

Quick exhaust valve SE, SEU

FESTO



Characteristics

At a glance

Screw-in exhaust air control with balanced noise emission.

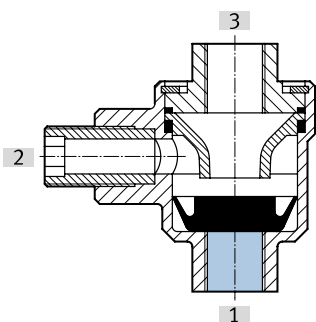
- Valve function: Quick exhaust
- Shut-off valve, piloted
- With or without silencer

Series

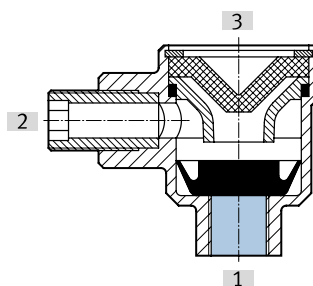
These components can reach increased piston speeds for single and double-acting cylinders when retracting.

Compressed air flows from the control valve to the cylinder via the quick exhaust valve. Exhaust 3 is closed in the process. If the pressure drops at 1, the system is exhausted from 2 to 3. In order to allow full and quick exhausting, the valve must be mounted directly on the cylinder's air connection.

[SE] Quick exhaust valve



[SEU] Quick exhaust valve with silencer



With the quick exhaust valve SEU, the exhaust noise is reduced by silencers.

Type code

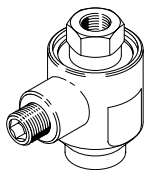
001	Series	
SEU	Quick exhaust valve with silencer	
SE	Quick exhaust valve	

002	Pneumatic connection	
1/8	G1/8	
1/4	G1/4	
3/8	G3/8	
1/2	G1/2	
3/4	G3/4	

003	Generation	
	None	
B	Series B	

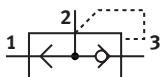
Datasheet

General technical data (quick exhaust valves SE)



Pneumatic connection, port 1	G1/8	G1/4	G3/8	G1/2	G3/4
Pneumatic connection, port 2	G1/8	G1/4	G3/8	G1/2	G3/4
Pneumatic connection, port 3	G1/8	G1/4	G3/8	G1/2	G3/4
Nominal size	5 mm	7 mm	11 mm	15 mm	19 mm
Valve function	Quick exhaust				
Type of mounting	Screw-in				With through-hole
Mounting position	optional				
Sound pressure level	100 dB(A)	–			

Function (quick exhaust valves SE)



Flow values (quick exhaust valves SE)

Pneumatic connection, port 1	G1/8	G1/4	G3/8	G1/2	G3/4
Standard nominal flow rate, exhaust 0.6- >0.5 MPa (6- >5 bar, 87->72.5 psi)	660 l/min	1,200 l/min	2,760 l/min	6,480 l/min	7,500 l/min
Standard nominal flow rate, air flow 0.6- >0.5 MPa (6- >5 bar, 87->72.5 psi)	300 l/min	960 l/min	2,880 l/min	4,560 l/min	2,500 l/min

Operating and environmental conditions (quick exhaust valves SE)

Operating and environmental conditions (quick exhaust valves G1/2)					
Pneumatic connection, port 1	G1/8	G1/4	G3/8	G1/2	G3/4
Operating pressure	0.5 ... 10 bar		0.2 ... 10 bar	0.3 ... 10 bar	0.5 ... 10 bar
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]	Compressed air to ISO 8573-1:2010 [7:-:-]			Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)				
Ambient temperature	-20 ... 75°C				
Media temperature	-20 ... 75°C				

Materials (quick exhaust valves SE)

Pneumatic connection, port 1	G1/8	G1/4	G3/8	G1/2	G3/4
Material housing	Die-cast zinc		Die-cast aluminium		Wrought aluminium alloy, Anodised
Material seals	NBR				
Note on materials	–		RoHS-compliant	–	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L				

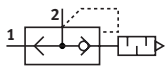
Datasheet

General technical data (quick exhaust valves SEU)



Pneumatic connection, port 1	G1/8	G1/4	G3/8	G1/2
Pneumatic connection, port 2	G1/8	G1/4	G3/8	G1/2
Pneumatic connection, port 3	—			
Nominal size	5 mm	7 mm	11 mm	15 mm
Valve function	Quick exhaust			
Type of mounting	Screw-in			
Mounting position	optional			
Sound pressure level	85 dB(A)	95 dB(A)	83 dB(A)	86 dB(A)

Function (quick exhaust valves SEU)



Flow values (quick exhaust valves SEU)

Pneumatic connection, port 1	G1/8	G1/4	G3/8	G1/2
Standard nominal flow rate, exhaust 0.6->0.5 MPa (6->5 bar, 87->72.5 psi)	550 l/min	1,100 l/min	2,280 l/min	4,020 l/min
Standard nominal flow rate, air flow 0.6->0.5 MPa (6->5 bar, 87->72.5 psi)	300 l/min	960 l/min	2,880 l/min	4,560 l/min
Standard nominal flow rate, exhaust 0.6->0 MPa (6->0 bar, 87->0 psi)	1,000 l/min	2,300 l/min	4,680 l/min	6,500 l/min

