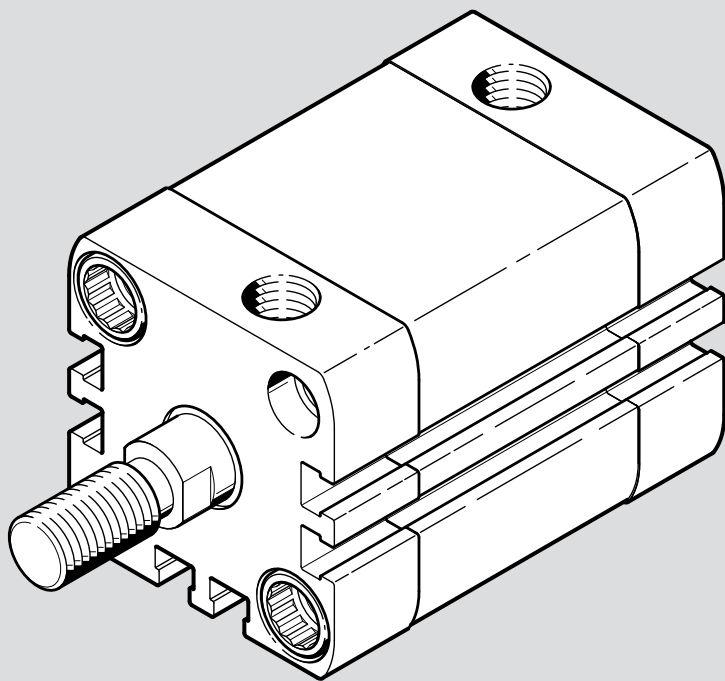


ADN/AEN
Compact cylinder



FESTO

Operating instructions



8242375

8242375
2026-04
[8242377]

Original instructions

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1 Applicable documents



All available documents for the product → www.festo.com/sp.

2 Safety

2.1 Safety instructions

- Only use the product in its original condition without unauthorised modifications.
- Observe the identifications on the product.
- Take into account the ambient conditions at the location of use.
- Store the product in a cool, dry environment protected from UV and corrosion. Keep storage times short.
- Before working on the product, switch off the compressed air supply and lock it to prevent it from being switched on again.

2.2 Intended use

The compact cylinder moves masses and transmits forces. The product is intended for use in industrial environments.

2.3 Training of qualified personnel

Work on the product may only be carried out by qualified personnel who can evaluate the work and detect dangers. The qualified personnel have knowledge and experience in pneumatics.

3 Additional information

- Contact the regional Festo contact if you have technical problems
→ www.festo.com.
- Accessories and spare parts → www.festo.com/catalogue.

4 Product design

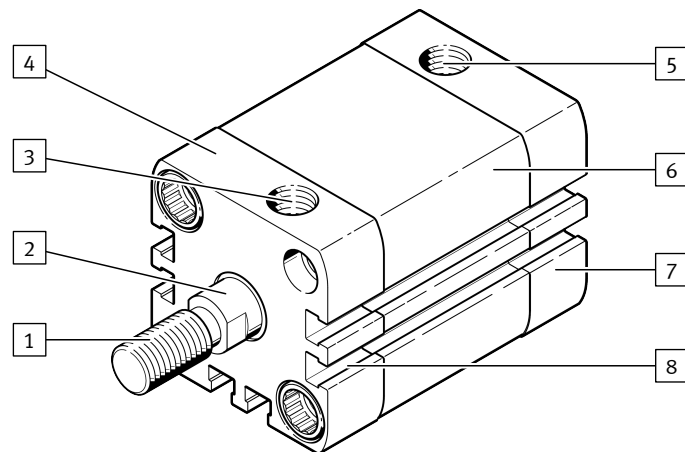


Fig. 1: Product design ADN-32-...-A-P-A

- | | |
|---|---|
| 1 Thread for mounting the payload | 5 Pneumatic port 2 |
| 2 Piston rod | 6 Cylinder barrel |
| 3 Pneumatic port 1 | 7 End cap,
with mounting option, female
thread |
| 4 Bearing cap,
with mounting option, female
thread | 8 Slot for proximity switch (4x) |

