Pressure booster DPA

Key features

Function

The pressure booster is a twin-piston pressure intensifier used only for compressing air.
When the DPA is pressurised with compressed air, integrated check valves automatically ensure the pressure on the secondary side is built up. The output pressure p2 can increase to up to twice the value of the input pressure p1. The required output pressure is set using a manually operated pressure regulator. In the case of pressure boosters without a pressure regulator, the output pressure is always double the input pressure.
The air supply to both drive pistons is controlled by a pneumatic directional control valve that reverses automatically when the stroke end position has been reached.
The pressure booster starts up automatically when the input pressure is applied and the desired output pressure has not yet been reached.
When the set output pressure is reached, the pressure booster stops operating to save energy, but restarts automatically when the output pressure drops again.
The version of the DPA with proximity sensing provides, there is an option of sensing individual strokes of the drive piston with the help of an external sensor and adding counter.

Note

Pressure boosters are used for the occasional drawing-off of pressurised compressed air. Pressure boosters are not suitable as replacement compressors, as wear on the seals and drive piston increases significantly when used continuously without breaks.

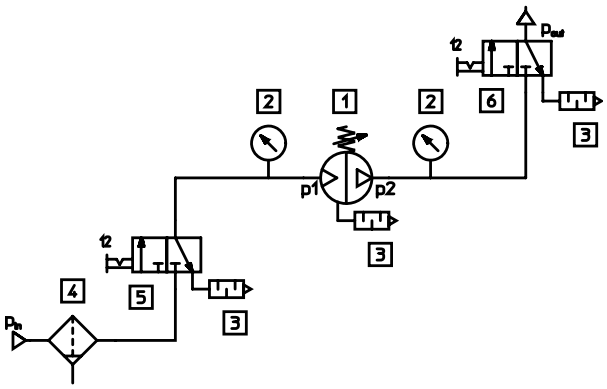
Note

The pressure regulator is supplied with no tension on the regulator spring (DPA-...-10/16 only). After applying the input pressure, the regulator spring is pretensioned by turning the regulator knob until the desired output pressure p2 is reached. A pressure gauge is strongly recommended for monitoring the output pressure p2. The regulator setting of the DPA-63/100 can be secured against unauthorised adjustment using the regulator lock LRVS.

Connection to the compressed air network

Input pressure side
The use of a 3/2-way on/off valve (e.g. HE-...-D, HEE-...-D or a comparable type) is recommended in the compressed air line to the pressure booster. The 3/2-way on/off valve must not be opened until the input pressure p_{in} has been built up.

Output pressure side
It is recommended that a 3/2-way on/off valve is connected to the output pressure side of the pressure booster to ensure safe exhausting of the output pressure p_{out}. If a 3/2-way valve is not used, the output pressure can only be exhausted by completely relaxing the regulator spring (turning the regulator knob all the way to the left).



[1] Pressure booster
[2] Pressure gauge
[3] Silencer
[4] Filter
[5] 3/2-way on/off valve on the input pressure side
[6] 3/2-way on/off valve on the output pressure side

Note

If the system includes a soft-start valve, it is essential to position a 3/2-way on/off valve between the soft-start valve and the pressure booster.

Note

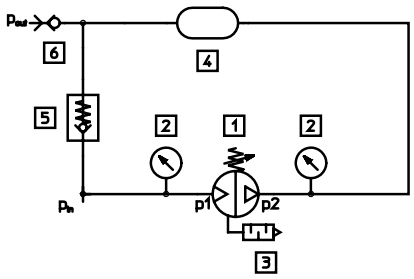
For pressure boosters without pressure regulator, the air must be exhausted externally via a 3/2-way on/off valve.

Key features

Installation with air reservoir

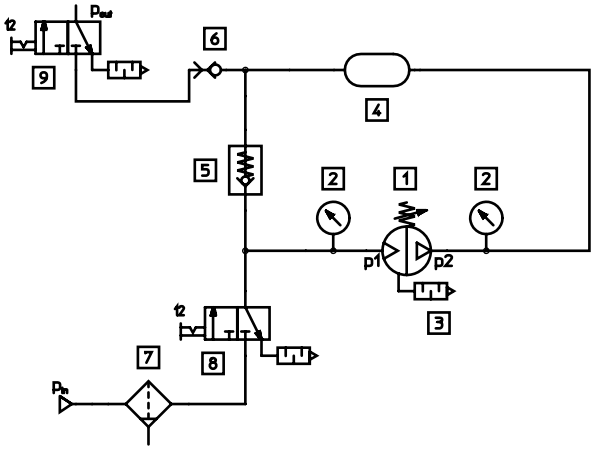
An air reservoir (e.g. CRVZS) should always be used on the output pressure side to compensate for pressure fluctuations. The air reservoir smooths the pulsation of the pressure booster. It is sensible to fill the volume of the air reservoir with the input pressure p1 via a connecting line.

The pressure booster only has to make up the difference between the input and the output pressure. Filling the air reservoir takes less time. A check valve prevents the air from flowing back out of the reservoir.
This arrangement corresponds to the scope of delivery of the pressure booster/air reservoir combination available to order (→ page 17).



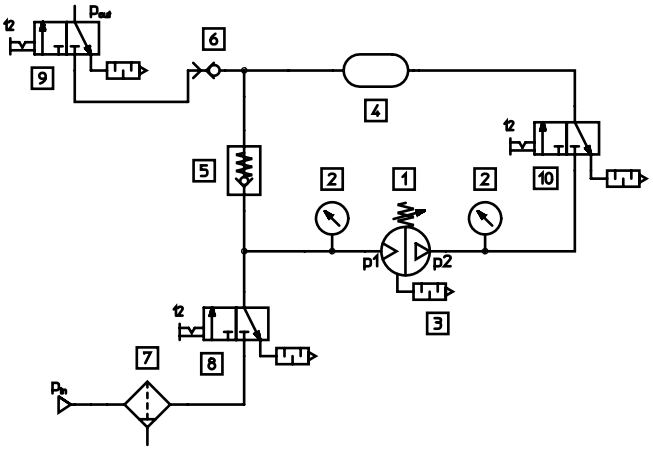
Circuit with 2 on/off valves

The air reservoir is exhausted via the regulator knob of the pressure booster.



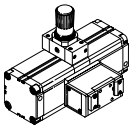
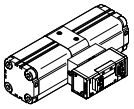
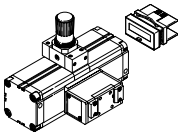
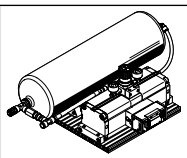
Circuit with 3 on/off valves

The air reservoir is exhausted via the additional on/off valve.



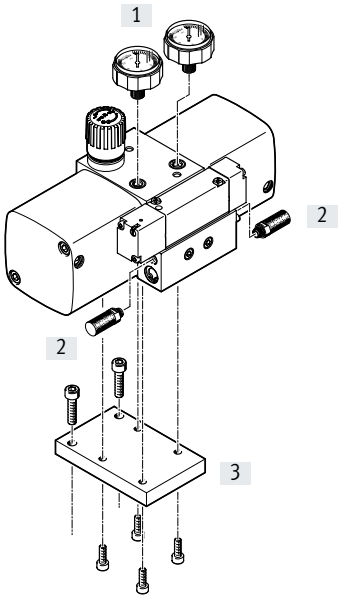
[1] Pressure booster
[2] Pressure gauge
[3] Silencer
[4] Air reservoir
[5] Check valve
[6] Coupling socket
[7] Filter
[8] 3/2-way on/off valve on the input pressure side
[9] 3/2-way on/off valve on the output pressure side
[10] 3/2-way on/off valve for exhausting the air reservoir

Product range overview

Function	Design	Type	Piston ∅ [mm]	→ Page/Internet
Pressure booster	**Standard**			
		DPA	40, 63, 100	5
	Without pressure regulator, double the input pressure			
		DPA-...-D	40, 63, 100	5
	With proximity option			
		DPA-...-A	63, 100	5
Pressure booster/air reservoir combination		DPA-...-CRVZS	40, 63, 100	17

Peripherals overview

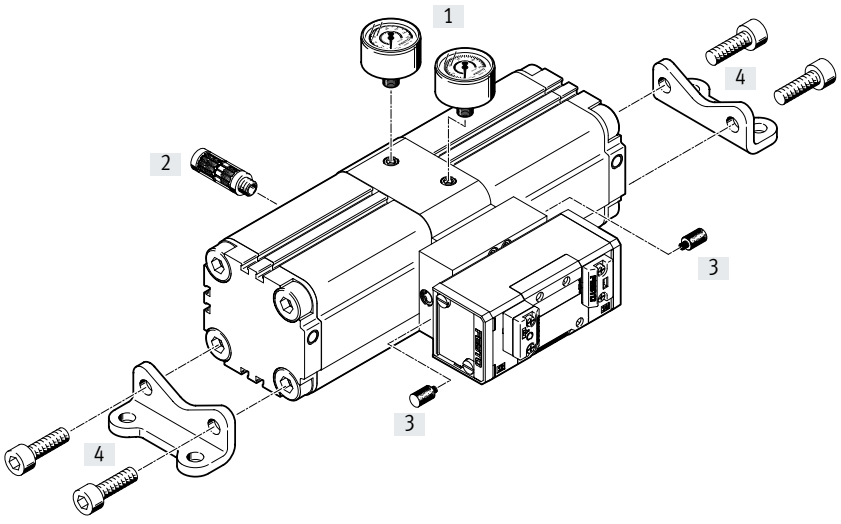
DPA-40-10/16/D



Mounting attachments and accessories

		Description	→ Page/Internet
[1	Pressure gauge kit DPA-MA-SET	For monitoring the input and output pressure	24
[2]	Silencer UC	For noise reduction at the exhaust port	27
[3]	Flange mounting FDPA	For mounting the pressure booster on other machine parts	23

