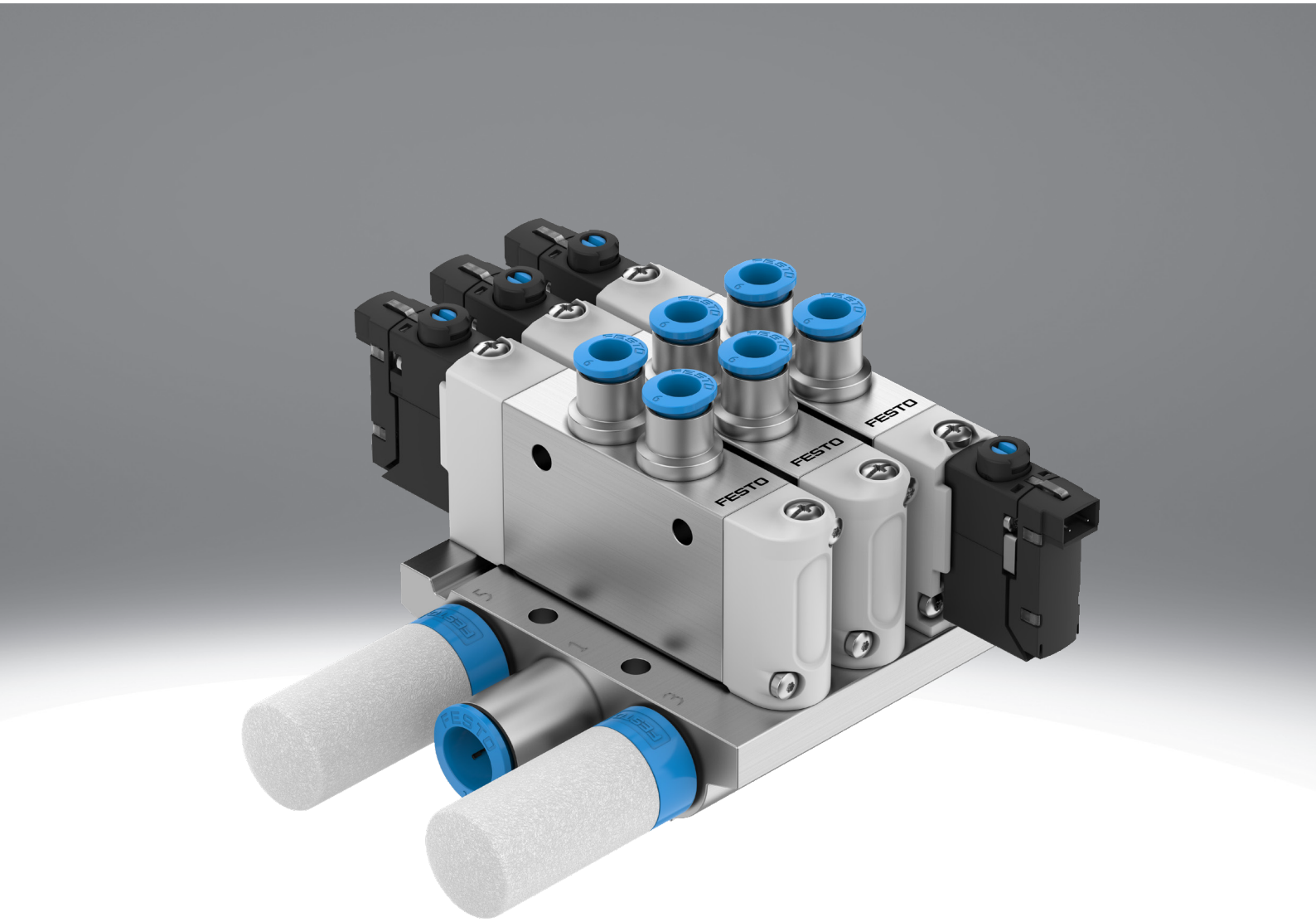
Valve manifold assembly VTIX



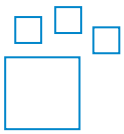
Characteristics

At a glance

The VUVX valves and the associated VTIX valve manifold assembly offer a wide performance range and universal applicability in the field of factory and process industry:

- Sub-bases in fixed grid spacing with 2 to 16 valve slots
- Valve width 10 mm, 14 mm, 18 mm, and 24 mm
- Flow rate 260... 1975 l/min, depending on valve variant
- Sleeve valves, half-sleeve valves, and manifold valves
- Operating voltage 12 V DC and 24 V DC
- Connection technology easily exchangeable via electrical connecting plate
- With internal or external pilot air
- Flexible pressure supply and variable pressure zones via vertical supply plates
- Robust, lightweight, and durable components made of aluminum
- Vacuum operation possible
- Suitability for the production of Li-ion batteries
- Solid wall mounting or H-rail mounting

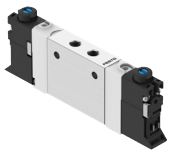
Ordering data - modular system



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

Datasheet

General Technical Data – Valves



Valve size	10 mm	14 mm	18 mm
Structural design	Piston slide with sealing ring		
Sealing principle	Soft		
Actuation type	Electrical		
Type of control	Piloted		
Exhaust air function	Adjustable		
Manual override	Detenting via accessory		
Mounting position	Any		
Max. tightening torque for valve mounting	0.36 Nm	0.96 Nm	1.2 Nm
Width	10.25 mm	14.4 mm	18.55 mm

Pneumatic connections – valves

Directional control valve type	Sub-base valve			Inline valve				Semi-inline valve	
Valve size	10 mm	14 mm	18 mm	10 mm		14 mm	18 mm	10 mm	14 mm
Pneumatic connection	Flange/Sub-base			M5	M7	G1/8	G1/4	M5	G1/8
Pneumatic connection 1	Sub-base			M5	M7	G1/8	G1/4	M5	G1/8
Pneumatic connection 2	Sub-base			M5	M7	G1/8	G1/4	M5	G1/8
Pneumatic connection 3	Sub-base			M5	M7	G1/8	G1/4	M5	G1/8
Pneumatic connection 4	Sub-base			M5	M7	G1/8	G1/4	M5	G1/8
Pneumatic connection 5	Sub-base			M5	M7	G1/8	G1/4	M5	G1/8
Pilot air port 12/14	Sub-base			M3		M5		M3	M5
Pilot exhaust air port 82/84	Sub-base			Not ducted					

Electrical data – valves

Permissible voltage fluctuations	+/- 10%
Duty cycle	100%

Technical data – 3/2-way valves, valve size 10 mm, pneumatic connection M5

Valve function	2x3/2 closed, monostable				2x3/2 open monostable		2x3/2, open/closed, monostable	
Reset method	Mechanical spring		Pneumatic spring		Mechanical spring			
Pilot air supply port	External	Internal	External	Internal	External	Internal	External	Internal
Lap	Negative overlap							
Flow direction	Reversible	Non-reversible			Reversible	Non-reversible	Reversible	Non-reversible
Suitability for vacuum	Yes	–	No	–	Yes	–	Yes	–
Nominal width	2.3 mm	2.2 mm	2.3 mm	2.2 mm	2.3 mm	2.2 mm	2.3 mm	2.2 mm
Nominal flow rate standardized according to ISO 8778	230 l/min	225 l/min	230 l/min	225 l/min	230 l/min	225 l/min	230 l/min	225 l/min
Nominal flow rate standardized according to ISO 8778 exhaust 2-3	235 l/min	225 l/min	235 l/min	225 l/min	235 l/min	225 l/min	235 l/min	225 l/min
b-value	0.46	0.49	0.46	0.49	0.46	0.49	0.46	0.49
C value	0.82 l/sbar	0.78 l/sbar	0.82 l/sbar	0.78 l/sbar	0.82 l/sbar	0.78 l/sbar	0.82 l/sbar	0.78 l/sbar
Operating pressure	0 ... 0.8 MPa	0.4 ... 0.8 MPa	0.15 ... 0.8 MPa		0 ... 0.8 MPa	0.4 ... 0.8 MPa	0 ... 0.8 MPa	0.4 ... 0.8 MPa
Operating pressure	0 ... 8 bar	4 ... 8 bar	1.5 ... 8 bar		0 ... 8 bar	4 ... 8 bar	0 ... 8 bar	4 ... 8 bar
Pilot pressure MPa	0.2 ... 0.8 MPa	–	0.15 ... 0.8 MPa	–	0.2 ... 0.8 MPa	–	0.2 ... 0.8 MPa	–
Pilot pressure	2 ... 8 bar	–	1.5 ... 8 bar	–	2 ... 8 bar	–	2 ... 8 bar	–
Max. switching frequency	3 Hz		5 Hz		3 Hz			
On switching time	10 ms		8 ms		10 ms			
Switching time off	11 ms		13 ms		11 ms			
Product weight	52 g	46 g	52 g	46 g	52 g	46 g	52 g	46 g

Datasheet

Technical data – 3/2-way valves, valve size 10 mm, pneumatic connection M7				
Valve function	2x3/2 closed, monostable		2x3/2 open monostable	2x3/2, open/closed, monostable
Reset method	Mechanical spring	Pneumatic spring	Mechanical spring	
Pilot air supply port	Internal			
Lap	Negative overlap			
Flow direction	Non-reversible			
Suitability for vacuum	–			
Nominal width	2.5 mm		2.7 mm	2.6 mm
Nominal flow rate standardized according to ISO 8778	260 l/min		320 l/min	295 l/min
Nominal flow rate standardized according to ISO 8778 exhaust 2-3	410 l/min		375 l/min	390 l/min
b-value	0.38		0.45	0.46
C value	0.97 l/sbar		1.13 l/sbar	1.04 l/sbar
Operating pressure	0.4 ... 0.8 MPa	0.15 ... 0.8 MPa	0.4 ... 0.8 MPa	
Operating pressure	4 ... 8 bar	1.5 ... 8 bar	4 ... 8 bar	
Pilot pressure MPa	–			
Pilot pressure	–			
Max. switching frequency	3	5	3	
On switching time	10	8	10	
Switching time off	11	13	11	
Product weight	46 g			

Technical data – 3/2-way valves, valve size 14 mm				
Valve function	2x3/2 closed, monostable		2x3/2 open monostable	2x3/2, open/closed, monostable
Reset method	Mechanical spring	Pneumatic spring	Mechanical spring	
Pilot air supply port	Internal			
Lap	Negative overlap			
Flow direction	Non-reversible			
Suitability for vacuum	–	No	–	
Nominal width	3.9 mm		3.5 mm	3.8 mm
Nominal flow rate standardized according to ISO 8778	655 l/min		560 l/min	630 l/min
Nominal flow rate standardized according to ISO 8778 exhaust 2-3	670 l/min		600 l/min	635 l/min
b-value	0.4		0.45	0.46
C value	2.36 l/sbar		1.96 l/sbar	2.21 l/sbar
Operating pressure	0.4 ... 0.8 MPa	0.15 ... 0.8 MPa	0.4 ... 0.8 MPa	
Operating pressure	4 ... 8 bar	1.5 ... 8 bar	4 ... 8 bar	
Pilot pressure MPa	–	0.15 ... 0.8 MPa	–	
Pilot pressure	–	1.5 ... 8 bar	–	
Max. switching frequency	3	5	3	
On switching time	12	10	12	
Switching time off	11	15	11	
Product weight	74 g			

Datasheet

Technical data – 3/2-way valves, valve size 18 mm								
Valve function	2x3/2 closed, monostable				2x3/2 open monostable		2x3/2, open/closed, monostable	
Reset method	Mechanical spring		Pneumatic spring		Mechanical spring			
Pilot air supply port	External	Internal	External	Internal	External	Internal	External	Internal
Lap	Negative overlap							
Flow direction	Reversible	Non-reversible			Reversible	Non-reversible	Reversible	Non-reversible
Suitability for vacuum	Yes	–	No		Yes	–	Yes	–
Nominal width	5.3 mm	5.7 mm	5.3 mm	5.7 mm	5.4 mm	6.1 mm	5.4 mm	6 mm
Nominal flow rate standardized according to ISO 8778	1,080 l/min	1,415 l/min	1,080 l/min	1,415 l/min	1,100 l/min	1,640 l/min	1,100 l/min	1,565 l/min
Nominal flow rate standardized according to ISO 8778 exhaust 2-3	1,135 l/min	1,490 l/min	1,135 l/min	1,490 l/min	1,080 l/min	1,655 l/min	1,110 l/min	1,575 l/min
b-value	0.3	0.42	0.3	0.42	0.29	0.44	0.29	0.44
C value	4.36 l/sbar	5.13 l/sbar	4.36 l/sbar	5.13 l/sbar	4.63 l/sbar	5.86 l/sbar	4.63 l/sbar	5.61 l/sbar
Operating pressure	0 ... 0.8 MPa	0.4 ... 0.8 MPa	0.15 ... 0.8 MPa		0 ... 0.8 MPa	0.4 ... 0.8 MPa	0 ... 0.8 MPa	0.4 ... 0.8 MPa
Operating pressure	0 ... 8 bar	4 ... 8 bar	1.5 ... 8 bar		0 ... 8 bar	4 ... 8 bar	0 ... 8 bar	4 ... 8 bar
Pilot pressure MPa	0.2 ... 0.8 MPa	–	0.15 ... 0.8 MPa		0.2 ... 0.8 MPa	–	0.2 ... 0.8 MPa	–
Pilot pressure	2 ... 8 bar	–	1.5 ... 8 bar		2 ... 8 bar	–	2 ... 8 bar	–
Max. switching frequency	3		5		3			
On switching time	20		16		20			
Switching time off	23		30		23			
Product weight	134 g	117 g	134 g	117 g	134 g	117 g	134 g	117 g

Technical data – 5/2-way valves monostable, valve size 10 mm						
Reset method	Mechanical spring			Pneumatic spring		
Pilot air supply port	External	Internal		External	Internal	
Pneumatic connection	Flange/Sub-base	M5	M7	Flange/Sub-base	M5	M7
Lap	Negative overlap					
Flow direction	Reversible	Non-reversible				
Suitability for vacuum	Yes	–		Yes	–	
Nominal width	2.4 mm		3.1 mm	2.4 mm		3.1 mm
Nominal flow rate standardized according to ISO 8778	255 l/min	290 l/min	425 l/min	255 l/min	290 l/min	425 l/min
Nominal flow rate standardized according to ISO 8778 exhaust 2-3	230 l/min	240 l/min	430 l/min	230 l/min	240 l/min	430 l/min
b-value	0.46	0.55	0.49	0.46	0.55	0.49
C value	0.89 l/sbar	0.93 l/sbar	1.47 l/sbar	0.89 l/sbar	0.93 l/sbar	1.46 l/sbar
Operating pressure	-0.09 ... 0.8 MPa	0.25 ... 0.8 MPa		-0.09 ... 0.8 MPa	0.2 ... 0.8 MPa	
Operating pressure	-0.9 ... 8 bar	2.5 ... 8 bar		-0.9 ... 8 bar	2 ... 8 bar	
Pilot pressure MPa	0.25 ... 0.8 MPa	–		0.2 ... 0.8 MPa	–	
Pilot pressure	2.5 ... 8 bar	–		2 ... 8 bar	–	
Max. switching frequency	3 Hz			5 Hz		
On switching time	7 ms			8 ms		
Switching time off	20 ms			14 ms		
Product weight	41 g	35 g		41 g	35 g	

Datasheet

Technical data – 5/2-way valves monostable, valve size 14 mm		
Reset method	Mechanical spring	Pneumatic spring
Pilot air supply port	Internal	
Lap	Negative overlap	
Flow direction	Non-reversible	Non-reversible, Reversible
Suitability for vacuum	–	
Nominal width	4.3 mm	
Nominal flow rate standardized according to ISO 8778	850 l/min	
Nominal flow rate standardized according to ISO 8778 exhaust 2-3	770 l/min	
b-value	0.5	
C value	2.88 l/sbar	2.89 l/sbar
Operating pressure	0.25 ... 0.8 MPa	0.2 ... 0.8 MPa
Operating pressure	2.5 ... 8 bar	2 ... 8 bar
Pilot pressure MPa	–	
Pilot pressure	–	
Max. switching frequency	3 Hz	5 Hz
On switching time	7 ms	11 ms
Switching time off	26 ms	18 ms
Product weight	62 g	

Technical data – 5/2-way valves monostable, valve size 18 mm						
Reset method	Mechanical spring			Pneumatic spring		
Pilot air supply port	External	Internal		External	Internal	
Pneumatic connection	Flange/Sub-base	G1/8	G1/4	Flange/Sub-base	G1/8	G1/4
Lap	Negative overlap					
Flow direction	Reversible	Non-reversible			Non-reversible, Reversible	Non-reversible
Suitability for vacuum	Yes	–		Yes	–	
Nominal width	5.7 mm	4.3 mm	6.6 mm	5.7 mm	4.3 mm	6.6 mm
Nominal flow rate standardized according to ISO 8778	1,260 l/min	850 l/min	1,975 l/min	1,260 l/min	850 l/min	1,975 l/min
Nominal flow rate standardized according to ISO 8778 exhaust 2-3	1,200 l/min	770 l/min	2,010 l/min	1,200 l/min	770 l/min	2,010 l/min
b-value	0.34	0.5		0.34	0.5	
C value	5.02 l/sbar	2.88 l/sbar	6.73 l/sbar	5.02 l/sbar	2.89 l/sbar	6.73 l/sbar
Operating pressure	-0.09 ... 0.8 MPa	0.25 ... 0.8 MPa		-0.09 ... 0.8 MPa	0.2 ... 0.8 MPa	
Operating pressure	-0.9 ... 8 bar	2.5 ... 8 bar		-0.9 ... 8 bar	2 ... 8 bar	
Pilot pressure MPa	0.25 ... 0.8 MPa	–		0.2 ... 0.8 MPa	–	
Pilot pressure	2.5 ... 8 bar	–		2 ... 8 bar	–	
Max. switching frequency	3 Hz			5 Hz		
On switching time	11 ms	7 ms	11 ms	18 ms	11 ms	18 ms
Switching time off	54 ms	26 ms	54 ms	38 ms	18 ms	38 ms
Product weight	122 g	62 g	105 g	122 g	62 g	105 g

Datasheet

Technical data – 5/2-way valves bistable, valve size 10 mm			
Pilot air supply port	External	Internal	
Pneumatic connection	Flange/Sub-base	M5	M7
Lap	Negative overlap		
Flow direction	Reversible with restrictions		
Suitability for vacuum	Yes	–	
Nominal width	2.4 mm		3.1 mm
Nominal flow rate standardized according to ISO 8778	255 l/min	290 l/min	430 l/min
Nominal flow rate standardized according to ISO 8778 exhaust 2-3	230 l/min	235 l/min	435 l/min
b-value	0.46	0.55	0.49
C value	0.89 l/sbar	0.94 l/sbar	1.47 l/sbar
Operating pressure	-0.09 ... 0.8 MPa	0.15 ... 0.8 MPa	
Operating pressure	-0.9 ... 8 bar	1.5 ... 8 bar	
Pilot pressure MPa	0.15 ... 0.8 MPa	–	
Pilot pressure	1.5 ... 8 bar	–	
Max. switching frequency	5 Hz		
Changeover time	6 ms		
Product weight	53 g	47 g	

Technical data – 5/2-way valves bistable, valve size 14 mm		
Pilot air supply port	External	Internal
Lap	Negative overlap	
Flow direction	Reversible with restrictions	
Suitability for vacuum	Yes	–
Nominal width	3.9 mm	4.3 mm
Nominal flow rate standardized according to ISO 8778	595 l/min	855 l/min
Nominal flow rate standardized according to ISO 8778 exhaust 2-3	570 l/min	780 l/min
b-value	0.36	0.5
C value	2.35 l/sbar	2.9 l/sbar
Operating pressure	-0.09 ... 0.8 MPa	0.15 ... 0.8 MPa
Operating pressure	-0.9 ... 8 bar	1.5 ... 8 bar
Pilot pressure MPa	0.15 ... 0.8 MPa	–
Pilot pressure	1.5 ... 8 bar	–
Max. switching frequency	5 Hz	
Changeover time	7 ms	
Product weight	84 g	75 g

Datasheet

Technical data – 5/2-way valves bistable, valve size 18 mm		
Pilot air supply port	External	Internal
Lap	Negative overlap	
Flow direction	Reversible with restrictions	
Suitability for vacuum	Yes	–
Nominal width	5.7 mm	6.6 mm
Nominal flow rate standardized according to ISO 8778	1,260 l/min	1,975 l/min
Nominal flow rate standardized according to ISO 8778 exhaust 2-3	1,200 l/min	2,010 l/min
b-value	0.34	0.5
C value	5.02 l/sbar	6.73 l/sbar
Operating pressure	-0.09 ... 0.8 MPa	0.15 ... 0.8 MPa
Operating pressure	-0.9 ... 8 bar	1.5 ... 8 bar
Pilot pressure MPa	0.15 ... 0.8 MPa	–
Pilot pressure	1.5 ... 8 bar	–
Max. switching frequency	5 Hz	
Changeover time	8 ms	
Product weight	136 g	119 g

