Quick exhaust valve VBQF

FESTO



Quick exhaust valve VBQF

Characteristics

At a glance

The quick exhaust valves VBQF can be used to achieve higher piston speeds during the return stroke of single-acting and double-acting drives. The compressed air flows from the control valve to the drive via the VBQF. When the pressure at port 1 drops, exhaust flow is from port 2 to port 3.

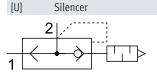
In order to enable quick and complete exhausting, the VBQF must be mounted directly on the supply port of the drive. The VBQF can be mounted in any position and can also be turned during installation (however, continuous rotation of the connection during operation must be avoided).

- Minimal height
- High flow rate
- Low noise emission
- Available with or without silencer

Exhaust



With ducted exhaust air, without silencer



With unfiltered exhaust air, with silencer

Type code

001	Series	
VBQF	Quick exhaust valve	
002	Exhaust	_
D	Ducted	٦
U	Silencer	

Pneumatic connection 2	
G1/4	
G1/8	
Pneumatic connection 1	
Same size as connection 2	
Push-in connector 6 mm	
Push-in connector 8 mm	
	G1/4 G1/8 Pneumatic connection 1 Same size as connection 2 Push-in connector 6 mm

Quick exhaust valve VBQF

Datasheet

General technical data									
Valve function	Quick exhaust								
Pneumatic connection, port 1	G1/8	G1/4	QS-6	QS-8					
Pneumatic connection, port 2	G1/8	G1/4	G1/8	G1/4					
Type of mounting	Screw-in	Screw-in							
Mounting position	optional								
Sound pressure level	75 dB(A)								

Operating and environmental conditions									
Pneumatic connection, port 1	G1/8	G1/4	QS-6	QS-8					
Operating pressure	0.5 10 bar		0.2 10 bar	0.5 10 bar					
Operating medium	Compressed air to ISO 8573-1:2010 [2	7:4:4]							
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)								
Ambient temperature	-20 80°C		-10 60°C						
Media temperature	-20 80°C		-10 60°C						
Standard nominal flow rate,	1,300 l/min	2,500 l/min	1,300 l/min	2,500 l/min					
exhaust 0.6->0 MPa (6->0 bar,									
87->0 psi)									
Standard nominal flow rate,	350 l/min	960 l/min	350 l/min	800 l/min					
air flow 0.6->0,5 MPa (6-									
>5 bar, 87->72.5 psi)									
Corrosion resistance class CRC	1 - Low corrosion stress								

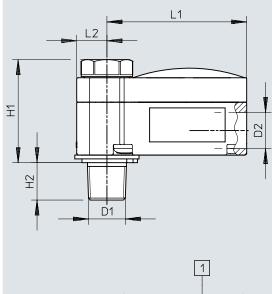
Materials						
Material housing	Die-cast aluminium, Die-cast zinc					
Material seals	NBR					
Note on materials	RoHS-compliant RoHS-compliant					
LABS (PWIS) conformity	VDMA24364-B1/B2-L					
Cleanroom class	Class 4 according to ISO 14644-1					

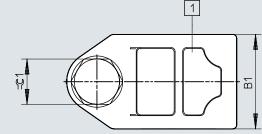
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Dimensions

Dimensions – Unducted extract air VBQF-U

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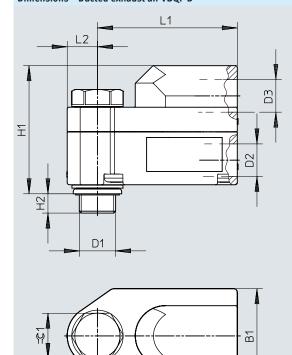


	D1	D2	B1	H1	H2	L1	L2	\\
VBQF-U-G18-E	C1 /0	G1/8	25	27.6	F 2	37	0	12
VBQF-U-G18-Q6	G1/8	QS-6	25	27,4	5,3	41	0	12
VBQF-U-G14-E	C1 / 4	G1/4	32	38	6.2	54	10 5	15
VBQF-U-G14-Q8	G1/4	QS-8	32	36	6,2	58	10,5	15

Dimensions

Dimensions – Ducted exhaust air VBQF-D

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	D1	D2	D3	B1	H1	H2	L1	L2	=©
VBQF-D-G18-E	C1 /0	G1/8	G1/8	25	33,9	F 3	37	0	12
VBQF-D-G18-Q6	G1/8	G1/8 QS-6 QS-8 25	55,9	5,5	41	0	12		
VBQF-D-G14-E	G1/4	G1/4	G1/4	32	42	6,2	54	10,5	15

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Ordering data

Ordering data – Unducted extract air						
	Pneumatic con- nection, port 1	Pneumatic con- nection, port 2	Nominal size	Product weight	Part no.	Туре
	G1/8	G1/8	5 mm	84.2 g	547531	VBQF-U-G18-E
	G1/4	G1/4	7 mm	226 g	548001	VBQF-U-G14-E
	QS-6	G1/8	5 mm	85.5 g	547532	VBQF-U-G18-Q6
	QS-8	G1/4	7 mm	232 g	548002	VBQF-U-G14-Q8

Ordering data – Ducted extract air						
	Pneumatic con- nection, port 1	Pneumatic con- nection, port 2	Nominal size	Product weight	Part no.	Туре
	G1/8	G1/8	5 mm	102.5 g	547533	VBQF-D-G18-E
	G1/4	G1/4	7 mm	253 g	548003	VBQF-D-G14-E
	QS-6	G1/8	5 mm	105 g	547534	VBQF-D-G18-Q6