DPA-63/100-D

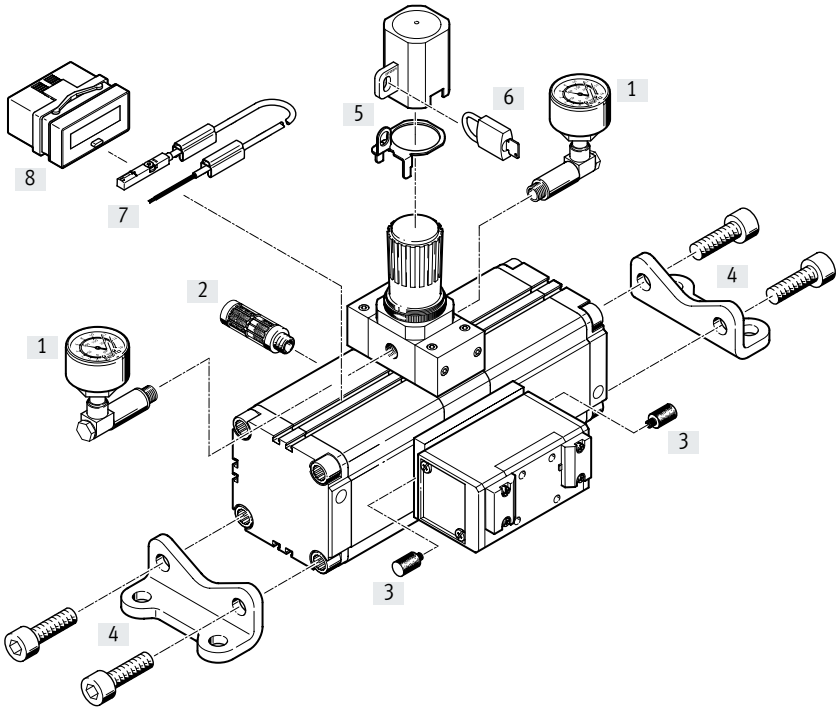


Mounting attachments and accessories

		Description	→ Page/Internet
[1]	Pressure gauge MA	For monitoring the input and output pressure	25
[2]	Silencer U-...-B	For noise reduction at the exhaust port	27
[3]	Silencer AMTE-M-LH-M3	For noise reduction at the valve exhaust port	27
[4]	Foot mounting HUA	For mounting the pressure booster on other machine parts	23

Peripherals overview

DPA-63/100-10/16(-A)



Mounting attachments and accessories

		Description	→ Page/Internet
[1]	Pressure gauge kit DPA-MA-SET	For monitoring the input and output pressure	24
[2]	Silencer U-...-B	For noise reduction at the exhaust port	27
[3]	Silencer AMTE-M-LH-M3	For noise reduction at the valve exhaust port	27
[4]	Foot mounting HUA	For mounting the pressure booster on other machine parts	23
[5]	Regulator lock LRVS-D with locking plate	Prevents accidental – and, in combination with the padlock LRVS-D, unauthorised – adjustment of the rotary knob	27
[6]	Padlock LRVS-D	Accessory for regulator lock LRVS-D	27
[7]	Proximity switch SME/SMT	For sensing individual strokes of the drive piston (DPA-...-A only)	26
[8]	Adding counter CCES	For counting the number of switching cycles (DPA-...-A only)	26

Type codes

001	Series	
DPA	Pressure booster	

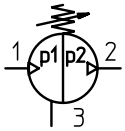
002	Size	
40	40	
63	63	
100	100	

003	Outlet pressure	
10	Max. 10 bar	
16	Max. 16 bar	
D	Double input pressure, without pressure regulator	

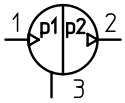
004	Position sensing	
	None	
A	For proximity sensor	

Datasheet

Function
with pressure regulator



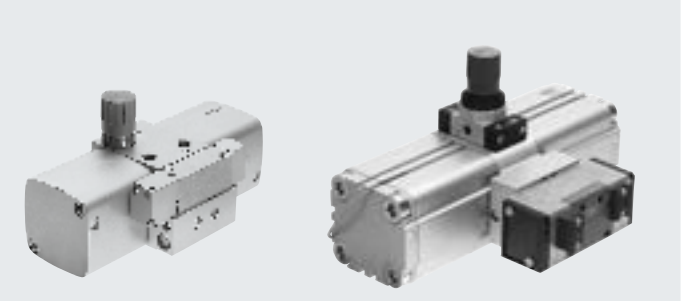
Without pressure regulator



Temperature range
+5 ... +60°C

Pressure ratio
1:2

www.festo.com
Sets of wearing parts
→ page 16



DPA-40

- Any mounting position
- Long service life
- Compact construction and attractive design

DPA-63/100

- Minimal loss of volume due to valve activation
- Short filling times

General technical data – DPA with pressure regulator

Type DPA-		No sensing option						With proximity option			
		40-10	40-16	63-10	63-16	100-10	100-16	63-10-A	63-16-A	100-10-A	100-16-A
Piston ø	[mm]	40		63		100		63		100	
Pneumatic connection 1, 2		G1/4		G3/8		G1/2		G3/8		G1/2	
Pneumatic connection 3		M7		G3/8		G1/2		G3/8		G1/2	
Design		Twin-piston pressure booster						Twin-piston pressure booster			
		–						With piston magnet			
Type of mounting		With female thread									
Mounting position		Any									
Pressure indicator		Prepared for G1/8		Prepared for G1/8		Prepared for G1/4		Prepared for G1/8		Prepared for G1/4	

Note: This product conforms to ISO 1179-1 and ISO 228-1.

General technical data – DPA without pressure regulator

Type DPA-		40-D	63-D	100-D
Piston ø	[mm]	40	63	100
Pneumatic connection 1, 2		G1/4	G3/8	G1/2
Pneumatic connection 3		M7	G3/8	G1/2
Design		Twin-piston pressure booster		
Type of mounting		With female thread		
Mounting position		Any		
Pressure indicator		Prepared for G1/8		

Note: This product conforms to ISO 1179-1 and ISO 228-1.

Datasheet

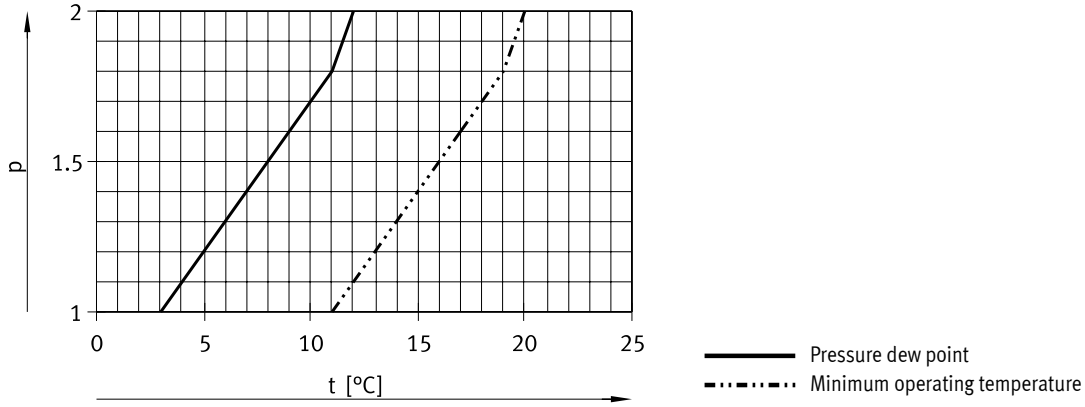
Operating and environmental conditions							
Type DPA-		DPA with pressure regulator				DPA without pressure regulator	
		40-10	40-16	63/100-10(-A)	63/100-16(-A)	40-D	63/100-D
Operating pressure/input pressure	[bar]	2.5 ... 8	2.5 ... 10	2 ... 8	2 ... 10	2.5 ... 8	2 ... 8
Pressure regulation range/output pressure	[bar]	4.5 ... 10[1)]	4.5 ... 16[1)]	4 ... 10[1)]	4 ... 16[1)]	5 ... 16	4 ... 16
Operating medium		Compressed air to ISO 8573-1:2010 [7:3:4]					
		Compressed air to ISO 8573-1:2010 [7:4:4][3)]					
Note on the operating/ pilot medium		Lubricated operation not possible					
Ambient temperature	[°C]	+5 ... +60					
Storage temperature	[°C]	+5 ... +60					
Corrosion resistance class CRC[2)]		2					

1) The difference in pressure between the input and output pressure must be at least 2 bar.
If the regulator spring is at maximum tension (rotary knob turned all the way clockwise), the maximum output pressure can be exceeded by 40%:
– max. 14 bar for DPA-...-10
– max. 22 bar for DPA-...-16

2) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

3) A higher pressure dew point of max. +3°C is possible if the following condition is met to prevent condensation forming in the pressure booster. The minimum operating temperature must always be at least 8 K higher than the pressure dew point, → diagram below

Minimum permissible operating temperature t as a function of the pressure dew point and pressure amplification p