Operating and environmental conditions (quick exhaust valves SEU)

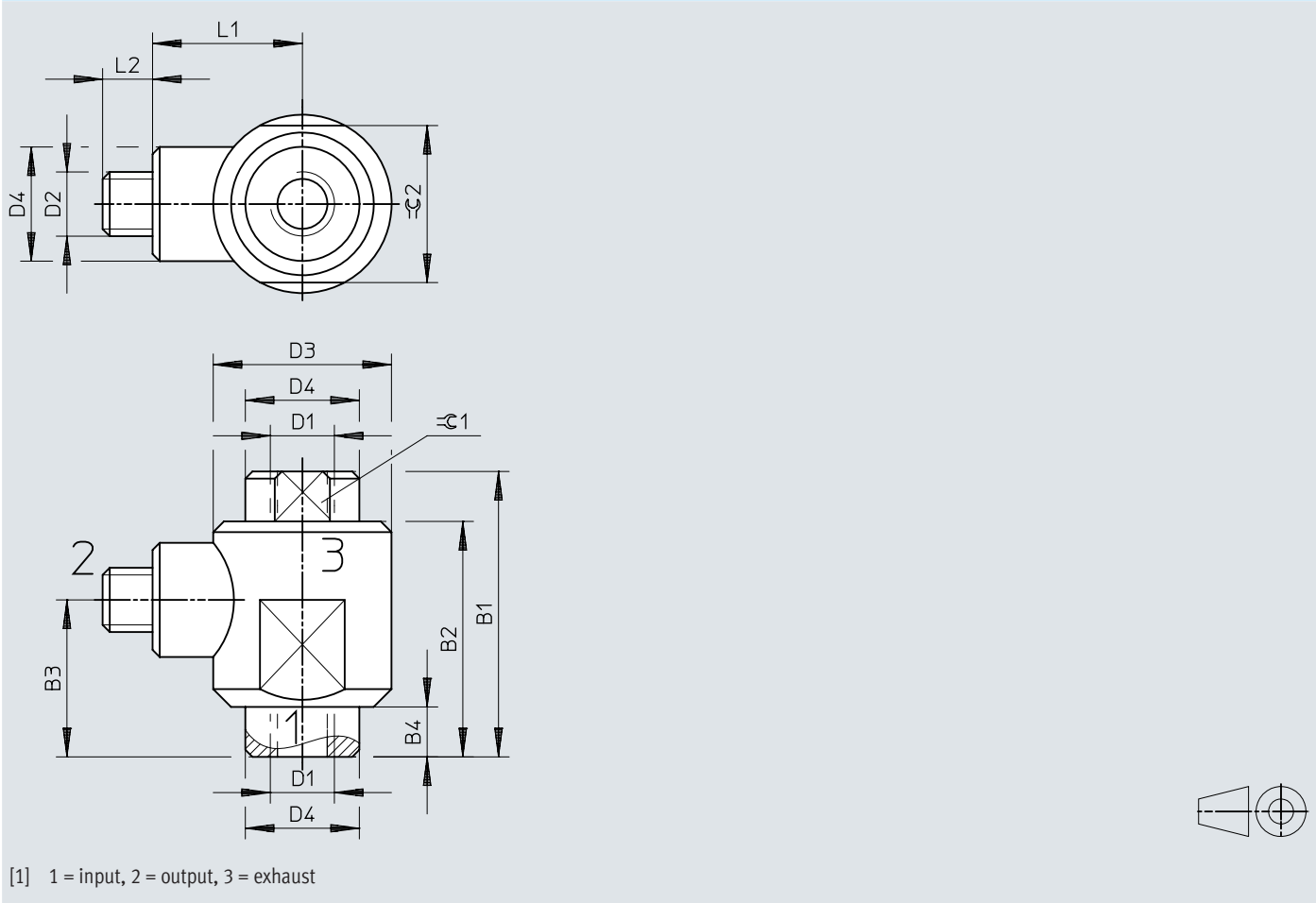
Pneumatic connection, port 1	G1/8	G1/4	G3/8	G1/2
Operating pressure	0.5 ... 10 bar		0.2 ... 10 bar	0.3 ... 10 bar
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]	Compressed air to ISO 8573-1:2010 [7:::]		
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)			
Ambient temperature	-20 ... 75°C			
Media temperature	-20 ... 75°C			

Materials (quick exhaust valves SEU)

Pneumatic connection, port 1	G1/8	G1/4	G3/8	G1/2
Material housing	Die-cast zinc		Die-cast aluminium	
Material seals	NBR			
Note on materials	–			
LABS (PWIS) conformity	VDMA24364-B1/B2-L			

