	Yes				
Vacuum operation at port 3/5	Yes											
Design	Piston spool valve											
Sealing principle	Soft											
Actuation type	Pneumatic											
Type of control	Direct											
Pneumatic spring supply	External											
Exhaust function	With flow control											
Type of mounting	On manifold rail											
Mounting position	Any											
Standard nominal flow rate	[l/min]	540	510	540	430	410	580			540	510	
Switching time on/off	[ms]	6/19			9/13			12/22	-	12/32	8/30	
Changeover time	[ms]	-			-			6	-	16		
Width	[mm]	14										
Port	1, 3, 5	G1/4 in manifold rail										
	2, 4	G1/8 in manifold rail										
	12, 14	M5										
Product weight	[g]	83			83			75	81			
Corrosion resistance class CRC ⁵⁾	2											

- 1) C = Normally closed
- 2) U = Normally open/mid-position pressurised
- 3) E = Normally exhausted
- 4) H = 2x3/2-way valve in one housing with 1x normally closed and 1x normally open
- 5) 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.

Pneumatic valves VUWG-B14, sub-base valves

Technical data

Operating and environmental conditions							
Valve function		T32-A ²⁾	T32-M ³⁾	M52-A ²⁾	B52	M52-M ³⁾	P53
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]						
Note on operating/pilot medium	Lubricated operation possible (required during subsequent operation)						
Operating pressure	[bar]	1.5 ... 10	-0.9 ... 10	2.5 ... 10	-0.9 ... 10	-0.9 ... 8	-0.9 ... 10
Pilot pressure ¹⁾	[bar]	1.5 ... 10	3 ... 10	2.5 ... 10	1.5 ... 10	3 ... 10	
Ambient temperature	[°C]	-5 ... +60					
Temperature of medium	[°C]	-5 ... +50					

- 1) Note operating pressure/pilot pressure graph → page 4
- 2) Pneumatic spring
- 3) Mechanical spring

Information on materials	
Housing	Wrought aluminium alloy
Seals	HNBR, NBR
Note on materials	RoHS-compliant

Dimensions Download CAD data → www.festo.com

2x3/2-way, 5/2-way and 5/3-way valve

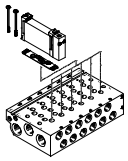
VUWG-B14-M52-...

1 Ports 1, 2, 3, 4, 5
 2 Port 14: M5
 3 Port 12: M5
 4 M2.5 mounting screw

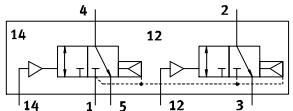
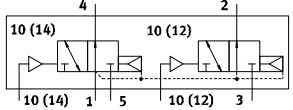
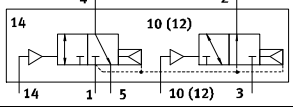
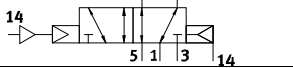
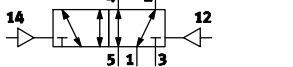
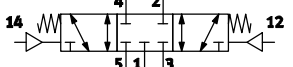
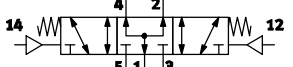
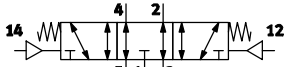
Type	B1	H1	L1	L2	L3	L8
VUWG-B14-...	14.4	34.8	92.6	83.4	66.5	8.5
VUWG-B14-M52-...			82.3			

Pneumatic valves VUWG-B14, sub-base valves

Order code

VUWG	-	B	14	-	-
Valve design					
Sub-base, manifold valve incl. seal and screws		B			
					
Width					
10 mm		14			

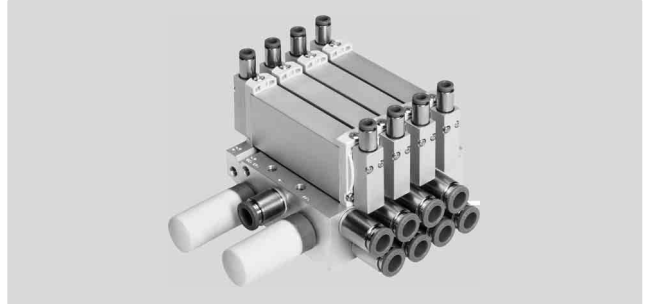
-	F
Pneumatic connection	
F	In the manifold rail
Reset method	
A	Pneumatic spring for T32 and M52
M	Mechanical spring for T32 and M52
-	With B52 and P53