Technical data – 5/3-way valves, valve size 10 mm							
Valve function	5/3 exhausted			5/3-way, closed			
Pilot air supply port	External	Internal		External		Internal	
Pneumatic connection	Flange/Sub-base	M5	M7	Flange/Sub-base	M5		M7
Lap	Negative overlap			Positive overlap			
Flow direction	Reversible	Non-reversible		Reversible		Non-reversible	
Suitability for vacuum	Yes	–		Yes		–	
Nominal width	2.3 mm	2.2 mm	2.5 mm	2.1 mm			2.4 mm
Nominal flow rate standardized according to ISO 8778	230 l/min	225 l/min	260 l/min	190 l/min	205 l/min		265 l/min
Nominal flow rate standardized according to ISO 8778 exhaust 2-3	235 l/min	225 l/min	410 l/min	185 l/min	200 l/min		275 l/min
b-value	0.46	0.49	0.38	0.37	0.48		0.51
C value	0.82 l/sbar	0.78 l/sbar	0.97 l/sbar	0.71 l/sbar			0.89 l/sbar
Operating pressure	0 ... 0.8 MPa	0.4 ... 0.8 MPa		-0.09 ... 0.8 MPa		0.25 ... 0.8 MPa	
Operating pressure	0 ... 8 bar	4 ... 8 bar		-0.9 ... 8 bar		2.5 ... 8 bar	
Pilot pressure MPa	0.2 ... 0.8 MPa	–		0.25 ... 0.8 MPa		–	
Pilot pressure	2 ... 8 bar	–		2.5 ... 8 bar		–	
Max. switching frequency	3 Hz						
On switching time	10 ms			9 ms			
Switching time off	11 ms			26 ms			
Changeover time	10 ms			13 ms			
Product weight	53 g	47 g		53 g		47 g	

Datasheet

Technical data – 5/3-way valves, valve size 14 mm						
Valve function	5/3 exhausted			5/3-way, closed		
Pilot air supply port	External	Internal		External		Internal
Pneumatic connection	Flange/Sub-base	G1/8		Flange/Sub-base	G1/8	
Lap	Negative overlap			Positive overlap		
Flow direction	Reversible	Non-reversible		Reversible		Non-reversible
Suitability for vacuum	Yes	–		Yes		–
Nominal width	3.6 mm	3.9 mm		–	3.5 mm	
Nominal flow rate standardized according to ISO 8778	510 l/min	655 l/min		–	555 l/min	
Nominal flow rate standardized according to ISO 8778 exhaust 2-3	540 l/min	670 l/min		–	515 l/min	
b-value	0.33	0.4		–	0.47	
C value	2.05 l/sbar	2.34 l/sbar		–	1.94 l/sbar	
Operating pressure	0 ... 0.8 MPa	0.4 ... 0.8 MPa		-0.09 ... 0.8 MPa		0.25 ... 0.8 MPa
Operating pressure	0 ... 8 bar	4 ... 8 bar		-0.9 ... 8 bar		2.5 ... 8 bar
Pilot pressure MPa	0.2 ... 0.8 MPa	–		0.25 ... 0.8 MPa		–
Pilot pressure	2 ... 8 bar	–		2.5 ... 8 bar		–
Max. switching frequency	3 Hz					
On switching time	13 ms			10 ms		
Switching time off	12 ms			36 ms		
Changeover time	12 ms			18 ms		
Product weight	84 g	75 g		84 g	75 g	

Technical data – 5/3-way valves, valve size 18 mm						
Valve function	5/3 exhausted			5/3-way, closed		
Pilot air supply port	External	Internal		External		Internal
Pneumatic connection	Flange/Sub-base	G1/4		Flange/Sub-base	G1/4	
Lap	Negative overlap			Positive overlap		
Flow direction	Reversible	Non-reversible		Reversible		Non-reversible
Suitability for vacuum	Yes	–		Yes		–
Nominal width	5.3 mm	5.7 mm		–	5.4 mm	
Nominal flow rate standardized according to ISO 8778	1,080 l/min	1,415 l/min		–	1,265 l/min	
Nominal flow rate standardized according to ISO 8778 exhaust 2-3	1,135 l/min	1,490 l/min		–	1,200 l/min	
b-value	0.3	0.42		–	0.44	
C value	4.36 l/sbar	5.13 l/sbar		–	4.52 l/sbar	
Operating pressure	0 ... 0.8 MPa	0.4 ... 0.8 MPa		-0.09 ... 0.8 MPa		0.25 ... 0.8 MPa
Operating pressure	0 ... 8 bar	4 ... 8 bar		-0.9 ... 8 bar		2.5 ... 8 bar
Pilot pressure MPa	0.2 ... 0.8 MPa	–		0.25 ... 0.8 MPa		–
Pilot pressure	2 ... 8 bar	–		2.5 ... 8 bar		–
Max. switching frequency	3 Hz					
On switching time	20 ms			15 ms		
Switching time off	23 ms			84 ms		
Changeover time	20 ms			37 ms		
Product weight	136 g	119 g		136 g	119 g	

Datasheet

Operating and environmental conditions – valves	
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4], Inert gases
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4], Inert gases
Information on operating and pilot media	Ester oil < 0.1mg/m³, according to ISO 8573-1:2010 [-:-:2]; Operation with oil lubrication possible (required for further use)
Ambient temperature	-10 ... 60°C
Temperature of medium	-10 ... 60°C
Storage temperature	-20 ... 60°C
Relative air humidity	5 - 95%
Corrosion resistance class (CRC) 1)	2 - Moderate corrosion stress

1) More information at www.festo.com/x/topic/kbk

Operating and environmental conditions – 5/3-way valves						
Valve function	5/3 exhausted			5/3-way, closed		
Valve size	10 mm	14 mm	18 mm	10 mm	14 mm	18 mm
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4], Inert gases					
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4], Inert gases					
Information on operating and pilot media	Ester oil < 0.1mg/m³, according to ISO 8573-1:2010 [-:-:2]; Operation with oil lubrication possible (required for further use)					
Ambient temperature	-10 ... 60°C			-10 ... 50°C	-10 ... 60°C	-5 ... 60°C
Temperature of medium	-10 ... 60°C			-10 ... 50°C	-10 ... 60°C	-5 ... 60°C
Storage temperature	-20 ... 60°C					
Relative air humidity	5 - 95%					
Corrosion resistance class (CRC) 1)	2 - Moderate corrosion stress					

1) More information at www.festo.com/x/topic/kbk

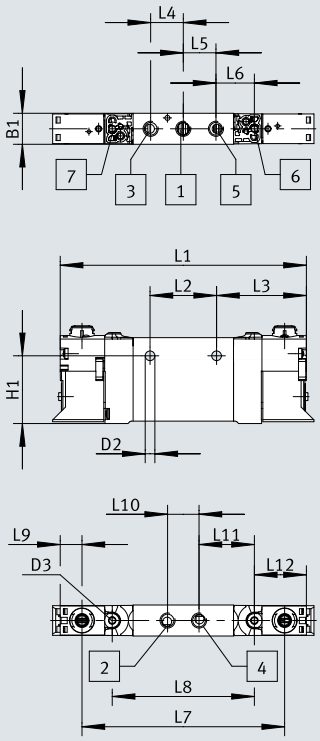
Materials – Valves	
Housing material	Wrought aluminum alloy, anodized
Material of spring	high-alloy stainless steel
Piston slide material	POM
Material of screws	high-alloy stainless steel
Seals material	HNBR; NBR
Material of dynamic seals	HNBR; TPE-U(PU)
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364 Zone III
For use in the food industry	NSF H1

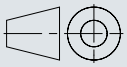
Materials – 5/3-way valves			
Valve size	10 mm	14 mm	18 mm
Housing material	Wrought aluminum alloy, anodized		
Material of spring	high-alloy stainless steel		
Piston slide material	Wrought aluminum alloy	POM	
Material of screws	high-alloy stainless steel		
Seals material	HNBR; NBR		
Material of dynamic seals	HNBR; TPE-U(PU)		
Note on materials	RoHS compliant		
LABS (PWIS) conformity	VDMA24364 Zone III		
For use in the food industry	NSF H1		

Dimensions

Dimensions – Sleeve valve in valve size 10 mm with two solenoid coils, internal control air supply

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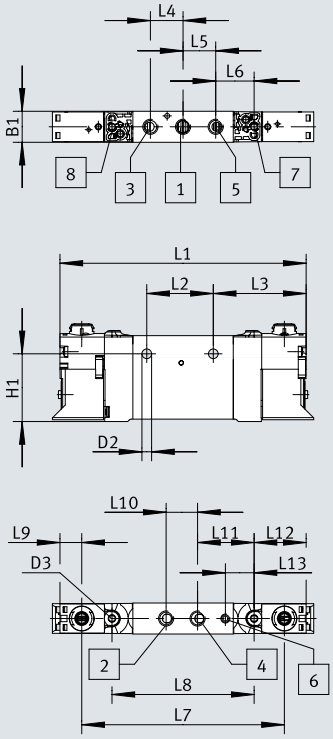
[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Connection 84 for pilot exhaust air
[7] Connection 82 for pilot exhaust air

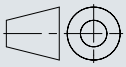
	B1	D2 ⌀	D3 ⌀	H1	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12
VUVX-L10-T32	10,3	3,2	2,2	22,4	81,4	22	29,7	10,8	10,8	12,7	67	47	7,2	10,4	18,3	17,2
VUVX-L10-B52																
VUVX-L10-P53																

Dimensions

Dimensions – Sleeve valve in valve size 10 mm with two solenoid coils, external pilot air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Port 12/14 for external pilot air supply
[7] Connection 84 for pilot exhaust air
[8] Connection 82 for pilot exhaust air

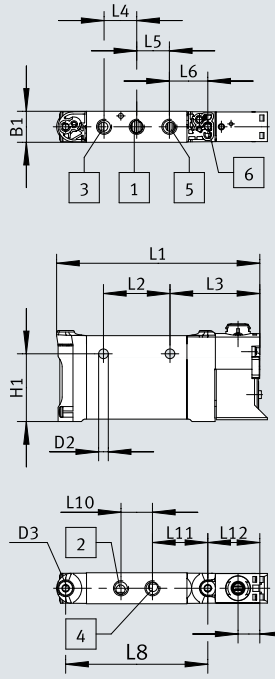
	B1	D2 ø	D3 ø	H1
VUVX-L10-T32...Z	10,3	3,2	2,2	22,4
VUVX-L10-B52...Z				
VUVX-L10-P53...Z				

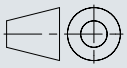
	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13
VUVX-L10-T32...Z	81,4	22	30,1	10,8	10,8	12,7	67	47	7,2	10,4	18,7	17,2	9,5
VUVX-L10-B52...Z													
VUVX-L10-P53...Z													

Dimensions

Dimensions – Sleeve valve in valve size 10 mm with a solenoid coil, internal control air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Connection 84 for pilot exhaust air

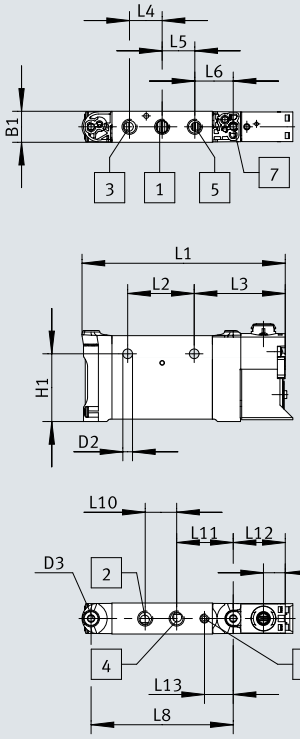
	B1	D2 ø	D3 ø	H1
VUVX-L10-M52	10,3	3,2	2,2	22,4

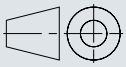
	L1	L2	L3	L4	L5	L6	L8	L9	L10	L11	L12
VUVX-L10-M52	67,2	22	29,7	10,8	10,8	12,7	47	7,2	10,4	18,3	17,2

Dimensions

Dimensions – Sleeve valve in valve size 10 mm with a solenoid coil, external pilot air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Port 12/14 for external pilot air supply
[7] Connection 84 for pilot exhaust air

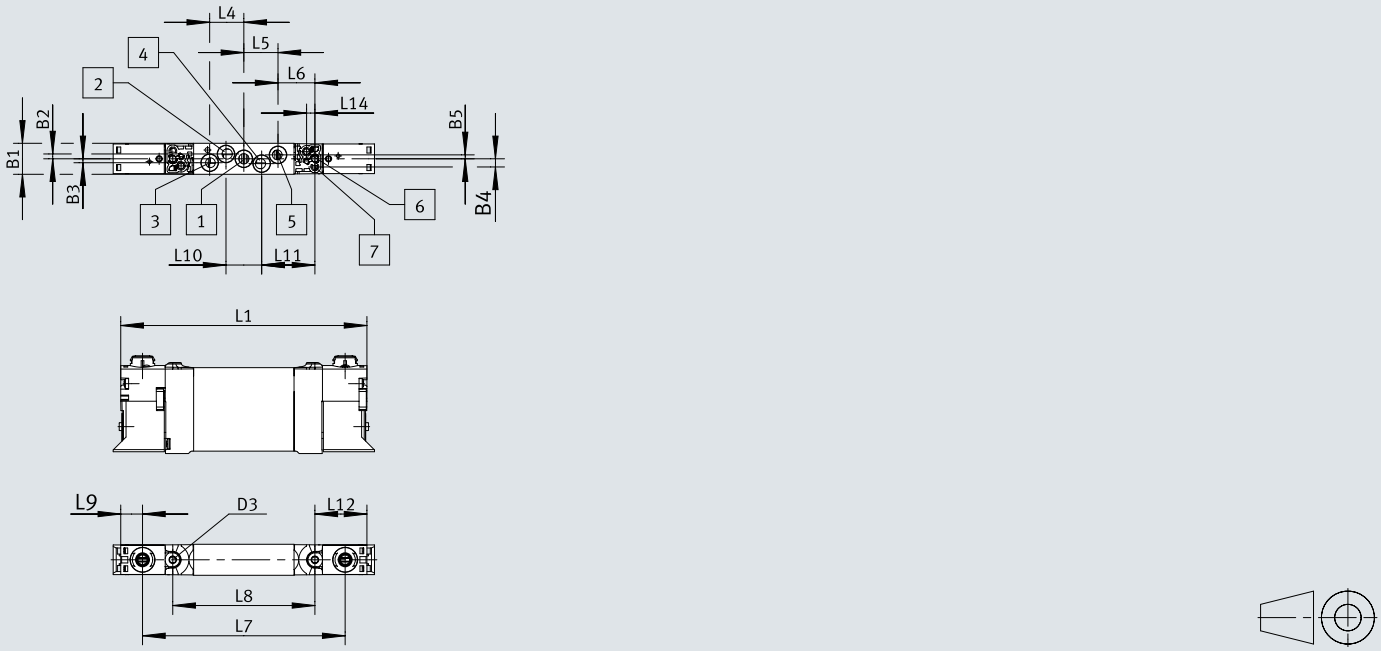
	B1	D2 Ø	D3 Ø	H1
VUVX-L10-M52...Z	10,3	3,2	2,2	22,4

	L1	L2	L3	L4	L5	L6	L8	L9	L10	L11	L12	L13
VUVX-L10-M52...Z	67,2	22	30,1	10,8	10,8	12,7	47	7,2	10,4	18,7	17,2	9,5

Dimensions

Dimensions – Manifold valve in valve size 10 mm with two solenoid coils, external pilot air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Connection 12/14 for pilot air supply
[7] Connection 82/84 for control exhaust

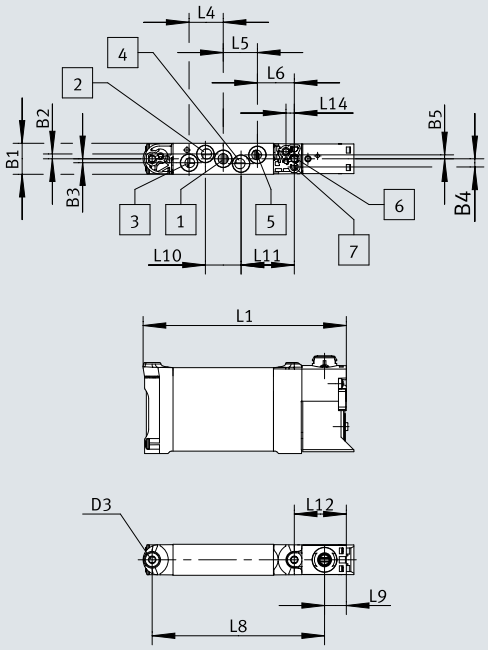
	B1	B2	B3	B4	B5	D3 ø
VUVX-B10-T32	10,3	1,6	1,3	2,7	2,4	2,2
VUVX-B10-B52						
VUVX-B10-P53						

	L1	L4	L5	L6	L7	L8	L9	L10	L11	L12	L14
VUVX-B10-T32	81,4	11,3	11,3	12,2	67	47	7,2	11,8	17,6	17,2	2,8
VUVX-B10-B52											
VUVX-B10-P53											

Dimensions

Dimensions – Manifold valve in valve size 10 mm with a solenoid coil, external control air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Connection 12/14 for pilot air supply
[7] Connection 82/84 for control exhaust

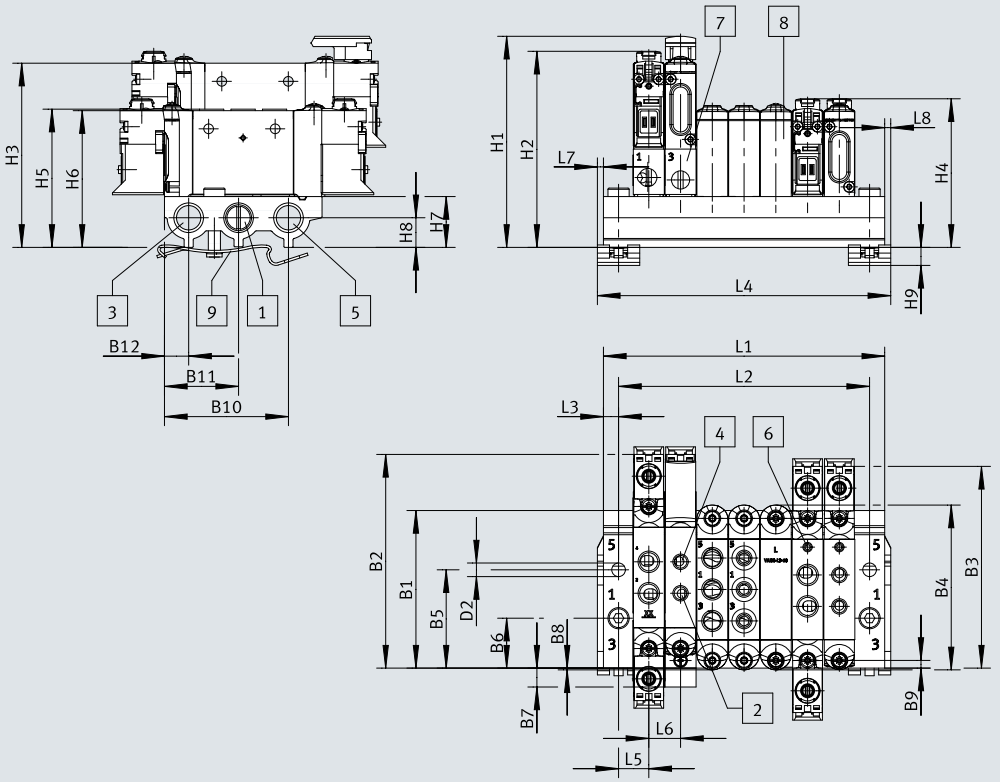
	B1	B2	B3	B4	B5	D3 ø
VUVX-B10-M52	10,3	1,6	1,3	2,7	2,4	2,2

	L1	L4	L5	L6	L8	L9	L10	L11	L12	L14
VUVX-B10-M52	67,2	11,3	11,3	12,2	47	7,2	11,8	17,6	17,2	2,8

Dimensions

Dimensions – Valve manifold assembly in valve size 10 mm with sleeve valves

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Port 12/14 for external pilot air supply
[7] Vertical supply/exhaust plate
[8] Cover plate for empty slot
[9] H-rail mounting

Dimensions

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
VTIX-10	52,1	70,7	66,7	54,5	32,5	16,5	6,3	0,6	2,5	41	24,5	8