Dimensions

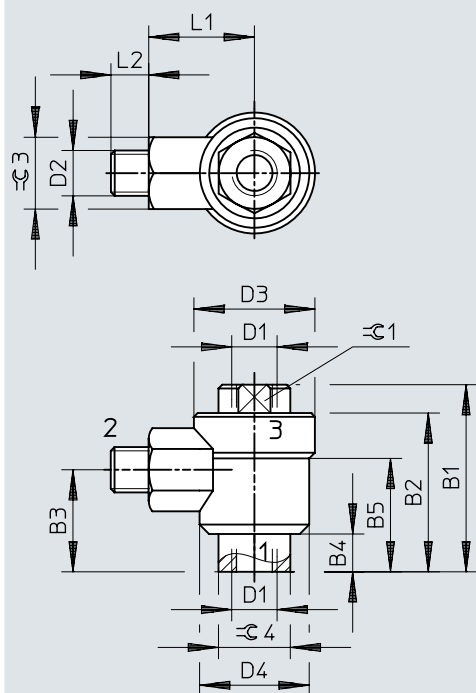
Dimensions – Pneumatic connection G1/8, SE Download CAD data www.festo.com



	D1	D2	B1	B2	B3	B4	D3 Ø	D4 Ø	L1	L2	≈ 1	≈ 2
SE-1/8-B	G1/8	G1/8	40	33	22	7	25	16	21	7	14	22

Dimensions

Dimensions – Pneumatic connection G1/4, SE

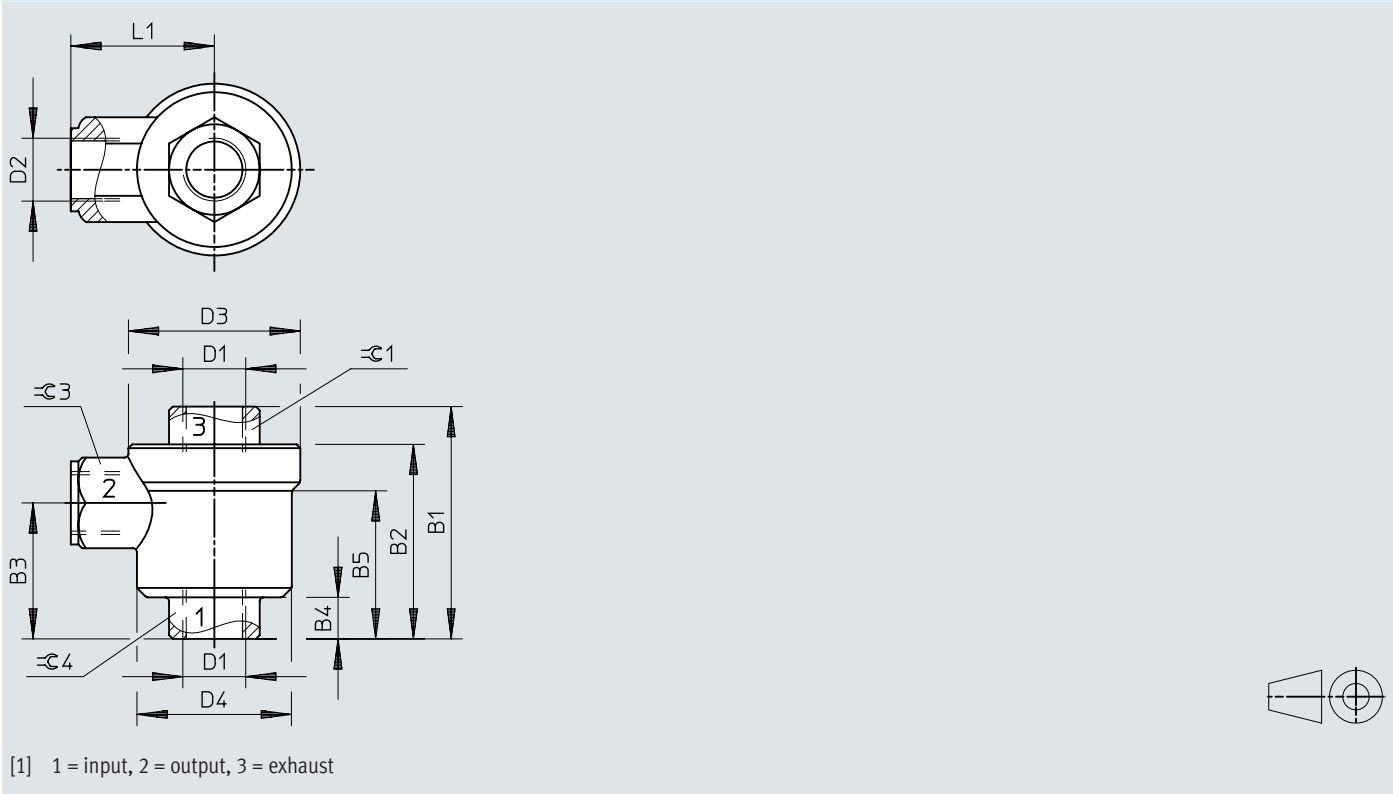
[Download CAD data](http://www.festo.com) www.festo.com