Valve functions	
	T32C
	T32U
	T32H
	M52
	B52
	P53C
	P53U
	P53E

Pneumatic valves VUWG-B14, sub-base valves

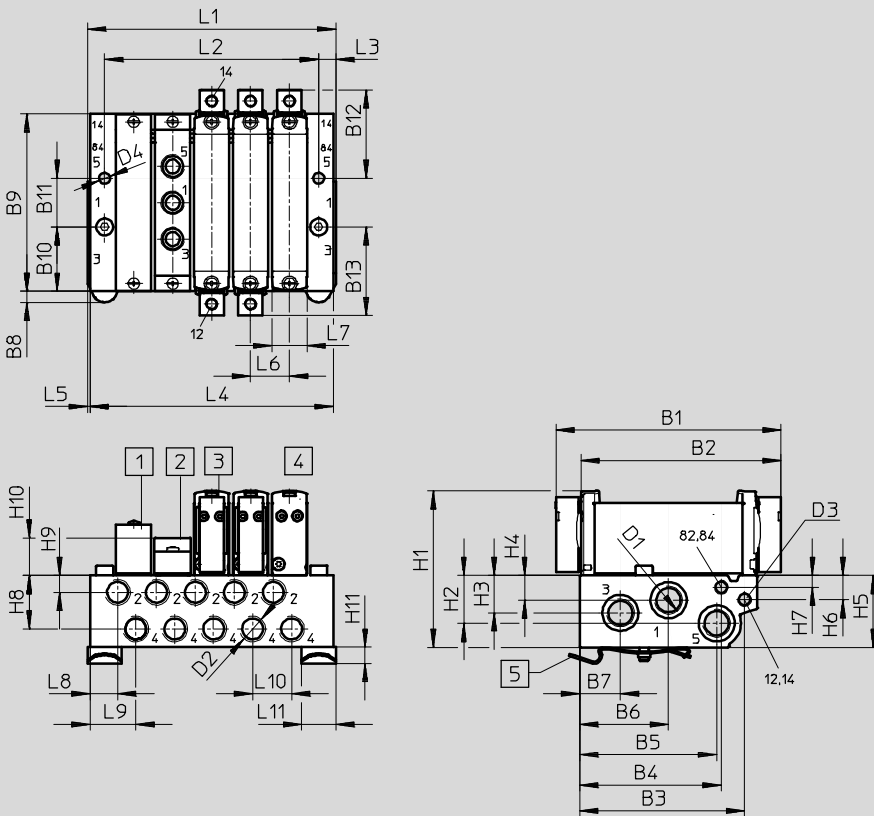
Manifold assembly

Sub-base valve for manifold assembly
G $\frac{3}{8}$ connection



Dimensions

Download CAD data → www.festo.com



- 1 Blanking plate VABB-L1-14
- 2 Supply plate VABF-L1-14-P3A4-G18
- 3 Double pilot pneumatic valve
- 4 Single pilot pneumatic valve
- 5 H-rail mounting (two M4x25 screws to DIN 912 are required)

Type	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
VUWG-B14 -...-F- ...	92.6	82.3	67.7	58.2	56.3	36.6	16.7	4.5	72.9	26.5	20	36.3

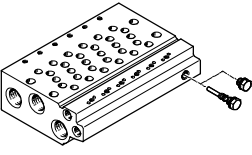
Type	B13	D1	D2	D3	D4	H1	H2	H3	H4	H5	H6	H7
VUWG-B14 -...-F- ...	36.3	G $\frac{1}{4}$	G $\frac{1}{8}$	M5	Ø 4.5	64.3	19.6	15.3	10.1	29.5	9.8	4.8

