

Pneumatic control elements

VFOF/VBNF/VBQF

FESTO



A space-saving miracle!

Highlights

- Up to 3 functions in one component: saves time, costs and installation space
- At least 50 % space saving: can be directly mounted very close to the drive unit
- The in-line version is a very good alternative if space on the drive is limited
- Energy-efficient thanks to fewer interfaces
- Easy to operate and install
- Can be used universally

The new compact control elements from Festo for pneumatic drive solutions are extremely innovative. They save valuable installation space thanks to their improved design and the integration of several control functions in one component. And they also allow you to gain time and ensure reliability during commissioning!

A practical design with many benefits

- It saves more than 50 % on space, since it can be directly mounted very close to the drive unit
- It is easy to use with a standard tool for set-up, and a choice of actuating directions
- Quick and reliable to mount
- It saves time and costs as up to 3 functions are integrated in one component
- You make savings, from procurement to warehousing
- Energy and environmentally friendly thanks to reduced compressed air losses and lower noise emissions

Pneumatic control functions

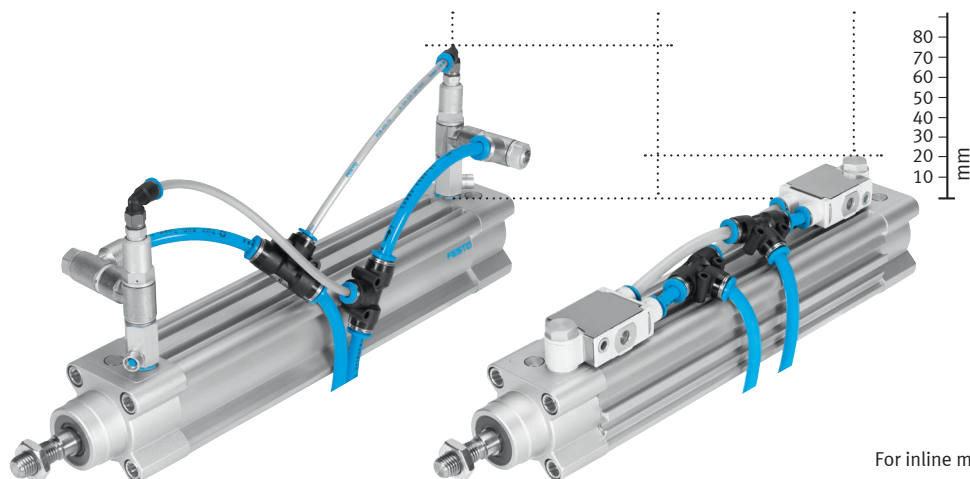
- Quick exhaust valve VBQF with or without silencer for higher cycle times on the drive
- Function combination 1 – Check valve VBNF, pneumatically actuated: for a brief intermediate stop of the cylinder movement. Plus: individual manual exhausting of the cylinder chamber, e.g. for servicing
- Function combination 2 – all three functions are integrated in the VFOF-LE-BAH: variable piston speeds, brief intermediate stop and individual manual exhausting
- Variants for direct and inline mounting



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Added value at a glance: saving installation space, time and costs!



50 % space saving: the conventional version on the left and the new, space-saving and reliable solution with VFOF-LE-BAH on the right.



For inline mounting

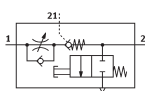
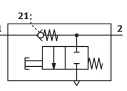
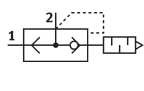
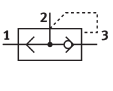


For direct mounting



Three functions in a one-way flow control valve: perfect function integration!

Technical data*

Symbol				
Valve function	VFOF-LE-BAH One-way flow control valve for exhaust air (pneumatically actuated) with manual exhaust function	VBNF Check valve (pneumatically actuated) with manual exhaust function	VBQF-U Quick exhaust valve (with silencer)	VBQF-D Quick exhaust valve (without silencer)
Adjusting component/flow control valve	Internal hex	–		
Actuation/exhaust valve	Manual	Manual	–	–
Standard nominal flow rate q _N 6 → 5 bar In flow control direction In non-return direction [l/min]	590 310 ... 540	620	–	–
Standard nominal flow rate in the pressurisation direction [l/min]	–	–	0 ... 960	0 ... 960
Standard nominal flow rate in the exhaust direction [l/min]	–	–	0 ... 2500	0 ... 1500
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]			
Operating pressure [bar]	0.2 ... 10	0.2 ... 10	0.5 ... 10	0.5 ... 10
Pilot pressure [bar]	2 ... 10	2 ... 10	–	–
Noise level [dB (A)]	–	–	75	–
Ambient temperature [°C]	–10 ... +60	–10 ... +60	–20 ... +80	–10 ... +60

* The technical data is based on size 1/4. The available range also includes variants in sizes 1/8, QS4 and QS6 for inline assembly.