	D2 Ø	H1	H2	H3	H4	H5	H6	H7	H8	H9
VTIX-10	4,5	69,8	64,8	60,9	49,1	45,7	45,2	16,8	9,8	6

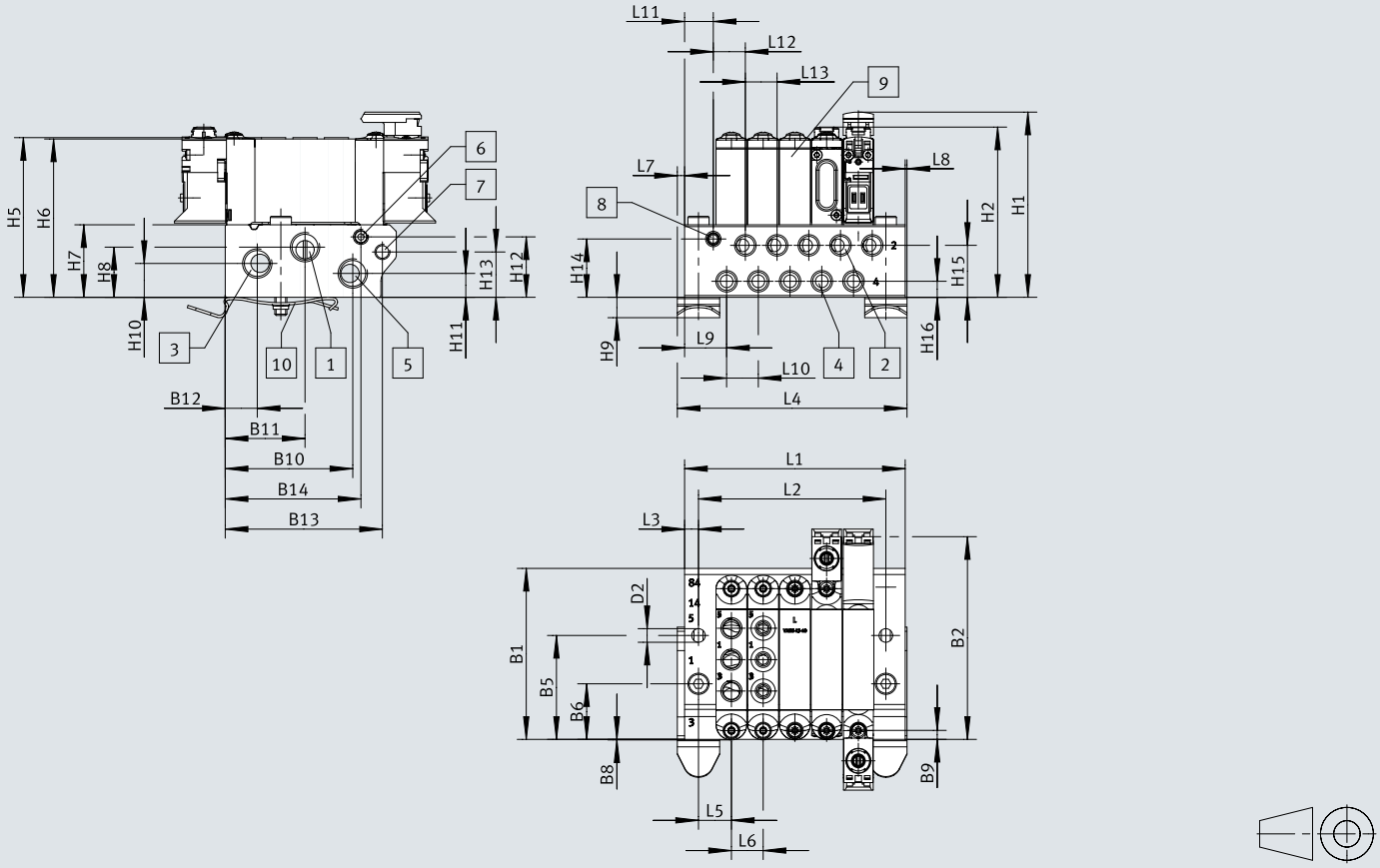
	L3	L5	L6	L7	L8
VTIX-10	5	10	10,5	2	2

	L1	L2	L4
VABM-L1-10S-...-2	40,5	40,5	44,5
VABM-L1-10S-...-3	51	51	55
VABM-L1-10S-...-4	61,5	61,5	65,5
VABM-L1-10S-...-5	72	72	76
VABM-L1-10S-...-6	82,5	82,5	86,5
VABM-L1-10S-...-7	93	93	97
VABM-L1-10S-...-8	103,5	103,5	107,5
VABM-L1-10S-...-9	114	114	118
VABM-L1-10S-...-10	124,5	124,5	128,5
VABM-L1-10S-...-12	145,5	145,5	149,5
VABM-L1-10S-...-14	166,5	166,5	170,5
VABM-L1-10S-...-16	187,5	187,5	191,5
VABM-L1-10S-...-22	250,5	250,5	254,5

Dimensions

Dimensions – Valve manifold assembly in valve size 10 mm with sub-base valves

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Port 12/14 for external pilot air supply
[7] Connection 82/84 for control exhaust
[8] Switching control air supply
[9] Cover plate for empty slot
[10] H-rail mounting

Dimensions

	B1	B2	B5	B6	B8	B9	B10	B11	B12	B13	B14
VTIX-10	56,6	67,1	34,4	18,4	0,2	2,9	42,2	26,4	10,6	52	44,9

	D2 Ø	H1	H2	H5	H6	H7	H8	H9	H10	H11	H12	H13	H14	H15	H16
VTIX-10	4,5	61,3	56,3	52,9	52,4	24	16,6	6,8	11,2	7,9	20	15	19,3	17,2	5,3

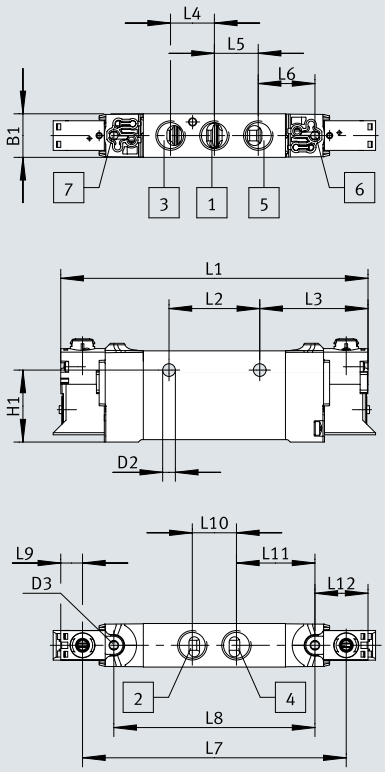
	L3	L5	L6	L7	L8	L9	L10	L11	L12	L13
VTIX-10	4,6	10,9	10,5	2,4	0,6	13,9	10,5	9,5	10,6	10,5

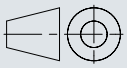
	L1	L2	L4
VABM-L3-10W-...-2	41,5	30,5	44,5
VABM-L3-10W-...-3	52	41	55
VABM-L3-10W-...-4	62,5	51,5	65,5
VABM-L3-10W-...-5	73	62	76
VABM-L3-10W-...-6	83,5	72,5	86,5
VABM-L3-10W-...-7	94	83	97
VABM-L3-10W-...-8	104,5	93,5	107,5
VABM-L3-10W-...-9	115	104	118
VABM-L3-10W-...-10	125,5	114,5	128,5
VABM-L3-10W-...-12	146,5	135,5	149,5
VABM-L3-10W-...-14	167,5	156,5	170,5
VABM-L3-10W-...-16	188,5	177,5	191,5

Dimensions

Dimensions – Sleeve valve in valve size 14 mm with two solenoid coils, internal control air supply

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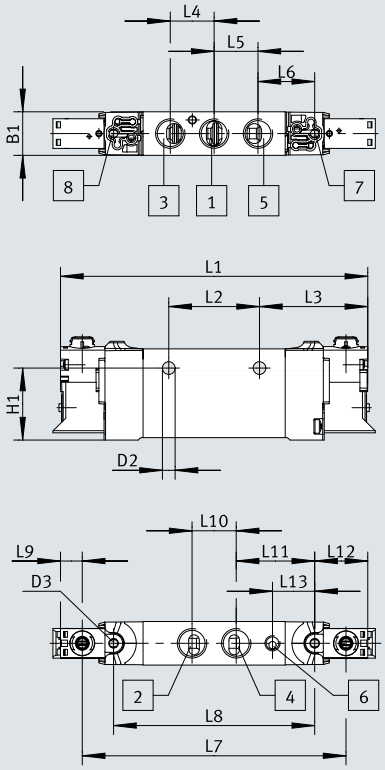
[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Connection 84 for pilot exhaust air
[7] Connection 82 for pilot exhaust air

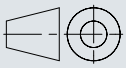
	B1	D2 ø	D3 ø	H1	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12
VUVX-L14-T32	14,4	4,2	2,8	23,8	101,6	30	35,8	14,5	14,5	18,8	87,2	66,5	7,2	14,6	26	17,6
VUVX-L14-B52																
VUVX-L14-P53																

Dimensions

Dimensions – Socket valve in valve size 14 mm with two solenoid coils, external pilot air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Port 12/14 for external pilot air supply
[7] Connection 84 for pilot exhaust air
[8] Connection 82 for pilot exhaust air

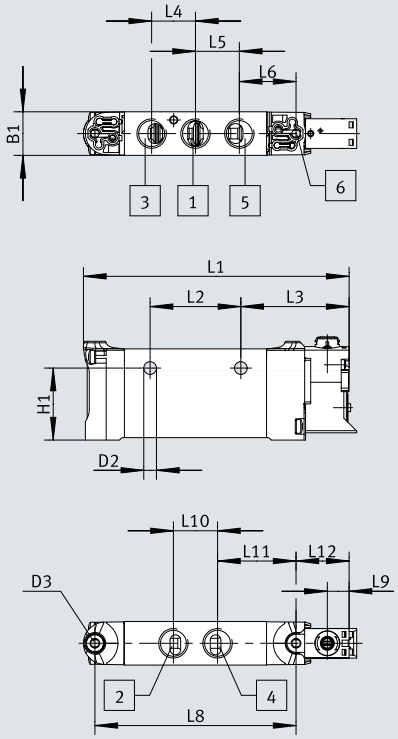
	B1	D2 ø	D3 ø	H1
VUVX-L14-T32...Z	10,3	4,2	2,8	23,8
VUVX-L14-B52...Z				
VUVX-L14-P53...Z				

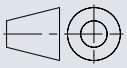
	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13
VUVX-L14-T32...Z	101,6	30	35,8	14,5	14,5	18,8	87,2	66,5	7,2	14,6	26	17,6	14
VUVX-L14-B52...Z													
VUVX-L14-P53...Z													

Dimensions

Dimensions – Sleeve valve in valve size 14 mm with a solenoid coil, internal control air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Connection 84 for pilot exhaust air

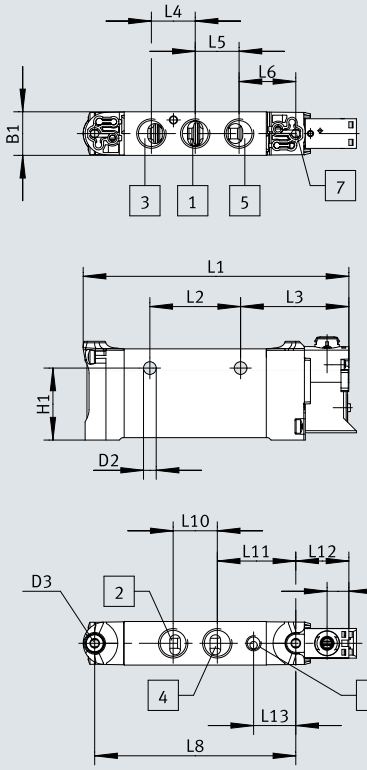
	B1	D2 ø	D3 ø	H1
VUVX-L14-M52	14,4	4,2	2,8	23,8

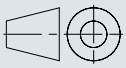
	L1	L2	L3	L4	L5	L6	L8	L9	L10	L11	L12
VUVX-L14-M52	87,8	30	35,8	14,5	14,5	18,8	66,5	7,2	14,6	26	17,6

Dimensions

Dimensions – Sleeve valve in valve size 14 mm with a solenoid coil, external pilot air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Port 12/14 for external pilot air supply
[7] Connection 84 for pilot exhaust air

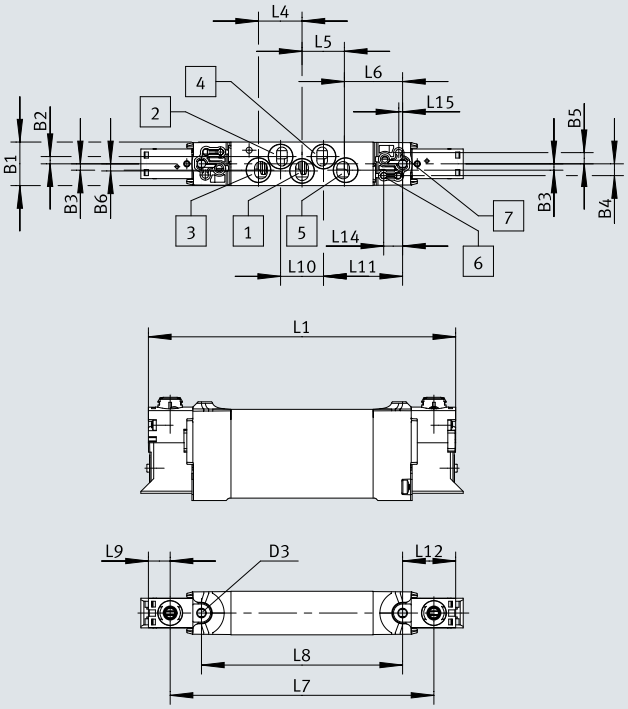
	B1	D2 ø	D3 ø	H1
VUVX-L14-M52...Z	14,4	4,2	2,8	23,8

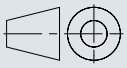
	L1	L2	L3	L4	L5	L6	L8	L9	L10	L11	L12	L13
VUVX-L14-M52...Z	87,8	30	35,8	14,5	14,5	18,8	66,5	7,2	14,6	26	17,6	14

Dimensions

Dimensions – Manifold valve in valve size 14 mm with two solenoid coils, external pilot air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Connection 12/14 for pilot air supply
[7] Connection 82/84 for control exhaust

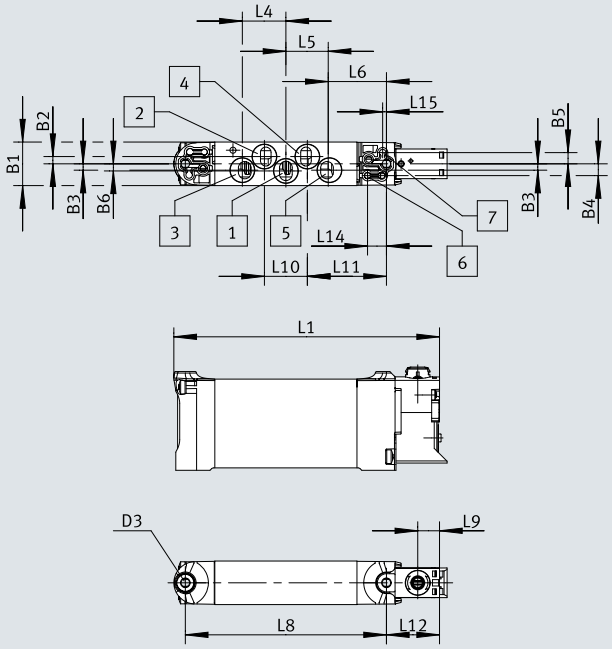
	B1	B2	B3	B4	B5	B6	D3 ø
VUVX-B14-T32	14,4	2,4	2,1	3,9	3,7	2,4	2,8
VUVX-B14-B52							
VUVX-B14-P53							

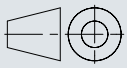
	L1	L4	L5	L6	L7	L8	L9	L10	L11	L12	L14	L15
VUVX-B14-T32	101,6	14,4	14,4	18,9	87,2	66,5	7,2	14,2	26,2	17,6	6,3	1,3
VUVX-B14-B52												
VUVX-B14-P53												

Dimensions

Dimensions – Manifold valve in valve size 14 mm with a solenoid coil, external control air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Connection 12/14 for pilot air supply
[7] Connection 82/84 for control exhaust

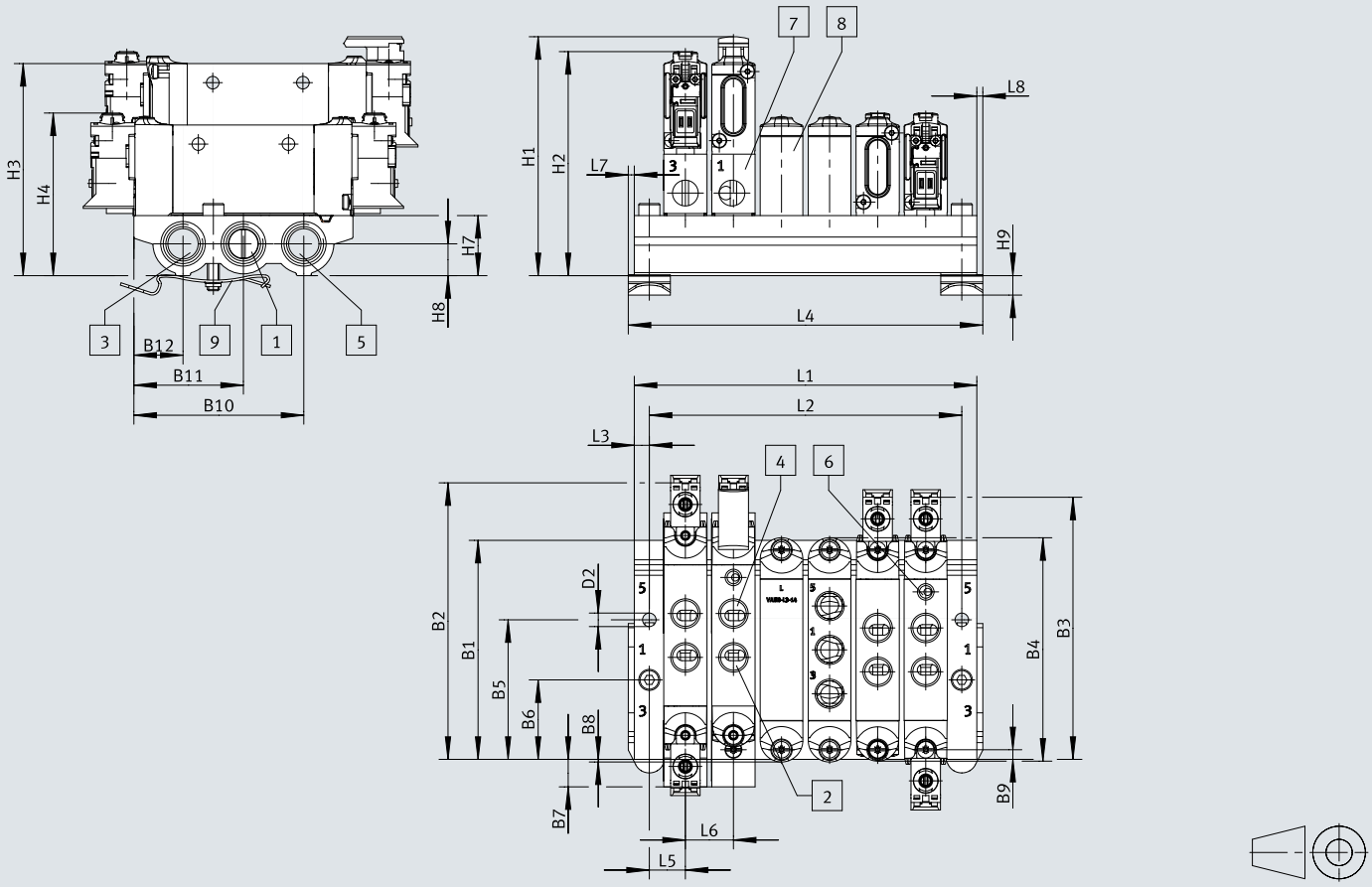
	B1	B2	B3	B4	B5	B6	D3 ø
VUVX-B14-M52	14,4	2,4	2,1	3,9	3,7	2,4	2,8

	L1	L4	L5	L6	L8	L9	L10	L11	L12	L14	L15
VUVX-B14-M52	87,8	14,4	14,4	18,9	66,5	7,2	14,2	26,2	17,6	6,3	1,3

Dimensions

Dimensions – Valve manifold assembly in valve size 14 mm with sleeve valves

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Port 12/14 for external pilot air supply
[7] Vertical supply/exhaust plate
[8] Cover plate for empty slot
[9] H-rail mounting

Dimensions

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
VTIX-14	72,9	92,1	87,3	74,6	46,5	26,5	9,2	0,9	3,2	56,6	36,5	16,4

	D2 ø	H1	H2	H3	H4	H7	H8	H9
VTIX-14	4,5	79,5	74,6	70,6	54,1	20	10,6	6,5

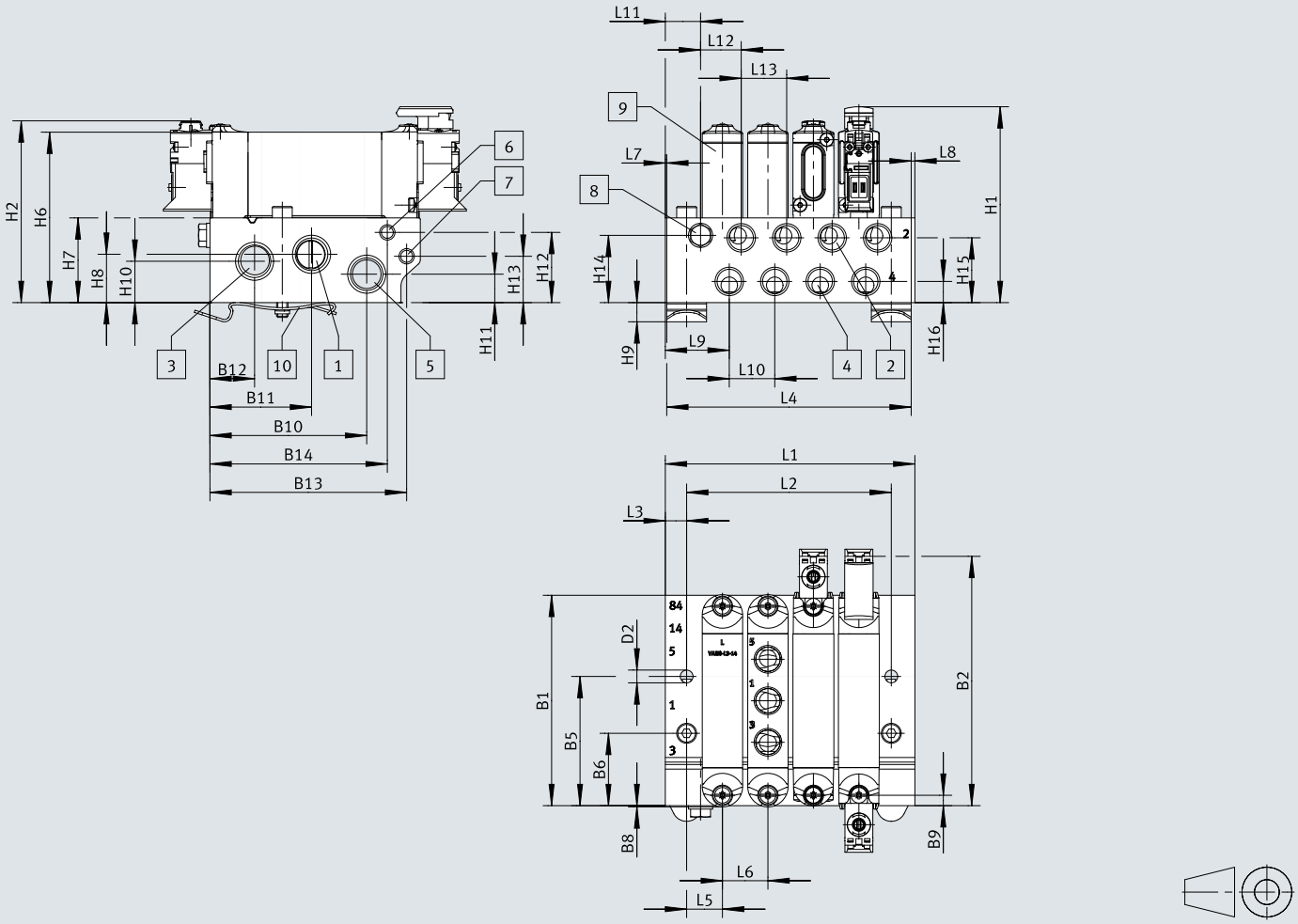
	L3	L5	L6	L7	L8
VTIX-14	5	12	16	2	2

	L1	L2	L4
VABM-L1-14S-...-2	50	40	54
VABM-L1-14S-...-3	66	56	70
VABM-L1-14S-...-4	82	72	86
VABM-L1-14S-...-5	98	88	102
VABM-L1-14S-...-6	114	104	118
VABM-L1-14S-...-7	130	120	134
VABM-L1-14S-...-8	146	136	150
VABM-L1-14S-...-9	162	152	166
VABM-L1-14S-...-10	178	168	182
VABM-L1-14S-...-12	210	200	214
VABM-L1-14S-...-14	242	232	246
VABM-L1-14S-...-16	274	264	278