Type	H8	H9	H10	H11	L3	L5	L6	L7	L8	L9	L10	L11
VUWG-B14 -...-F- ...	22.1	7	15.4	6.8	6	1	16	14.4	11.3	18.5	16	14

Valve positions	2	3	4	5	6	7	8	9	10	12	14	16
L1 [mm]	56.3	72.3	88.3	104.3	120.3	136.3	152.3	168.3	184.3	216.3	248.3	280.3
L2 [mm]	40	56	72	88	104	120	136	152	168	200	232	264
L4 [mm]	54.3	70.3	86.3	102.3	118.3	134.3	150.3	166.3	182.3	214.3	246.6	278.3

Pneumatic valves VUWG-B14, sub-base valves

Ordering data





Technical data – Manifold rails ¹⁾									
	Port			CRC	Material ³⁾	Operating pressure [bar]	Max. tightening torque for assembly [Nm]		
	2, 4	1, 3, 5	12/14, 82/84				Valve	H-rail	Wall
	G1/8	G1/4	M5	2 ²⁾	Wrought aluminium alloy	-0.9 ... 10	0.65	1.5	3

- 1) Blanking plugs are included with the manifold rail.
- 2) 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.
- 3) Note on materials: RoHS-compliant

Order code – Manifold rails G1/8

VABM	-	L1	-	14	W	-	G14	-	
Manifold assembly parts									Number of valve positions
Manifold rail		VABM							2 to 10, 12, 14 and 16
Valve series									Ports 1, 3, 5
VUWG		L1					G14	G1/4	
Valve width									
14 mm					14				
Manifold rail with ports 1, 2, 3, 4, 5, 12/14, 82/84									
Ports 2 and 4 in G1/8									
					W				

Ordering data – Accessories

				Part No.	Type
Blanking plate Technical data → Internet: vabb					
	For manifold rail 14W, sub-base valves	Incl. screws and seal		569989	VABB-L1-14
Separator Technical data → Internet: vabd					
	For manifold rail 14W, sub-base valves	Separator for pressure zones		569996	VABD-10-B
Supply plate Technical data → Internet: vabf					
	For manifold rail 14W	Incl. screws and seal		569993	VABF-L1-14-P3A4-G18
Seals Technical data → Internet: vabd					
	For sub-base valves B14	Delivery unit: 10 sets (each with 2 screws and 1 seal)		566676	VABD-L1-14B-S-G18

Pneumatic valves VUWG-B18, sub-base valves

Technical data

Function


2x3/2C, 2x3/2U, 2x3/2H

5/2-way, single pilot

5/2-way, double pilot

5/3C, 5/3U, 5/3E

 Width 18 mm

 Flow rate
900 ... 1,000 l/min



General technical data												
Valve function	T32-A			T32-M			M52-R	B52	M52-M	P53		
Normal position	C ¹⁾	U ²⁾	H ⁴⁾	C ¹⁾	U ²⁾	H ⁴⁾	–	–	–	C ¹⁾	U ²⁾ E ³⁾	
Pneumatic spring reset method	Yes			No			Yes ⁵⁾	–	No	No		
Mechanical spring reset method	No			Yes			Yes ⁵⁾	–	Yes	Yes		
Vacuum operation at port 1	No			Yes			No	Yes				
Vacuum operation at port 3/5	Yes											
Design	Piston spool valve											
Sealing principle	Soft											
Actuation type	Pneumatic											
Type of control	Direct											
Pneumatic spring supply	External											
Exhaust function	With flow control											
Type of mounting	On manifold rail											
Mounting position	Any											
Standard nominal flow rate	[l/min]	900					1,000			950		
Switching time on/off	[ms]	12/36			17/25			16/40	–	12/59	17/69	
Changeover time	[ms]	–						12	–	34		
Width	[mm]	18										
Port	1, 3, 5	G $\frac{3}{8}$ in manifold rail										
	2, 4	G $\frac{1}{4}$ in manifold rail										
	12, 14	M5										
Product weight	[g]	83			83			75	81			
Corrosion resistance class CRC ⁶⁾	2											

1) C = Normally closed

2) U = Normally open/mid-position pressurised

3) E = Normally exhausted

4) H = 2x 3/2-way valve in one housing with 1x normally closed and 1x normally open

5) Combined reset method

6) 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.