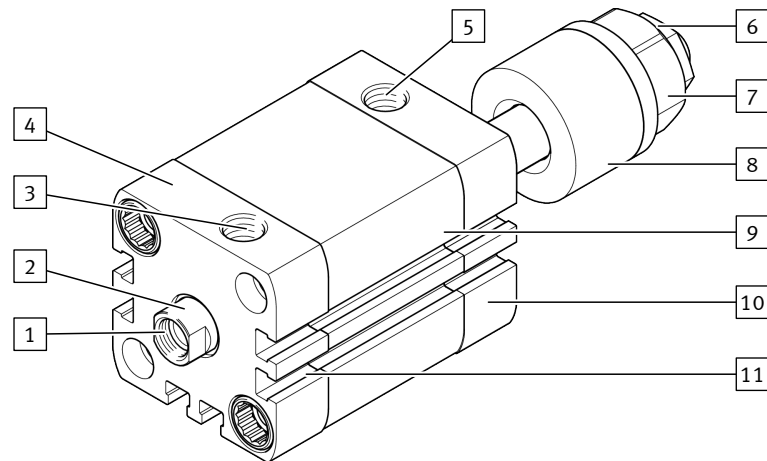


Fig. 2: Product design ADN-32-...-IPA-10KE

- | | |
|--|---|
| 1 Female thread for mounting the payload | 7 Stop nut for adjustable stroke |
| 2 Piston rod | 8 Stop sleeve for adjustable stroke |
| 3 Pneumatic port 1 | 9 Cylinder barrel |
| 4 Bearing cap, with mounting option, female thread | 10 End cap, with mounting option, female thread |
| 5 Pneumatic port 2 | 11 Slot for proximity switch (4x) |
| 6 Lock nut for adjustable stroke | |

5 Function

When the cylinder chamber is pressurised at pneumatic port 2, the piston rod moves outwards.

Retracting the piston rod:

- ADN: by pressurising the cylinder chamber at pneumatic port 1.
- AEN: with the integrated return spring.
- AEN-Z: with the integrated compression spring at pneumatic port 1.

The cylinder force varies during advance and retracting. The position of the piston can be queried by proximity switches.

Variant with adjustable stroke:

- ADN-...-10KE: the extension stroke can be infinitely adjusted by 10 mm.

6 Mounting

Mounting compact cylinder

Requirement:

- The product is installed without tension.

ADN/AEN	-12	-16	-20	-25	-32	-40
Thread	M4	M4	M5	M5	M6	M6
Tightening torque [Nm]	3 ± 20%	3 ± 20%	5 ± 20%	5 ± 20%	8 ± 20%	8 ± 20%

Tab. 1: Tightening torque ADN/AEN-12 ... -40

ADN/AEN	-50	-63	-80	-100	-125
Thread	M8	M8	M10	M10	M12
Tightening torque [Nm]	23 ± 20%	23 ± 20%	32 ± 20%	32 ± 20%	35 ± 20%

Tab. 2: Tightening torque ADN/AEN-50 ... -125

1. Mount the compact cylinder with 2 screws or 4 screws. Observe the tightening torque.
2. Avoid mechanical alignment inaccuracy between the piston rod and, for example, in combination with an external guide by precise alignment. A rigid coupling will reduce the service life and adversely affect the function of the cylinder.