Dimensions

Dimensions – Valve manifold assembly in valve size 14 mm with sub-base valves

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Connection 12/14 for pilot air supply
[7] Connection 82/84 for control exhaust
[8] Switching control air supply
[9] Cover plate for empty slot
[10] H-rail mounting

Dimensions

	B1	B2	B5	B6	B8	B9	B10	B11	B12	B13	B14
VTIX-14	74	87,7	45,5	25,5	0,4	3,7	55,2	35,8	15,7	69,2	62,4

	D2 Ø	H1	H2	H5	H6	H7	H8	H9	H10	H11	H12	H13	H14	H15	H16
VTIX-14	4,5	68,9	63,9	52,9	60	29,8	17	6,8	14,6	10	24,7	13,5	23,7	22,8	7,5

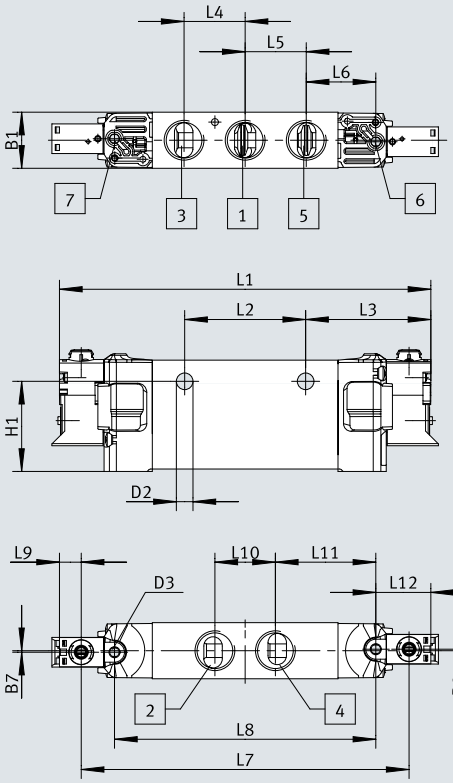
	L3	L5	L6	L7	L8	L9	L10	L11	L12	L13
VTIX-14	7,5	12,6	16	0,5	1,3	22,5	16	12,4	14,3	16

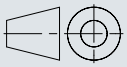
	L1	L2	L4
VABM-L3-14W-...-2	55,8	40	54
VABM-L3-14W-...-3	71,8	56	70
VABM-L3-14W-...-4	87,8	72	86
VABM-L3-14W-...-5	103,8	88	102
VABM-L3-14W-...-6	119,8	104	118
VABM-L3-14W-...-7	135,8	120	134
VABM-L3-14W-...-8	151,8	136	150
VABM-L3-14W-...-9	167,8	152	166
VABM-L3-14W-...-10	183,8	168	182
VABM-L3-14W-...-12	215,8	200	214
VABM-L3-14W-...-14	247,8	232	246
VABM-L3-14W-...-16	279,8	264	278

Dimensions

Dimensions – Sleeve valve in valve size 18 mm with two solenoid coils, internal control air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Connection 84 for pilot exhaust air
[7] Connection 82 for pilot exhaust air

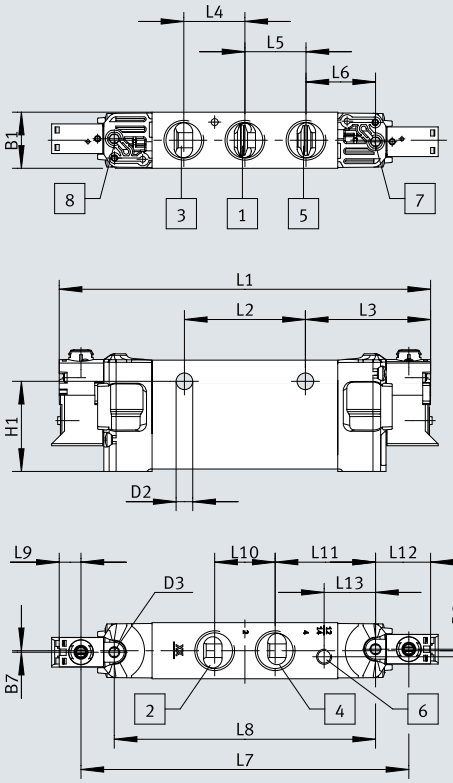
	B1	B7	B8	D2 ø	D2 ø	H1
VUVX-L18-T32	18,6	0,5	0,5	5,5	3,2	29,8
VUVX-L18-B52						
VUVX-L18-P53						

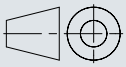
	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12
VUVX-L18-T32	122,8	40	41,4	20,2	20,2	23	108,4	86,4	7,2	20	33,2	18,2
VUVX-L18-B52												
VUVX-L18-P53												

Dimensions

Dimensions – Sleeve valve in valve size 18 mm with two solenoid coils, external pilot air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Port 12/14 for external pilot air supply
[7] Connection 84 for pilot exhaust air
[8] Connection 82 for pilot exhaust air

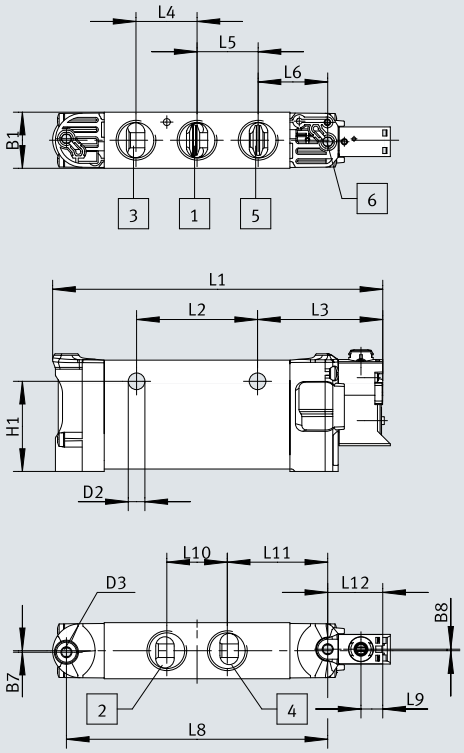
	B1	B7	B8	B9	D2 ø	D3 ø	H1
VUVX-L18-T32...Z	18,6	0,5	0,5	2	5,5	3,2	29,8
VUVX-L18-B52...Z							
VUVX-L18-P53...Z							

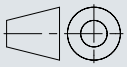
	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13
VUVX-L18-T32...Z	122,8	40	41,4	20,2	20,2	23	108,4	86,4	7,2	20	33,2	18,2	17
VUVX-L18-B52...Z													
VUVX-L18-P53...Z													

Dimensions

Dimensions – Sleeve valve in valve size 18 mm with a solenoid coil, internal control air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Connection 84 for pilot exhaust air

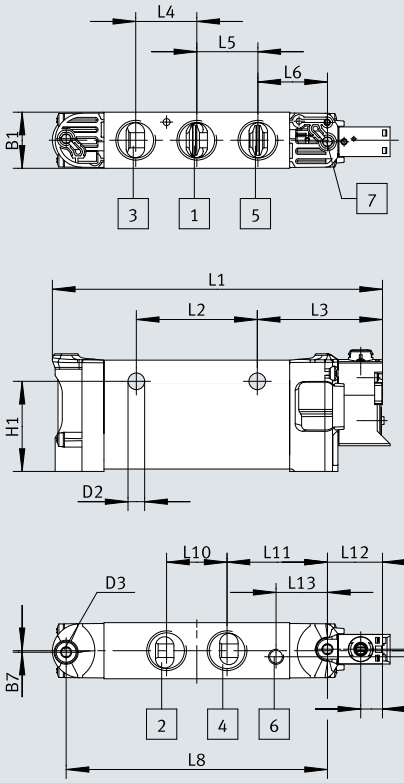
	B1	B7	B8	D2 ø	D3 ø	H1
VUVX-L18-M52	18,6	0,5	0,5	5,5	3,2	29,8

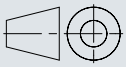
	L1	L2	L3	L4	L5	L6	L8	L9	L10	L11	L12
VUVX-L18-M52	109,2	40	41,4	20,2	20,2	23	86,4	7,2	20	33,2	18,2

Dimensions

Dimensions – Sleeve valve in valve size 18 mm with a solenoid coil, external pilot air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Port 12/14 for external pilot air supply
[7] Connection 84 for pilot exhaust air

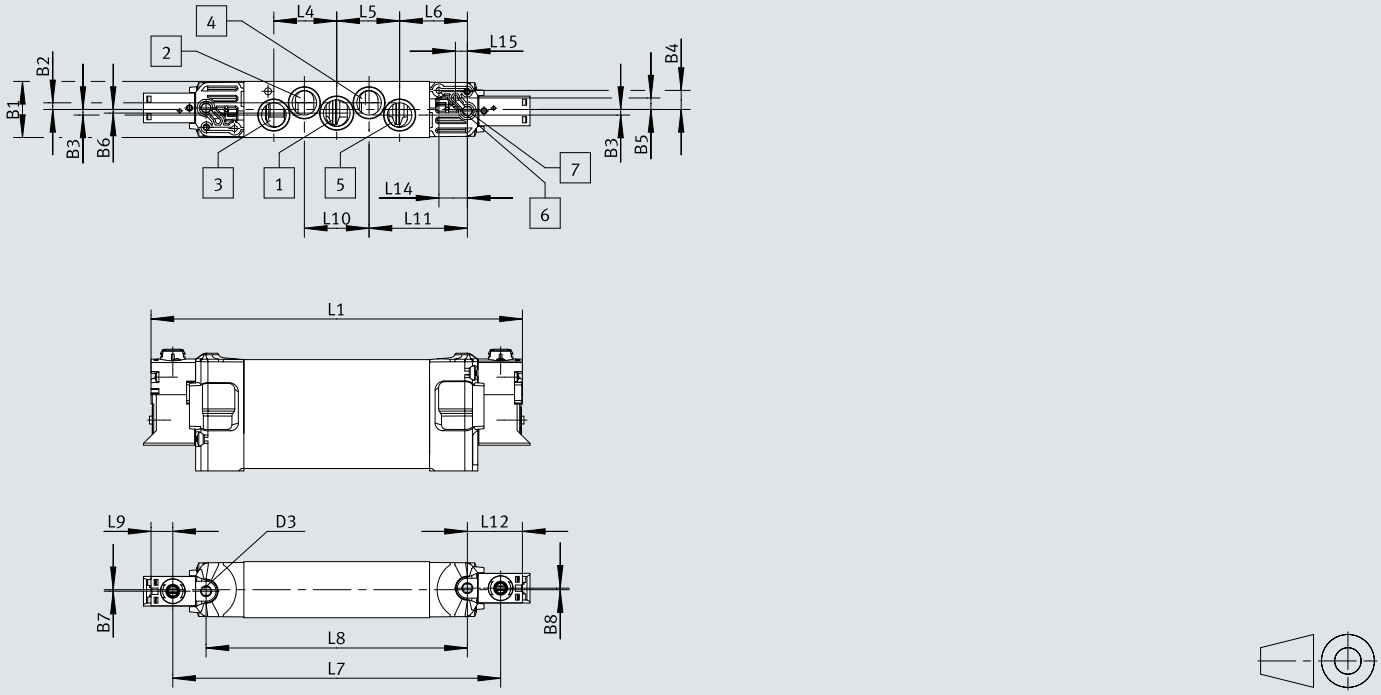
	B1	B7	B8	B9	D2 ø	D3 ø	H1
VUVX-L18-M52...Z	18,6	0,5	0,5	2	5,5	3,2	29,8

	L1	L2	L3	L4	L5	L6	L8	L9	L10	L11	L12	L13
VUVX-L18-M52...Z	109,2	40	41,4	20,2	20,2	23	86,4	7,2	20	33,2	18,2	17

Dimensions

Dimensions – Manifold valve in valve size 18 mm with two solenoid coils, external pilot air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Connection 12/14 for pilot air supply
[7] Connection 82/84 for control exhaust

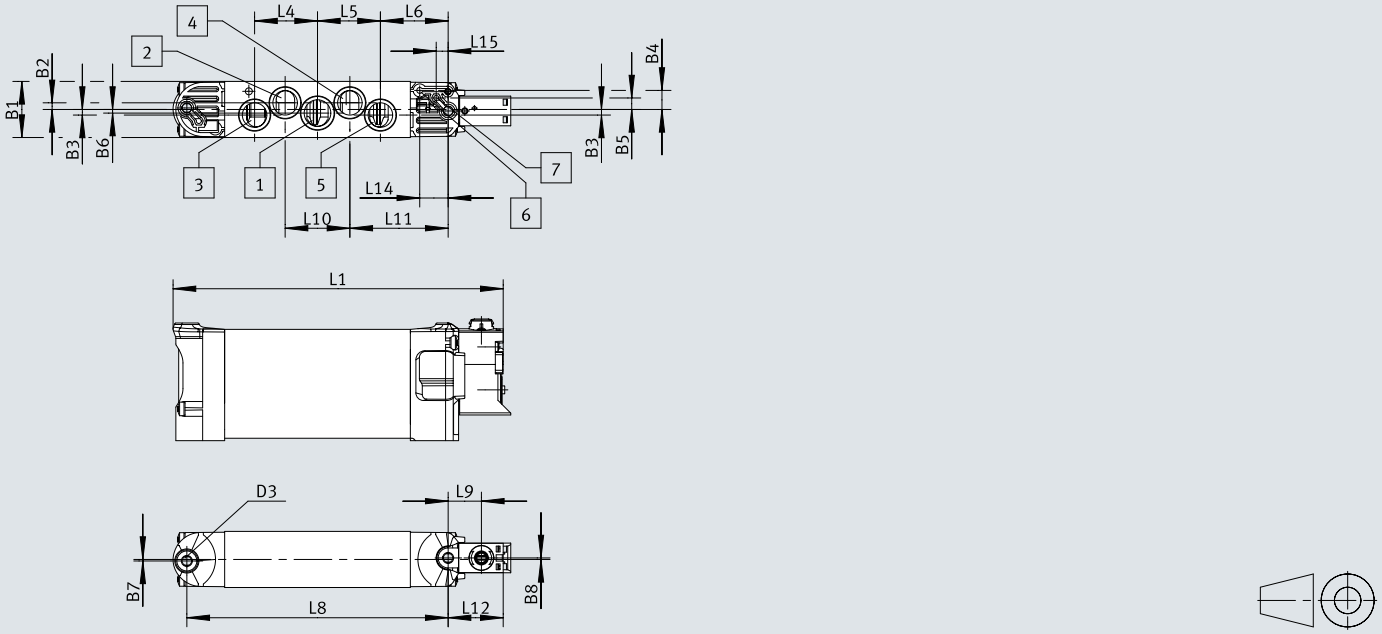
	B1	B2	B3	B4	B5	B6	B7	B8	D3 ø
VUVX-B18-T32	18,6	2,2	1,9	6,8	4,3	1,2	0,5	0,5	3,2
VUVX-B18-B52									
VUVX-B18-P53									

	L1	L4	L5	L6	L7	L8	L9	L10	L11	L12	L14	L15
VUVX-B18-T32	122,8	20,8	20,8	22,4	108,4	86,4	7,2	21,4	32,5	18,2	9,4	4
VUVX-B18-B52												
VUVX-B18-P53												

Dimensions

Dimensions – Manifold valve in valve size 18 mm with a solenoid coil, external control air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Connection 12/14 for pilot air supply
[7] Connection 82/84 for control exhaust

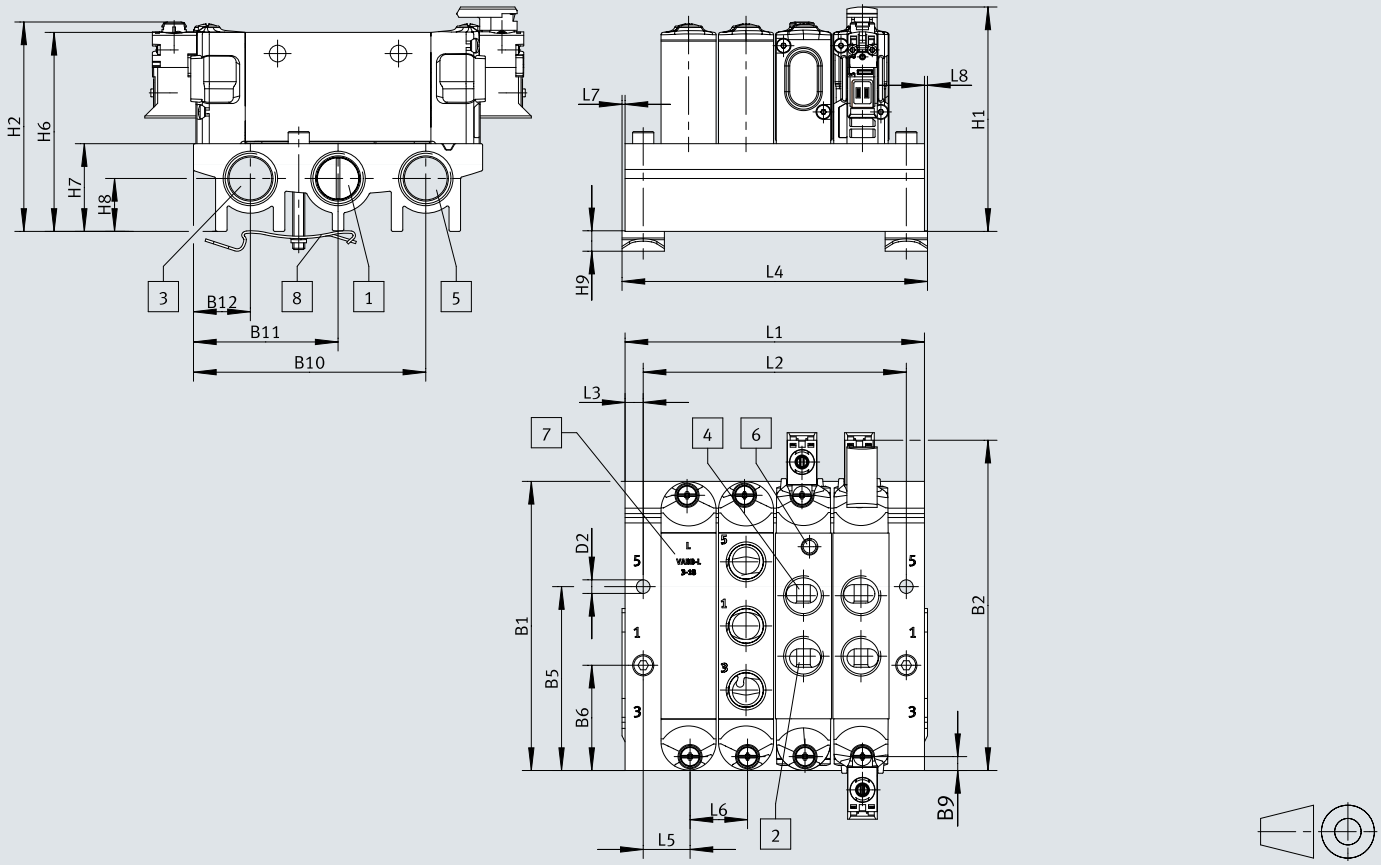
	B1	B2	B3	B4	B5	B6	B7	B8	D3 ø
VUVX-B18-M52	18,6	2,2	1,9	6,8	4,3	1,2	0,5	0,5	5,5