Pneumatic valves VUWG-B18, sub-base valves

Technical data

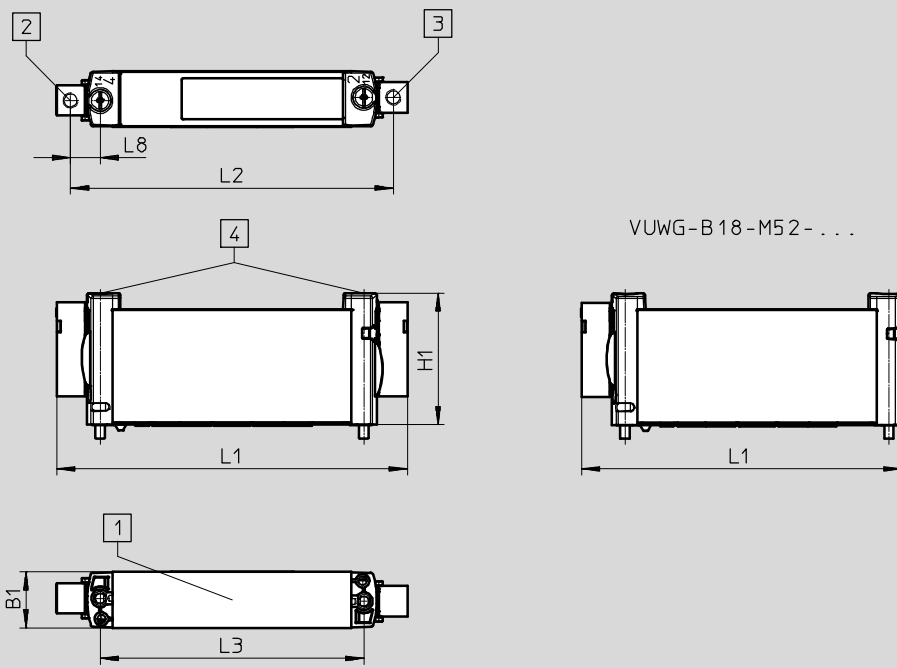
Operating and environmental conditions						
Valve function	T32-A ²⁾	T32-M ³⁾	M52-R ⁴⁾	B52	M52-M ³⁾	P53
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Note on operating/pilot medium	Lubricated operation possible (required during subsequent operation)					
Operating pressure [bar]	1.5 ... 10	-0.9 ... 10	2.5 ... 10	-0.9 ... 10	-0.9 ... 8	-0.9 ... 10
Pilot pressure ¹⁾ [bar]	1.5 ... 10	3 ... 10	2.5 ... 10	1.5 ... 10	3 ... 10	
Ambient temperature [°C]	-5 ... +60					
Temperature of medium [°C]	-5 ... +50					

- 1) Note operating pressure/pilot pressure graph → page 4
- 2) Pneumatic spring
- 3) Mechanical spring
- 4) Mixed, pneumatic/mechanical spring

Information on materials	
Housing	Wrought aluminium alloy
Seals	HNBR, NBR
Note on materials	RoHS-compliant

Dimensions Download CAD data → www.festo.com

2x3/2-way, 5/2-way and 5/3-way valve

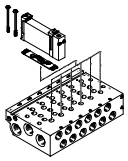


- 1) Ports 1, 2, 3, 4, 5
- 2) Port 14: M5
- 4) M3 mounting screw
- 3) Port 12: M5

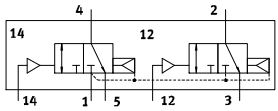
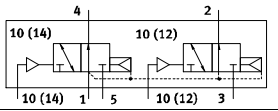
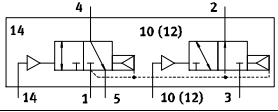
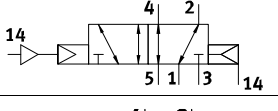
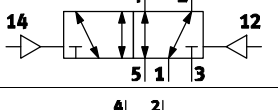
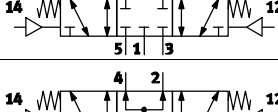
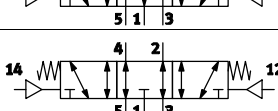