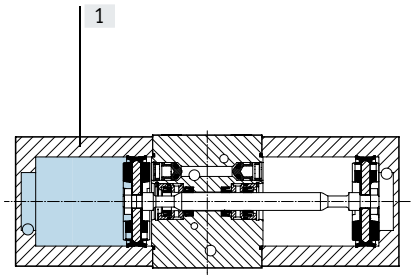
Datasheet

Weights [g]			
Type DPA-	40	63	100
Pressure booster	1500	6000	13000

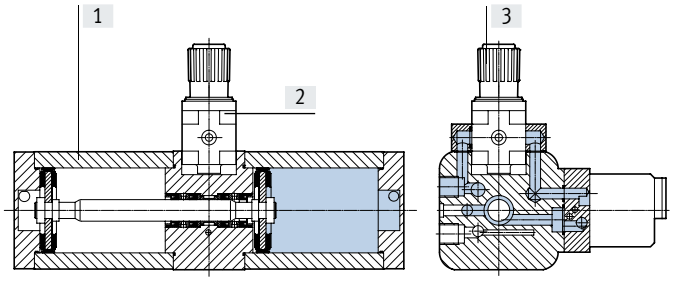
Recommended tubing			
Type DPA-	40	63	100
For input pressure	PAN-10x1.5	PAN-16x2	PAN-16x2
For output pressure	PAN-R-8x1.5	PAN-R-16x3	PAN-R-16x3

Materials

Sectional view DPA-40



Sectional view DPA-63/100

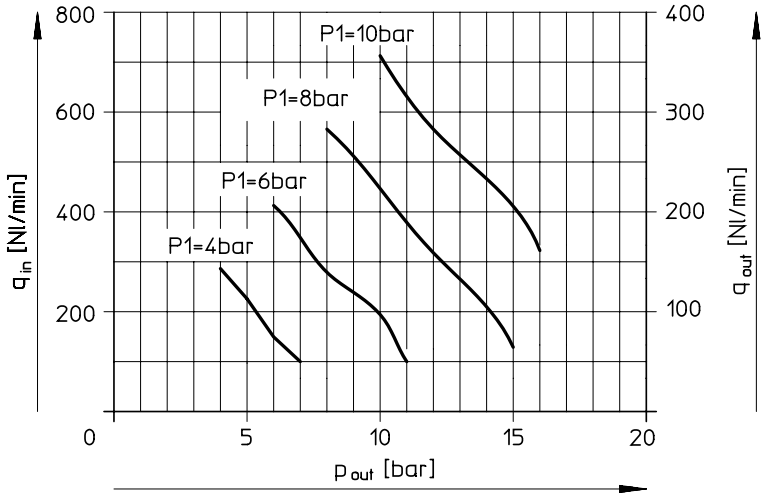


Pressure booster		DPA-40	DPA-63/100-10	DPA-63/100-16
[1]	Housing	Aluminium		
[2]	Support	Aluminium	PET	Aluminium
[3]	Rotary knob	POM		
–	Piston/piston rod seals	HNBR	PUR	
–	Check valve seals	NBR	FKM	
–	Regulator/valve seals	NBR		
Note on materials		RoHS-compliant		

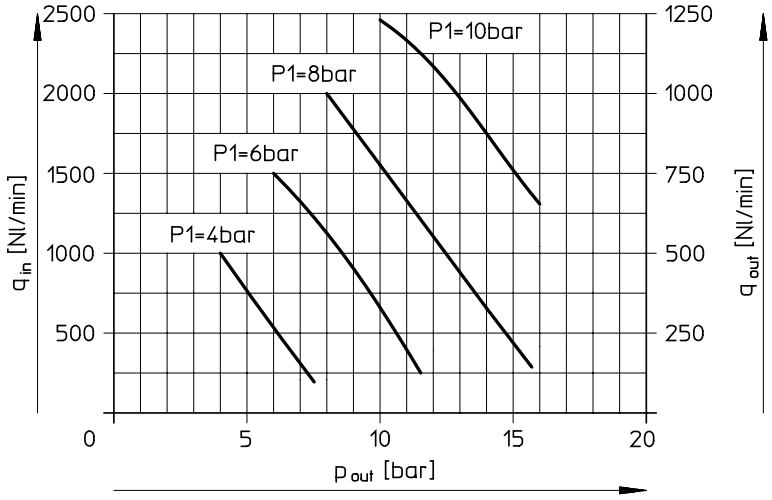
Datasheet

Flow rate at input q_{in}[1] and flow rate at output q_{out} as a function of output pressure p_{out}

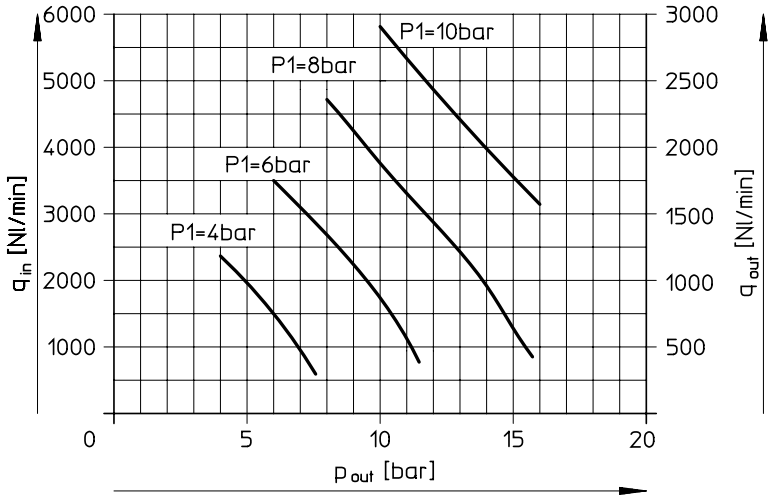
DPA-40



DPA-63



DPA-100

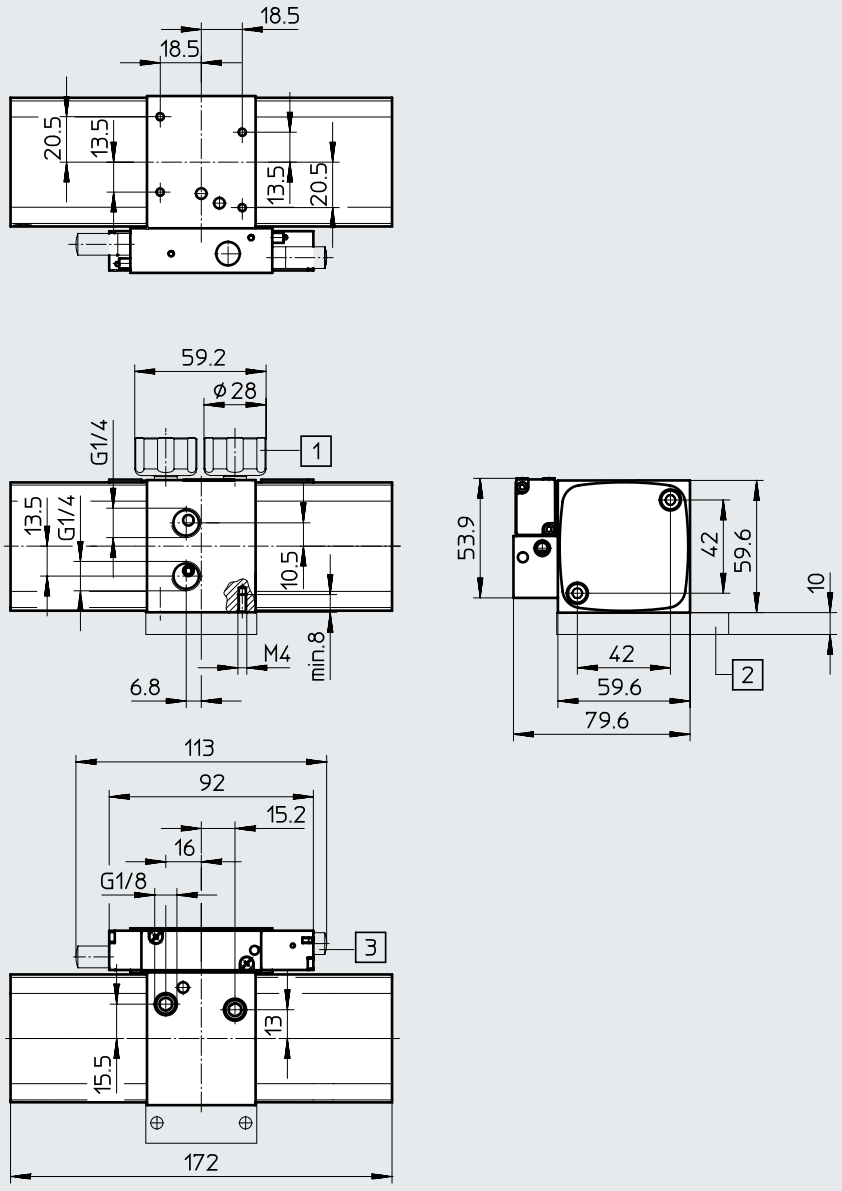


1) Theoretical values without switching losses and friction.

