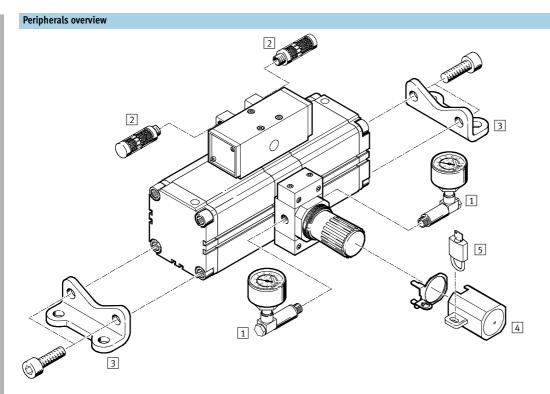
Pressure boosters DPA Peripherals overview and type codes



Mou	nting attachments and accessories	Brief description	→ Page
1	Pressure gauge set	The pressure gauge set is used to monitor the input and high	3 / 4.7-5
	MA-SET	pressure	
2	Silencers	The silencers are provided to reduce noise at the valve exhaust port	3 / 4.7-5
	U		
3	Foot mounting	The pressure booster can be attached to other machine parts by	3 / 4.7-5
	HUA	means of the two foot mountings	
4	Regulator lock	Prevents unintentional, and in conjunction with an LRVS padlock,	3 / 4.7-6
	LRVS with lock plate	unauthorised adjustment of the rotary knob	
5	Padlock	Accessory for LRVS	3 / 4.7-6
	LRVS-D		

Type codes					
		DPA	63	-	16
Basic fund	tion				
DPA	Pressure boosters				
Piston \varnothing	[mm]				
63					
Output pro	essure [bar]				
10	4 10				
16	4 16				

Pressure boosters DPA

Technical data

Function



Temperature range +5 ... +60 °C





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Note

The regulator is supplied with a non-compressed regulator spring. After the input pressure is applied, the regulator spring is pretensioned by turning the regulating knob until the desired output pressure is achieved. A pressure gauge is strongly recommended to monitor the output pressure. The regulator setting can be secured against unauthorised adjustment by means of a regulator lock.

The pressure booster is a twin-piston pressure intensifier that can compress air.

When the DPA is pressurised with compressed air, integrated directional control and non-return valves automatically facilitate pressure build-up on the secondary side up to twice the normal operating pressure, depending on the flow rate.

The air supply to both drive pistons is controlled by a pneumatic directional control valve, which reverses automatically when the stroke endposition is reached.

The output pressure is freely selectable; it lies between the system pressure and the maximum double

The reference value is set using a manually operated regulator, which supplies compressed air to the working pistons on the secondary side and ensures stable operation of the booster.

The booster starts automatically when the system pressure is applied and the desired output pressure has not yet been reached.

When the output pressure is reached, it stops operating automatically but restarts if the pressure drops again.

All benefits at a glance

- Any mounting position
- Long service life
- Compact construction and good design
- Mounting option with components from the ADVU standard range
- Minimal loss of volume with valve activation
- Short filling times

General technical data									
Туре		DPA-63-10	DPA-100-10	DPA-63-16	DPA-100-16				
Pneumatic connection		G3/8	G½	G3/8	G ¹ / ₂				
Operating medium		Compressed air, filtered, unlul	bricated, grade of filtration 5µn	1					
Design		Twin-piston pressure intensifie	er						
Mounting position		Any							
Input pressure p1	[bar]	2 8		2 10					
Output pressure p2	[bar]	4 10 ¹⁾		4 16 ¹⁾					
Pressure indicator G½ prepared			G1/4 prepared	G½ prepared	G½ prepared				

 $1) \quad \text{ The differential pressure between the input and output pressure must be at least 2 bar.} \\$

value.

Ambient conditions							
Ambient temperature	[°C]	+5 +60					
Corrosion resistance	CRC ¹⁾	2					

¹⁾ Corrosion resistance class 2 according to Festo standard 940 070 Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating agents.

Materials

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Weights [g]									
	DPA-63-10	DPA-100-10	DPA-63-16	DPA-100-16					
Pressure boosters	6,000	13,000	6,000	8,000					

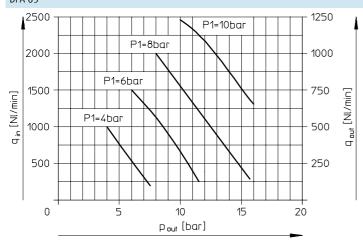
Recommended tubing							
	Low pressure range	High pressure range					
DPA-63	PAN-12x1,75	PAN-10x1,5					
DPA100	PAN-16x2	PAN-12x1,75					

Sectional view 2 3 6 7 8 1 4 5

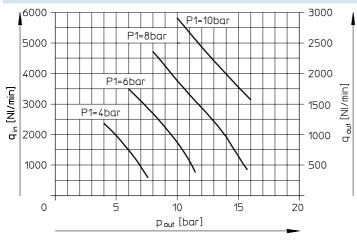
Pres	sure boosters	
1	Plug cap	Aluminium
2	Round nut	Galvanised steel
3	Valves	Die-cast aluminium, polyacetate
4	Rotary knob	Acetal
5	Protective cover	Acrylic butadiene styrene
6	Centre bit	Aluminium
7	Housing	Die-cast zinc
8	Cylinder barrel	Aluminium
-	Seals, regulator	Nitrile rubber
-	Seals, valve	Nitrile rubber