	L1	L4	L5	L6	L8	L9	L10	L11	L12	L14	L15
VUVX-B18-M52	109,2	20,8	20,8	22,4	86,4	7,2	21,4	32,5	18,2	9,4	4

Dimensions

Dimensions – Valve manifold assembly in valve size 18 mm with sleeve valves

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Port 12/14 for external pilot air supply
[7] Cover plate for empty slot
[8] H-rail mounting

Dimensions

	B1	B2	B5	B6	B8	B9	B10	B11	B12
VTIX-18	95,6	109,2	60,8	34,8	0,2	4,6	76,8	47,8	18,8

	D2 Ø	H1	H2	H6	H7	H8	H9
VTIX-18	4,5	74,2	69,2	65,8	29	17,5	6,6

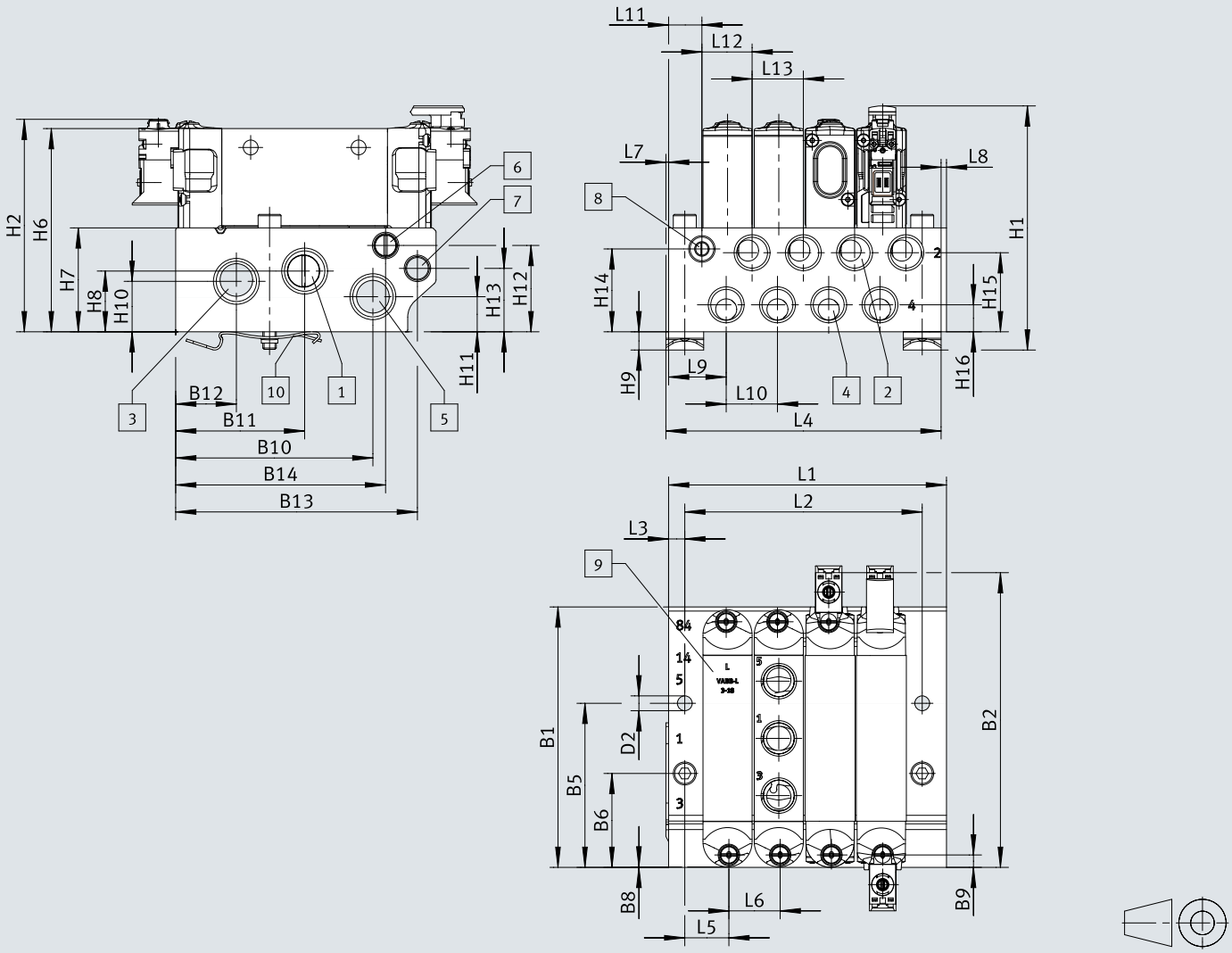
	L3	L5	L6	L7	L8
VTIX-18	6	15,5	19	1	1

	L1	L2	L4
VABM-L1-18S-...-2	65	53	67
VABM-L1-18S-...-3	84	72	86
VABM-L1-18S-...-4	103	91	105
VABM-L1-18S-...-5	122	110	124
VABM-L1-18S-...-6	141	129	143
VABM-L1-18S-...-7	160	148	162
VABM-L1-18S-...-8	179	167	181
VABM-L1-18S-...-9	198	186	200
VABM-L1-18S-...-10	217	205	219
VABM-L1-18S-...-12	255	243	257
VABM-L1-18S-...-14	293	281	295
VABM-L1-18S-...-16	331	319	333

Dimensions

Dimensions – Valve manifold assembly in valve size 18 mm with sub-base valves

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Connection 12/14 for pilot air supply
[7] Connection 82/84 for control exhaust
[8] Switching control air supply
[9] Cover plate for empty slot
[10] H-rail mounting

Dimensions

	B1	B2	B5	B6	B8	B9	B10	B11	B12	B13	B14
VTIX-18	96,5	109,2	60,8	34,8	0,2	4,6	73,1	47,8	22,5	89,6	77,8

	D2 Ø	H1	H2	H6	H7	H8	H9	H10	H11	H12	H13	H14	H15	H16
VTIX-18	4,5	83,8	78,7	75,3	38,5	22,5	6,8	18,7	13	32	23,5	30,7	29,3	10

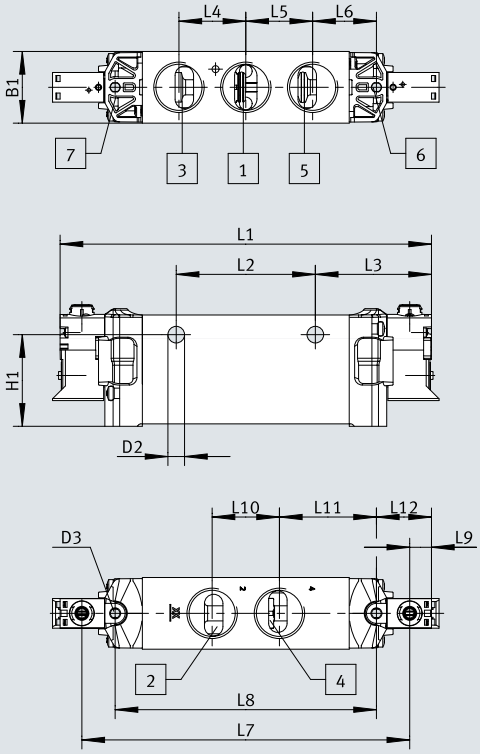
	L3	L5	L6	L7	L8	L9	L10	L11	L12	L13
VTIX-18	6	16,4	19	1	2	21,4	19	12,4	18,6	19

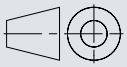
	L1	L2	L4
VABM-L3-18W-...-2	61	49	60
VABM-L3-18W-...-3	80	68	79
VABM-L3-18W-...-4	99	87	98
VABM-L3-18W-...-5	118	106	117
VABM-L3-18W-...-6	137	125	136
VABM-L3-18W-...-7	156	144	155
VABM-L3-18W-...-8	175	163	174
VABM-L3-18W-...-9	194	182	193
VABM-L3-18W-...-10	213	201	212
VABM-L3-18W-...-12	251	239	250
VABM-L3-18W-...-14	289	277	288
VABM-L3-18W-...-16	327	315	326

Dimensions

Dimensions – Sleeve valve in valve size 24 mm with two solenoid coils, internal control air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Connection 84 for pilot exhaust air
[7] Connection 82 for pilot exhaust air

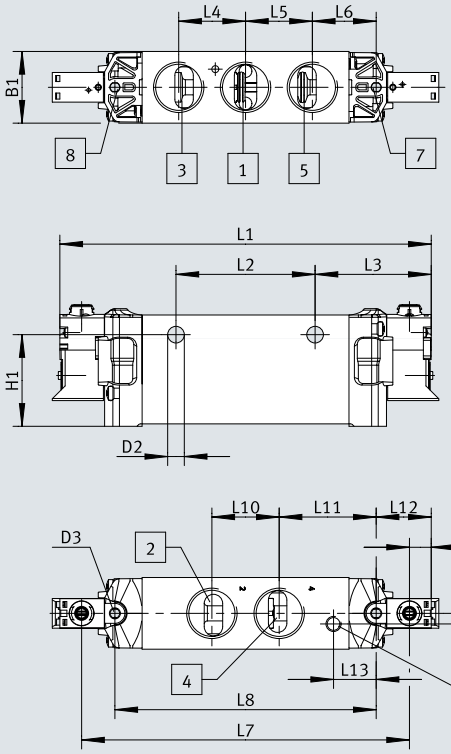
	B1	D2 Ø	D3 Ø	H1
VUVX-L24-T32	23,7	5,5	3,2	30,3
VUVX-L24-B52				
VUVX-L24-P53				

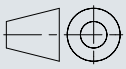
	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12
VUVX-L24-T32	122,8	46	38,4	22,1	22,1	21,1	108,4	86,4	7,2	22,3	32,1	18,2
VUVX-L24-B52												
VUVX-L24-P53												

Dimensions

Dimensions – Socket valve in valve size 24 mm with two solenoid coils, external pilot air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Port 12/14 for external pilot air supply
[7] Connection 84 for pilot exhaust air
[8] Connection 82 for pilot exhaust air

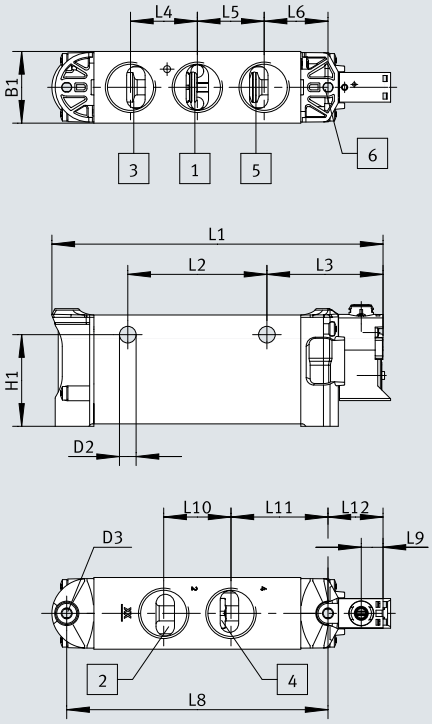
	B1	B9	D2 ø	D3 ø	H1
VUVX-L24-T32...Z	18,6	3,5	5,5	3,2	30,3
VUVX-L24-B52...Z					
VUVX-L24-P53...Z					

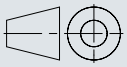
	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13
VUVX-L24-T32...Z	122,8	46	38,4	22,1	22,1	21,1	108,4	86,4	7,2	22,3	32,1	18,2	14,1
VUVX-L24-B52...Z													
VUVX-L24-P53...Z													

Dimensions

Dimensions – Sleeve valve in valve size 24 mm with a solenoid coil, internal control air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Connection 84 for pilot exhaust air

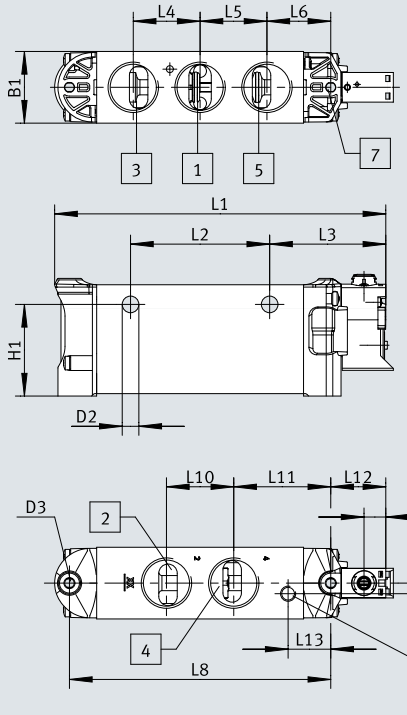
	B1	D2 ø	D3 ø	H1
VUVX-L24-M52	23,7	5,5	3,2	30,3

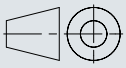
	L1	L2	L3	L4	L5	L6	L8	L9	L10	L11	L12
VUVX-L24-M52	109,5	46	38,4	22,1	22,1	21,1	86,4	7,2	22,3	32,1	18,2

Dimensions

Dimensions – Sleeve valve in valve size 24 mm with a solenoid coil, external pilot air supply

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Port 12/14 for external pilot air supply
[7] Connection 84 for pilot exhaust air

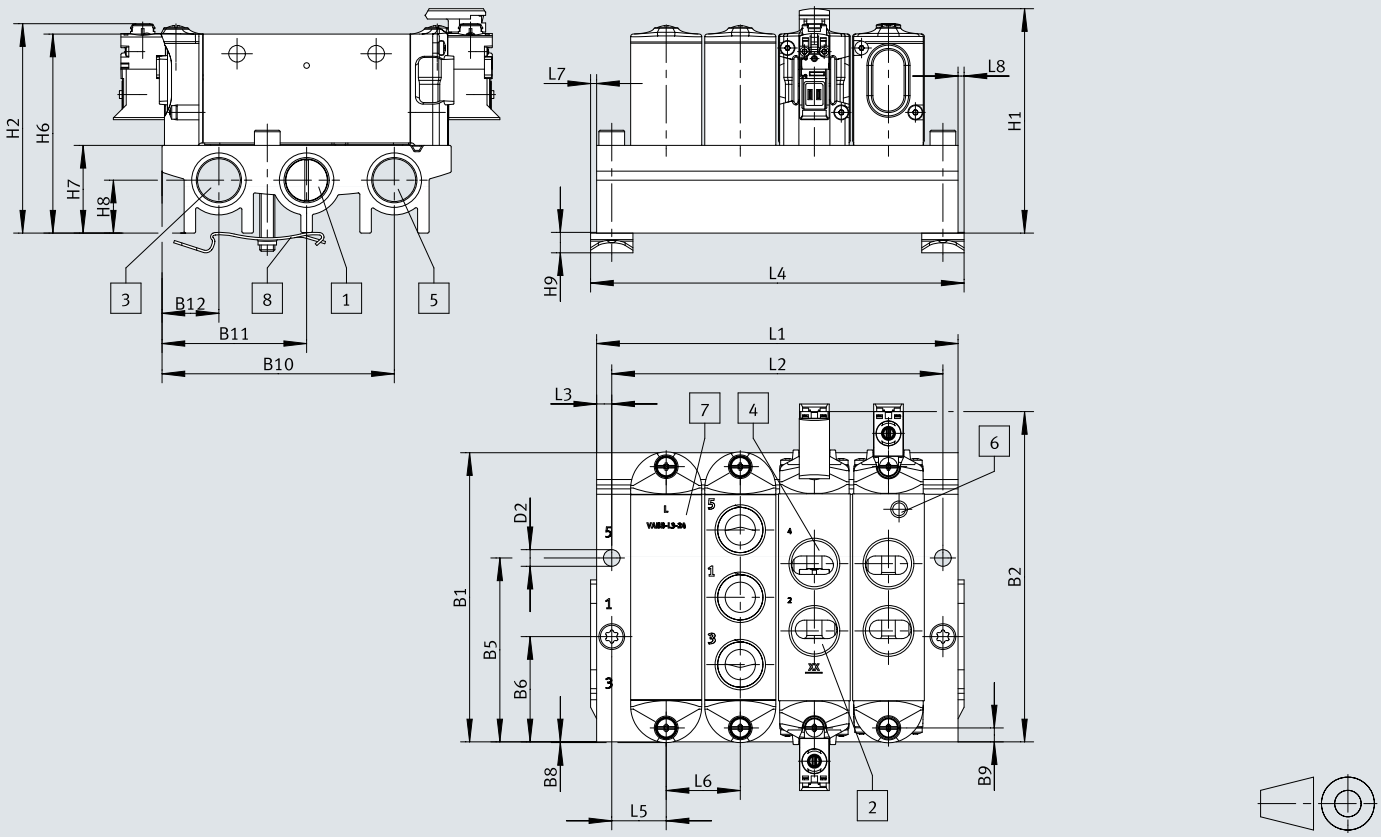
	B1	B9	D2 ø	D3 ø	H1
VUVX-L24-M52...Z	23,7	3,5	5,5	3,2	30,3

	L1	L2	L3	L4	L5	L6	L8	L9	L10	L11	L12	L13
VUVX-L24-M52...Z	109,5	46	38,4	22,1	22,1	21,1	86,4	7,2	22,3	32,1	18,2	14,1

Dimensions

Dimensions – Valve manifold assembly in valve size 24 mm with sleeve valves

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[1] Connection 1
[2] Connection 2
[3] Connection 3
[4] Connection 4
[5] Connection 5
[6] Port 12/14 for external pilot air supply
[7] Cover plate for empty slot
[8] H-rail mounting

Dimensions

	B1	B2	B5	B6	B8	B9	B10	B11	B12
VTIX-24	95,6	109,2	60,8	34,8	0,2	4,6	76,8	47,8	18,8

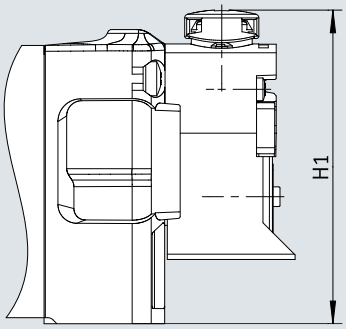
	D2 Ø	H1	H2	H6	H7	H8	H9
VTIX-24	4,5	74,2	69,2	65,8	29	17,5	6,5

	L3	L5	L6	L7	L8
VTIX-24	5	18	24,5	2	2

	L1	L2	L4
VABM-L3-24S-...-2	70,5	60,5	74,5
VABM-L3-24S-...-3	95	85	99
VABM-L3-24S-...-4	119,5	109,5	123,5
VABM-L3-24S-...-5	144	134	148
VABM-L3-24S-...-6	168,5	158,5	172,5
VABM-L3-24S-...-7	193	183	197
VABM-L3-24S-...-8	217,5	207,5	221,5
VABM-L3-24S-...-9	242	232	246
VABM-L3-24S-...-10	266,5	256,5	270,5
VABM-L3-24S-...-12	315,5	305,5	319,5
VABM-L3-24S-...-14	364,5	354,5	368,5
VABM-L3-24S-...-16	413,5	403,5	417,5

Dimensions

Dimensions – Manual override Download CAD data www.festo.com



	H1			
	–	VAMC-L3-CD	VAMC-L3-CH	VAMC-L3-CS
VUVX-L10	32,3	33,6	33,6	37,6
VUVX-B10				
VUVX-L14	34,1	35,4	35,4	39,6
VUVX-B14				
VUVX-L18	40,2	41,5	41,5	45,5
VUVX-B18				
VUVX-L24	40,2	41,5	41,5	45,5
VUVX-B24				

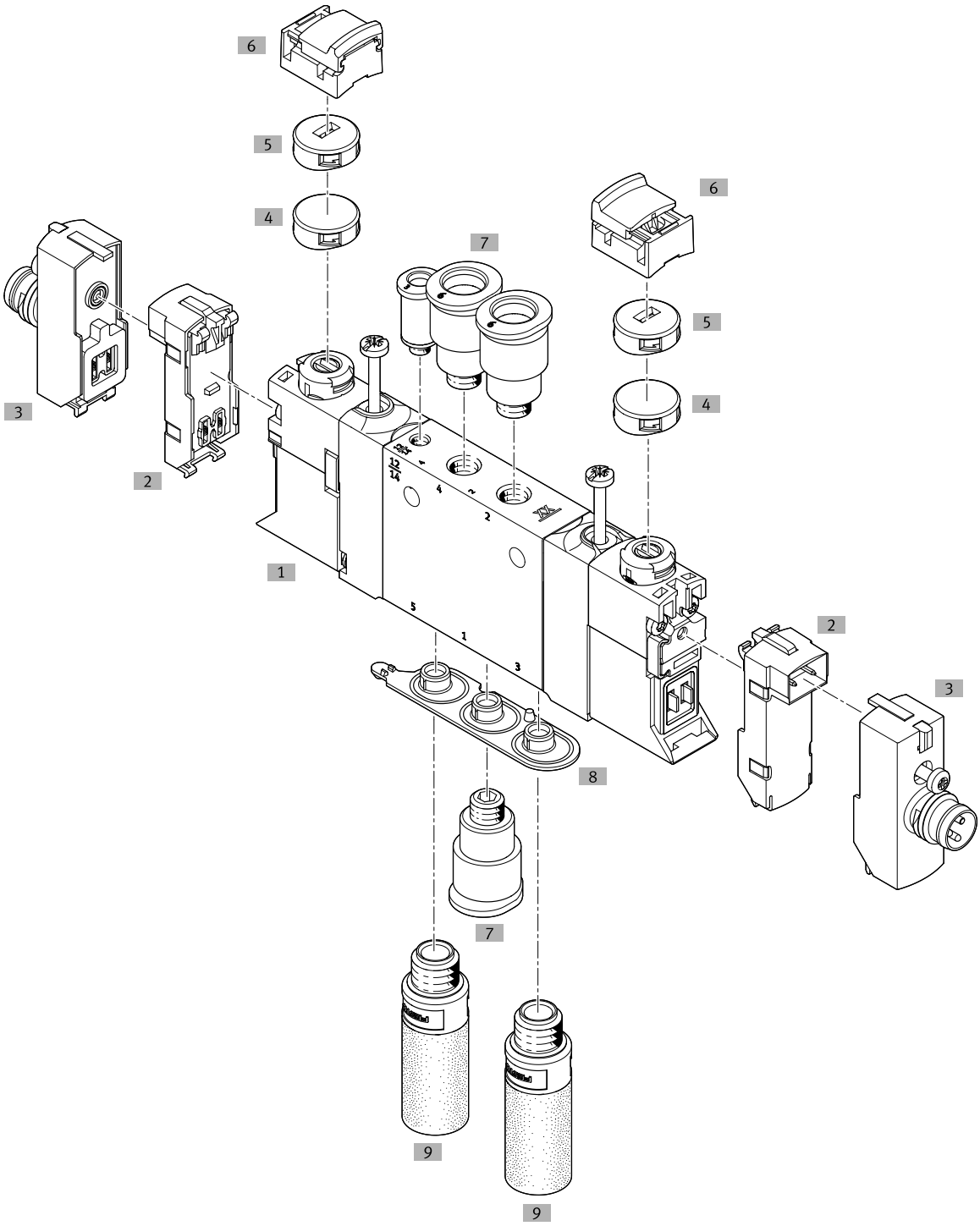
Ordering data

Ordering information – Modular system for valves VUVX

Valve size	Valve function	Reset method	Nominal flow rate standardized according to ISO 8778	Operating pressure	Part no.	Type
10 mm 14 mm 18 mm 24 mm	2x3/2 closed, monostable 2x3/2 open monostable 2x3/2, open/closed, monostable 5/2-way, bistable 5/2-way, monostable 5/3-way, pressurized 5/3 exhausted 5/3-way, closed	Mechanical spring Pneumatic spring	190 ... 2200 l/min	-0.09 ... 0.8 MPa	**8000855**	**VUVX-**

