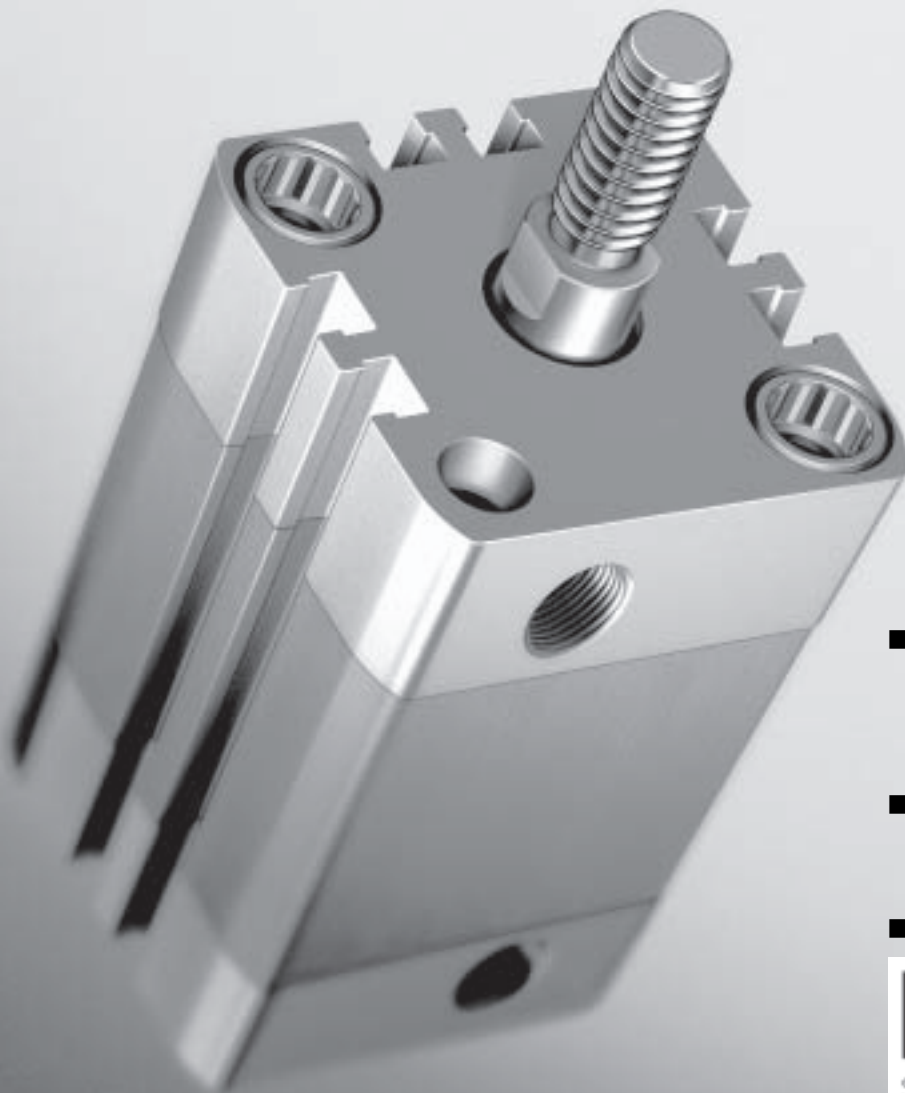


## Standard cylinders ADN/AEN, ISO 21 287



■ Space savings of up to 50% with the same force compared to a similar standard cylinder

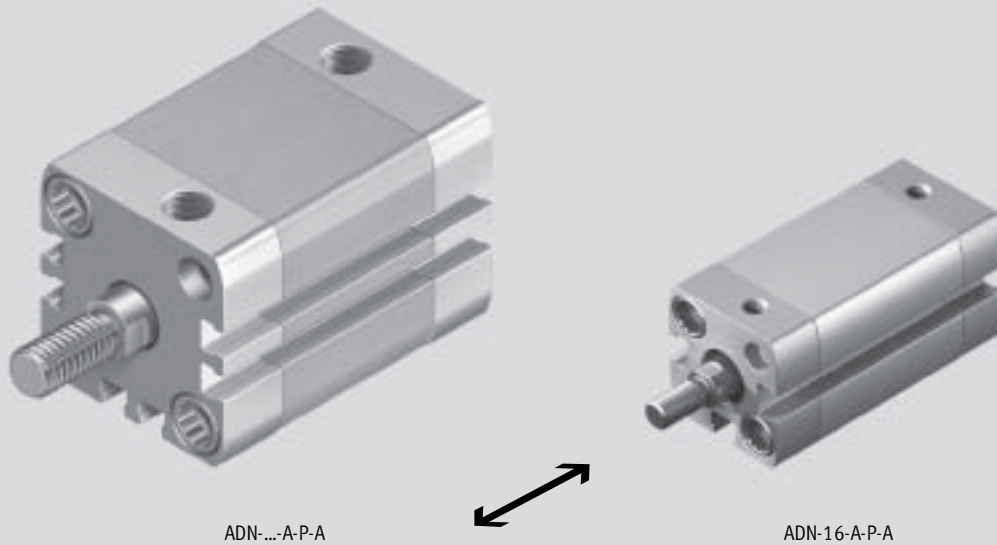
■ Flexible in use thanks to an extensive range of variants

■ Extensive range of accessories



## Standard cylinders ADN/AEN, ISO 21 287

Key features



### More than the standard

Series ADN/AEN standard cylinders comply with the standard ISO 21 287.