Type	B1	H1	L1	L2	L3	L8
VUWG-B18-...	18.3	43.1	115	96.1	86.4	9.7
VUWG-B18-M52-...			105			

Pneumatic valves VUWG-B18, sub-base valves

Order code

VUWG	-	B	18	-
Valve design				
Sub-base, manifold valve incl. seal and screws		B		
				
Width				
18 mm			18	

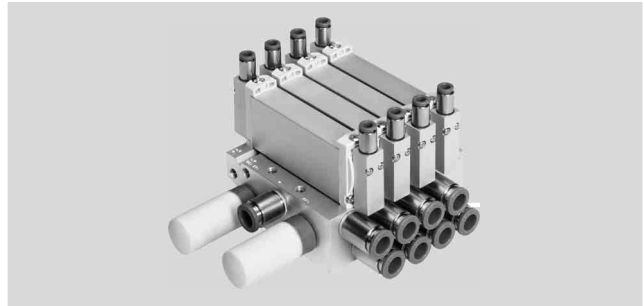
-	F
Pneumatic connection	
F	In the manifold rail
Reset method	
A	Pneumatic spring for T32 and M52
M	Mechanical spring for T32 and M52
R	Pneu./mech. spring for M52
-	With B52 and P53

Valve functions	
	T32C
	T32U
	T32H
	M52
	B52
	P53C
	P53U
	P53E

Pneumatic valves VUWG-B18, sub-base valves

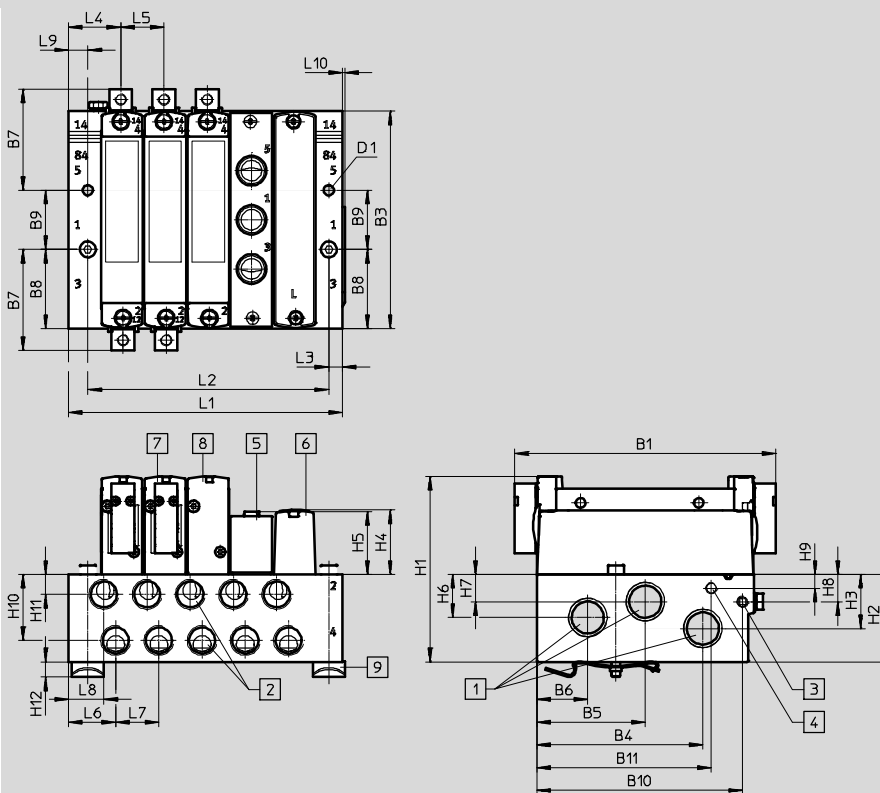
Manifold assembly

Sub-base valve for manifold assembly
G $\frac{3}{8}$ connection



Dimensions

Download CAD data → www.festo.com



- 1 Ports 1, 3 and 5: G $\frac{3}{8}$ (at both ends)
- 2 Ports 2 and 4: G $\frac{1}{4}$
- 3 Port 12/14 for external pilot air: M5
- 4 Port 82/84 for external pilot air: M5
- 5 Supply plate VABF-L1-18-P3A4-G14
- 6 Blanking plate VABB-L1-18
- 7 Double pilot pneumatic valve
- 8 Single pilot pneumatic valve
- 9 H-rail mounting (two M4x40 screws to DIN 912 are required for mounting)