Datasheet

Dimensions – DPA without pressure regulator Download CAD data ➔ www.festo.com

DPA-40-D



[1] Pressure gauge kit DPA-MA-SET

[2] Flange mounting FDPA

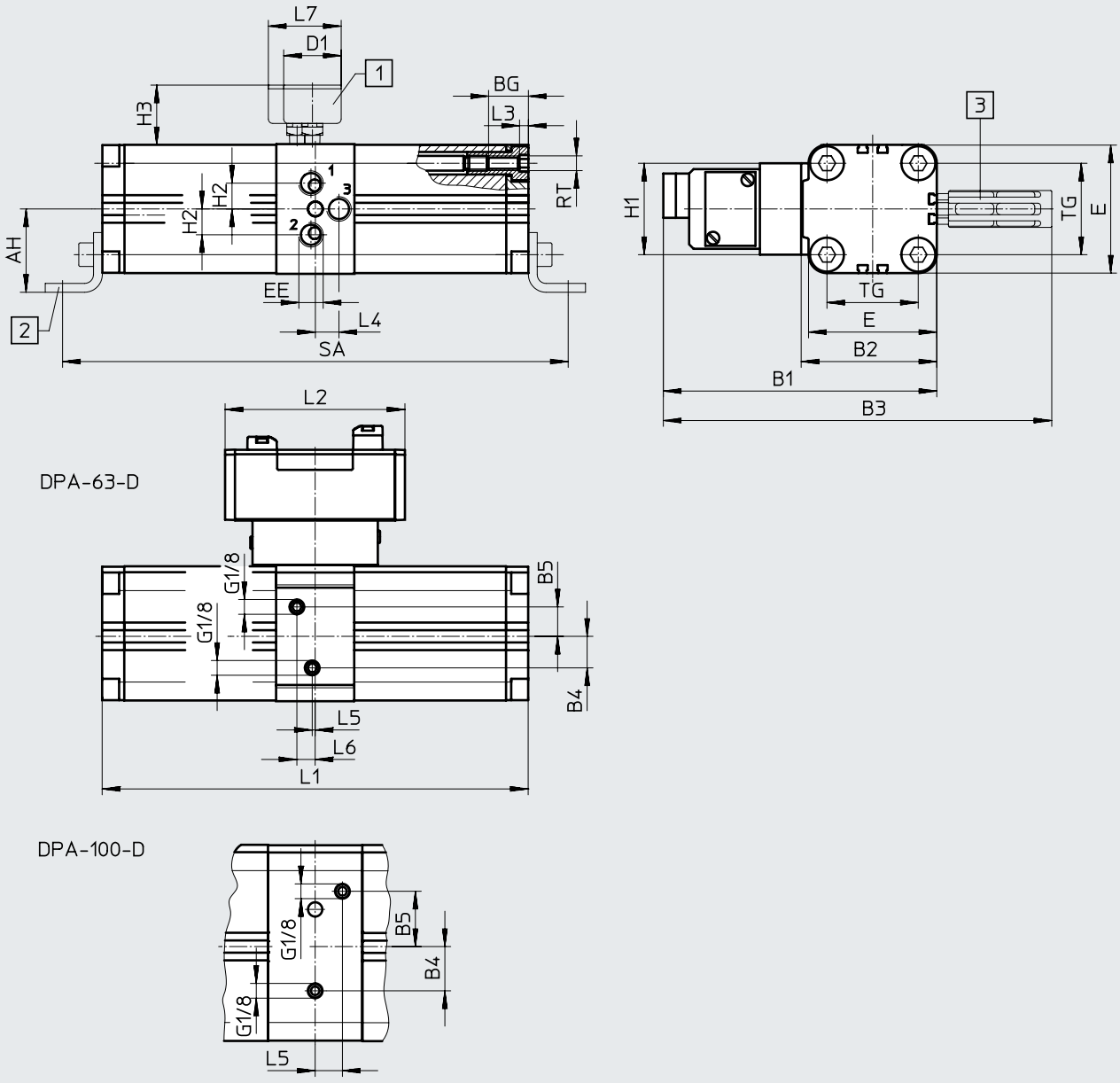
[3] Silencer UC

Note: This product conforms to ISO 1179-1 and ISO 228-1.

Datasheet

Dimensions – DPA without pressure regulator Download CAD data ➔ www.festo.com

DPA-63/100-D



[1] Pressure gauge MA [2] Foot mounting HUA [3] Silencer U

Type	AH	B1	B2	B3	B4	B5	BG	D1 ø	E	EE	H1	H2
DPA-63	56.5	187	92.5	266	21.4	19.9	25	39	88	G3/8	62	17.5
DPA-100	81	244	133	352	30	37.5	30		128	G1/2	71	27

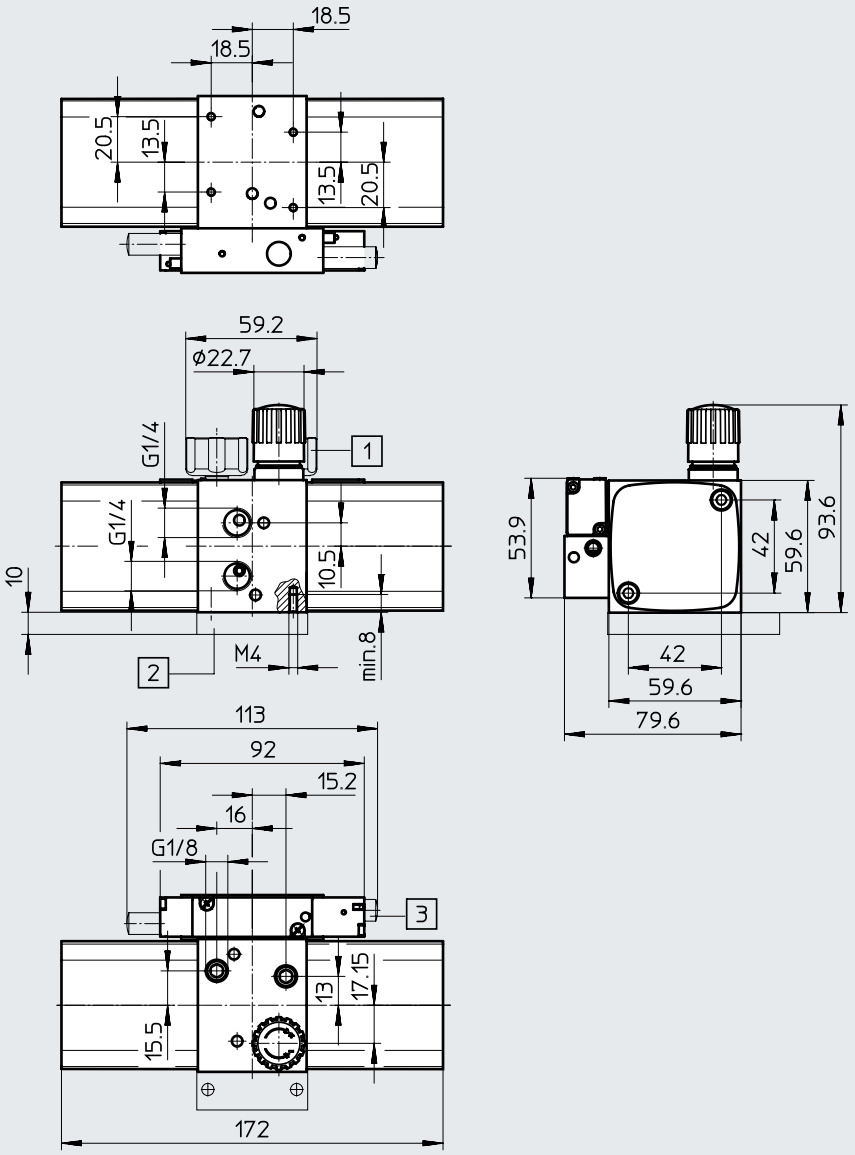
Type	H3	L1	L2	L3	L4	L5	L6	L7	RT	TG	SA
DPA-63	40.5	289	122	6	19	2	12.4	49.4	M10	62	343
DPA-100	40	367	145.5		11	18.5	–	57.5		103	433

Note: This product conforms to ISO 1179-1 and ISO 228-1.