Mounting payload

ADN/AEN-...-A	-12	-16	-20	-25	-32	-40
Thread	M5	M6	M8	M8	M10x1.25	M10x1.25
Hex nut	–	–	–	–	ISO 8675-...-04	
Max. tightening torque [Nm]	–	–	–	–	20	20

Tab. 3: Maximum tightening torque ADN/AEN-12 ... -40-A

ADN/AEN-...-A	-50	-63	-80	-100	-125
Thread	M12x1.25	M12x1.25	M16x1.5	M16x1.5	M20x1.5
Hex nut	ISO 8675-...-04				
Max. tightening torque [Nm]	35	35	85	85	170

Tab. 4: Maximum tightening torque ADN/AEN-50 ... -125-A



- For ADN/AEN-...-S2: do not counter-rotate the through piston rod by the spanner flats. This may disconnect the piston rod connection from the piston.
- For ADN-...-10KE: when loosening and tightening the lock nut only counter hold directly against the spanner flat of the stop nut.

ADN/AEN-...-I	-12	-16	-20	-25	-32	-40
Thread	M3	M4	M6	M6	M8	M8
Screw-in depth [mm]	4 ... 8	5 ... 10	7 ... 14	7 ... 14	8 ... 16	8 ... 16
Max. tightening torque for screws in strength class ≥ 10.9 [Nm]	2	4	10	10	17	17

Tab. 5: Maximum tightening torque ADN/AEN-12 ... -40-I

ADN/AEN-...-I	-50	-63	-80	-100	-125
Thread	M10	M10	M12	M12	M16
Screw-in depth [mm]	11 ... 20	11 ... 20	13 ... 20	13 ... 20	14 ... 25
Max. tightening torque for screws in strength class ≥ 10.9 [Nm]	30	30	54	54	90

Tab. 6: Maximum tightening torque ADN/AEN-50 ... -125-I

- Mount the payload by the thread. Observe the maximum tightening torque.

Mounting accessories

In the case of large payload, high piston speed or when using quick exhaust valves:

– Use suitable shock absorbers or external stops.

To prevent the payload from dropping suddenly in a horizontal or inclined mounting position due to pressure failure:

– Use one-way flow control valves.

To set the speed:

– Screw the one-way flow control valves into the pneumatic ports.

For position sensing with proximity switch:

- Use proximity switches with mounting kit. Avoid external influence caused by magnetic or ferritic parts in the vicinity of the proximity switches.
Distance: ≥ 10 mm

7 Installation

- Connect tubing to the pneumatic ports.

8 Commissioning

Preparing commissioning

- Slowly pressurise the complete system. A soft-start valve is used for the slow switch-on pressurisation → www.festo.com/catalogue.

With medium or large payloads or at high speeds:

- Use a sufficiently sized arrester fixture. Without external arrester fixture apply the specifications from the catalogue → www.festo.com/catalogue.

Commissioning procedure

1. Screw the one-way flow control valves all the way in on both sides, then back one revolution.
2. Pressurise the cylinder simultaneously on both port sides.
⇒ The piston rod slowly extends to the end position.
3. Exhaust the cylinder on one side.
⇒ The piston rod moves to the end position.
4. Start the test run.
5. If the piston rod strikes hard against the end positions or rebounds, adjust the speed with the one-way flow control valves.

Stroke setting at ADN-...-10KE



To avoid unintentional loosening of the piston rod:

- When loosening and tightening the lock nut only counter hold directly against the spanner flat of the stop nut.



Keep the motion range of the piston rod clear:

- There must be no foreign objects between the stop sleeve and the end cap.

1. Loosen the lock nut.
2. Adjust the stop nut. Reduce the stroke by a maximum of 10 mm.
3. Tighten the lock nut. Do not exceed the maximum tightening torque.

ADN-...-10KE	-12	-16	-20	-25
Lock nut	M6	M6	M8	M8
Max. tightening torque [Nm]	5	5	10	10

ADN-...-10KE	-32	-40	-50	-63
Lock nut	M10x1.5	M10x1.5	M12x1.25	M12x1.25
Max. tightening torque [Nm]	20	20	35	35

4. Pressurise the compact cylinder.
5. Start the test run and test the adjusted stroke.

9 Cleaning

- Clean the product with a clean, soft cloth and non-abrasive cleaning agents.