Peripherals overview

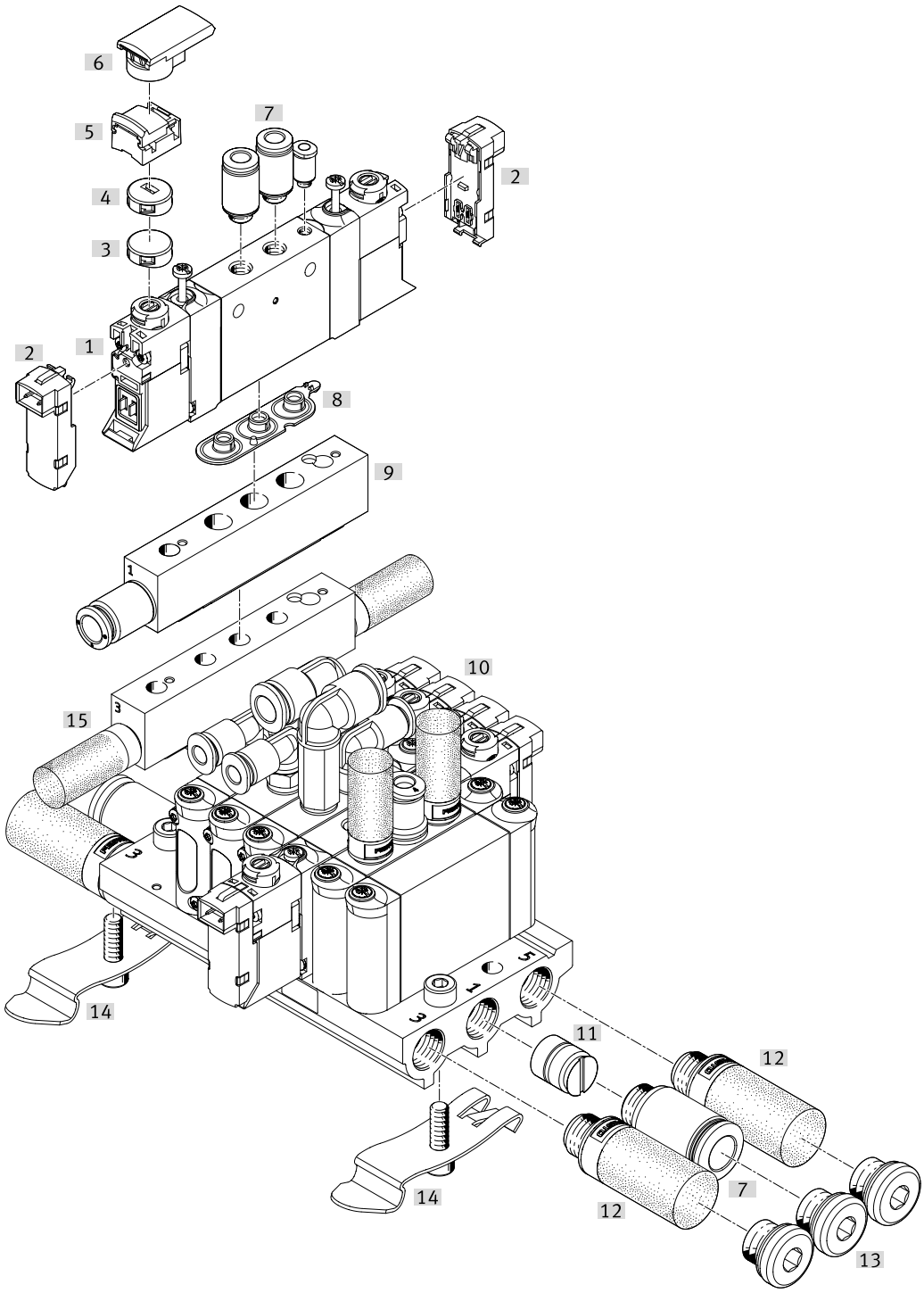
In-line valve



Accessories			→ Page/Internet
	Type/order code	Description	
[1]	Solenoid valve	Usable with a seal as a semi-plug valve on a sub-base	61
[2]	Electrical sub-base	Plug connection diagram H angled	69
[3]	Electrical sub-base	Plug M8x1, angled	70
[4]	Cover cap for manual override	Function concealed	64
[5]	Cover cap for manual override	Function momentary	64
[6]	Cover cap for manual override	Latching function	
[7]	Push-in fittings	for connecting externally calibrated compressed air hoses	66
[8]	Seal	for using the valve as a half-sleeve valve on the sub-base	69
[9]	Muffler	For exhaust ports	65

Peripherals overview

Valve manifold assembly with semi-plug valves



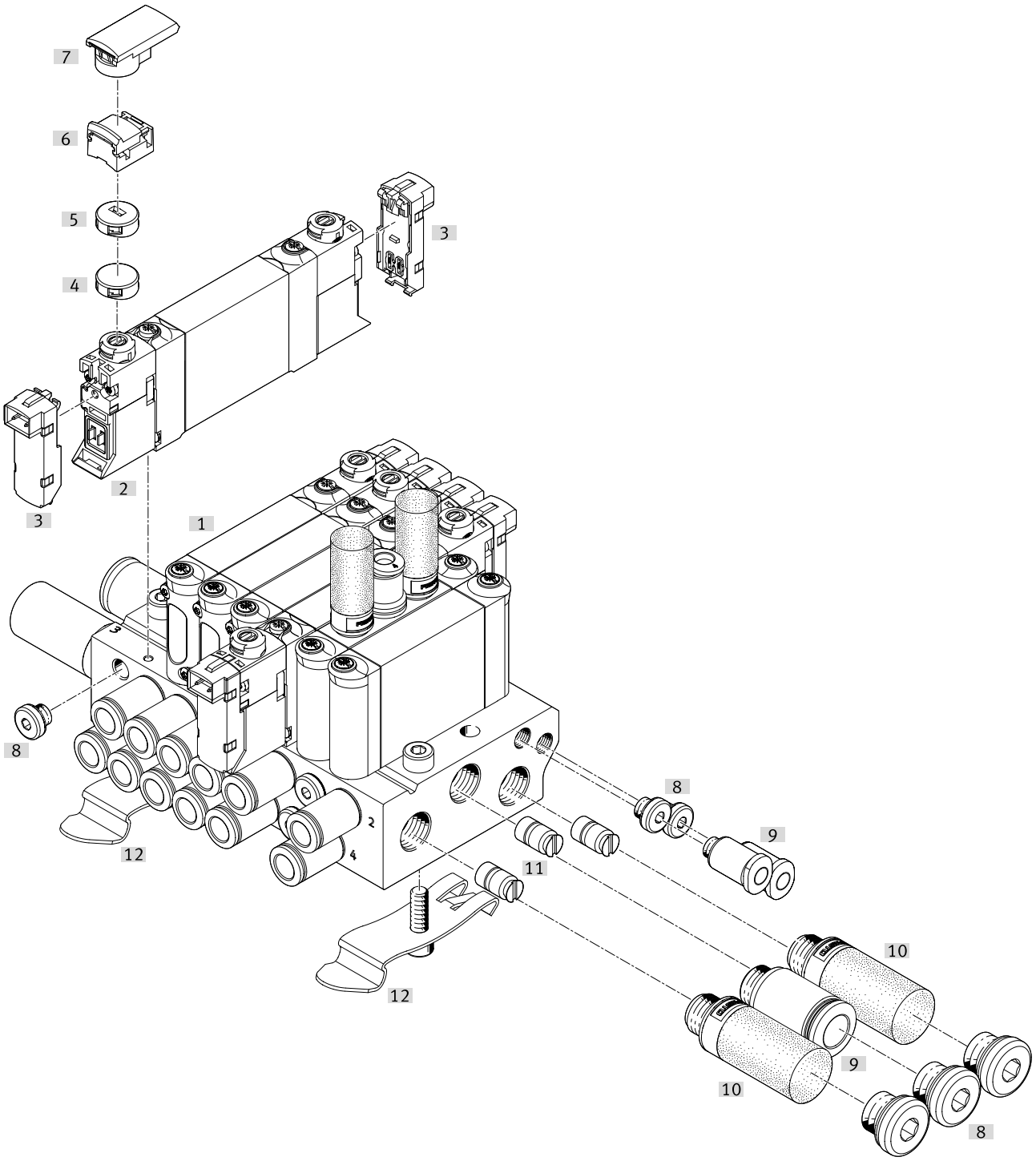
Accessories			→ Page/Internet
	Type/order code	Description	
[1]	Solenoid valve	Usable with a seal as a semi-plug valve on a sub-base	61
[2]	Electrical sub-base	Plug connection diagram selectable	69
[3]	Cover cap for manual override	Function concealed	64
[4]	Cover cap for manual override	Function momentary	64
[5]	Cover cap for manual override	Latching function	
[6]	Inscription label holder	Size 10x20 mm	64
[7]	Push-in fittings	for connecting externally calibrated compressed air hoses	66
[8]	Seal	for using the valve as a half-sleeve valve on the sub-base	69
[9]	Vertical pressure supply plate	Pressure supply to channel 1	68

Peripherals overview

Accessories			→ Page/Internet
	Type/order code	Description	
[10]	Valve manifold assembly	with threaded sleeve valves	
[11]	Separator	for pressure zone separation	68
[12]	Muffler	For exhaust ports	64
[13]	Blanking plug	For sealing connections that are not required	64
[14]	DIN rail attachment	for mounting on DIN rails according to EN 60715	69
[15]	Solenoid valve	Valve with plug connection at the rear	68

Peripherals overview

Valve manifold assembly with sub-base valves



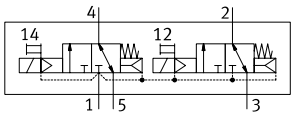
Accessories			→ Page/Internet
	Type/order code	Description	
[1]	Valve manifold assembly	with sub-base valves	
[2]	Solenoid valve	Sub-base valve	55
[3]	Electrical sub-base	Plug connection diagram selectable	69
[4]	Cover cap for manual override	Function concealed	64
[5]	Cover cap for manual override	Function momentary	64
[6]	Cover cap for manual override	Latching function	
[7]	Inscription label holder	Size 10x20 mm	64
[8]	Blanking plug	For sealing connections that are not required	64
[9]	Push-in fittings	for connecting externally calibrated compressed air hoses	66

Peripherals overview

Accessories			→ Page/Internet
	Type/order code	Description	
[10]	Muffler	For exhaust ports	64
[11]	Separator	for pressure zone separation	68
[12]	DIN rail attachment	for mounting on DIN rails according to EN 60715	69

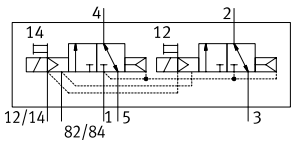
Accessories

2x3/2 directional control valve, closed in rest position, monostable, reset type mechanical spring, internal pilot air supply Link vuvx



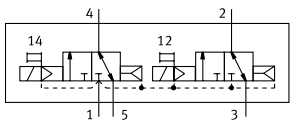
Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Inline valve	10 mm	Negative overlap	Connection pattern H, horizontal plug	8243092	VUVX-L10-T32C-MT-M5-1H2L
				8243103	VUVX-L10-T32C-MT-M7-1H2L
			Without electrical sub-base	8243060	VUVX-L10-T32C-MT-M5-1P3
				8243071	VUVX-L10-T32C-MT-M7-1P3
			Single plug M8, 3-pin	8243124	VUVX-L10-T32C-MT-M5-1R8L
				8243135	VUVX-L10-T32C-MT-M7-1R8L
	14 mm		Connection pattern H, horizontal plug	8243244	VUVX-L14-T32C-MT-G18-1H2L
			Without electrical sub-base	8243231	VUVX-L14-T32C-MT-G18-1P3
			Single plug M8, 3-pin	8243257	VUVX-L14-T32C-MT-G18-1R8L
	18 mm		Connection pattern H, horizontal plug	8243311	VUVX-L18-T32C-MT-G14-1H2L
			Without electrical sub-base	8243300	VUVX-L18-T32C-MT-G14-1P3
			Single plug M8, 3-pin	8243322	VUVX-L18-T32C-MT-G14-1R8L

2x3/2 way valve, closed resting position, monostable, reset mode mechanical spring, external pilot air supply Link vuvx



Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Sub-base valve	10 mm	Negative overlap	Connection pattern H, horizontal plug	8243114	VUVX-B10-T32C-MZT-F-1H2L
			Without electrical sub-base	8243082	VUVX-B10-T32C-MZT-F-1P3
			Single plug M8, 3-pin	8243146	VUVX-B10-T32C-MZT-F-1R8L
	14 mm		Connection pattern H, horizontal plug	8243280	VUVX-B14-T32C-MZT-F-1H2L
			Without electrical sub-base	8243270	VUVX-B14-T32C-MZT-F-1P3
			Single plug M8, 3-pin	8243290	VUVX-B14-T32C-MZT-F-1R8L
	18 mm		Connection pattern H, horizontal plug	8243343	VUVX-B18-T32C-MZT-F-1H2L
			Without electrical sub-base	8243333	VUVX-B18-T32C-MZT-F-1P3
			Single plug M8, 3-pin	8243353	VUVX-B18-T32C-MZT-F-1R8L

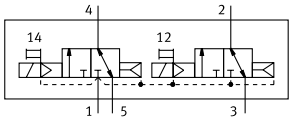
2x3/2 directional control valve, normal position closed, monostable, reset type pneumatic spring, internal pilot air supply Link vuvx



Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Inline valve	10 mm	Negative overlap	Connection pattern H, horizontal plug	8255990	VUVX-L10-T32C-AT-M5-1H2L-W1
				8243091	VUVX-L10-T32C-AT-M5-1H2L
				8243102	VUVX-L10-T32C-AT-M7-1H2L
			Without electrical sub-base	8243059	VUVX-L10-T32C-AT-M5-1P3
				8243070	VUVX-L10-T32C-AT-M7-1P3
			Single plug M8, 3-pin	8243123	VUVX-L10-T32C-AT-M5-1R8L
				8243134	VUVX-L10-T32C-AT-M7-1R8L
	14 mm		Connection pattern H, horizontal plug	8243243	VUVX-L14-T32C-AT-G18-1H2L

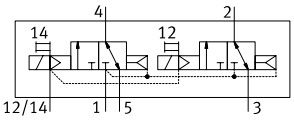
Accessories

2x3/2 directional control valve, normal position closed, monostable, reset type pneumatic spring, internal pilot air supply Link vuvx



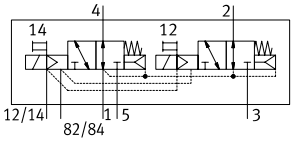
Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Inline valve	14 mm	Negative overlap	Connection pattern H, horizontal plug	8255999	VUVX-L14-T32C-AT-G18-1H2L-W1
			Without electrical sub-base	8243230	VUVX-L14-T32C-AT-G18-1P3
			Single plug M8, 3-pin	8243256	VUVX-L14-T32C-AT-G18-1R8L
	18 mm		Connection pattern H, horizontal plug	8243310	VUVX-L18-T32C-AT-G14-1H2L
			Without electrical sub-base	8243299	VUVX-L18-T32C-AT-G14-1P3
			Single plug M8, 3-pin	8243321	VUVX-L18-T32C-AT-G14-1R8L

2x3/2 way valve, normally closed, monostable, reset type pneumatic spring, external pilot air supply Link vuvx



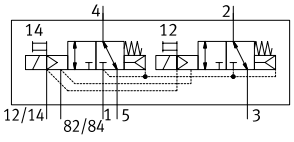
Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Sub-base valve	10 mm	Negative overlap	Single plug M8, 3-pin	8243145	VUVX-B10-T32C-AZT-F-1R8L

2x3/2 way valve, normally closed, monostable, reset type pneumatic spring, external pilot air supply Link vuvx



Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Sub-base valve	10 mm	Negative overlap	Connection pattern H, horizontal plug	8243113	VUVX-B10-T32C-AZT-F-1H2L
			Without electrical sub-base	8243081	VUVX-B10-T32C-AZT-F-1P3

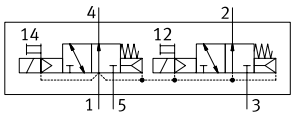
2x3/2 way valve, normally closed, monostable, reset type pneumatic spring, external pilot air supply Link vuvx



Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Sub-base valve	14 mm	Negative overlap	Connection pattern H, horizontal plug	8243279	VUVX-B14-T32C-AZT-F-1H2L
			Without electrical sub-base	8243269	VUVX-B14-T32C-AZT-F-1P3
			Single plug M8, 3-pin	8243289	VUVX-B14-T32C-AZT-F-1R8L
	18 mm		Connection pattern H, horizontal plug	8243342	VUVX-B18-T32C-AZT-F-1H2L
			Without electrical sub-base	8243332	VUVX-B18-T32C-AZT-F-1P3
			Single plug M8, 3-pin	8243352	VUVX-B18-T32C-AZT-F-1R8L

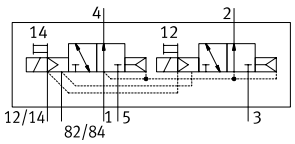
Accessories

2x3/2 way valve, normal position open, monostable, reset type mechanical spring, internal control air supply Link vuvx



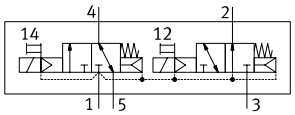
Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Inline valve	10 mm	Negative overlap	Connection pattern H, horizontal plug	8243105	VUVX-L10-T32U-MT-M7-1H2L
				8243094	VUVX-L10-T32U-MT-M5-1H2L
			Without electrical sub-base	8243062	VUVX-L10-T32U-MT-M5-1P3
				8243073	VUVX-L10-T32U-MT-M7-1P3
			Single plug M8, 3-pin	8243126	VUVX-L10-T32U-MT-M5-1R8L
				8243137	VUVX-L10-T32U-MT-M7-1R8L
	14 mm		Connection pattern H, horizontal plug	8243246	VUVX-L14-T32U-MT-G18-1H2L
			Without electrical sub-base	8243233	VUVX-L14-T32U-MT-G18-1P3
			Single plug M8, 3-pin	8243259	VUVX-L14-T32U-MT-G18-1R8L
	18 mm		Connection pattern H, horizontal plug	8243313	VUVX-L18-T32U-MT-G14-1H2L
			Without electrical sub-base	8243302	VUVX-L18-T32U-MT-G14-1P3
			Single plug M8, 3-pin	8243324	VUVX-L18-T32U-MT-G14-1R8L

2x3/2 way valve, normal position open, monostable, reset type mechanical spring, external pilot air supply Link vuvx



Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Sub-base valve	10 mm	Negative overlap	Connection pattern H, horizontal plug	8243115	VUVX-B10-T32U-MZT-F-1H2L
			Without electrical sub-base	8243083	VUVX-B10-T32U-MZT-F-1P3
			Single plug M8, 3-pin	8243147	VUVX-B10-T32U-MZT-F-1R8L
	14 mm		Connection pattern H, horizontal plug	8243281	VUVX-B14-T32U-MZT-F-1H2L
			Without electrical sub-base	8243271	VUVX-B14-T32U-MZT-F-1P3
			Single plug M8, 3-pin	8243291	VUVX-B14-T32U-MZT-F-1R8L
	18 mm		Connection pattern H, horizontal plug	8243344	VUVX-B18-T32U-MZT-F-1H2L
			Without electrical sub-base	8243334	VUVX-B18-T32U-MZT-F-1P3
			Single plug M8, 3-pin	8243354	VUVX-B18-T32U-MZT-F-1R8L

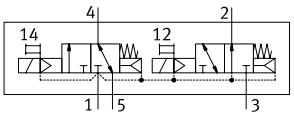
2x3/2 way valve, normal position open/closed, monostable, reset type mechanical spring, internal pilot air supply Link vuvx



Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Inline valve	10 mm	Negative overlap	Connection pattern H, horizontal plug	8243106	VUVX-L10-T32H-MT-M7-1H2L
				8243095	VUVX-L10-T32H-MT-M5-1H2L
			Without electrical sub-base	8243074	VUVX-L10-T32H-MT-M7-1P3
				8243063	VUVX-L10-T32H-MT-M5-1P3
			Single plug M8, 3-pin	8243127	VUVX-L10-T32H-MT-M5-1R8L
				8243138	VUVX-L10-T32H-MT-M7-1R8L
	14 mm		Connection pattern H, horizontal plug	8243247	VUVX-L14-T32H-MT-G18-1H2L
			Without electrical sub-base	8243234	VUVX-L14-T32H-MT-G18-1P3

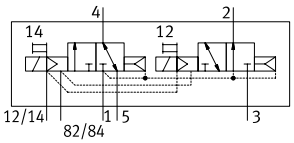
Accessories

2x3/2 way valve, normal position open/closed, monostable, reset type mechanical spring, internal pilot air supply Link vuvx



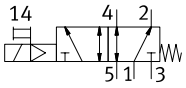
Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Inline valve	14 mm	Negative overlap	Single plug M8, 3-pin	8243260	VUVX-L14-T32H-MT-G18-1R8L
	18 mm		Connection pattern H, horizontal plug	8243314	VUVX-L18-T32H-MT-G14-1H2L
			Without electrical sub-base	8243303	VUVX-L18-T32H-MT-G14-1P3
			Single plug M8, 3-pin	8243325	VUVX-L18-T32H-MT-G14-1R8L

2x3/2 directional control valve, initial position open/closed, monostable, reset type mechanical spring, external control air supply Link vuvx



Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Sub-base valve	10 mm	Negative overlap	Connection pattern H, horizontal plug	8243116	VUVX-B10-T32H-MZT-F-1H2L
			Without electrical sub-base	8243084	VUVX-B10-T32H-MZT-F-1P3
			Single plug M8, 3-pin	8243148	VUVX-B10-T32H-MZT-F-1R8L
	14 mm		Connection pattern H, horizontal plug	8243282	VUVX-B14-T32H-MZT-F-1H2L
			Without electrical sub-base	8243272	VUVX-B14-T32H-MZT-F-1P3
			Single plug M8, 3-pin	8243292	VUVX-B14-T32H-MZT-F-1R8L
	18 mm		Connection pattern H, horizontal plug	8243345	VUVX-B18-T32H-MZT-F-1H2L
			Without electrical sub-base	8243335	VUVX-B18-T32H-MZT-F-1P3
			Single plug M8, 3-pin	8243355	VUVX-B18-T32H-MZT-F-1R8L

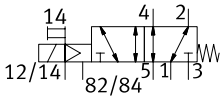
5/2 directional control valve, monostable, reset type mechanical spring, internal pilot air supply Link vuvx



Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Inline valve	10 mm	Negative overlap	Connection pattern H, horizontal plug	8256005	VUVX-L10-M52-MT-M7-1H2L-W1
				8243097	VUVX-L10-M52-MT-M5-1H2L
				8255991	VUVX-L10-M52-MT-M5-1H2L-W1
				8243108	VUVX-L10-M52-MT-M7-1H2L
			Without electrical sub-base	8243076	VUVX-L10-M52-MT-M7-1P3
				8243065	VUVX-L10-M52-MT-M5-1P3
			Single plug M8, 3-pin	8243140	VUVX-L10-M52-MT-M7-1R8L
				8243129	VUVX-L10-M52-MT-M5-1R8L
	14 mm		Connection pattern H, horizontal plug	8256001	VUVX-L14-M52-MT-G18-1H2L-W1
				8243251	VUVX-L14-M52-MT-G18-1H2L
			Without electrical sub-base	8243238	VUVX-L14-M52-MT-G18-1P3
			Single plug M8, 3-pin	8243264	VUVX-L14-M52-MT-G18-1R8L
	18 mm		Connection pattern H, horizontal plug	8256010	VUVX-L18-M52-MT-G14-1H2L-W1
				8243316	VUVX-L18-M52-MT-G14-1H2L
			Without electrical sub-base	8243305	VUVX-L18-M52-MT-G14-1P3
			Single plug M8, 3-pin	8243327	VUVX-L18-M52-MT-G14-1R8L

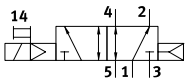
Accessories

5/2 way valve, monostable, reset type mechanical spring, external pilot air supply Link vuvx



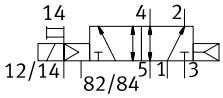
Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Sub-base valve	10 mm	Negative overlap	Connection pattern H, horizontal plug	8243118	VUVX-B10-M52-MZT-F-1H2L
			Without electrical sub-base	8243086	VUVX-B10-M52-MZT-F-1P3
			Single plug M8, 3-pin	8243150	VUVX-B10-M52-MZT-F-1R8L
	14 mm		Connection pattern H, horizontal plug	8243284	VUVX-B14-M52-MZT-F-1H2L
			Without electrical sub-base	8243274	VUVX-B14-M52-MZT-F-1P3
			Single plug M8, 3-pin	8243294	VUVX-B14-M52-MZT-F-1R8L
	18 mm		Connection pattern H, horizontal plug	8243347	VUVX-B18-M52-MZT-F-1H2L
			Without electrical sub-base	8243337	VUVX-B18-M52-MZT-F-1P3
			Single plug M8, 3-pin	8243357	VUVX-B18-M52-MZT-F-1R8L

5/2 way valve, monostable, reset type pneumatic spring, internal pilot air supply Link vuvx



Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Inline valve	10 mm	Negative overlap	Connection pattern H, horizontal plug	8255992	VUVX-L10-M52-AT-M5-1H2L-W1
				8255993	VUVX-L10-M52-AT-M7-1H2L-W1
				8243107	VUVX-L10-M52-AT-M7-1H2L
				8243096	VUVX-L10-M52-AT-M5-1H2L
			Without electrical sub-base	8243064	VUVX-L10-M52-AT-M5-1P3
				8243075	VUVX-L10-M52-AT-M7-1P3
			Single plug M8, 3-pin	8243128	VUVX-L10-M52-AT-M5-1R8L
				8243139	VUVX-L10-M52-AT-M7-1R8L
	14 mm		Connection pattern H, horizontal plug	8256000	VUVX-L14-M52-AT-G18-1H2L-W1
				8243250	VUVX-L14-M52-AT-G18-1H2L
			Without electrical sub-base	8243237	VUVX-L14-M52-AT-G18-1P3
	18 mm		Connection pattern H, horizontal plug	8256009	VUVX-L18-M52-AT-G14-1H2L-W1
				8243315	VUVX-L18-M52-AT-G14-1H2L
			Without electrical sub-base	8243304	VUVX-L18-M52-AT-G14-1P3
			Single plug M8, 3-pin	8243326	VUVX-L18-M52-AT-G14-1R8L
Semi-inline valve	10 mm		Connection pattern H, horizontal plug	8255994	VUVX-S10-M52-AT-M5-1H2L-W1
	14 mm			8256002	VUVX-S14-M52-AT-G18-1H2L-W1

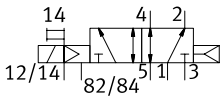
5/2 way valve, monostable, reset type pneumatic spring, external pilot air supply Link vuvx



Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Sub-base valve	10 mm	Negative overlap	Connection pattern H, horizontal plug	8243117	VUVX-B10-M52-AZT-F-1H2L
			Without electrical sub-base	8243085	VUVX-B10-M52-AZT-F-1P3
			Single plug M8, 3-pin	8243149	VUVX-B10-M52-AZT-F-1R8L
	14 mm		Connection pattern H, horizontal plug	8243283	VUVX-B14-M52-AZT-F-1H2L
			Without electrical sub-base	8243273	VUVX-B14-M52-AZT-F-1P3
			Single plug M8, 3-pin	8243293	VUVX-B14-M52-AZT-F-1R8L

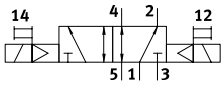
Accessories

5/2 way valve, monostable, reset type pneumatic spring, external pilot air supply Link vuvx



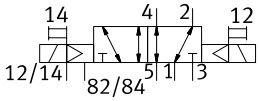
Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Sub-base valve	18 mm	Negative overlap	Connection pattern H, horizontal plug	8243346	VUVX-B18-M52-AZT-F-1H2L
			Without electrical sub-base	8243336	VUVX-B18-M52-AZT-F-1P3
			Single plug M8, 3-pin	8243356	VUVX-B18-M52-AZT-F-1R8L

5/2 way valve, bistable, internal pilot air supply Link vuvx



Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Inline valve	10 mm	Negative overlap	Connection pattern H, horizontal plug	8243098	VUVX-L10-B52-T-M5-1H2L
				8255995	VUVX-L10-B52-T-M5-1H2L-W1
				8256006	VUVX-L10-B52-T-M7-1H2L-W1
				8243109	VUVX-L10-B52-T-M7-1H2L
			Without electrical sub-base	8243077	VUVX-L10-B52-T-M7-1P3
				8243066	VUVX-L10-B52-T-M5-1P3
			Single plug M8, 3-pin	8243141	VUVX-L10-B52-T-M7-1R8L
				8243130	VUVX-L10-B52-T-M5-1R8L
	14 mm		Connection pattern H, horizontal plug	8243252	VUVX-L14-B52-T-G18-1H2L
				8256003	VUVX-L14-B52-T-G18-1H2L-W1
			Without electrical sub-base	8243239	VUVX-L14-B52-T-G18-1P3
			Single plug M8, 3-pin	8243265	VUVX-L14-B52-T-G18-1R8L
	18 mm		Connection pattern H, horizontal plug	8256011	VUVX-L18-B52-T-G14-1H2L-W1
				8243317	VUVX-L18-B52-T-G14-1H2L
			Without electrical sub-base	8243306	VUVX-L18-B52-T-G14-1P3
			Single plug M8, 3-pin	8243328	VUVX-L18-B52-T-G14-1R8L

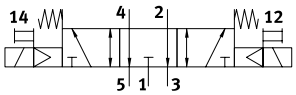
5/2 way valve, bistable, external pilot air supply Link vuvx



Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Sub-base valve	10 mm	Negative overlap	Connection pattern H, horizontal plug	8243119	VUVX-B10-B52-ZT-F-1H2L
			Without electrical sub-base	8243087	VUVX-B10-B52-ZT-F-1P3
			Single plug M8, 3-pin	8243151	VUVX-B10-B52-ZT-F-1R8L
	14 mm		Connection pattern H, horizontal plug	8243285	VUVX-B14-B52-ZT-F-1H2L
			Without electrical sub-base	8243275	VUVX-B14-B52-ZT-F-1P3
			Single plug M8, 3-pin	8243295	VUVX-B14-B52-ZT-F-1R8L
	18 mm		Connection pattern H, horizontal plug	8243348	VUVX-B18-B52-ZT-F-1H2L
			Without electrical sub-base	8243338	VUVX-B18-B52-ZT-F-1P3
			Single plug M8, 3-pin	8243358	VUVX-B18-B52-ZT-F-1R8L

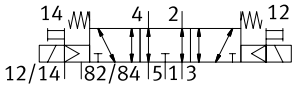
Accessories

5/3 directional control valve, rest position exhausted, type of reset mechanical spring, internal pilot air supply Link vuvx



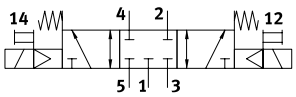
Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Inline valve	10 mm	Negative overlap	Connection pattern H, horizontal plug	8243111	VUVX-L10-P53E-T-M7-1H2L
				8243100	VUVX-L10-P53E-T-M5-1H2L
			Without electrical sub-base	8243079	VUVX-L10-P53E-T-M7-1P3
				8243068	VUVX-L10-P53E-T-M5-1P3
			Single plug M8, 3-pin	8243143	VUVX-L10-P53E-T-M7-1R8L
				8243132	VUVX-L10-P53E-T-M5-1R8L
	14 mm		Connection pattern H, horizontal plug	8243254	VUVX-L14-P53E-T-G18-1H2L
			Without electrical sub-base	8243241	VUVX-L14-P53E-T-G18-1P3
			Single plug M8, 3-pin	8243267	VUVX-L14-P53E-T-G18-1R8L
	18 mm		Connection pattern H, horizontal plug	8243319	VUVX-L18-P53E-T-G14-1H2L
			Without electrical sub-base	8243308	VUVX-L18-P53E-T-G14-1P3
			Single plug M8, 3-pin	8243330	VUVX-L18-P53E-T-G14-1R8L

5/3 directional control valve, normal position vented, reset type mechanical spring, external pilot air supply Link vuvx



Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Sub-base valve	10 mm	Negative overlap	Connection pattern H, horizontal plug	8243121	VUVX-B10-P53E-ZT-F-1H2L
			Without electrical sub-base	8243089	VUVX-B10-P53E-ZT-F-1P3
			Single plug M8, 3-pin	8243153	VUVX-B10-P53E-ZT-F-1R8L
	14 mm		Connection pattern H, horizontal plug	8243287	VUVX-B14-P53E-ZT-F-1H2L
			Without electrical sub-base	8243277	VUVX-B14-P53E-ZT-F-1P3
			Single plug M8, 3-pin	8243297	VUVX-B14-P53E-ZT-F-1R8L
	18 mm		Connection pattern H, horizontal plug	8243350	VUVX-B18-P53E-ZT-F-1H2L
			Without electrical sub-base	8243340	VUVX-B18-P53E-ZT-F-1P3
			Single plug M8, 3-pin	8243360	VUVX-B18-P53E-ZT-F-1R8L

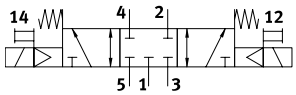
5/3 way valve, closed rest position, reset type mechanical spring, internal pilot air supply Link vuvx



Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Inline valve	10 mm	Positive overlap	Connection pattern H, horizontal plug	8255996	VUVX-L10-P53C-T-M5-1H2L-W1
				8243099	VUVX-L10-P53C-T-M5-1H2L
				8243110	VUVX-L10-P53C-T-M7-1H2L
			Without electrical sub-base	8243067	VUVX-L10-P53C-T-M5-1P3
				8243078	VUVX-L10-P53C-T-M7-1P3
			Single plug M8, 3-pin	8243142	VUVX-L10-P53C-T-M7-1R8L
				8243131	VUVX-L10-P53C-T-M5-1R8L
	14 mm		Connection pattern H, horizontal plug	8243253	VUVX-L14-P53C-T-G18-1H2L
				8256004	VUVX-L14-P53C-T-G18-1H2L-W1
			Without electrical sub-base	8243240	VUVX-L14-P53C-T-G18-1P3
			Single plug M8, 3-pin	8243266	VUVX-L14-P53C-T-G18-1R8L
	18 mm		Connection pattern H, horizontal plug	8243318	VUVX-L18-P53C-T-G14-1H2L

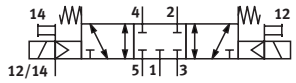
Accessories

5/3 way valve, closed rest position, reset type mechanical spring, internal pilot air supply Link vuvx



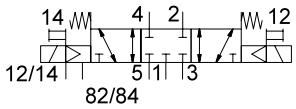
Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Inline valve	18 mm	Positive overlap	Connection pattern H, horizontal plug	8256012	VUVX-L18-P53C-T-G14-1H2L-W1
			Without electrical sub-base	8243307	VUVX-L18-P53C-T-G14-1P3
			Single plug M8, 3-pin	8243329	VUVX-L18-P53C-T-G14-1R8L

5/3 way valve, closed in neutral position, reset type mechanical spring, external control air supply Link vuvx



Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Inline valve	10 mm	Positive overlap	Connection pattern H, horizontal plug	8255989	VUVX-L10-P53C-ZT-M5-1H2L
			Without electrical sub-base	8255988	VUVX-L10-P53C-ZT-M5-1P3
	14 mm		Connection pattern H, horizontal plug	8255998	VUVX-L14-P53C-ZT-G18-1H2L
			Without electrical sub-base	8255997	VUVX-L14-P53C-ZT-G18-1P3
	18 mm		Connection pattern H, horizontal plug	8256008	VUVX-L18-P53C-ZT-G14-1H2L
			Without electrical sub-base	8256007	VUVX-L18-P53C-ZT-G14-1P3

5/3 way valve, closed in neutral position, reset type mechanical spring, external control air supply Link vuvx



Directional control valve type	Valve size	Lap	Electrical connection	Part no.	Type
Sub-base valve	10 mm	Positive overlap	Connection pattern H, horizontal plug	8243120	VUVX-B10-P53C-ZT-F-1H2L
			Without electrical sub-base	8243088	VUVX-B10-P53C-ZT-F-1P3
			Single plug M8, 3-pin	8243152	VUVX-B10-P53C-ZT-F-1R8L
	14 mm		Connection pattern H, horizontal plug	8243286	VUVX-B14-P53C-ZT-F-1H2L
			Without electrical sub-base	8243276	VUVX-B14-P53C-ZT-F-1P3
			Single plug M8, 3-pin	8243296	VUVX-B14-P53C-ZT-F-1R8L
	18 mm		Connection pattern H, horizontal plug	8243349	VUVX-B18-P53C-ZT-F-1H2L
			Without electrical sub-base	8243339	VUVX-B18-P53C-ZT-F-1P3
			Single plug M8, 3-pin	8243359	VUVX-B18-P53C-ZT-F-1R8L

Accessories

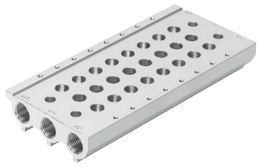
Manifold rails for connection as sub-base valves Link vabm-l3



Connection type	Size	Valve positions	Product weight	Part no.	Type
Supply air/exhaust air/ working ports/pilot air supply/pilot exhaust air	Size 10	2 valve positions	107 g	8251679	VABM-L3-10W-G18-M7-2
			113 g	8251667	VABM-L3-10W-G18-M5-2
		3 valve positions	135 g	8251680	VABM-L3-10W-G18-M7-3
			141 g	8251668	VABM-L3-10W-G18-M5-3
		4 valve positions	163 g	8251681	VABM-L3-10W-G18-M7-4
			170 g	8251669	VABM-L3-10W-G18-M5-4
		5 valve positions	191 g	8251682	VABM-L3-10W-G18-M7-5
			199 g	8251670	VABM-L3-10W-G18-M5-5
		6 valve positions	219 g	8251683	VABM-L3-10W-G18-M7-6
			228 g	8251671	VABM-L3-10W-G18-M5-6
		7 valve positions	247 g	8251684	VABM-L3-10W-G18-M7-7
			257 g	8251672	VABM-L3-10W-G18-M5-7
		8 valve positions	275 g	8251685	VABM-L3-10W-G18-M7-8
			286 g	8251673	VABM-L3-10W-G18-M5-8
		9 valve positions	303 g	8251686	VABM-L3-10W-G18-M7-9
			315 g	8251674	VABM-L3-10W-G18-M5-9
		10 valve positions	331 g	8251687	VABM-L3-10W-G18-M7-10
			344 g	8251675	VABM-L3-10W-G18-M5-10
		12 valve positions	387 g	8251688	VABM-L3-10W-G18-M7-12
			402 g	8251676	VABM-L3-10W-G18-M5-12
		14 valve positions	443 g	8251689	VABM-L3-10W-G18-M7-14
			550 g	8251677	VABM-L3-10W-G18-M5-14
		16 valve positions	499 g	8251690	VABM-L3-10W-G18-M7-16
				8251678	VABM-L3-10W-G18-M5-16
	Size 14	2 valve positions	242 g	8251691	VABM-L3-14W-G14-2
		3 valve positions	310 g	8251692	VABM-L3-14W-G14-3
		4 valve positions	377 g	8251693	VABM-L3-14W-G14-4
		5 valve positions	445 g	8251694	VABM-L3-14W-G14-5
		6 valve positions	513 g	8251695	VABM-L3-14W-G14-6
		7 valve positions	581 g	8251696	VABM-L3-14W-G14-7
		8 valve positions	649 g	8251697	VABM-L3-14W-G14-8
		9 valve positions	717 g	8251698	VABM-L3-14W-G14-9
		10 valve positions	785 g	8251699	VABM-L3-14W-G14-10
		12 valve positions	921 g	8251700	VABM-L3-14W-G14-12
		14 valve positions	1,060 g	8251701	VABM-L3-14W-G14-14
		16 valve positions	1,193 g	8251702	VABM-L3-14W-G14-16
	Size 18	2 valve positions	452 g	8251703	VABM-L3-18W-G38-2
		3 valve positions	580 g	8251704	VABM-L3-18W-G38-3
		4 valve positions	708 g	8251705	VABM-L3-18W-G38-4
		5 valve positions	836 g	8251706	VABM-L3-18W-G38-5
		6 valve positions	964 g	8251707	VABM-L3-18W-G38-6
		7 valve positions	1,092 g	8251708	VABM-L3-18W-G38-7
		8 valve positions	1,220 g	8251709	VABM-L3-18W-G38-8
		9 valve positions	1,348 g	8251710	VABM-L3-18W-G38-9
		10 valve positions	1,476 g	8251711	VABM-L3-18W-G38-10
		12 valve positions	1,732 g	8251712	VABM-L3-18W-G38-12
		14 valve positions	1,988 g	8251713	VABM-L3-18W-G38-14
		16 valve positions	2,244 g	8251714	VABM-L3-18W-G38-16