Datasheet

Dimensions – DPA with pressure regulator Download CAD data ➔ www.festo.com

DPA-40-10/16



[1] Pressure gauge kit DPA-MA-SET

[2] Flange mounting FDPA

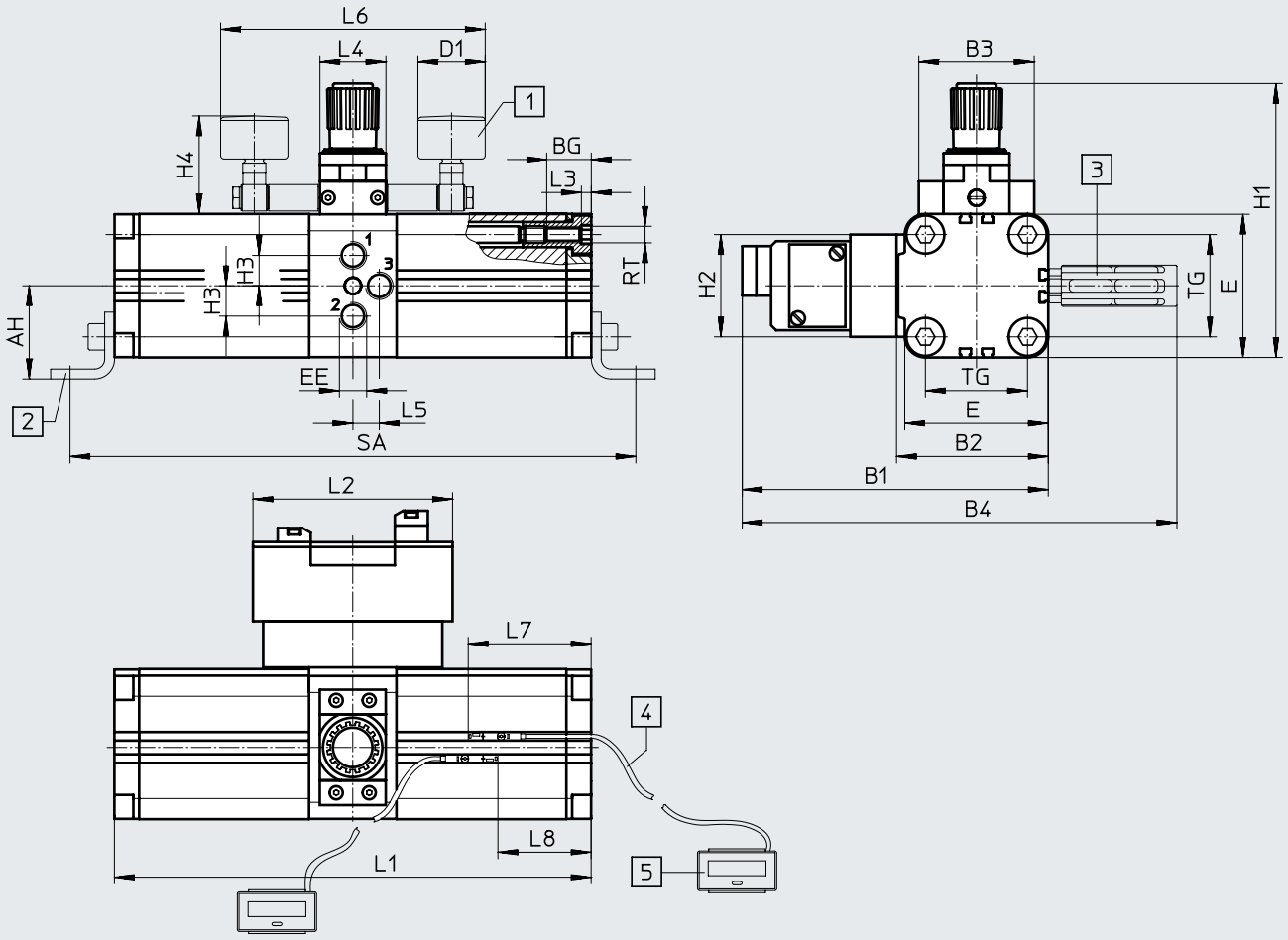
[3] Silencer UC

Note: This product conforms to ISO 1179-1 and ISO 228-1.

Datasheet

Dimensions – DPA with pressure regulator Download CAD data ➔ www.festo.com

DPA-63/100-10/16(-A)



[1] Pressure gauge kit DPA-MA-SET
[2] Foot mounting HUA
[3] Silencer U
[4] Proximity switch SMT/SME
[5] Adding counter CCES-P-C8-E

Note

The proximity switch must be mounted in one of the 6 sensor slots on the right-hand side of the DPA-...-A (rotary knob at the top, pneumatic connections at the front).

Type	AH	B1	B2	B3	B4	BG	D1 ø	E	EE	H1	H2	H3
DPA-63-10/16	56.5	187	92.5	70	266	25	39	88	G3/8	169	62	17.5
DPA-100-10	81	244	133	102	352	30	39	128	G1/2	244	71	27
DPA-100-16												

Type	H4	L1	L2	L3	L4	L5	L6	L7	L8	RT	TG	SA
DPA-63-10/16	65	289	122	6	40	19	159	74.5	56.5	M10	62	343
DPA-100-10	75	367	145.5	6	55	11	173	93	75	M10	103	433
DPA-100-16	82.5											

Note: This product conforms to ISO 1179-1 and ISO 228-1.

Datasheet

Ordering data

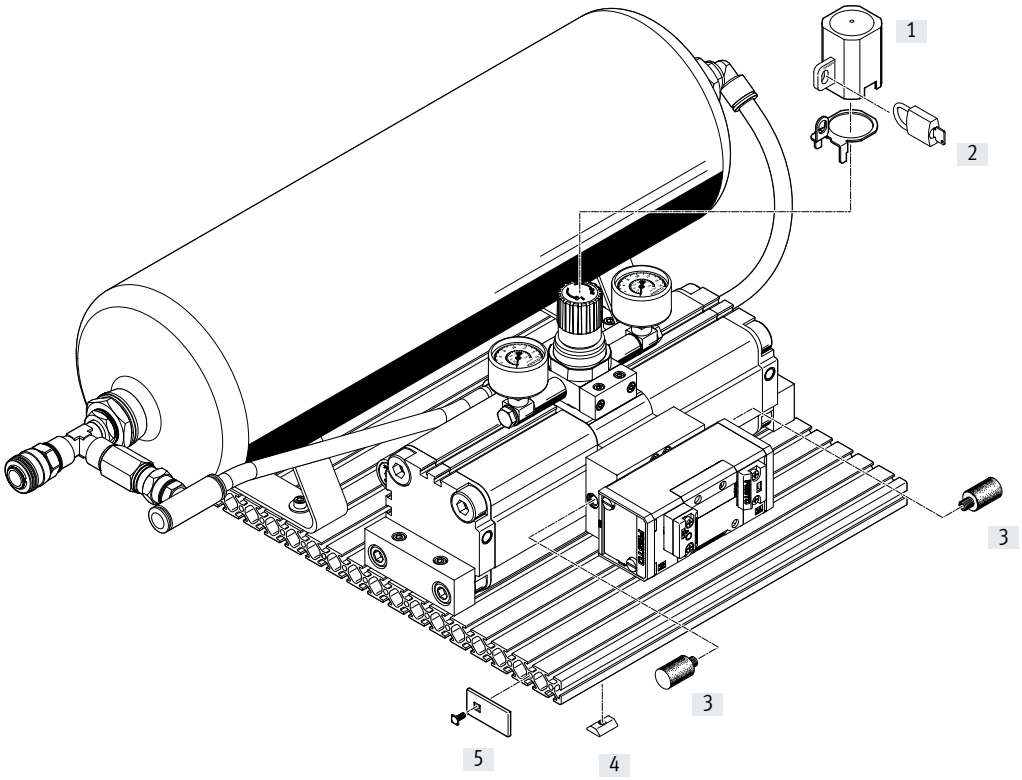
Piston ø	Output pressure 4[1] ... 10 bar		Output pressure 4[1] ... 16 bar		Double input pressure	
[mm]	Part no.	Type	Part no.	Type	Part no.	Type
No sensing option						
40	**537273**	**DPA-40-10**	**537274**	**DPA-40-16**	**549396**	**DPA-40-D**
63	**184518**	**DPA-63-10**	**193392**	**DPA-63-16**	**549397**	**DPA-63-D**
100	**184519**	**DPA-100-10**	**188399**	**DPA-100-16**	**549398**	**DPA-100-D**
With proximity option						
63	**549399**	**DPA-63-10-A**	**549400**	**DPA-63-16-A**	–	
100	**549401**	**DPA-100-10-A**	**549402**	**DPA-100-16-A**	–	

1) For DPA-40: 4.5 bar

Ordering data – Sets of wearing parts

Type	Product series	Part no.	Type
DPA-40-10/16		**707308**	**DPA-40-10/16**
DPA-63-10/16	From SN to VN	**397400**	**DPA-63-10/16**
	From VD	**738338**	**DPA-63-10/16**
DPA-100-10/16	From SN to VN	**397401**	**DPA-100-10/16**
	From VD	**738339**	**DPA-100-10/16**

Peripherals overview



Accessories

		Description	→ Page/Internet
[1]	Regulator lock (DPA-63/100 only) LRVS-D with locking plate	Prevents accidental – and, in combination with the padlock LRVS-D, unauthorised – adjustment of the rotary knob	27
[2]	Padlock (DPA-63/100 only) LRVS-D	Accessory for regulator lock LRVS-D	27
[3]	Silencer (DPA-63/100 only) AMTE-M-LH-M3	For noise reduction at the valve exhaust port	27
[4]	Slot nut IPM-VN-05-12/M5-ST	For attaching the slotted profile plate DPA-40-...-CRVZS2: 4 included, DPA-40-...-CRVZS5: 6 included, DPA-63/100: 8 included	On request
[5]	Cover cap IPM-AN-05-20X40-PA	For covering the cut edge of the profile plate DPA-40: 5 for each cut edge, DPA-63/100: 10 for each cut edge	On request

Type codes

001	Series	
DPA	Pressure booster	

002	Size	
40	40	
63	63	
100	100	

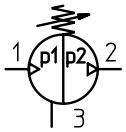
003	Outlet pressure	
10	Max. 10 bar	
16	Max. 16 bar	

004	Air reservoir	
CRVZS	Stainless steel	

005	Air reservoir volume	
2	2 l	
5	5 l	
10	10 l	
20	20 l	

Datasheet

Function
Pressure booster with pressure regulator



Temperature range
+5 ... +60°C

Pressure ratio
1:2

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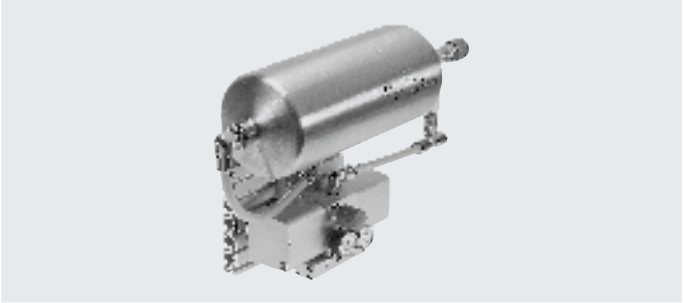
Sets of wearing parts
→ page 22



Combination of pressure booster, air reservoir in stainless steel, bypass with check valve for constant filling of the air reservoir with the system pressure, pressure gauge set, silencer, fitting and quick coupling.

