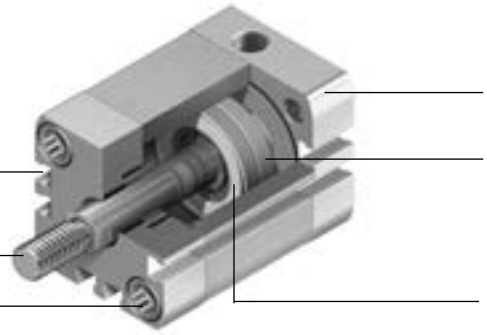
Key features

At a glance



More than the standard

- The compact cylinder series ADN/AEN comply with the standard ISO 21287
- The ADN/AEN is characterised by its compact design and broad area of application thanks to the large number of variants
- The variants can be configured according to individual needs thanks to the modular product system

Powerful

- Integrated cushioning for absorbing residual energy
- Long service life thanks to exceptional cushioning characteristics and minimal friction factors

Convenient

- Easy to mount with a comprehensive range of mounting accessories for just about every type of installation
- Highly flexible thanks to the wide range of variants
- Contactless position sensing using proximity sensors

Reliable

- Optimised manufacturing methods, patented technology and more than 40 years of experience in the field of cylinders make Festo and ADN/AEN a great team

Cushioning types

Cushioning P

Mode of operation
- The drive has elastic polymer end-position cushioning

Application
- Small loads
- Low speeds
- Small cushioning capacity

Advantages
- No adjustment required
- Saves time

Cushioning PPS

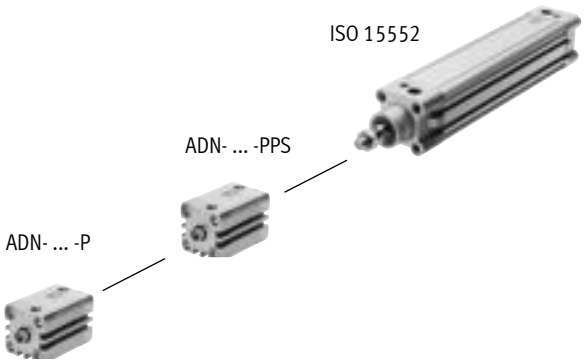
Mode of operation
- The drive has self-adjusting, pneumatic end-position cushioning

Application
- Larger loads
- Higher speeds
- Larger cushioning capacity

Advantages
- No adjustment required
- Up to 4 times bigger cushioning capacity than ADN-...-P
- Saves time
- Reduced noise

Cushioning capacity of ISO 21287 and ISO 15552

In terms of cushioning capacity, the compact cylinder ADN-...-PPS fills the gap between ADN-...-P and standards-based cylinders with ISO 15552.



Type codes

001	Series	
ADN	Compact cylinder, double-acting, based on ISO 21287	

002	Piston diameter	
12	12	
16	16	
20	20	
25	25	
32	32	
40	40	
50	50	
63	63	
80	80	
100	100	
125	125	

003	Stroke	
5	5	
10	10	
15	15	
20	20	
25	25	
30	30	
35	35	
40	40	
50	50	
60	60	
70	70	
80	80	
...	5 ... 80	

004	Piston rod thread type	
A	Male thread	
I	Female thread	

005	Cushioning	
P	Elastic cushioning rings/plates on both sides	
PPS	Pneumatic cushioning, self-adjusting at both ends	

006	Position sensing	
A	For proximity sensor	

007		
	None	
Q	Square piston rod	

008	Piston rod type	
	At one end	
S2	Through piston rod	
S20	Through, hollow piston rod	

009	Special thread	
“M6”K5	M6	
“M8”K5	M8	
“M10”K5	M10	
“M10x1,25”K5	M10x1.25	
“M12”K5	M12	
“M16”K5	M16	
“M20x1,5”K5	M20x1.5	
“M5”K5	M5	
“M20”K5	M20	