Type	B1	B3	B4	B5	B6	B7	B8	B9	B10	B11	D1	H1
VUWG-B14 -...-F- ...	115	95.6	73.1	47.8	22.5	51.7	34.8	26	90.6	76.8	4.5	81.6

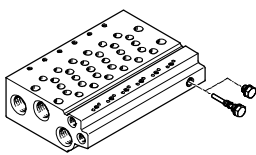
Type	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12	L3
VUWG-B14 -...-F- ...	38.5	23.8	28.4	27.6	19	12	12.1	6.1	29.1	8.8	6.5	6

Type	L4	L5	L6	L7	L8	L9	L10
VUWG-B14 -...-F- ...	23	19	20.8	19	15.6	8.5	1

Valve positions	2	3	4	5	6	7	8	9	10	12	14	16
L1 [mm]	63.5	82.5	101.5	120.5	139.5	158.5	177.5	196.5	215.5	253.5	291.5	329.5
L2 [mm]	49	68	87	106	125	144	163	182	201	239	277	315

Pneumatic valves VUWG-B18, sub-base valves

Ordering data

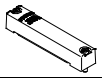

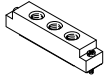

Technical data – Manifold rails ¹⁾									
	Port			CRC	Material ³⁾	Operating pressure [bar]	Max. tightening torque for assembly [Nm]		
	2, 4	1, 3, 5	12/14, 82/84				Valve	H-rail	Wall
	G1/4	G3/8	M5	2 ²⁾	Wrought aluminium alloy	-0.9 ... 10	0.65	1.5	3

- 1) Blanking plugs are included with the manifold rail.
- 2) 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.
- 3) Note on materials: RoHS-compliant.

Order code – Manifold rails G1/4

VABM	-	L1	-	18	W	-	G38	-	
Manifold assembly parts									
Manifold rail	VABM			Number of valve positions					
				2 to 10, 12, 14 and 16					
Valve series	Ports 1, 3, 5								
VUWG	L1			G38 G3/8					
Valve width									
18 mm	18								
Manifold rail with ports 1, 2, 3, 4, 5, 12/14, 82/84									
Ports 2 and 4 in G1/4			W						





Ordering data – Accessories

				Part No.	Type
Blanking plate Technical data → Internet: vabb					
	For manifold rail 18W, sub-base valves	Incl. screws and seal		574482	VABB-L1-18
Separator Technical data → Internet: vabd					
	For manifold rail 18W, sub-base valves	Separator for pressure zones		574483	VABD-14-B
Supply plate Technical data → Internet: vabf					
	For manifold rail 18W	Incl. screws and seal		574481	VABF-L1-18-P3A4-G14
Seals Technical data → Internet: vabd					
	For sub-base valves B18	Delivery unit: 10 sets (each with 2 screws and 1 seal)		574480	VABD-L1-18B-S-G14