- Convenient all-in-one solution
- Perfectly matched components
- Combination fully mounted on a profile plate

General technical data											
Pressure booster DPA		40-10	40-16	40-10	40-16	63-10	63-16	63-10	63-16	100-10	100-16
Air reservoir		CRVZS2	CRVZS2	CRVZS5	CRVZS5	CRVZS10	CRVZS10	CRVZS20	CRVZS20	CRVZS20	CRVZS20
Piston ø	[mm]	40				63				100	
Air reservoir volume	[l]	2		5		10		20		20	
Pneumatic connection 1		QS-10				QS-12				QS-16	
Pneumatic connection 2		KD4									
Pneumatic connection 3		Silencers									
Design		Twin-piston pressure intensifier, with air reservoir, with pressure gauge, with check valve									
Type of mounting		With slot nuts									
Mounting position		Any		Condensate drain downwards							
Pressure indicator		With pressure gauge									
Product weight	[g]	4400		7300		16000		21500		30000	

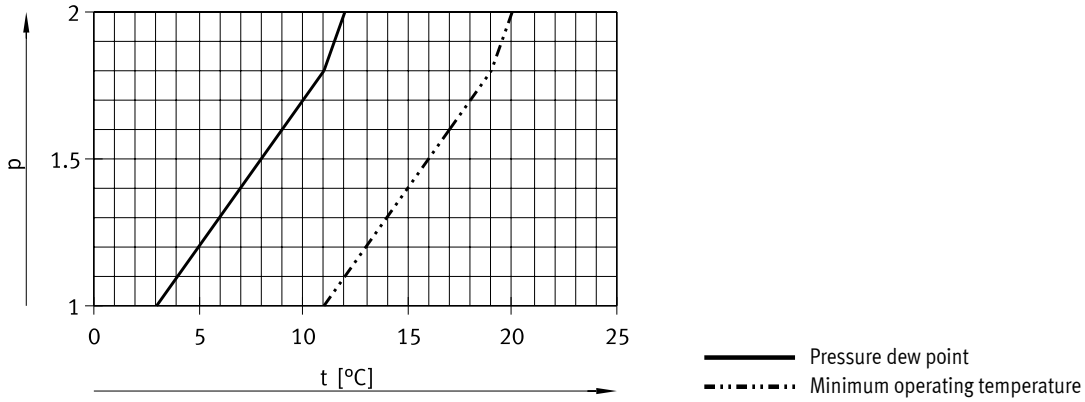
Operating and environmental conditions											
Pressure booster DPA		40-10	40-16	40-10	40-16	63-10	63-16	63-10	63-16	100-10	100-16
Air reservoir		CRVZS2	CRVZS2	CRVZS5	CRVZS5	CRVZS10	CRVZS10	CRVZS20	CRVZS20	CRVZS20	CRVZS20
Operating pressure/ input pressure	[bar]	2.5 ... 8				2 ... 8					
Pressure regulation range/output pressure	[bar]	4.5 ... 10	4.5 ... 16	4.5 ... 10	4.5 ... 16	4 ... 10	4 ... 16	4 ... 10	4 ... 16	4 ... 10	4 ... 16
Operating medium		Compressed air to ISO 8573-1:2010 [7:3:4]									
		Compressed air to ISO 8573-1:2010 [7:4:4][2)]									
Note on the operating/ pilot medium		Lubricated operation not possible									
Ambient temperature	[°C]	+5 ... +60									
Storage temperature	[°C]	+5 ... +60									
Corrosion resistance class CRC[1)]		2									
CE marking (see declaration of conformity)		–		To EU Pressure Equipment Directive							

1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

2) A higher pressure dew point of max. +3°C is possible if the following condition is met to prevent condensation forming in the pressure booster. The minimum operating temperature must always be at least 8 K higher than the pressure dew point, → diagram page 20

Datasheet

Minimum permissible operating temperature t as a function of the pressure dew point and pressure amplification p



Materials	
Pressure booster	→ Page 10
Air reservoir	High-alloy stainless steel
Profile plate	Aluminium
Note on materials	RoHS-compliant

Recommended tubing			
Pressure booster DPA	40	63	100
For input pressure	PAN-10x1.5	PAN-12x1.75	PAN-16x2
For output pressure	PAN-R-8x1.5, PAN-R-10x1.9, PAN-R-12x2.2	PAN-R-16x3	PAN-R-16x3

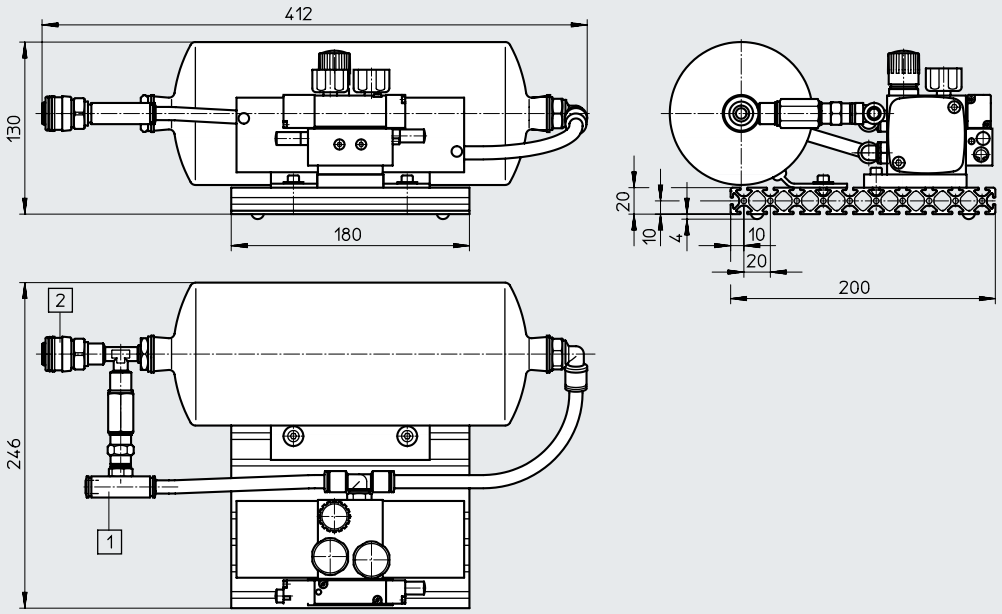
Note

Flow rates → page 11

Datasheet

Dimensions – DPA-40 Download CAD data ➔ www.festo.com

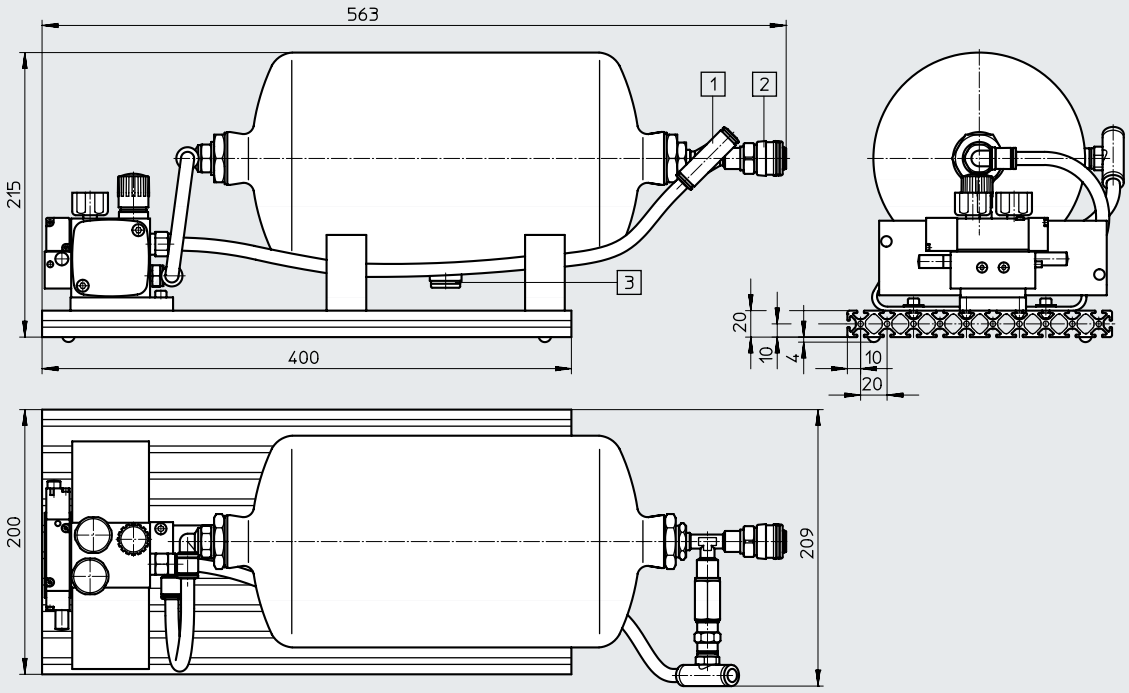
With 2 l air reservoir



[1] Input pressure p1, connection QS-10

[2] Output pressure p2, connection to coupling socket KD4-1/4 with quick coupling plug KS4
➔ page 27