[1] 1 = input, 2 = output, 3 = exhaust

	D1	D2	B1	B2	B3	B4	B5	D3 Ø	D4 Ø	L1	L2	≈ 3	≈ 4	≈ 5
SE-1/4-B	G1/4	G1/4	49,5	42	27	10	30	33	29	28	10	17	19	19

Dimensions

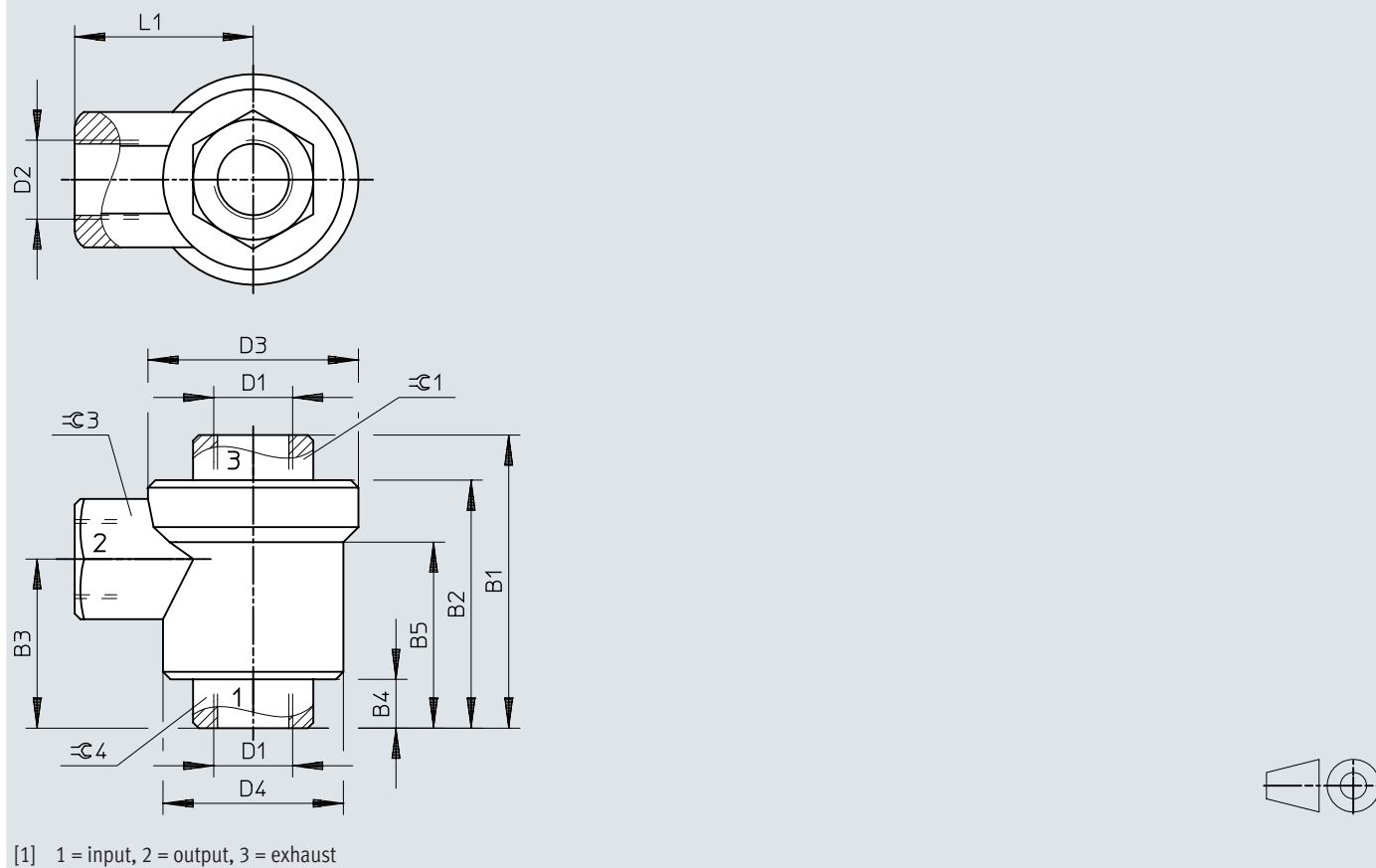
Dimensions – Pneumatic connection G3/8, SE Download CAD data www.festo.com