Pneumatic valves VUWG

Accessories

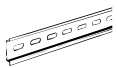


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Ordering data			
	Description	Part No.	Type
Pneumatic silencer			Technical data → Internet: u
	For thread M5	1 piece	165003 UC-M5
	For thread M7		161418 UC-M7
	For thread G1/8	50 pieces	534222 U-1/8-50
		1 piece	161419 UC-1/8
	For thread G1/4	20 pieces	534220 UC-1/4-20
		534223 U-1/4-20	
Fittings			Technical data → Internet: qs
	For tubing Ø 3 mm	10 pieces	133003 QSM-M5-3-I-R
	For tubing Ø 4 mm		133004 QSM-M5-4-I-R
	For tubing Ø 6 mm		133005 QSM-M5-6-I-R
	For tubing Ø 6 mm		133007 QSM-M7-6-I-R
	For tubing Ø 3 mm	10 pieces	153313 QSM-M5-3-I
	For tubing Ø 4 mm		153315 QSM-M5-4-I
	For tubing Ø 4 mm		153319 QSM-M7-4-I
	For tubing Ø 4 mm		186106 QS-G1/8-4-I
	For tubing Ø 6 mm	10 pieces	186107 QS-G1/8-6-I
	For tubing Ø 8 mm		186109 QS-G1/8-8-I
	For tubing Ø 8 mm		130995 QS-B-1/4-8-I-20
	For tubing Ø 10 mm	20 pieces	132152 QS-B-1/4-10-I-20
	For tubing Ø 12 mm		132153 QS-B-1/4-12-I-20
	For tubing Ø 10 mm		132151 QS-B-1/8-10-I-20
	For tubing Ø 6 mm	10 pieces	186117 QSL-G1/8-6
	For tubing Ø 8 mm		186119 QSL-G1/8-8
	For tubing Ø 8 mm	20 pieces	130931 QSL-B-1/4-8-20
	For tubing Ø 10 mm		132127 QSL-B-1/4-10-20
	For tubing Ø 12 mm		132128 QSL-B-1/4-12-20
	For tubing Ø 10 mm		132126 QSL-B-1/8-10-20
	For tubing Ø 6 mm	10 pieces	186128 QSLL-G1/8-6
	For tubing Ø 8 mm		186130 QSLL-G1/8-8
	For tubing Ø 3 mm		153331 QSML-M5-3
	For tubing Ø 4 mm		153333 QSML-M5-4
	For tubing Ø 4 mm		186352 QSML-M7-4
	For tubing Ø 3 mm		130838 QSMLL-M5-3
	For tubing Ø 4 mm		153339 QSMLL-M5-4
	For tubing Ø 4 mm		186354 QSMLL-M7-4
Blanking plug			Technical data → Internet: b
	For thread M5	10 pieces	174308 B-M5-B
	For thread M7		174309 B-M7
	For thread G1/8		3568 B-1/8
	For thread G1/4		3569 B-1/4
Compact blanking plug, for valve			Technical data → Internet: npqh
	For sealing a connection (valve requires a blanking plug with a low screw-in depth)	For valve size 14 (G1/8), 10 pieces	578406 NPQH-BK-G18-P10
		For valve size 18 (G1/4), 10 pieces	578407 NPQH-BK-G14-P10

Pneumatic valves VUWG

Accessories



Ordering data						
		Description			Part No.	Type
H-rail					Technical data → Internet: nrh	
	To EN 60715, 35 x 7.5 (WxH)	2 m	35430	NRH-35-2000		
H-rail mounting					Technical data → Internet: vame	
	–	2 pieces	569998	VAME-T-M4		
Flow control valve						
	For M5 valves, for setting the flow rate during pressurisation and exhausting (10 pieces)	Flow rate: 9.6 l/min	b value: 0.5	C value: 0.04	8025709	VFFG-T-M5-5
		Flow rate: 14.6 l/min	b value: 0.5	C value: 0.05	8025710	VFFG-T-M5-6
		Flow rate: 19.1 l/min	b value: 0.5	C value: 0.07	8025711	VFFG-T-M5-7
		Flow rate: 26.1 l/min	b value: 0.5	C value: 0.10	8025712	VFFG-T-M5-8
		Flow rate: 40.8 l/min	b value: 0.5	C value: 0.14	8025713	VFFG-T-M5-10
		Flow rate: 45.4 l/min	b value: 0.5	C value: 0.16	8025714	VFFG-T-M5-12
		Flow rate: 67.4 l/min	b value: 0.5	C value: 0.25	8025715	VFFG-T-M5-15

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1 Festo Inc.
5300 Explorer Drive
Mississauga, ON L4W 5G4
Canada

Festo Customer Interaction Center
Tel: 1 877 463 3786
Fax: 1 877 393 3786
Email: customer.service.ca@festo.com



2 Festo Pneumatic
Av. Ceylán 3,
Col. Tequesquináhuac
54020 Tlalneantla,
Estado de México

Multinational Contact Center
01 800 337 8669
ventas.mexico@festo.com



3 Festo Corporation
1377 Motor Parkway
Suite 310
Islandia, NY 11749

Festo Customer Interaction Center
1 800 993 3786
1 800 963 3786
customer.service.us@festo.com



4 Regional Service Center
7777 Columbia Road
Mason, OH 45040

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