With 5 l air reservoir



[1] Input pressure p1, connection QS-10

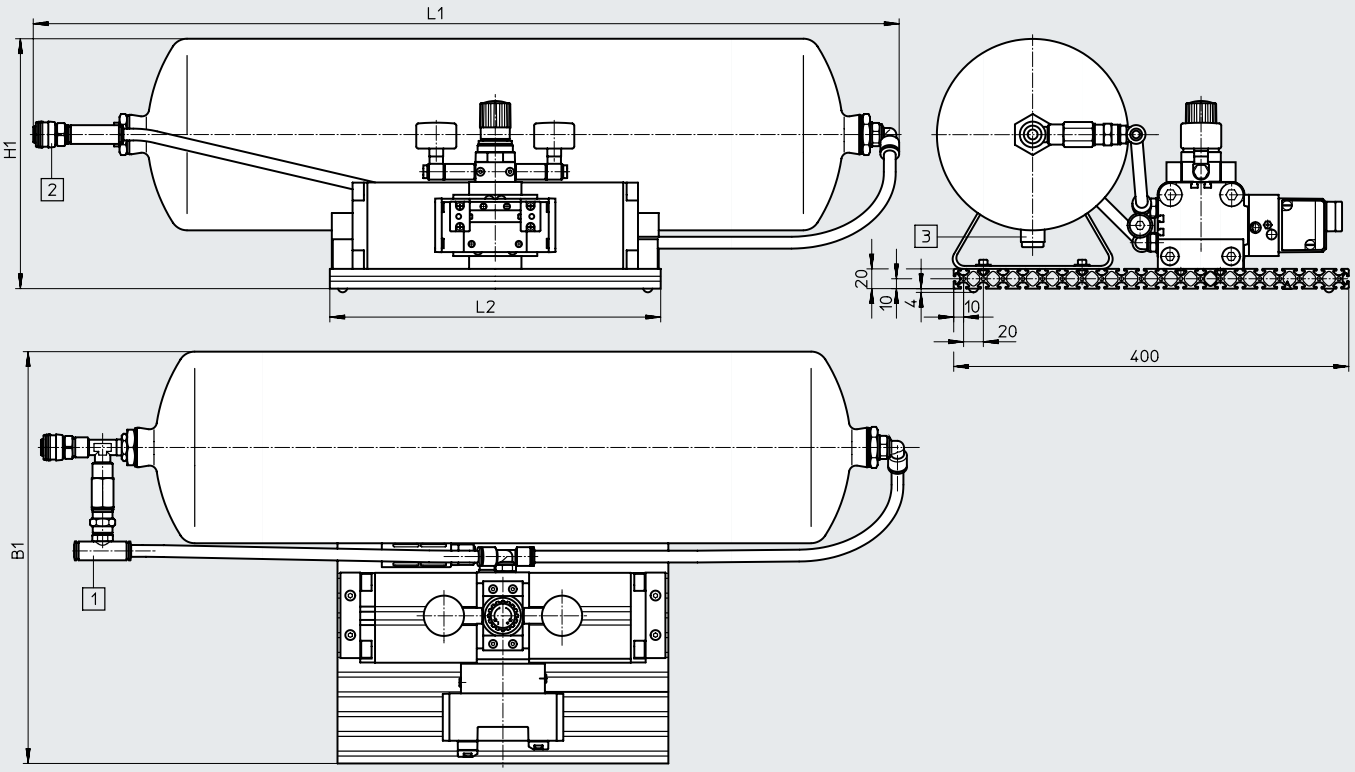
[2] Output pressure p2, connection to coupling socket KD4-1/4 with quick coupling plug KS4
➔ page 27

[3] Condensate drain, max. tightening torque 27 Nm

Datasheet

Dimensions – DPA-63/100 Download CAD data ➔ www.festo.com

With 10 l or 20 l air reservoir



[1] Input pressure p1, ➔ table below

[2] Output pressure p2, connection to coupling socket ➔ table below
with quick coupling plug KS4
➔ page 27

[3] Condensate drain, max. tightening torque 27 Nm

Type	B1	H1	L1	L2	[1]	[2] Coupling socket
DPA-63-10-CRVZS10	400	215	695	335	QS-12	KD4-3/8
DPA-63-16-CRVZS10						
DPA-63-10-CRVZS20	417	253	877	335	QS-12	KD4-3/8
DPA-63-16-CRVZS20						
DPA-100-10-CRVZS20	487	253	880	410	QS-16	KD4-1/2
DPA-100-16-CRVZS20						

Ordering data

Piston ø	Volume	Output pressure 4[1] ... 10 bar		Output pressure 4[1] ... 16 bar	
[mm]	[l]	Part no.	Type	Part no.	Type
40	2	**552928**	**DPA-40-10-CRVZS2**	**552929**	**DPA-40-16-CRVZS2**
	5	**552930**	**DPA-40-10-CRVZS5**	**552931**	**DPA-40-16-CRVZS5**
63	10	**552932**	**DPA-63-10-CRVZS10**	**552933**	**DPA-63-16-CRVZS10**
	20	**552934**	**DPA-63-10-CRVZS20**	**552935**	**DPA-63-16-CRVZS20**
100	20	**552936**	**DPA-100-10-CRVZS20**	**552937**	**DPA-100-16-CRVZS20**

1) For DPA-40: 4.5 bar

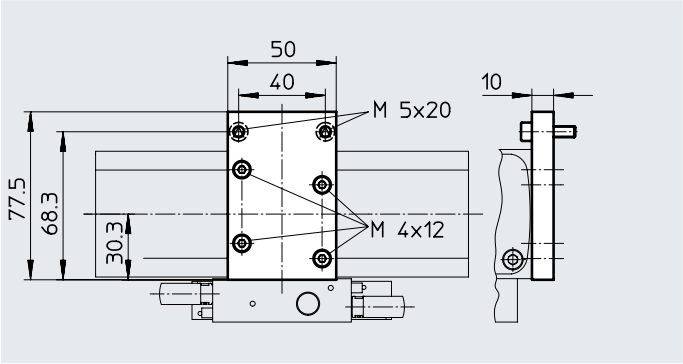
Ordering data – Sets of wearing parts

Type	Product series	Part no.	Type
DPA-40-10/16		**707308**	**DPA-40-10/16**
DPA-63-10/16	From SN to VN	**397400**	**DPA-63-10/16**
	From VD	**738338**	**DPA-63-10/16**
DPA-100-10/16	From SN to VN	**397401**	**DPA-100-10/16**
	From VD	**738339**	**DPA-100-10/16**

Accessories

Flange mounting FDPA
for DPA-40

Material:
Mounting: Anodised aluminium
Screws: Galvanised steel
Free of copper and PTFE



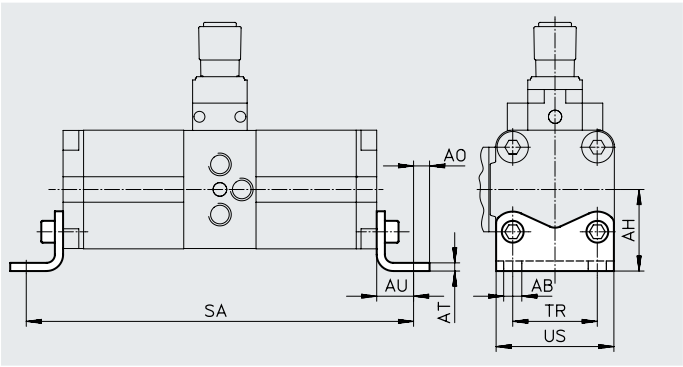
Ordering data

For type	CRC[1)]	Weight [g]	Part no.	Type
DPA-40	2	120	**540783**	**FDPA-40**

1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Foot mounting HUA
for DPA-63/100

Material:
Mounting, screws: Galvanised steel
Free of copper and PTFE



Ordering data

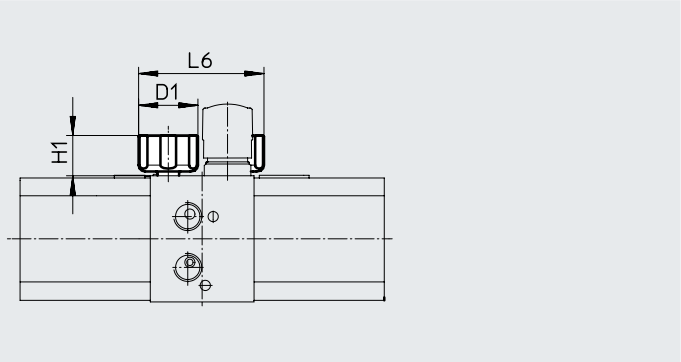
For type	AB ø	AH	AO	AT	AU	SA	TR	US	CRC[1)]	Weight [g]	Part no.	Type
DPA-63	11	56.5	11.75	6	27	343	62	85.5	1	581	**157315**	**HUA-63**
DPA-100	13.5	81	11.75	8	33	433	103	126.5	1	1117	**157317**	**HUA-100**

1) Corrosion resistance class CRC 1 to Festo standard FN 940070
Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts which are covered in the application (e.g. drive trunnions).