	D1	D2	B1	B2	B3	B4	B5	D3 Ø	D4 Ø	L1	1	3	4
SE-3/8-B	G3/8	G3/8	61,5	51,5	36	11	39,2	45,5	41	38	24	24	24

Dimensions

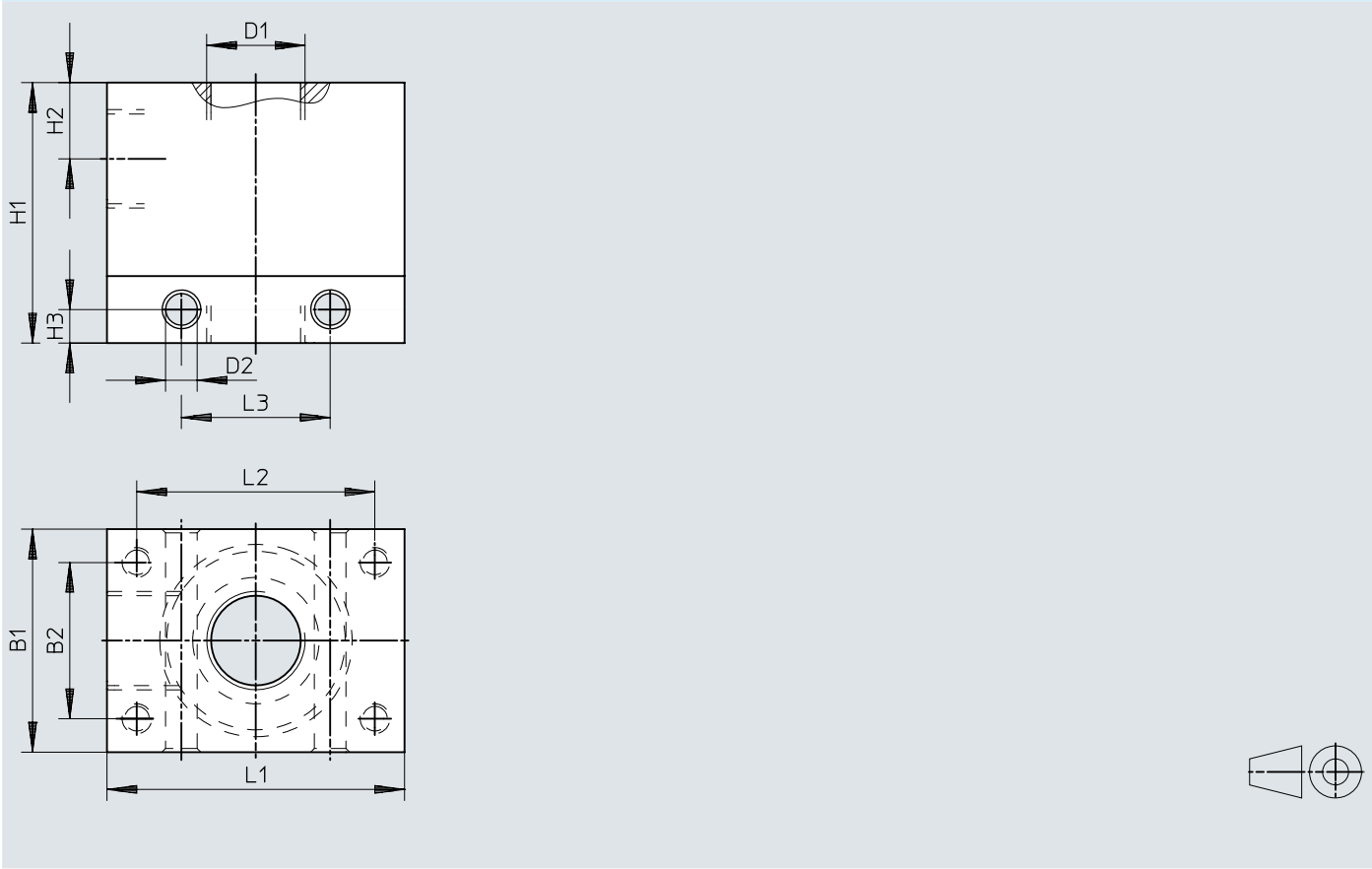
Dimensions – Pneumatic connection G1/2, SE

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	D1	D2	B1	B2	B3	B4	B5	D3	D4	L1	≧ 1	≧ 3	≧ 4
SE-1/2-B	G1/2	G1/2	78	66	45	13	49,5	56,5	48	47,5	30	32	32

Dimensions

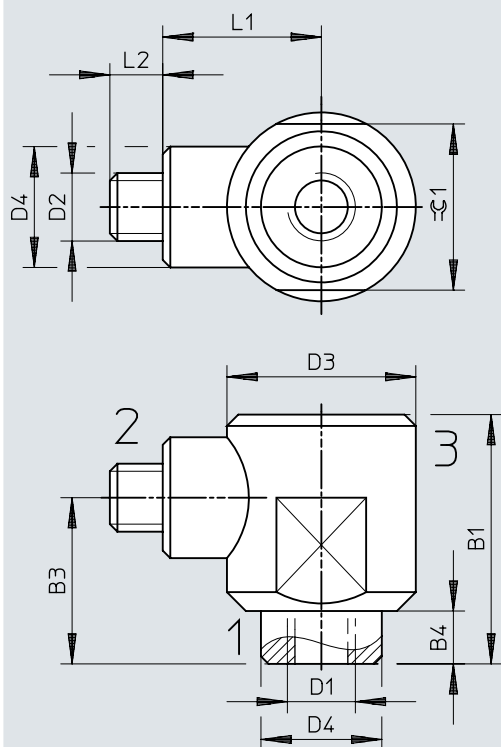
Dimensions – Pneumatic connection G3/4, SE Download CAD data www.festo.com