010	Temperature range	
	Standard	
S6	Heat-resistant seals max. 120 °C	

011	Constant motion	
	Standard	
S10	Uniform, slow movement	

012	Running characteristics	
	Standard	
S11	Low friction	

013	Improved running performance	
	None	
K10	Smooth anodised aluminium coated piston rod	

014	Corrosion protection	
	Standard	
R3	High corrosion protection	

015	Captive rating plate	
	Rating plate, glued	
TL	Laser etched rating plate	

016	Low temperature	
	None	
TT	-40 °C ... +80 °C	

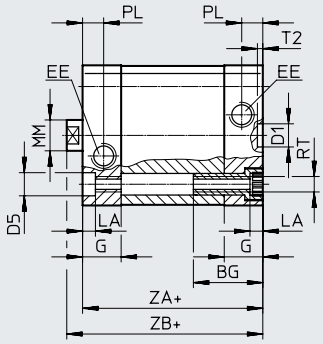
017	Scraper variant	
	Standard	
R8	Dust protection	

018	EU certification	
	None	
EX4	II 2GD	

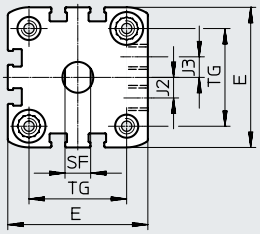
Data sheet

Dimensions – Basic version Download CAD data ➔ www.festo.com

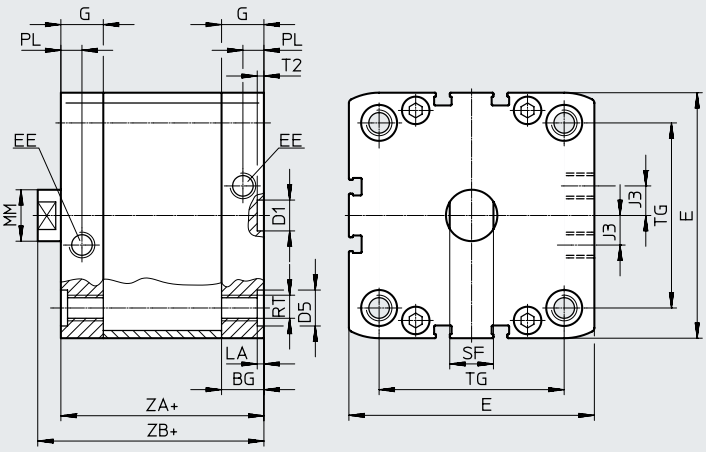
Ø 12 ... 63



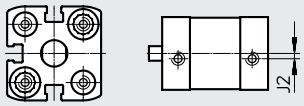
Ø 32 ... 63



Ø 80 ... 125



Ø 12 ... 25 Ø 12



\+ = plus stroke length

ø [mm]	BG min.	D1 ø H9	D5 ø	E	EE	G	J2	J3	LA +0.2
12	17	9	6^{F9}	27.5 $^{+0.3}$	M5	10.5	2	–	3.5
16				29 $^{+0.3}$		11	2.6		
20	19.5		9^{F9}	35.5 $^{+0.3}$		12			5
25				39.5 $^{+0.3}$					
32	26			47 $^{+0.3}$	G1/8	15	6		
40				54.5 $^{+0.3}$			8		
50	27	12	12^{F9}	65.5 $^{+0.3}$			11.5		
63				75.5 $^{+0.3}$					
80	17		15	95.5 $^{+0.6}$		16.5			2.6
100	21.5			113.5 $^{+0.6}$		21.5	20		
125	20		–	134.6 $^{+0.3}$	G1/4	20	21.15		–

ø [mm]	MM ø	PL +0.2	RT	SF h13	T2 +0.1	TG ±0.2	ZA ±0.3	ZB +1.2	ZB PPS +1.3
12	6	6	M4	5	2.1	16	35	39.2	–
16	8			7		18		39.7	
20	10		M5	9		22	37	42.5	42.5
25						26	39	44.5	45.3
32	12	8.2	M6	10		32.5	44	50	50.6
40						38	45	51.1	51.7
50	16		M8	13	2.6	46.5		52.7	53.2
63						56.5	49	56.5	57
80	20		M10	17		72	54	62.9	63.4
100		10.5				89	67	76	76.8
125	25		M12	21		110	81	92	–