10 Fault clearance

Malfunction	Cause	Remedy
Uneven movement of the piston rod.	The one-way flow control valves throttle the exhaust air too much.	– Reduce exhaust air throttling.
	The piston rod is dirty.	– Clean the cylinder – Relubricate after cleaning. – Install a covering.
	The supply air is insufficient.	– Keep the tubing short and select large cross sections. – Select the correct operating pressure. – Maintain a constant operating pressure.
	The pressure is too low.	– Connect a volume upstream. – Increase the pressure.
	The cylinder is damaged.	– Repair or replace the cylinder.
	The guide is not parallel to the direction of stroke.	– Use a self-aligning rod coupler.
The piston does not move to the end position.	The cylinder is damaged.	– Replace the cylinder.
	There are particles in the cylinder.	– Filter the compressed air.
	The cylinder travels to an external end stop.	– Readjust the end stop.
Malfunctions with the position sensing.	The temperatures are too high or too low.	– Maintain the permissible temperature range.
	The proximity switches are defective.	– Replace the proximity switches.
	Incorrect proximity switch installed.	– Use suitable proximity switches.
	Magnetic or ferritic components near the proximity switches.	– Increase the distance from the components. – Remove the components.

Tab. 7: Fault clearance

11 Technical data

11.1 Technical data, general

ADN/AEN	-12	-16	-20	-25	-32	-40
Certificates, declaration of conformity	➔ www.festo.com/sp					
Mounting position	Any					
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Information on the operating medium	Lubricated operation possible, in which case lubricated operation will always be required					
Max. torque on the piston rod						
ADN/AEN-...-Q [Nm]	0.1	0.2	0.45	0.45	0.8	0.8
Pneumatic ports						
ADN/AEN	M5	M5	M5	M5	G 1/8	G 1/8
ADN-...-S1	–	–	–	M5	–	M5
Ambient temperature						
ADN/AEN [°C]	–20 ... +80					
ADN/AEN-...-S6 [°C]	0 ... +120					
ADN-...-TT [°C]	–40 ... +80					
ADN-...-S10/-S11 [°C]	+5 ... +80					
Piston rod thread, male						
ADN/AEN	M5	M6	M8	M8	M10x1.25	M10x1.25
ADN/AEN-...-K5	M6	M8	M10	M10	M10	M10
	–	M8	M10x1.25	M10x1.25	M12	M12
ADN-...-S1	–	–	–	M8	–	M12x1.25
ADN-...-K5/-S1	–	–	–	M10	–	M10x1.25
	–	–	–	M10x1.25	–	M12
ADN/AEN-...-Q/-K5	M6	M8	M10	M10	M10	M10
	–	–	M10x1.25	M10x1.25	–	–
Piston rod thread, female						
ADN/AEN	M3	M4	M6	M6	M8	M8
ADN/AEN-...-K5	–	–	M5	M5	M6	M6
ADN-...-S1	–	–	–	M6	–	M10
ADN-...-K5/-S1	–	–	–	M5	–	M8
End-position cushioning						
ADN-...-P	Elastic cushioning rings/plates on both sides					
ADN-...PPS	–	–	Pneumatic cushioning, both sides, self-adjusting			
Theoretical force at 0.6 MPa (6 bar; 90 psi)						
ADN, advancing [N]	68	121	188	295	483	754
ADN, retracting [N]	51	90	141	247	415	686
AEN, advancing [N]	56	95	162	259	441	702
AEN, retracting [N]	39	65	115	211	373	634
ADN-...-S1, advancing [N]	–	–	–	295	–	754
ADN-...-S1, retracting [N]	–	–	–	247	–	633
ADN-...-S2, advancing [N]	51	90	141	247	415	686
ADN-...-S2, retracting [N]	51	90	141	247	418	686

