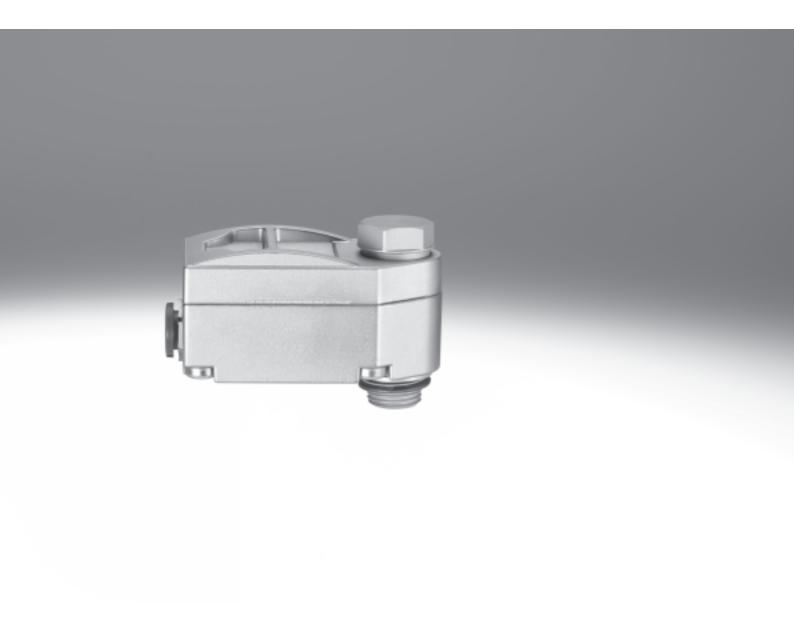
Quick exhaust valves VBQF

FESTO



Quick exhaust valves VBQF

FESTO

Product range overview and type codes

Function

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		Pneumatic connection	Pneumatic connection						
				1 (valve)	2 (drive)						
Quick exhaust valves	Flat design	Flat design									
		VBQF-U	With silencer	G½,	G1/8	3					
				QS-6							
				G½,	G1/4						
				QS-8							
		VBQF-D	Without silencer	G½,	G½8	3					
				QS-6							
				G1⁄4	G1⁄4						
	Compact design	1									
		SEU	With silencer	G½, G¼, G¾, G½	G½, G¼, G¾, G½	seu					
		SE	Without silencer	G½, G¼, G¾, G½, G¾	G1/8, G1/4, G3/8, G1/2, G3/4	se					

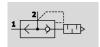
Туре сос	les							
		VBQF	_	U	- [G18	-	E
Туре								
VBQF	Quick exhaust valve, flat design		_					
Exhau	st air							
U	Unducted exhaust air							
D	Ducted exhaust air							
Pneun	natic connection 2 (drive)							
G18	Thread G1/8						_	
G14	Thread G ¹ / ₄							
Pneun	natic connection 1 (valve)							
E	Threaded connection, like pneumatic connection 2 (drive)							
Q6	Push-in connector QS-6							
Q8	Push-in connector QS-8							

Quick exhaust valves VBQF Technical data

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3

Unducted exhaust air VBQF-U

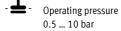


Ducted exhaust air VBQF-D





Temperature range -20 ... +80 °C



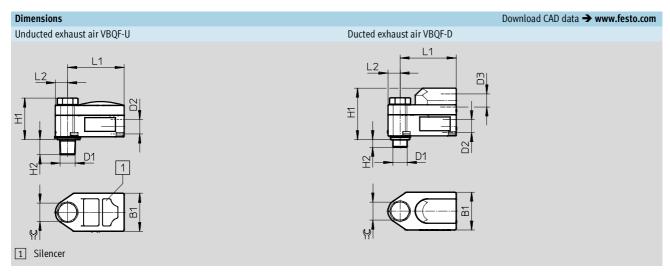


General technical data											
Exhaust air		Unducted exhaust air VBQF-U				Ducted ex	Ducted exhaust air VBQF-D				
Pneumatic connection 2 (drive)		G1/8		G1/4		G1/8		G1/4			
Pneumatic connection 1 (valve)	G1/8	QS-6	G1/4	QS-8	G1/8	QS-6	G1/4				
Pneumatic connection 3 (exhaust air)	- (silencer)		- (silencer)		G1/8	QS-8	G1/4				
Valve function	Valve function			Quick exhaust							
Nominal size [mm]		5		7		5		7			
Type of mounting		Screw-in									
Mounting position		Any									
Noise level	[dB (A)]	75		75		-		-			

Operating and environmental cond	litions						
Type of connection		Threaded connection	Push-in connector QS				
Operating pressure	[bar]	0.5 10					
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]					
Note on operating/pilot medium		Operation with lubricated medium possible (in which case lubricated operation will always be required)					
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, die-cast aluminium
Seals	NBR
Note on materials	RoHS-compliant



Туре	Connection D1	D2	D3	B1	H1	H2	L1	L2	\
VBQF-U-G18-E	G ¹ /8	G1/8	-	25	27.4	5.3	37	8	12
VBQF-U-G18-Q6	G-78	QS-6	-	25	27.4	5.5	41	0	12
VBQF-U-G14-E	G1/4	G1/4	-	- 32	38	6.2	54	10.5	15
VBQF-U-G14-Q8	G-74	QS-8	_				58		
VBQF-D-G18-E	G1/8	G1/8	G1/8	25	33.9	5.3	37	8	12
VBQF-D-G18-Q6	078	QS-6	QS-8	۷,	22.3	J.J	41		12
VBQF-D-G14-E	G1/4	G1/4	G1/4	32	42	6.2	54	10.5	15

Ordering da	ta								
Version	Pneuma	itic connecti	on	Standard nomin	al flow rate qnN	Standard flow rate qn	Weight	Part No.	Туре
				at 6 bar \rightarrow 5 ba	ar	at 6 bar \rightarrow 0 bar			
				Pressurisation	Exhausting	Exhausting			
				$1 \longrightarrow 2$	$2 \rightarrow 3$	$2 \rightarrow 3$			
	2	1	3	[l/min]	[l/min]	[l/min]	[g]		
Unducted ex	khaust air								
\sim	G1/8	G1/8	-	350	-	1,300	84.2	547531	VBQF-U-G18-E
		QS-6	-	350	-	1,300	85.5	547532	VBQF-U-G18-Q6
	G1/4	G1/4	-	960	-	2,500	226	548001	VBQF-U-G14-E
		QS-8	-	800	-	2,500	232	548002	VBQF-U-G14-Q8
	•	•	•				•		
Ducted exha	ust air								
<u> </u>	G1/8	G1/8	G1/8	350	850	1,300	102.5	547533	VBQF-D-G18-E
	1 I	QS-6	QS-8	350	850	1,300	105	547534	VBQF-D-G18-Q6
	G1/4	G1/4	G1/4	960	1,500	2,500	253	548003	VBQF-D-G14-E