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 code	es					
		DPA		63	-	16
Basic fu	unction		1			
DPA	Pressure boosters					
Piston 9	Ø [mm]					
Output	pressure [bar]					
10	4 10					
16	4 16					

Technical data





Input pressure 2 ... 10 bar



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 value.

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 vet 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

FESTO

- Mounting option with components from the ADVU standard range
- Minimal loss of volume with valve activation
- Short filling times

	lits
DPA-100-16	Individual units
G1⁄2	vidu
	Indiv
	4.

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

1) The differential pressure between the input and output pressure must be at least 2 bar.

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.

Pressure amplifie

4.7

Technical data

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							

Materials

Sectional view





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



DPA-100 6000 3000 P1=10bar P1=8bar 5000 2500 4000 2000 P1=6bar q _{in} [Nl/min] q _{out} [NI/min] 3000 1500 P1=4bar 2000 1000 1000 500 5 0 10 15 20 p_{out} (bar)

Technical data



Urdering data								
	Output pressure 4 10 bar		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					

Accessories

Foot mounting HUA

Material: Galvanised steel Free of copper, PTFE and silicone





FESTO

Ordering data

oracinis aata										
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	د ر	1/5	526 099	DPA-100-16-MA-SET

Silencer U

Material: Housing: Die-cast aluminium Insert: Polyethylene Free of copper, PTFE and silicone





D	D1	L	L1	⊃=	Part No.	Туре
25	G3⁄8	88.5	10.5	19	6843	U-3⁄8-B
28	G1⁄2	120	14	24	6844	U-1/2-B
	25	25 G ³ ⁄8	25 G¾ 88.5	25 G ¾ 88.5 10.5	25 G¾ 88.5 10.5 19	25 G¾ 88.5 10.5 19 6843

Core Range

_

Accessories

Regulator lock LRVS

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









Ordering data				
Size	Weight	Part No. Type		
	[g]			
63	40	193 781 LRVS-D-MI	NI ¹⁾	
100	60	193 782 LRVS-D-MI	DI ¹⁾	

1) Free of copper, PTFE and silicone

Padlock LRVS-D

Material: Housing: Brass



Ordering data

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