ADN/AEN	-12	-16	-20	-25	-32	-40
Max. impact energy at the end positions						
ADN [J]	0.07	0.15	0.2	0.3	0.4	0.7
AEN [J]	0.04	0.04	0.04	0.08	0.1	0.15
ADN-...-S1 [J]	–	–	–	0.3	–	0.7
ADN-...-S6/-S10/-S11/-TT [J]	0.035	0.075	0.1	0.15	0.2	0.35
ADN-...-K10 [J]	–	–	0.16	0.24	0.32	0.56
ADN-...-S20 [J]	–	0.016	0.024	0.083	0.15	0.39
ADN-...-10KE [J]	0.055	0.12	0.16	0.24	0.32	0.56

Tab. 8: Technical data, general ADN/AEN-12 ... -40

ADN/AEN	-50	-63	-80	-100	-125
Certificates, declaration of conformity	➔ www.festo.com/sp				
Mounting position	Any				
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]				
Information on the operating medium	Lubricated operation possible, in which case lubricated operation will always be required				
Max. torque on the piston rod					
ADN-...-Q [Nm]	1.1	1.1	1.5	3	3
AEN-...-Q [Nm]	1.1	1.1	1.5	3	–
Pneumatic ports					
ADN	G 1/8	G 1/8	G 1/8	G 1/8	G 1/4
ADN-...-S1	–	G 1/8	–	G 1/8	–
AEN	G 1/8	G 1/8	G 1/8	G 1/8	–
Ambient temperature					
ADN [°C]	–20 ... +80				
AEN [°C]	–20 ... +80				–
ADN-...-S6 [°C]	0 ... +120				
AEN-...-S6 [°C]	0 ... +120				–
ADN-...-TT [°C]	–40 ... +80				
ADN-...-S10/-S11 [°C]	+5 ... +80				
Piston rod thread, male					
ADN	M12x1.25	M12x1.25	M16x1.5	M16x1.5	M20x1.5
AEN	M12x1.25	M12x1.25	M16x1.5	M16x1.5	–
ADN-...-K5	M12	M12	M16	M16	M20
	M16	M16	M20	M20	–
	–	–	M20x1.5	M20x1.5	–
AEN-...-K5	M12	M12	M16	M16	–
	M16	M16	M20	M20	–
	–	–	M20x1.5	M20x1.5	–
ADN-...-S1	–	M16x1.5	–	M20x1.5	–
ADN-...-K5/-S1	–	M12x1.25	–	M16x1.5	–
	–	M16	–	M20	–
ADN-...-Q/-K5	M12	M12	M16	M16	M20
AEN-...-Q/-K5	M12	M12	M16	M16	–
Piston rod thread, female					
ADN	M10	M10	M12	M12	M16
ADN-...-K5	M8	M8	M10	M10	–

ADN/AEN	-50	-63	-80	-100	-125
ADN-...-S1	–	M12	–	M16	–
ADN-...-K5/-S1	–	M10	–	–	–
End-position cushioning					
ADN-...-P	Elastic cushioning rings/plates on both sides				
AEN-...-P	Elastic cushioning rings/plates on both sides				–
ADN-...PPS	Pneumatic cushioning, both sides, self-adjusting				–
Theoretical force at 0.6 MPa (6 bar; 90 psi)					
ADN, advancing [N]	1178	1870	3016	4712	7363
ADN, retracting [N]	1057	1750	2827	4524	7069
AEN, advancing [N]	1098	1783	2899	4511	–
AEN, retracting [N]	977	1663	2610	4323	–
ADN-...-S1, advancing [N]	–	1870	–	4712	–
ADN-...-S1, retracting [N]	–	1681	–	4417	–
ADN-...-S2, advancing [N]	1057	1750	2827	4524	7069
ADN-...-S2, retracting [N]	1057	1750	2827	4524	7069
Max. impact energy at the end positions					
ADN [J]	1	1.3	1.8	2.5	3.3
AEN [J]	0.18	0.28	0.35	0.7	–
ADN-...-S1 [J]	–	1.3	–	2.5	–
ADN-...-S6/-S10/-S11/-TT [J]	0.5	0.65	0.9	1.25	1.75
ADN-...-K10 [J]	0.8	1	1.4	2	2.6
ADN-...-S20 [J]	0.48	0.62	0.8	0.8	0.95
ADN-...-10KE [J]	0.8	1	–	–	–