	D1	B1	B2	D2 Ø	H1	H2	H3	L1	L2	L3
SE-3/4	G3/4	60	42	8,5	70	20,5	9	80	64	40

Dimensions

Dimensions – Pneumatic connection G1/8, SEU

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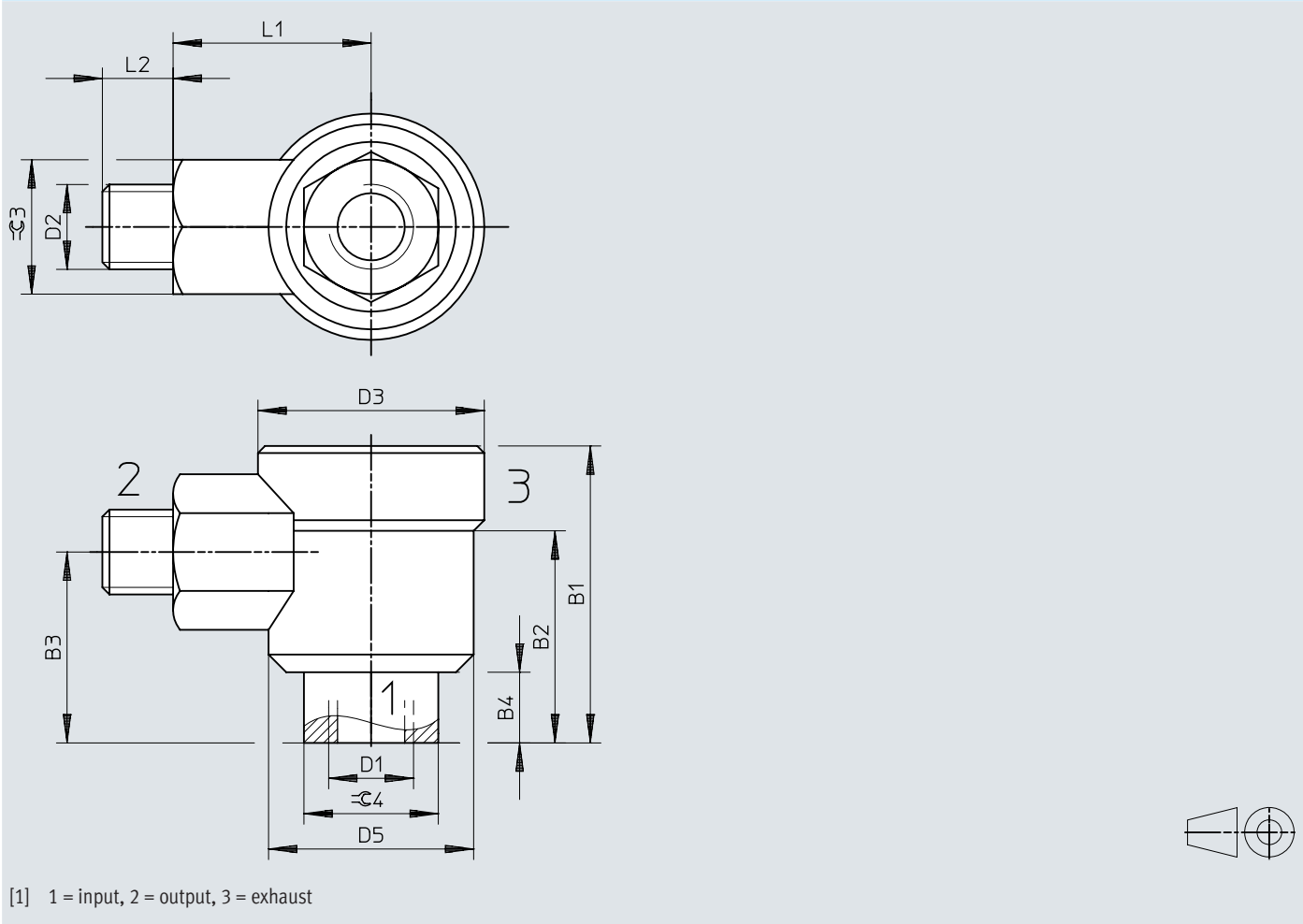
[1] 1 = input, 2 = output, 3 = exhaust



