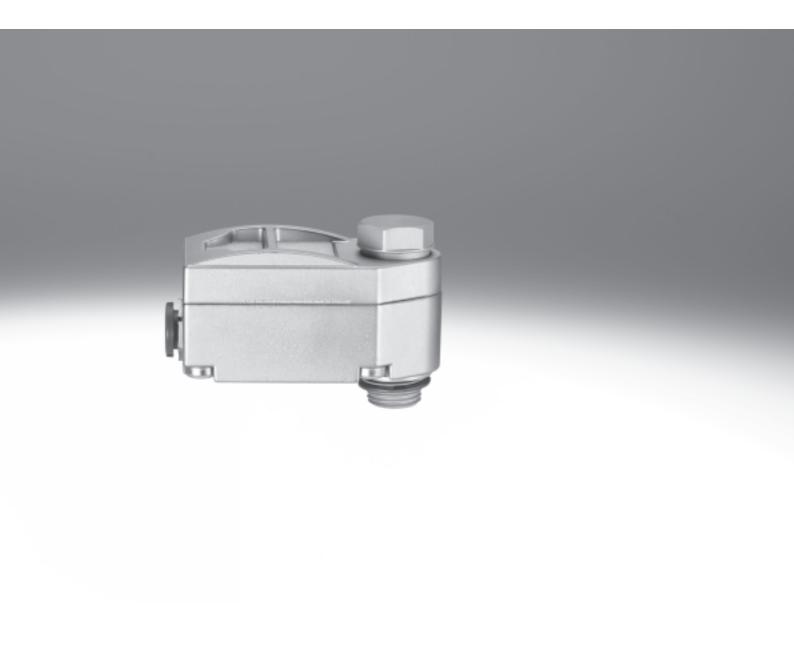
Quick exhaust valves VBQF

FESTO





Quick exhaust valves VBQF

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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

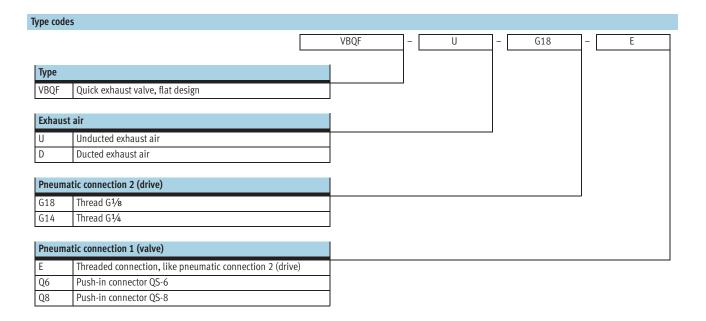
the supply port of the drive. The VBQF can be mounted in any position and can also be turned.

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									
		VBQF-U	With silencer	G1/8,	G1/8	3				
				QS-6						
				G1⁄4,	G1/4					
				QS-8						
	600	VBQF-D	Without silencer	G½,	G1/8	3				
				QS-6						
				G1/4	G ¹ / ₄					
	Compact design			·	·					
		SEU	With silencer	G1/8, G1/4, G3/8, G1/2	G½, G¼, G¾, G½	seu				
		SE	Without silencer	G1/8, G1/4, G3/8, G1/2, G3/4	G1/8, G1/4, G3/8, G1/2, G3/4	se				

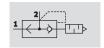




Quick exhaust valves VBQF Technical data

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Unducted exhaust air VBQF-U



2,500 l/min Temperature range −20 ... +80 °C

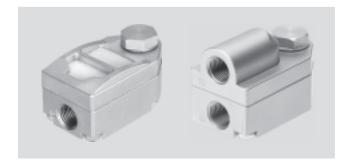
0.5 ... 10 bar

Pressure

Flow rate

Ducted exhaust air VBQF-D





General technical data								
Exhaust air		Unducted exhaust air VBQF-U				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		Quick exhaust						
Nominal size [mm]		5		7		5		7
Type of mounting	Screw-in Screw-in							
Mounting position		Any						
Noise level	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					

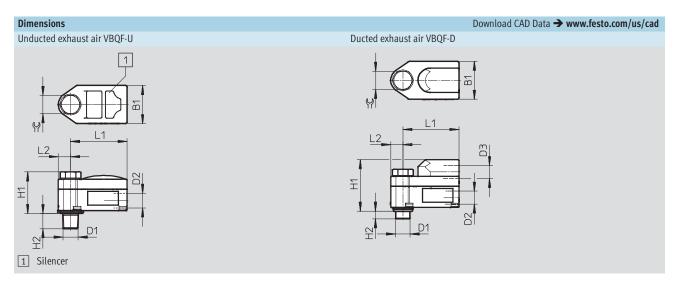
¹⁾ Corrosion resistance class 1 according to Festo standard 940 070 Components subject to low corrosion stress. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

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



Quick exhaust valves VBQF Technical data

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Туре	Connection D1	D2	D3	B1	H1	H2	L1	L2	=©
VBQF-U-G18-E	G1/8	G1/8	-	25	27 /	F 2	37	8	12
VBQF-U-G18-Q6	U-78	QS-6	-	25	27.4	5.3	41	٥	12
VBQF-U-G14-E	G1/4	G1/4	-	32	38	6.2	54	10.5	15
VBQF-U-G14-Q8	U-74	QS-8	-	32	30	0.2	58	10.5	13
VBQF-D-G18-E	G1/8	G1/8	G1/8	25	33.9	5.3	37	8	12
VBQF-D-G18-Q6	U-78	QS-6	QS-8	23	33.3	J.J	41	0	12
VBQF-D-G14-E	G1/4	G1/4	G1/4	32	42	6.2	54	10.5	15

Ordering dat	ta								
Version F	Pneuma	tic connecti	on	Standard nomin	al flow rate qnN	Standard flow rate qn	Weight	Part No.	Type
				at 6 bar \rightarrow 5 ba	ar	at 6 bar \rightarrow 0 bar			
				Pressurisation	Exhausting $2 \rightarrow 3$	Exhausting			
				$1 \longrightarrow 2$		$2 \rightarrow 3$			
	2	1	3	[l/min]	[l/min]	[l/min]	[g]		
Jnducted ex	haust air								
2 0	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
	G1/4		_						
Ducted exha	ust air								
G1/8	G1/8	G1/8	G1/8	350	850	1,300	102.5	547533	VBQF-D-G18-E
		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

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components Complete custom engineered solutions



Custom Control Cabinets Comprehensive engineering support and on-site services



Complete Systems Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical Electromechanical actuators, motors, controllers & drives



Pneumatics Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices PLC's, operator interfaces, sensors and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



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