Tab. 9: Technical data, general ADN/-50 ... -125, AEN-50 ... 100

11.2 Technical data, pneumatic

ADN/AEN		-12	-16	-20	-25	-32	-40
ADN-...-P	[MPa]	0.1 ... 1	0.1 ... 1	0.06 ... 1	0.06 ... 1	0.06 ... 1	0.06 ... 1
	[bar]	1 ... 10	1 ... 10	0.6 ... 10	0.6 ... 10	0.6 ... 10	0.6 ... 10
	[psi]	14.5 ... 145	14.5 ... 145	8.7 ... 145	8.7 ... 145	8.7 ... 145	8.7 ... 145
AEN-P	[MPa]	0.15 ... 1	0.15 ... 1	0.1 ... 1	0.1 ... 1	0.1 ... 1	0.1 ... 1
	[bar]	1.5 ... 10	1.5 ... 10	1 ... 10	1 ... 10	1 ... 10	1 ... 10
	[psi]	21.76 ... 145	21.76 ... 145	14.5 ... 145	14.5 ... 145	14.5 ... 145	14.5 ... 145
ADN-...-PPS	[MPa]	–	–	0.15 ... 1	0.15 ... 1	0.15 ... 1	0.1 ... 1
	[bar]	–	–	1.5 ... 10	1.5 ... 10	1.5 ... 10	1 ... 10
	[psi]	–	–	21.75 ... 145	21.75 ... 145	21.75 ... 145	14.5 ... 145
ADN/AEN-...-Q	[MPa]	0.15 ... 1	0.15 ... 1	0.1 ... 1	0.1 ... 1	0.1 ... 1	0.1 ... 1
	[bar]	1.5 ... 10	1.5 ... 10	1 ... 10	1 ... 10	1 ... 10	1 ... 10
	[psi]	21.75 ... 145	21.75 ... 145	14.5 ... 145	14.5 ... 145	14.5 ... 145	14.5 ... 145
ADN-...-Q/-S6	[MPa]	0.6 ... 1	0.6 ... 1	0.6 ... 1	0.6 ... 1	0.6 ... 1	0.6 ... 1
	[bar]	6 ... 10	6 ... 10	6 ... 10	6 ... 10	6 ... 10	6 ... 10
	[psi]	8.7 ... 145	8.7 ... 145	8.7 ... 145	8.7 ... 145	8.7 ... 145	8.7 ... 145
AEN-...-Q/-S6	[MPa]	0.15 ... 0.6	0.15 ... 0.6	0.1 ... 0.6	0.1 ... 0.6	0.1 ... 0.6	0.1 ... 0.6
	[bar]	1.5 ... 6	1.5 ... 6	1 ... 6	1 ... 6	1 ... 6	1 ... 6
	[psi]	21.75 ... 87	21.75 ... 87	14.5 ... 87	14.5 ... 87	14.5 ... 87	14.5 ... 87