	D1	D2	B1	B3	B4	D3 Ø	D4 Ø	L1	L2	≈ 1
SEU-1/8	G1/8	G1/8	33	22	7	25	16	21	7	22

Dimensions

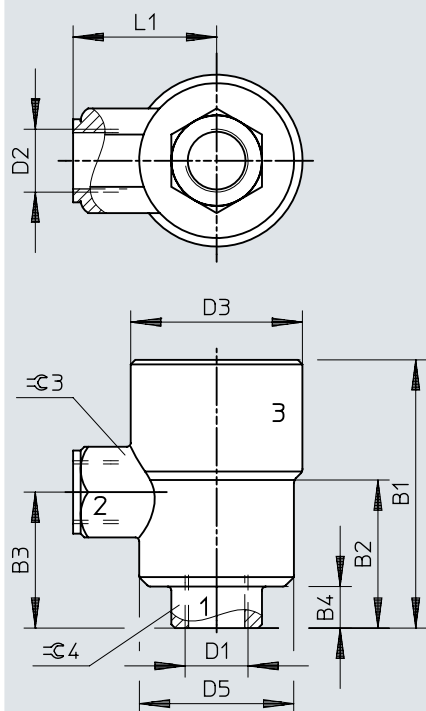
Dimensions – Pneumatic connection G1/4, SEU Download CAD data www.festo.com



	D1	D2	B1	B2	B3	B4	D3 Ø	D5 Ø	L1	L2	3	4
SEU-1/4	G1/4	G1/4	42,5	30	27	9,5	33	29	28	10	19	19

Dimensions

Dimensions – Pneumatic connection G3/8, SEU

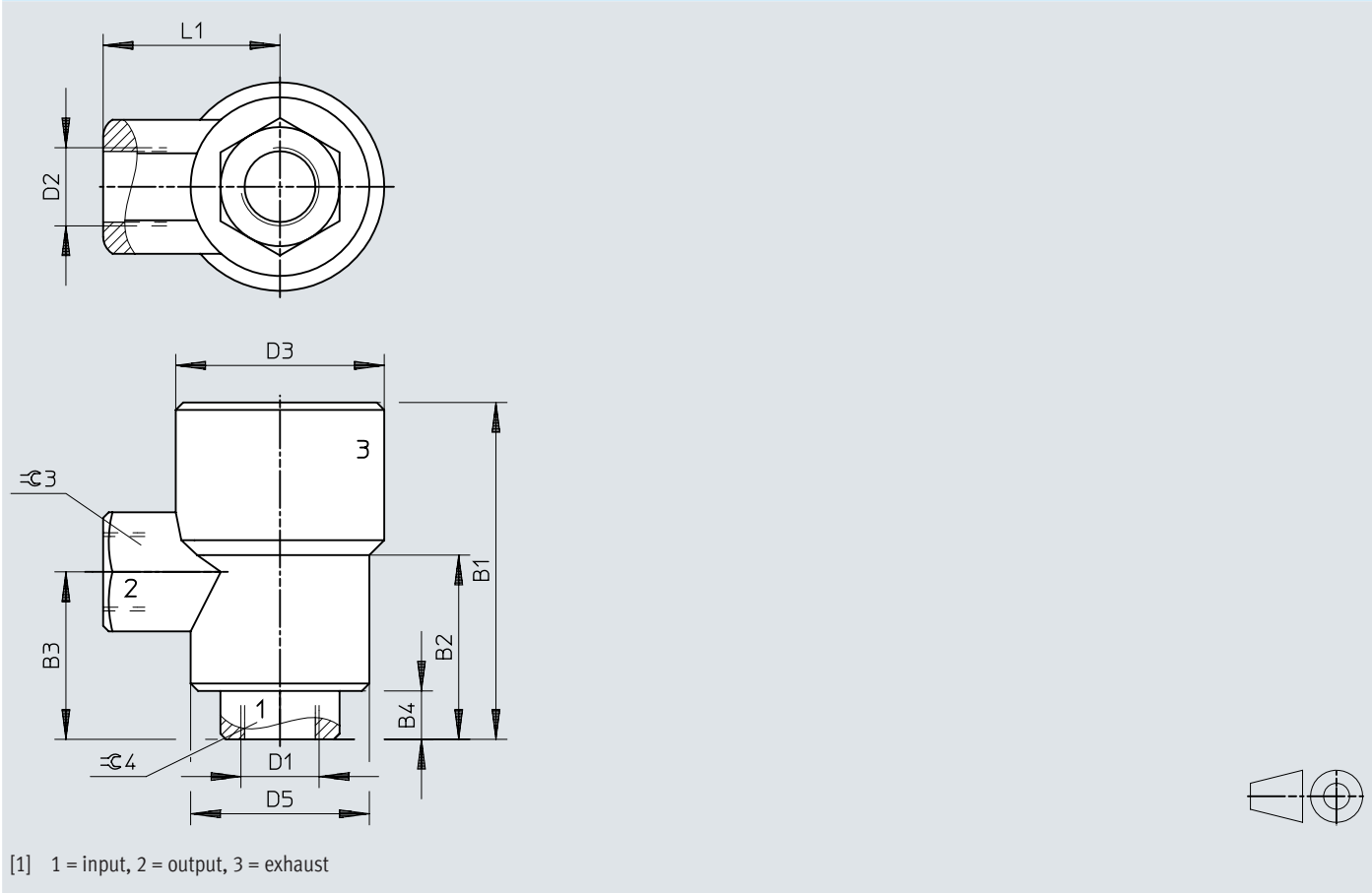
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[1] 1 = input, 2 = output, 3 = exhaust