Accessories

Manifold rails for connection as semi in-line valve Link vabm-l3



Connection type	Size	Valve positions	Product weight	Part no.	Type
Supply air/exhaust air	Size 10	2 valve positions	66 g	566558	VABM-L1-10S-G18-2
		3 valve positions	81 g	566559	VABM-L1-10S-G18-3
		4 valve positions	96 g	566560	VABM-L1-10S-G18-4
		5 valve positions	111 g	566561	VABM-L1-10S-G18-5
		6 valve positions	126 g	566562	VABM-L1-10S-G18-6
		7 valve positions	141 g	566563	VABM-L1-10S-G18-7
		8 valve positions	156 g	566564	VABM-L1-10S-G18-8
		9 valve positions	171 g	566565	VABM-L1-10S-G18-9
		10 valve positions	186 g	566566	VABM-L1-10S-G18-10
		12 valve positions	216 g	566567	VABM-L1-10S-G18-12
		14 valve positions	246 g	566568	VABM-L1-10S-G18-14
		16 valve positions	276 g	566569	VABM-L1-10S-G18-16
	Size 14	2 valve positions	118 g	566618	VABM-L1-14S-G14-2
		3 valve positions	159 g	566619	VABM-L1-14S-G14-3
		4 valve positions	200 g	566620	VABM-L1-14S-G14-4
		5 valve positions	241 g	566621	VABM-L1-14S-G14-5
		6 valve positions	282 g	566622	VABM-L1-14S-G14-6
		7 valve positions	323 g	566623	VABM-L1-14S-G14-7
		8 valve positions	364 g	566624	VABM-L1-14S-G14-8
		9 valve positions	405 g	566625	VABM-L1-14S-G14-9
		10 valve positions	446 g	566626	VABM-L1-14S-G14-10
		12 valve positions	528 g	566627	VABM-L1-14S-G14-12
		14 valve positions	610 g	566628	VABM-L1-14S-G14-14
		16 valve positions	692 g	566629	VABM-L1-14S-G14-16
	Size 18	2 valve positions	226 g	574455	VABM-L1-18S-G38-2
		3 valve positions	297 g	574456	VABM-L1-18S-G38-3
		4 valve positions	368 g	574457	VABM-L1-18S-G38-4
		5 valve positions	439 g	574458	VABM-L1-18S-G38-5
		6 valve positions	510 g	574459	VABM-L1-18S-G38-6
		7 valve positions	581 g	574460	VABM-L1-18S-G38-7
		8 valve positions	652 g	574461	VABM-L1-18S-G38-8
		9 valve positions	723 g	574462	VABM-L1-18S-G38-9
		10 valve positions	794 g	574463	VABM-L1-18S-G38-10
		12 valve positions	936 g	574464	VABM-L1-18S-G38-12
		14 valve positions	1,078 g	574465	VABM-L1-18S-G38-14
		16 valve positions	1,220 g	574466	VABM-L1-18S-G38-16
	Size 24	2 valve positions	261 g	8251715	VABM-L3-24S-G38-2
		3 valve positions	353 g	8251716	VABM-L3-24S-G38-3
		4 valve positions	445 g	8251717	VABM-L3-24S-G38-4
		5 valve positions	537 g	8251718	VABM-L3-24S-G38-5
		6 valve positions	629 g	8251719	VABM-L3-24S-G38-6
		7 valve positions	721 g	8251720	VABM-L3-24S-G38-7
		8 valve positions	813 g	8251721	VABM-L3-24S-G38-8
		9 valve positions	905 g	8251722	VABM-L3-24S-G38-9
		10 valve positions	997 g	8251723	VABM-L3-24S-G38-10
		12 valve positions	1,181 g	8251724	VABM-L3-24S-G38-12
		14 valve positions	1,365 g	8251725	VABM-L3-24S-G38-14
		16 valve positions	1,549 g	8251726	VABM-L3-24S-G38-16

Accessories

Cover cap for manual override — Link vamc



Type of mounting	Manual override	Product weight	Part no.	Type
Clip	Non-detenting	0.15 g	8253129	VAMC-L3-CH
	Covered		8253130	VAMC-L3-CS

Inscription label holder — Link aslr



Size	Pack size	Part no.	Type
10x20 mm		570818	ASLR-D-L1

Blanking plug — Link b



Pneumatic connection 1	Type of mounting	Pack size	Part no.	Type
External thread M5	Internal hex AF2.5	10	174308	B-M5-B
External thread M7	Internal hexagon, AF 3		174309	B-M7
External thread G1/8	Internal hexagon, AF 5	100	534213	B-1/8-100
External thread G1/4	Internal hexagon, AF 6	50	534214	B-1/4-50
External thread G3/8	Internal hexagon, AF 8	20	534215	B-3/8-20

Blanking plug, suitable for battery production with reduced Cu/Zn/Ni values (F1a) — Link b



Pneumatic connection 1	Type of mounting	Pack size	Part no.	Type
External thread M5	Internal hex AF2.5	10	8142288	B-M5-F1A
External thread M7	Internal hexagon, AF 3		8144525	B-M7-F1A
External thread G1/8	Internal hexagon, AF 5		8142289	B-1/8-F1A
External thread G1/4	Internal hexagon, AF 6		8142290	B-1/4-F1A
External thread G3/8	Internal hexagon, AF 8	1	8085675	NPQR-BK-G38

Muffler — Link amte



Pneumatic connection	Flow rate with respect to atmosphere	Cushioning insert material	Material of screwed plug	Pack size	Part no.	Type
M5	255 l/min	Bronze	Brass	20	1205858	AMTE-M-LH-M5

Accessories

Muffler, suitable for battery production with reduced Cu/Zn/Ni values (F1a) Link uc



Pneumatic connection	Flow rate with respect to atmosphere	Cushioning insert material	Material of screwed plug	Pack size	Part no.	Type
M5	350 l/min	Protective grounding	Protective grounding	50	534217	UC-M5-50
M7	800 l/min		PA-reinforced, Protective grounding	1	161418	UC-M7
			Protective grounding	50	534218	UC-M7-50
G1/8	1,700 l/min				534219	UC-1/8-50
G1/4	3,200 l/min			20	534220	UC-1/4-20
G3/8	5,000 l/min				576759	UC-3/8-20

Push-in fittings straight Link qsm



Pneumatic connection 1	Pneumatic connection 2	Type of mounting	Pack size	Part no.	Type
External thread M5	for pneumatic tubing outside diameter 3 mm	Internal hexagon, AF 2	100	132916	QSM-M5-3-I-R-100
	for pneumatic tubing outside diameter 5/32“	Internal hex AF2.5	1	130593	QSM-M5-5/32-I-U-M
	for pneumatic tubing outside diameter 1/8“	Internal hexagon, AF 2	10	183749	QSM-M5-1/8-I-U-M
	for pneumatic tubing outside diameter 3/16“	Internal hex AF2.5	1	183750	QSM-M5-3/16-I-U-M
	for pneumatic tubing outer diameter 1/4“			130591	QSM-M5-1/4-I-U-M
External thread M7	for pneumatic tubing outside diameter 3/16“	Internal hexagon, AF 3		183739	QSM-M7-3/16-I-U-M
	for pneumatic tubing outer diameter 1/4“	Internal hexagon, AF 4		183740	QSM-M7-1/4-I-U-M
External thread G1/8	for pneumatic tubing outside diameter 4 mm	Internal hexagon, AF 3	10	8112971	NPQE-DK-G18-Q4-P10
External thread G1/4	for pneumatic tubing outside diameter 6 mm	Internal hexagon, AF 4		8112975	NPQE-DK-G14-Q6-P10
External thread R1/8	for pneumatic tubing outer diameter 1/4“		1	183741	QS-1/8-1/4-I-U-M
	for pneumatic tubing outside diameter 5/16“	Internal hexagon, AF 5		183742	QS-1/8-5/16-I-U-M
External thread R1/4	for pneumatic tubing outer diameter 1/4“	External hexagon SW14, Internal hexagon, AF 5	10	533219	QB-1/4-1/4-U-M
	for pneumatic tubing outside diameter 5/16“	Internal hexagon, AF 6	1	183743	QS-1/4-5/16-I-U-M
	for pneumatic tubing outside diameter 3/8“	Internal hexagon, AF 7		183744	QS-1/4-3/8-I-U-M
External thread R3/8	for pneumatic tubing outside diameter 10 mm	Internal hexagon, AF 6	10	153019	QS-3/8-10-I
	for pneumatic tubing outside diameter 12 mm	Internal hexagon, AF 8		153020	QS-3/8-12-I
	for pneumatic tubing outside diameter 16 mm	External hexagon SW22	1	164957	QS-3/8-16
	for pneumatic tubing outside diameter 5/16“	External hexagon SW17, Internal hexagon, AF 6	10	533223	QB-3/8-5/16-U-M
	for pneumatic tubing outside diameter 3/8“	External hexagon SW17, Internal hexagon, AF 8	5	533224	QB-3/8-3/8-U-M
	for pneumatic tubing outside diameter 1/2“	External hexagon SW21, Hexagon socket SW10		533225	QB-3/8-1/2-U-M

Accessories

Push-in fittings angled Link qsm



Pneumatic connection 1	Pneumatic connection 2	Type of mounting	Pack size	Part no.	Type
External thread M5	for pneumatic tubing outside diameter 3 mm	External hexagon, AF 8	100	**130770**	**QSML-M5-3-100**
	for pneumatic tubing outside diameter 4 mm			**130771**	**QSML-M5-4-100**
	for pneumatic tubing outside diameter 6 mm			**130772**	**QSML-M5-6-100**
External thread G1/8	for pneumatic tubing outside diameter 4 mm	External hexagon SW13		**132048**	**QSL-G1/8-4-100**
	for pneumatic tubing outside diameter 8 mm		50	**132050**	**QSL-G1/8-8-50**
External thread R1/8	for pneumatic tubing outside diameter 6 mm	External hexagon SW10	100	**130765**	**QSML-1/8-6-100**
	for pneumatic tubing outside diameter 10 mm	External hexagon SW12	10	**190658**	**QSL-1/8-10**
	for pneumatic tubing outer diameter 1/4“			**533235**	**QBL-1/8-1/4-U-M**
	for pneumatic tubing outside diameter 5/16“	External hexagon SW14		**533236**	**QBL-1/8-5/16-U-M**
	for pneumatic tubing outside diameter 3/8“	External hexagon SW17	5	**562578**	**QBL-1/8-3/8-U-M**
External thread R1/4	for pneumatic tubing outside diameter 6 mm	External hexagon SW14	100	**130731**	**QSL-1/4-6-100**
	for pneumatic tubing outside diameter 8 mm		10	**153049**	**QSL-1/4-8**
			50	**130732**	**QSL-1/4-8-50**
	for pneumatic tubing outside diameter 10 mm		10	**153051**	**QSL-1/4-10**
			50	**130733**	**QSL-1/4-10-50**
	for pneumatic tubing outside diameter 12 mm		10	**164981**	**QSL-1/4-12**
			20	**130734**	**QSL-1/4-12-20**
	for pneumatic tubing outside diameter 5/16“		10	**533239**	**QBL-1/4-5/16-U-M**
	for pneumatic tubing outside diameter 3/8“	External hexagon SW17	5	**533240**	**QBL-1/4-3/8-U-M**
External thread R3/8	for pneumatic tubing outside diameter 8 mm		10	**153050**	**QSL-3/8-8**
			50	**130735**	**QSL-3/8-8-50**
	for pneumatic tubing outside diameter 10 mm		10	**153052**	**QSL-3/8-10**
			20	**130736**	**QSL-3/8-10-20**
	for pneumatic tubing outside diameter 12 mm		10	**153053**	**QSL-3/8-12**
			20	**130737**	**QSL-3/8-12-20**
	for pneumatic tubing outside diameter 16 mm	External hexagon SW22	1	**164958**	**QSL-3/8-16**
	for pneumatic tubing outside diameter 5/16“	External hexagon SW17	5	**533242**	**QBL-3/8-5/16-U-M**
	for pneumatic tubing outside diameter 3/8“			**533243**	**QBL-3/8-3/8-U-M**
	for pneumatic tubing outside diameter 1/2“	External hexagon SW19		**533244**	**QBL-3/8-1/2-U-M**

Accessories

Push-in fittings angled, long version Link qsm



Pneumatic connection 1	Pneumatic connection 2	Type of mounting	Pack size	Part no.	Type
External thread M5	for pneumatic tubing outside diameter 3 mm	External hexagon, AF 8	100	133012	QSMLL-M5-3-100
	for pneumatic tubing outside diameter 4 mm			133013	QSMLL-M5-4-100
	for pneumatic tubing outside diameter 6 mm		10	153341	QSMLL-M5-6
External thread G1/8	for pneumatic tubing outside diameter 4 mm	External hexagon SW13		186127	QSLL-G1/8-4
			100	133015	QSLL-G1/8-4-100
	for pneumatic tubing outside diameter 6 mm		10	186128	QSLL-G1/8-6
			100	133016	QSLL-G1/8-6-100
	for pneumatic tubing outside diameter 8 mm			133017	QSLL-G1/8-8-100
External thread G1/4	for pneumatic tubing outside diameter 6 mm	External hexagon SW17	10	186129	QSLL-G1/4-6
External thread R1/4		External hexagon SW14		153078	QSLL-1/4-6
	for pneumatic tubing outside diameter 8 mm			153080	QSLL-1/4-8
	for pneumatic tubing outside diameter 10 mm			153082	QSLL-1/4-10
External thread R3/8	for pneumatic tubing outside diameter 8 mm	External hexagon SW17		153081	QSLL-3/8-8
	for pneumatic tubing outside diameter 10 mm			153083	QSLL-3/8-10
	for pneumatic tubing outside diameter 12 mm			153084	QSLL-3/8-12

Push-in fittings, suitable for battery production with reduced Cu/Zn/Ni values (F1a) Link npqe



Pneumatic connection 1	Pneumatic connection 2	Type of mounting	Pack size	Part no.	Type
External thread M3	for pneumatic tubing outside diameter 4 mm	Internal hex AF1.5	10	8158773	NPQE-DK-M3-Q4-F1A-P10
External thread M5		Internal hex AF2.5		8144595	NPQE-DK-M5-Q4-F1A-P10
	for pneumatic tubing outside diameter 6 mm			8144596	NPQE-DK-M5-Q6-F1A-P10
External thread M7	for pneumatic tubing outside diameter 4 mm	Internal hexagon, AF 3		8144597	NPQE-DK-M7-Q4-F1A-P10
	for pneumatic tubing outside diameter 6 mm	Internal hexagon, AF 4		8144598	NPQE-DK-M7-Q6-F1A-P10
External thread G1/8				8144600	NPQE-DK-G18-Q6-F1A-P10
	for pneumatic tubing outside diameter 8 mm	Internal hexagon, AF 5		8144601	NPQE-DK-G18-Q8-F1A-P10
	for pneumatic tubing outside diameter 10 mm			8144602	NPQE-DK-G18-Q10-F1A-P10
External thread G1/4	for pneumatic tubing outside diameter 6 mm	Internal hexagon, AF 4		8144603	NPQE-DK-G14-Q6-F1A-P10
	for pneumatic tubing outside diameter 8 mm	Internal hexagon, AF 6		8144604	NPQE-DK-G14-Q8-F1A-P10
	for pneumatic tubing outside diameter 10 mm	Internal hexagon, AF 7		8144605	NPQE-DK-G14-Q10-F1A-P10
	for pneumatic tubing outside diameter 12 mm			8144606	NPQE-DK-G14-Q12-F1A-P10
External thread G3/8	for pneumatic tubing outside diameter 8 mm	Internal hexagon, AF 6	1	8086953	NPQR-DK-G38-Q8
	for pneumatic tubing outside diameter 10 mm	Internal hexagon, AF 7		8085667	NPQR-DK-G38-Q10
	for pneumatic tubing outside diameter 12 mm	Internal hexagon, AF 8		8085668	NPQR-DK-G38-Q12

Accessories

Separator Link vabd



Size	Pack size	Product weight	Part no.	Type
Size 14		10 g	**8168590**	**VABD-14-B-F1A**

Separator, suitable for battery production with reduced Cu/Zn/Ni levels (F1a) Link vabd



Size	Pack size	Product weight	Part no.	Type
Size 6		7 g	**8145478**	**VABD-6-B-F1A**
Size 8		8 g	**8145479**	**VABD-8-B-F1A**
Size 10		10 g	**8145480**	**VABD-10-B-F1A**
Size 12		13 g	**8145481**	**VABD-12-B-F1A**

Cover plate Link vabb



Valve size	Type of mounting	Pack size	Part no.	Type
10 mm	With through-hole for M2 screw	1	**8251747**	**VABB-L3-10**
14 mm	With through-hole for M2.5 screw		**8251748**	**VABB-L3-14**
18 mm	With through-hole for M3 screw		**8251749**	**VABB-L3-18-P14**
24 mm			**8251750**	**VABB-L3-24**

Vertical pressure supply plate Link vabf



Valve size	Width dimension	Pneumatic connection 1	Part no.	Type
	10.5 mm	M7	**574592**	**VABF-L1-P3A3-M7**
	16 mm	G1/8	**574593**	**VABF-L1-P3A3-G18**

Vertical pressure exhaust plate Link vabf



Valve size	Width dimension	Pneumatic connection 5	Pneumatic connection 3	Part no.	Type
	10.5 mm	M7	M7	**574594**	**VABF-L1-P7A13-M7**
	16 mm	G1/8	G1/8	**574595**	**VABF-L1-P7A13-G18**

Accessories

Seal Link vabd



Version	Valve size	Pneumatic connection	Pack size	Part no.	Type
For sub-base valve	10 mm	M7	1	8254221	VABD-L3-10B-S-M7
	14 mm	G1/8		8254222	VABD-L3-14B-S-G18
	18 mm	G1/4		8254223	VABD-L3-18B-S-G14
Valve replacement under pressure	10 mm	M5		8251804	VABD-L3-10X-S-M5
		M7		8251805	VABD-L3-10X-S-M7
	14 mm	G1/8		8251806	VABD-L3-14X-S-G18
	18 mm	G1/4		8251807	VABD-L3-18X-S-G14
	24 mm	G3/8		8251808	VABD-L3-24X-S-G38

DIN rail attachment Link vame



Mounting component	Mechanical connection	Part no.	Type
H-rail clip	M4	569998	VAME-T-M4
	M5	2636436	VAME-T-M5

DIN rail attachment, suitable for battery production with reduced Cu/Zn/Ni values (F1a) Link vame



Mounting component	Mechanical connection	Part no.	Type
H-rail clip	M4	8142649	VAME-T-M4-F1A

Electrical sub-base, plug connection diagram H angled Link vave-l1



Electrical connection	Nominal operating voltage DC	Part no.	Type
2-pin, Socket	12 V; 24 V	566718	VAVE-L1-1VS2-LP
		566714	VAVE-L1-1VH2-LP
	24 V	566720	VAVE-L1-1S2-LR
		566716	VAVE-L1-1H2-LR

Electrical sub-base, plug connection layout H straight Link vave-l1



Electrical connection	Nominal operating voltage DC	Part no.	Type
2-pin, Socket	12 V; 24 V	566715	VAVE-L1-1VH3-LP
		566719	VAVE-L1-1VS3-LP
	24 V	566721	VAVE-L1-1S3-LR
		566717	VAVE-L1-1H3-LR

Accessories

Electrical sub-base, plug connection layout S angled Link vave-l1



Electrical connection	Nominal operating voltage DC	Part no.	Type
2-pin, Socket	12 V; 24 V	566718	VAVE-L1-1VS2-LP
	24 V	566720	VAVE-L1-1S2-LR

Electrical sub-base, plug connection diagram S straight Link vave-l1



Electrical connection	Nominal operating voltage DC	Part no.	Type
2-pin, Socket	12 V; 24 V	566719	VAVE-L1-1VS3-LP
	24 V	566721	VAVE-L1-1S3-LR

Electrical sub-base, plug M8x1 angled Link vave-l1



Electrical connection	Nominal operating voltage DC	Part no.	Type
3-pin / 2-pin, M8 / -, Plug / socket	12 V; 24 V	573919	VAVE-L1-1VR8-LP
	24 V	573920	VAVE-L1-1R8-LR
4-pin / 2-pin, M8 / -, Plug / socket	12 V; 24 V	573921	VAVE-L1-1VR1-LP
	24 V	573922	VAVE-L1-1R1-LR

Electrical sub-base, 2x flying lead with open end Link vave-l1



Electrical connection	Cable length	Nominal operating voltage DC	Part no.	Type
Flying lead	0.5 m	12 V; 24 V	566722	VAVE-L1-1VL1-LP
		24 V	566726	VAVE-L1-1L1-LR
	1 m	12 V; 24 V	566723	VAVE-L1-1VL2-LP
		24 V	566727	VAVE-L1-1L2-LR
	2.5 m		566728	VAVE-L1-1L3-LR
		12 V; 24 V	566724	VAVE-L1-1VL3-LP
	5 m	24 V	566729	VAVE-L1-1L4-LR
		12 V; 24 V	566725	VAVE-L1-1VL4-LP

Electrical sub-base, cable with open end Link vave-l1



Electrical connection	Cable length	Nominal operating voltage DC	Part no.	Type
2-pin/2-core, Angled socket/cable, Rectangular design/open end	0.5 m	24 V	573945	VAVE-L1-1K6-LR
		12 V; 24 V	573941	VAVE-L1-1VK6-LP
	1 m		573942	VAVE-L1-1VK7-LP
		24 V	573946	VAVE-L1-1K7-LR
	2.5 m		573947	VAVE-L1-1K8-LR
		12 V; 24 V	573943	VAVE-L1-1VK8-LP
	5 m	24 V	573948	VAVE-L1-1K9-LR
		12 V; 24 V	573944	VAVE-L1-1VK9-LP