ADN-...-Q/-S2/-S20/-10KE	[MPa]	0.15 ... 1	0.15 ... 1	0.12 ... 1	0.12 ... 1	0.1 ... 1	0.1 ... 1
	[bar]	1.5 ... 10	1.5 ... 10	1.2 ... 10	1.2 ... 10	1 ... 10	1 ... 10
	[psi]	21.75 ... 145	21.75 ... 145	17.4 ... 145	17.4 ... 145	14.5 ... 145	14.5 ... 145
ADN-...-S1	[MPa]	–	–	–	0.1 ... 1	–	0.1 ... 1
	[bar]	–	–	–	1 ... 10	–	1 ... 10
	[psi]	–	–	–	14.5 ... 145	–	14.5 ... 145
ADN-...-S2/-S20/-10KE	[MPa]	0.15 ... 1	0.15 ... 1	0.12 ... 1	0.12 ... 1	0.1 ... 1	0.1 ... 1
	[bar]	1.5 ... 10	1.5 ... 10	1.2 ... 10	1.2 ... 10	1 ... 10	1 ... 10
	[psi]	21.75 ... 145	21.75 ... 145	17.4 ... 145	17.4 ... 145	14.5 ... 145	14.5 ... 145
ADN-...-S6	[MPa]	0.1 ... 1	0.1 ... 1	0.1 ... 1	0.06 ... 1	0.06 ... 1	0.06 ... 1
	[bar]	1 ... 10	1 ... 10	1 ... 10	0.6 ... 10	0.6 ... 10	0.6 ... 10
	[psi]	14.5 ... 145	14.5 ... 145	14.5 ... 145	8.7 ... 145	8.7 ... 145	8.7 ... 145
ADN-...-S11	[MPa]	0.045 ... 1	0.045 ... 1	0.045 ... 1	0.045 ... 1	0.025 ... 1	0.025 ... 1
	[bar]	0.45 ... 10	0.45 ... 10	0.45 ... 10	0.45 ... 10	0.25 ... 10	0.25 ... 10
	[psi]	6.53 ... 145	6.53 ... 145	6.53 ... 145	6.53 ... 145	3.63 ... 145	3.63 ... 145
ADN-...-TT/-R8	[MPa]	–	–	0.15 ... 1	0.15 ... 1	0.15 ... 1	0.1 ... 1
	[bar]	–	–	1.5 ... 10	1.5 ... 10	1.5 ... 10	1 ... 10
	[psi]	–	–	21.75 ... 145	21.75 ... 145	21.75 ... 145	14.5 ... 145
AEN-...-Z	[MPa]	0.17 ... 1	0.22 ... 1	0.13 ... 1	0.13 ... 1	0.07 ... 1	0.06 ... 1
	[bar]	1.7 ... 10	2.2 ... 10	1.3 ... 10	1.3 ... 10	0.7 ... 10	0.6 ... 10
	[psi]	24.66 ... 145	31.91 ... 145	18.85 ... 145	18.85 ... 145	10.15 ... 145	8.7 ... 145

