

Pressure booster DPA

FESTO



Let us give you a boost!

An inexpensive way to raise air pressure directly at an application - the pneumatic pressure booster DPA, available in 3 sizes, each with 2 pressure ranges and 3 further variants. Working purely mechanically and without an external energy supply, the booster provides a secondary pressure which is up to 2 times higher than the primary pressure in order to generate higher drive forces when space is limited.



More efficiency means less expense

- Local increase of working pressure directly at application
- Automatically stops air delivery at preset pressure level
- Improved design with the variant DPA-A with integrated magnetic sensor as part of condition monitoring concept

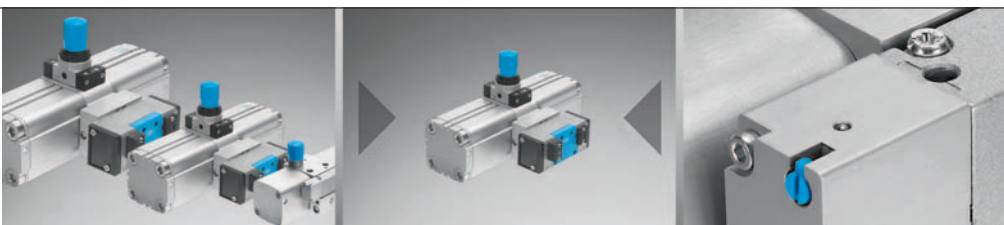
More choice

- Three variants offer respectively sensing, a pressure boost of precisely 2 x pressure amplification and a DPA solution with reservoir and bypass.

- The pressure booster can be installed in any desired positioning and with its compact design, enables optimum positioning even where difficult installation conditions prevail.

Higher process reliability

- Booster starts automatically if pressure drops to ensure reliably consistent operating pressure
- Manual override and quick exhaust to help avoid machine downtime



Flexible!

Compact!

Higher process reliability!

418.1.PSI →

Product Short Information

Pressure booster DPA

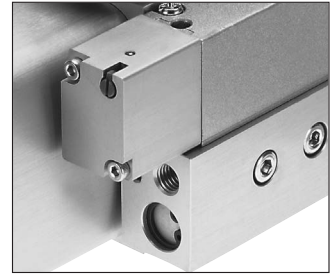
Technical data	40 – 10	63 – 10	100 – 10	40 – 16	63 – 16	100 – 16
Version	Standard version					
		Variant A			Variant A	
	Variant D ¹⁾					
	Variant CRVZS					
Design	Twin-piston pressure booster (ratio 1:2)					
Installation position	As desired					
Operating medium	Filtered unlubricated compressed air, degree of filtration 40 µm					
Pneumatic connection	G 1/4	G 3/8	G 1/2	G 1/4	G 3/8	G 1/2
Primary pressure P1 [bar]	2.5 ... 8	2 ... 8		2.5 ... 10	2 ... 10	
Secondary pressure P2 [bar]	4.5 ... 10 Δp≥2	4 ... 10 Δp≥2		4.5 ... 16 Δp≥2	4 ... 16 Δp≥2	
Flow rate Qmax.	300	1000	3000	300	1000	3000
High-pressure side [std. l/min.]						
Ambient temperature [°C]	+5 ... +60					
Corrosion resistance ²⁾	CRC2					
PWIS-free?	Free of paint wetting impairment substances					
Mounting (required only for mounting from above)	Flange	Foot mounting		Flange	Foot mounting	

¹⁾ Step-up ratio 1:2 only, no adjustment of secondary pressure possible

²⁾ Corrosion resistance class 2 in accordance with Festo standard 940 070 for standard corrosion-protection requirements.

Integrated quick exhaust to avoid machine downtime

Included as standard with all sizes, a new quick exhaust that prevents the piston from stopping in its mid-position. This means that the pressure booster works even more reliably, ensuring trouble-free operation of your installation.



Integrated sensing

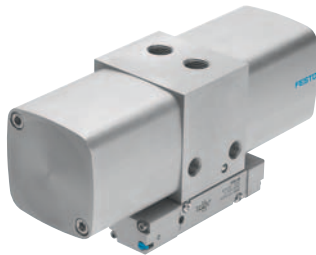
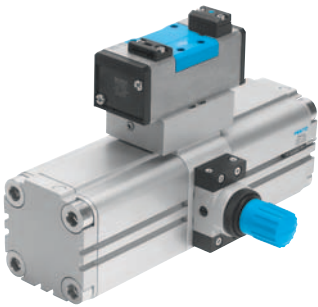
Thanks to its integrated magnet, DPA-...-A makes it possible to count the number of piston cycles completed by the pressure booster – condition monitoring right at the start of the system chain. In combination with SME, FEC or FED, this enables easier assessment of sizing and optimisation of the application.

Double the pressure

DPA-...-D is particularly suitable for applications where economy is important. It provides a simple doubling of operating pressure (precisely 1:2). For absolute precision, a pressure regulator LRP can be installed downstream.

Pre-assembled ...

... with a reservoir, pressure regulator and accessories: The DPA-...-CRVZS makes pressure amplification even easier. Also included in the package, ready-installed: A bypass for faster pressure amplification thanks to pre-filling of reservoir.



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