Quick exhaust valves VBQF

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Product range overview and type codes

Function

2

Higher piston speeds can be achieved on the return stroke of single and double-acting drives with the quick exhaust valves VBQF.

Compressed air flows from the control valve via the VBQF to the drive. The

exhaust port 3 is closed at this time. When the pressure at 1 falls, exhaust flow occurs from 2 to 3.

In order to implement a quick exhaust, the VBQF must be attached directly to

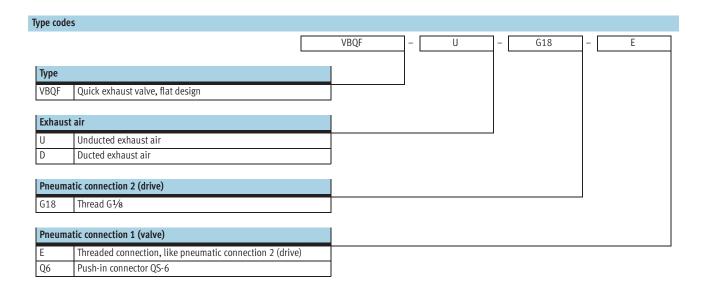
the supply port of the drive. The VBQF can be mounted in any position and can also be turned.

The VBQF is available with or without silencer.

Features:

- Minimal height
- High flow rate
- Improved noise emissions
- Can be rotated (continuous rotation of the connection must, however, be avoided)

Function	Version	Туре	Туре		Pneumatic connection					
				1 (valve)	2 (drive)					
Quick exhaust valves	Flat design	Flat design								
		VBQF-U	With silencer	G½, QS-6	G½	3				
		VBQF-D	Without silencer	G1/8, QS-6	G1/s	3				
	Compact design									
		SEU	With silencer	G½, G¼, G¾, G½	G½, G¼, G¾, G½	seu				
		SE	Without silencer	G1/8, G1/4, G3/8, G1/2	G1/8, G1/4, G3/8, G1/2	se				

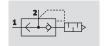




Quick exhaust valves VBQF Technical data

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Unducted exhaust air VBQF-U



Ducted exhaust air VBQF-D





Flow rate 1,300 l/min



Temperature range −20 ... +80 °C



Operating pressure 0.5 ... 10 bar



General technical data							
Exhaust air		Unducted exhaust a	ir VBQF-U	Ducted exhaust	Ducted exhaust air VBQF-D		
Pneumatic connection 1 (valve)		G1/8	QS-6	G1/8	QS-6		
Pneumatic connection 2 (drive)		G1/8	G1/8	G1/8	G1/8		
Pneumatic connection 3 (exhaust air)		- (silencer)	– (silencer)	G1/8	QS-8		
Valve function		Quick exhaust					
Nominal size	[mm]	5					
Type of mounting		Screw-in					
Mounting position		Any					
Noise level	[dB (A)]	75	75	-	_		

Flow rate characteristic values								
Exhaust air	Unducted exhaust air VBQF-U	Ducted exhaust air VBQF-D						
Standard nominal flow rate qnN [l/min] at 6 bar \rightarrow 5 bar								
Pressurisation $1 \rightarrow 2$	350	350						
Exhausting $2 \rightarrow 3$	-	850						
Standard flow rate qN [I/min] at 6 bar \rightarrow 0 bar								
Exhausting 2 3	1,300	1,300						

Operating and environmental conditions						
Type of connection		Threaded connection	Push-in connector QS			
Operating pressure	[bar]	0.5 10				
Operating medium		Filtered compressed air, lubricated or unlubricated, grade of filtration 40 µm				
Ambient temperature	[°C]	-20 +80	-10 +60			
Temperature of medium	[°C]	-20 +80	-10 +60			
Corrosion resistance class CRC ¹⁾		1				

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

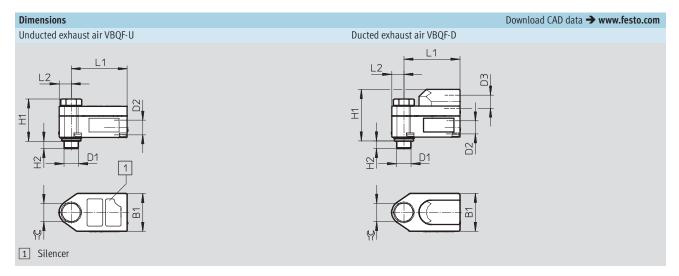
Materials					
Housing	Die-cast zinc				
Seals	NBR				
Note on materials	RoHS-compliant				



Quick exhaust valves VBQF Technical data

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4



Туре	B1	D1	D2	D3	H1	H2	L1	L2	=©
VBQF-UE	25	G1/8	G1/8	-	27.4	5.3	37	8	12
VBQF-UQ6			QS-6	-			41		
VBQF-DE	25	G1/8	G1/8	G1/8	33.9	5.3	37	- 8	12
VBQF-DQ6			QS-6	QS-8			41		

Ordering data							
Version	Pneumatic connection	Weight	Part No.	Туре			
	1 (valve)	2 (drive)	3 (exhaust air)	[g]			
	G ¹ /8	G ¹ / ₈	-	84.2	547531	VBQF-U-G18-E	
	QS-6	G ¹ / ₈	-	85.5	547532	VBQF-U-G18-Q6	
	G ¹ /8	G ¹ /8	G ¹ /8	102.5	547533	VBQF-D-G18-E	
	QS-6	G ¹ / ₈	QS-8	105.0	547534	VBQF-D-G18-Q6	