	D1	D2	B1	B2	B3	B4	D3	D5	L1	⌀ 3	⌀ 4
SEU-3/8	G3/8	G3/8	71	39	36	11	45,5	41	38	24	24

Dimensions

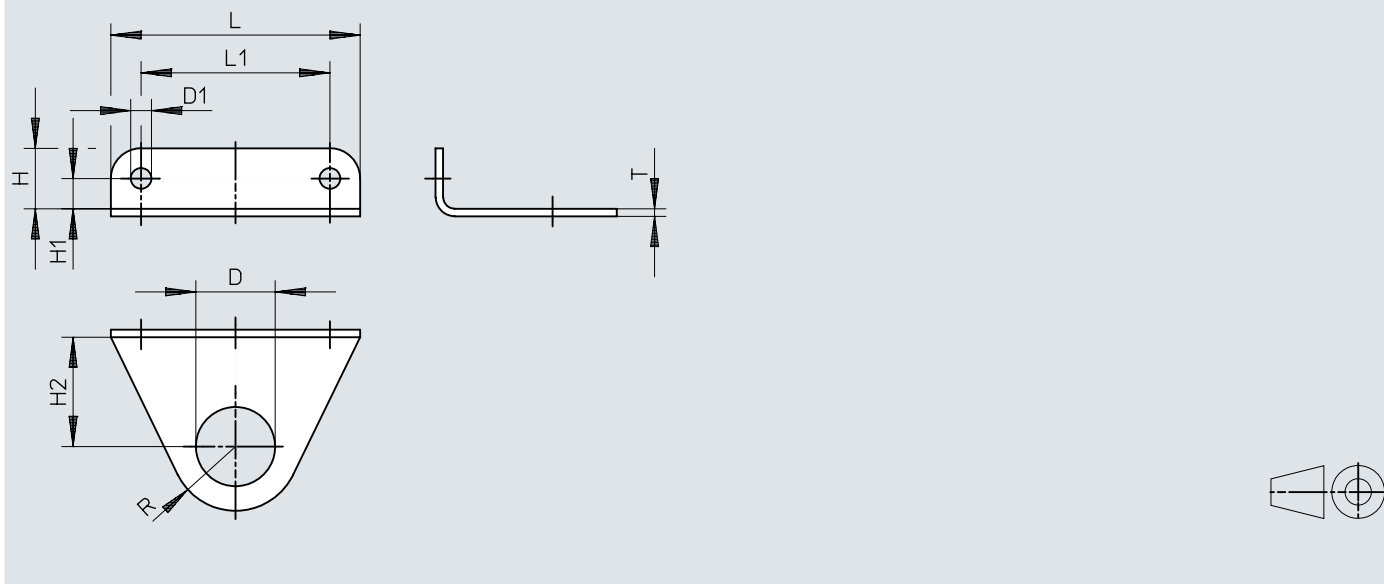
Dimensions – Pneumatic connection G1/2, SEU Download CAD data www.festo.com



	D1	D2	B1	B2	B3	B4	D3 Ø	D5 Ø	L1	3	4
SEU-1/2	G1/2	G1/2	90,5	49,5	45	13	56,5	48	47,5	32	32

Dimensions

Dimensions – Mounting bracket HSE

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	D Ø	D1 Ø	H	H1	H2	L	L1	R
HSE-1/8	10	4,5	11	6	13,5	40	30	10
HSE-1/4	13,2	4,5	11	6	17	42	32	14
HSE-3/8	16,8	5,5	13	7	23,5	54	42	13
HSE-1/2	21	5,5	16	8	29	66	50	17

Ordering data

Ordering data – without silencer						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Pneumatic connection, port 3	Product weight	Part no.	Type
	G1/8	G1/8	G1/8	75 g	9685	SE-1/8-B
	G1/4	G1/4	G1/4	100 g	9686	SE-1/4-B
	G3/8	G3/8	G3/8	125 g	9687	SE-3/8-B
	G1/2	G1/2	G1/2	200 g	9688	SE-1/2-B
	G3/4	G3/4	G3/4	710 g	2280	SE-3/4

Ordering data – with silencer						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Product weight	Part no.	Type	
	G1/8	G1/8	65 g	4616	SEU-1/8	
	G1/4	G1/4	120 g	6753	SEU-1/4	
	G3/8	G3/8	160 g	6755	SEU-3/8	
	G1/2	G1/2	320 g	6822	SEU-1/2	

Accessories

Mounting bracket HSE				
	Short type code	LABS (PWIS) conformity	Part no.	Type
	HSE	VDMA24364-B1/B2-L	8710	HSE-1/8
			8711	HSE-1/4
			8713	HSE-1/2
			8712	HSE-3/8