Tab. 10: Technical data, pneumatic ADN/AEN-12 ... -40

ADN/AEN		-50	-63	-80	-100	-125
ADN-...-P	[MPa]	0.06 ... 1	0.06 ... 1	0.06 ... 1	0.06 ... 1	0.06 ... 1
	[bar]	0.6 ... 10	0.6 ... 10	0.6 ... 10	0.6 ... 10	0.6 ... 10
	[psi]	8.7 ... 145	8.7 ... 145	8.7 ... 145	8.7 ... 145	8.7 ... 145
AEN-...-P	[MPa]	0.1 ... 1	0.1 ... 1	0.1 ... 1	0.1 ... 1	—
	[bar]	1 ... 10	1 ... 10	1 ... 10	1 ... 10	—
	[psi]	14.5 ... 145	14.5 ... 145	14.5 ... 145	14.5 ... 145	—
ADN-...-PPS	[MPa]	0.1 ... 1	0.1 ... 1	0.1 ... 1	0.1 ... 1	—
	[bar]	1 ... 10	1 ... 10	1 ... 10	1 ... 10	—
	[psi]	14.5 ... 145	14.5 ... 145	14.5 ... 145	14.5 ... 145	—
ADN-...-Q	[MPa]	0.1 ... 1	0.1 ... 1	0.1 ... 1	0.1 ... 1	0.1 ... 1
	[bar]	1 ... 10	1 ... 10	1 ... 10	1 ... 10	1 ... 10
	[psi]	14.5 ... 145	14.5 ... 145	14.5 ... 145	14.5 ... 145	14.5 ... 145
AEN-...-Q	[MPa]	0.1 ... 1	0.1 ... 1	0.1 ... 1	0.1 ... 1	—
	[bar]	1 ... 10	1 ... 10	1 ... 10	1 ... 10	—
	[psi]	14.5 ... 145	14.5 ... 145	14.5 ... 145	14.5 ... 145	—
ADN-...-Q/-S6	[MPa]	0.6 ... 1	0.6 ... 1	0.6 ... 1	0.6 ... 1	0.6 ... 1
	[bar]	6 ... 10	6 ... 10	6 ... 10	6 ... 10	6 ... 10
	[psi]	8.7 ... 145	8.7 ... 145	8.7 ... 145	8.7 ... 145	8.7 ... 145
AEN-...-Q/-S6	[MPa]	0.1 ... 0.6	0.1 ... 0.6	0.1 ... 0.6	0.1 ... 0.6	—
	[bar]	1 ... 6	1 ... 6	1 ... 6	1 ... 6	—
	[psi]	14.5 ... 87	14.5 ... 87	14.5 ... 87	14.5 ... 87	—
ADN-...-Q/-S2/-S20/-10KE	[MPa]	0.1 ... 1	0.1 ... 1	0.1 ... 1	0.1 ... 1	0.1 ... 1
	[bar]	1 ... 10	1 ... 10	1 ... 10	1 ... 10	1 ... 10
	[psi]	14.5 ... 145	14.5 ... 145	14.5 ... 145	14.5 ... 145	14.5 ... 145
ADN-...-S1	[MPa]	—	0.1 ... 1	—	0.1 ... 1	—
	[bar]	—	1 ... 10	—	1 ... 10	—
	[psi]	—	14.5 ... 145	—	14.5 ... 145	—
ADN-...-S2/-S20/-10KE	[MPa]	0.1 ... 1	0.08 ... 1	0.08 ... 1	0.08 ... 1	0.08 ... 1
	[bar]	1 ... 10	0.8 ... 10	0.8 ... 10	0.8 ... 10	0.8 ... 10
	[psi]	14.5 ... 145	11.6 ... 145	11.6 ... 145	11.6 ... 145	11.6 ... 145
ADN-...-S6	[MPa]	0.06 ... 1	0.06 ... 1	0.06 ... 1	0.06 ... 1	0.06 ... 1
	[bar]	0.6 ... 10	0.6 ... 10	0.6 ... 10	0.6 ... 10	0.6 ... 10
	[psi]	8.7 ... 145	8.7 ... 145	8.7 ... 145	8.7 ... 145	8.7 ... 145
ADN-...-S11	[MPa]	0.025 ... 1	0.025 ... 1	0.025 ... 1	0.025 ... 1	0.025 ... 1
	[bar]	0.25 ... 10	0.25 ... 10	0.25 ... 10	0.25 ... 10	0.25 ... 10
	[psi]	3.63 ... 145	3.63 ... 145	3.63 ... 145	3.63 ... 145	3.63 ... 145
ADN-...-TT/-R8	[MPa]	0.1 ... 1	0.1 ... 1	0.1 ... 1	0.1 ... 1	—
	[bar]	1 ... 10	1 ... 10	1 ... 10	1 ... 10	—
	[psi]	14.5 ... 145	14.5 ... 145	14.5 ... 145	14.5 ... 145	—
AEN-...-Z	[MPa]	0.06 ... 1	0.06 ... 1	0.06 ... 1	0.06 ... 1	—
	[bar]	0.6 ... 10	0.6 ... 10	0.6 ... 10	0.6 ... 10	—
	[psi]	8.7 ... 145	8.7 ... 145	8.7 ... 145	8.7 ... 145	—

Tab. 11: Technical data, pneumatic ADN-50 ... -125, AEN-50 ... 100

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