Technical data

Flow rate at input q_{in} and flow rate at output q_{out} as a function of output pressure p_{out}

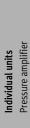


DPA-100

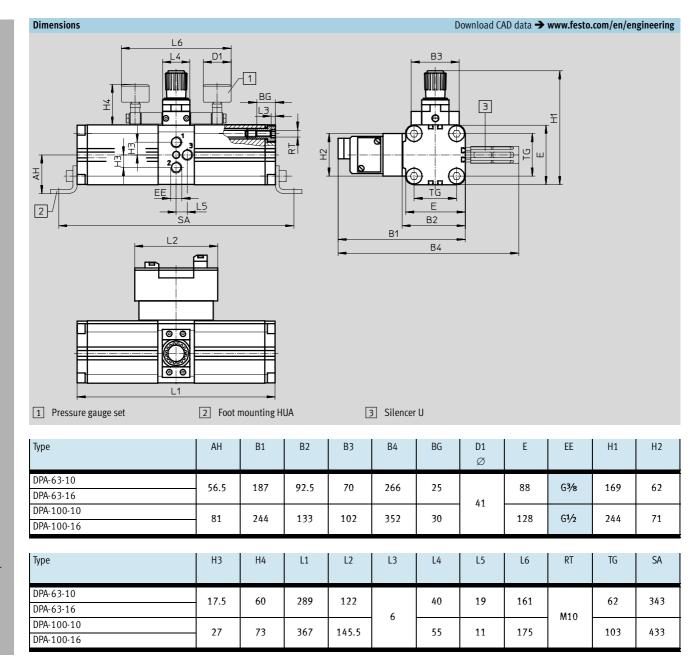


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Ordering data				
	Output pressure 4 16 bar			
Size	Part No. Type	Part No. Type		
63	184 518 DPA-63-10	193 392 DPA-63-16		
100	184 519 DPA-100-10	188 399 DPA-100-16		

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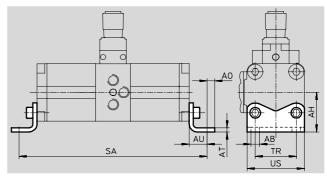
Pressure boosters DPA

Accessories

Foot mounting HUA

Material: Galvanised steel Free of copper, PTFE and silicone





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Ordering data										
Size	AB	AH	AO	AT	AU	SA	TR	US	Part No.	Туре
	Ø									
63	11	56.5	11.75	6	27	343	62	85.5	157 315	HUA-63
100	13.5	81	11.75	8	33	433	103	126.5	157 317	HUA-100

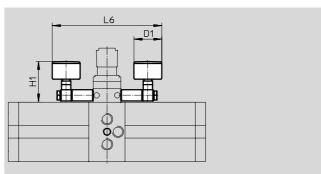
Pressure gauge set DPA-MA

If the pressure gauge scale is to be specifically aligned, PTFE sealing tape must be used instead of the included sealing rings.

Material:

Housing: Acrylic butadiene styrene Window shield: Polystyrene Connection piece: Brass





Ordering data					
Size	D1	H1	L6	Part No.	Туре
	Ø				
63-10	41	60	160.5	526 096	DPA-63-10-MA-SET
63-16	41	00	100.5	526 097	DPA-63-16-MA-SET
100-10	41	73	175	526 098	DPA-100-10-MA-SET
100-16	41	73	1/5	526 099	DPA-100-16-MA-SET

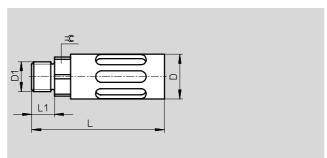
Silencer U

Material:

Housing: Die-cast aluminium Insert: Polyethylene

Free of copper, PTFE and silicone





Ordering data									
Connection	D	D1	L	L1	=©	Part No.	Туре		
G ³ /8	25	G3/8	88.5	10.5	19	6843	U-3/8-B		
G½	28	G1/2	120	14	24	6844	U-1/2-B		

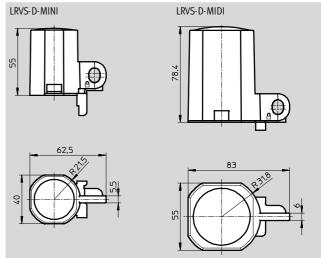
Core Range

FESTO

Regulator lock LRVS

Material: Cap: Polyacetate Lock plate: Steel Knurled nut: Aluminium





Ordering data				
Size	Weight	Part No.	Туре	
	[g]			
63	40	193 781	LRVS-D-MINI ¹⁾	
100	60	193 782	LRVS-D-MIDI ¹⁾	

1) Free of copper, PTFE and silicone

Padlock LRVS-D

Material: Housing: Brass



Ordering data				
	Weight	Part No.	Туре	
	[g]			
Padlock	120	193 786	LRVS-D	

4.7