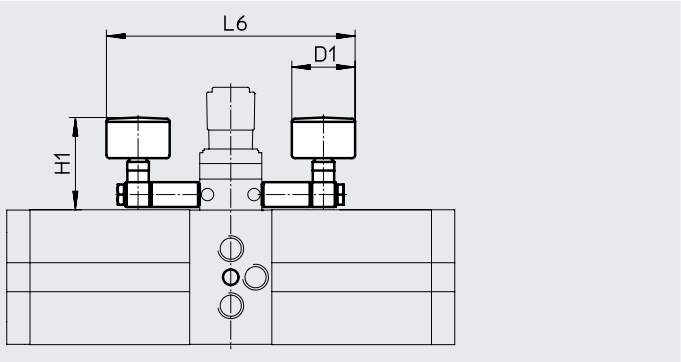
Accessories

Pressure gauge kit DPA-MA-SET for DPA-40-10/16/D

The pressure gauge must in general be sealed with PTFE tape.
Individual pressure gauge MA-27-...-R1/8: Datasheets
➔ Internet: ma-27



for DPA-63/100-10/16



Technical data

For type	DPA-40	DPA-63	DPA-100
Pneumatic connection	R1/8	G1/8	G1/4
Nominal size, pressure gauge	27	40	40
Design	Bourdon tube pressure gauge		
Conforms to standard	EN 837-1		
Type of mounting	With male thread		
Mounting position	Any		
Ambient temperature [°C]	+5 ... +60		
Measurement accuracy class	4	2.5	2.5
Degree of protection	IP43		
Weight [g]	16	250	305

Materials

Nominal size, pressure gauge	27	40
Housing	PA (colour: black)	ABS (colour: black)
Inspection window	PS	PS
Note on materials	RoHS-compliant	

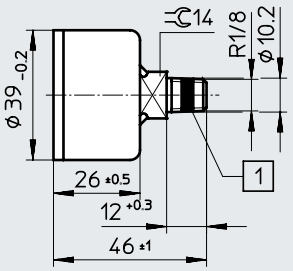
Dimensions and ordering data

For type	D1 ø	H1	L6	Operating pressure [bar]	Part no.	Type
DPA-40	28	19	59.2	10	**540781**	**DPA-40-10-MA-SET**
				16	**540782**	**DPA-40-16-MA-SET**
DPA-63	39	65	159	10	**526096**	**DPA-63-10-MA-SET**
				16	**526097**	**DPA-63-16-MA-SET**
DPA-100	39	75	173	10	**526098**	**DPA-100-10-MA-SET**
		82.5		16	**526099**	**DPA-100-16-MA-SET**

Accessories

Pressure gauge MA, EN 837-1
for DPA-63/100-D

Material:
Housing: Acrylic butadiene styrene (colour: black)
Inspection window: Polystyrene
Screwed trunnion/materials in contact with the media: Brass
Note on materials: RoHS-compliant



Technical data		
Nominal size		40
Pneumatic connection		R1/8
Operating medium		Neutral fluids
		Neutral gases
		Not permitted: Oxygen
		Not permitted: Acetylene
Design		Bourdon tube pressure gauge
Scale		Double scale (outer scale in bar, inner scale in psi)
Conforms to standard		EN 837-1
Type of mounting		In-line installation
Connection position		Centred, rear
Ambient temperature	[°C]	–20 ... +60
Temperature of medium	[°C]	–20 ... +60
Measurement accuracy class		2.5
Continuous load factor		0.75
Intermittent load factor		0.66
Degree of protection		IP43
Weight	[g]	60

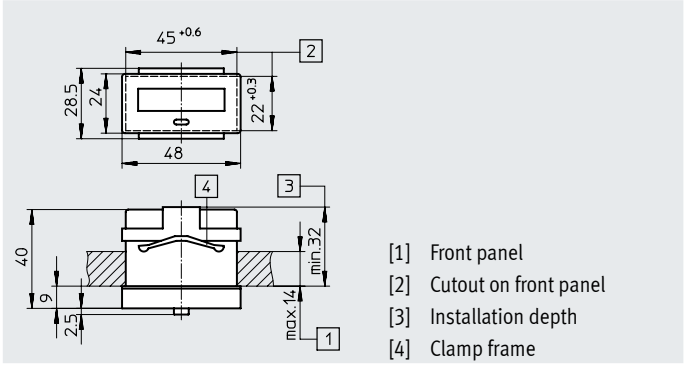
Ordering data

For type	Pressure control	Operating pressure	Display range		Part no.	Type
		[bar]	[bar]	[psi]		
DPA-63/100-D	For input pressure	0 ... 16	0 ... 16	0 ... 232	**529046**	**MA-40-16-1/8-EN-DPA**
	For output pressure	0 ... 25	0 ... 25	0 ... 362.5	**526167**	**MA-40-25-1/8-EN**

Accessories

Adding counter CCES
for DPA-63/100-...-A

Material:
Housing: Polycarbonate
RoHS-compliant



[1] Front panel
[2] Cutout on front panel
[3] Installation depth
[4] Clamp frame

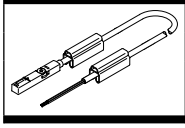
Ordering data

Datasheets → Internet: cces

For type	Display	Power supply	Weight [g]	Part no.	Type
DPA-63/100-...-A	8-digit	Lithium battery (nominal value retention 7 years)	30	**549403**	**CCES-P-C8-E**

Ordering data – Proximity switch SME/SMT for adding counter CCES

Datasheets → Internet: sme-8m, smt-8m

	Switching element function	Switching output	Electrical connection	Cable length [m]	Part no.	Type
	N/O	Contacting, bipolar	Cable, 3-wire	2.5	**543862**	**SME-8M-DS-24V-K-2.5-OE**
		PNP	Cable, 3-wire	2.5	**543867**	**SMT-8M-PS-24V-K-2.5-OE**

Note

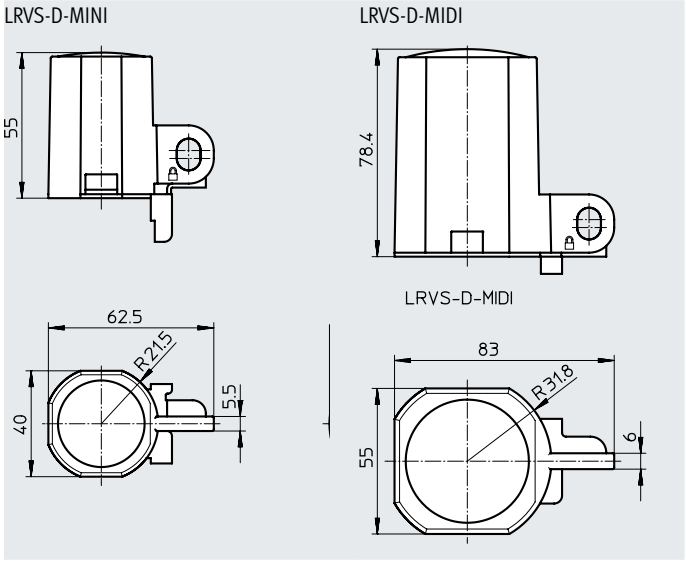
Please note the following points:

- The proximity switch SME mentioned above can be connected as a 2-wire switch to the adding counter without additional voltage supply.
- When using other proximity switches, an additional voltage supply is required and the counting input for the adding counter must be reprogrammed from NPN to PNP.
- For cable lengths over 3 m, shielded cables must be used.
- The maximum permissible cable length is 30 m.

Accessories

Regulator lock LRVS-D
for DPA-63/100

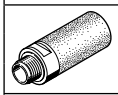
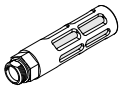
Material:
Cap: Polyacetal
Locking plate: Steel
Knurled nut: Aluminium
Free of copper and PTFE

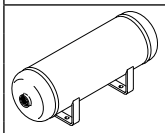


Ordering data

For type	Weight [g]	Part no.	Type
DPA-63	40	**193781**	**LRVS-D-MINI**
DPA-100	60	**193782**	**LRVS-D-MIDI**

Ordering data

	Pneumatic connection	Part no.	Type
Silencer UC			Datasheets → Internet: u
	M7	**161418**	**UC-M7**
Silencer U-...-B			Datasheets → Internet: u
	G3/8	**6843**	**U-3/8-B**
	G1/2	**6844**	**U-1/2-B**
Silencer AMTE-M-LH-M3			Datasheets → Internet: amte
	M3	**1231120**	**AMTE-M-LH-M3**
Quick coupling plug KS4			Datasheets → Internet: ks4
	**With male thread**		
	G1/4	**2154**	**KS4-1/4-A**
	G3/8	**2155**	**KS4-3/8-A**
	G1/2	**531676**	**KS4-1/2-A**
	With female thread		
	G1/4	**531678**	**KS4-1/4-I**
	G3/8	**531679**	**KS4-3/8-I**
	G1/2	**531680**	**KS4-1/2-I**
Padlock LRVS-D			
	–	**193786**	**LRVS-D**

	Volume [l]	Part no.	Type	PU[1] [m]
Air reservoir				Datasheets → Internet: vzs
	**Stainless steel**			
	0.1	**160233**	**CRVZS-0.1**	
	0.4	**160234**	**CRVZS-0.4**	
	0.75	**160235**	**CRVZS-0.75**	
	2	**160236**	**CRVZS-2**	
	5	**192159**	**CRVZS-5**	
	10	**160237**	**CRVZS-10**	
	20	**534845**	**CRVZS-20**	
	Standard			
	20	**192161**	**VZS-20-B**	
Plastic tubing PAN				Datasheets → Internet: pan
For input pressure				
	–	**553909**	**PAN-10x1.5-BL**	**50**
		553910	**PAN-12x1.75-BL**	**50**
		553911	**PAN-16x2-BL**	**50**
Plastic tubing PAN-R				Datasheets → Internet: pan-r
For output pressure				
	–	**541676**	**PAN-R-8x1.5-SI**	**50**
		541677	**PAN-R-10x1.9-SI**	**50**
		541678	**PAN-R-12x2.2-SI**	**50**
		541679	**PAN-R-16x3-SI**	**50**

1) Packaging unit