- The ADN/AEN is distinguished 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

- Flexible cushioning rings as standard for absorbing the residual energy facilitate high speeds and machine cycles
- 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
- Greater flexibility thanks to the wide range of variants

### 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

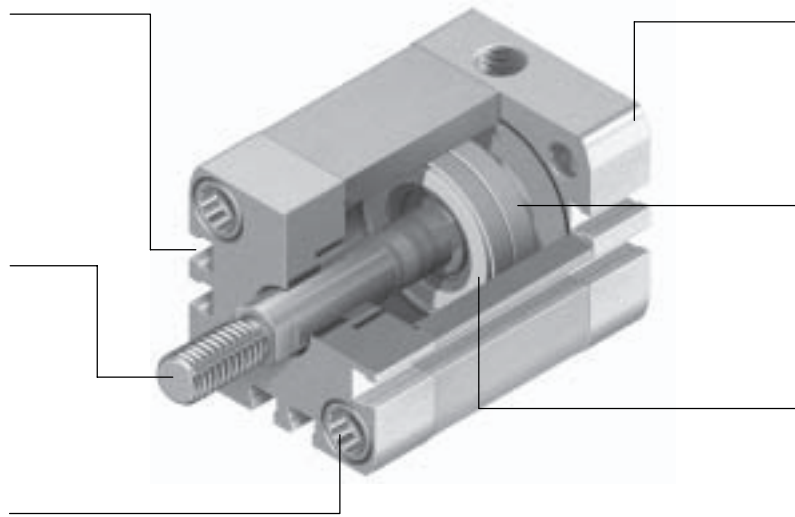
# Standard cylinders ADN/AEN, ISO 21 287

Key features

Sensor slots on three sides for the flush mounting of proximity sensors

Piston rod with choice of male or female thread

Mounting option: Female thread and through-hole



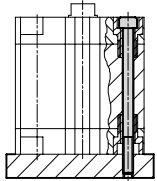
Centring hole in the end cap matches centring pins ZBS

Magnet for contactless sensing

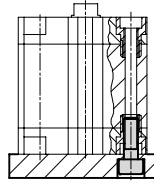
Integrated cushioning rings for absorbing residual energy for high speeds and machine cycles

**Mounting options**

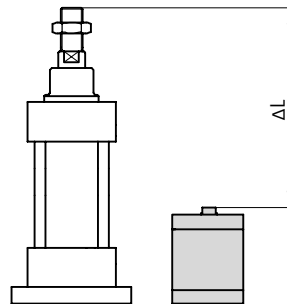
With through screw



Direct mounting




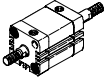

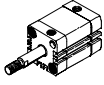
**Size**



■ Space savings of up to 50% compared with the large standard ISO 6431

# Standard cylinders ADN/AEN, ISO 21 287

Product range overview

Function	Version	Type	Piston $\varnothing$ [mm]	Stroke [mm]	Position sensing A	
Double-acting		ADN Piston rod at one end	12	5, 10, 15, 20, 25, 30, 40	1 ... 300	■
			16	5, 10, 15, 20, 25, 30, 40, 50	1 ... 300	
			20, 25	5, 10, 15, 20, 25, 30, 40, 50, 60	1 ... 300	
			32, 40, 50	5, 10, 15, 20, 25, 30, 40, 50, 60, 80	1 ... 400	
			63	10, 15, 20, 25, 30, 40, 50, 60, 80	1 ... 400	
			80, 100	10, 15, 20, 25, 30, 40, 50, 60, 80	1 ... 500	
			125	–	1 ... 500	
		ADN-...-S2 Through piston rod	12, 16, 20, 25	–	1 ... 300	■
			32, 40, 50	–	1 ... 400	
			63, 80, 100, 125	–	1 ... 500	
Single-acting		AEN Piston rod at one end Pushing	12	–	1 ... 10	■
			16, 20, 25, 32, 40, 50, 63,	–	1 ... 25	
			80, 100	–	1 ... 25	
		AEN-...-Z Piston rod at one end Pulling	12	–	1 ... 10	■
			16, 20, 25, 32, 40, 50, 63,	–	1 ... 25	
			80, 100	–	1 ... 25	
			–	–	–	

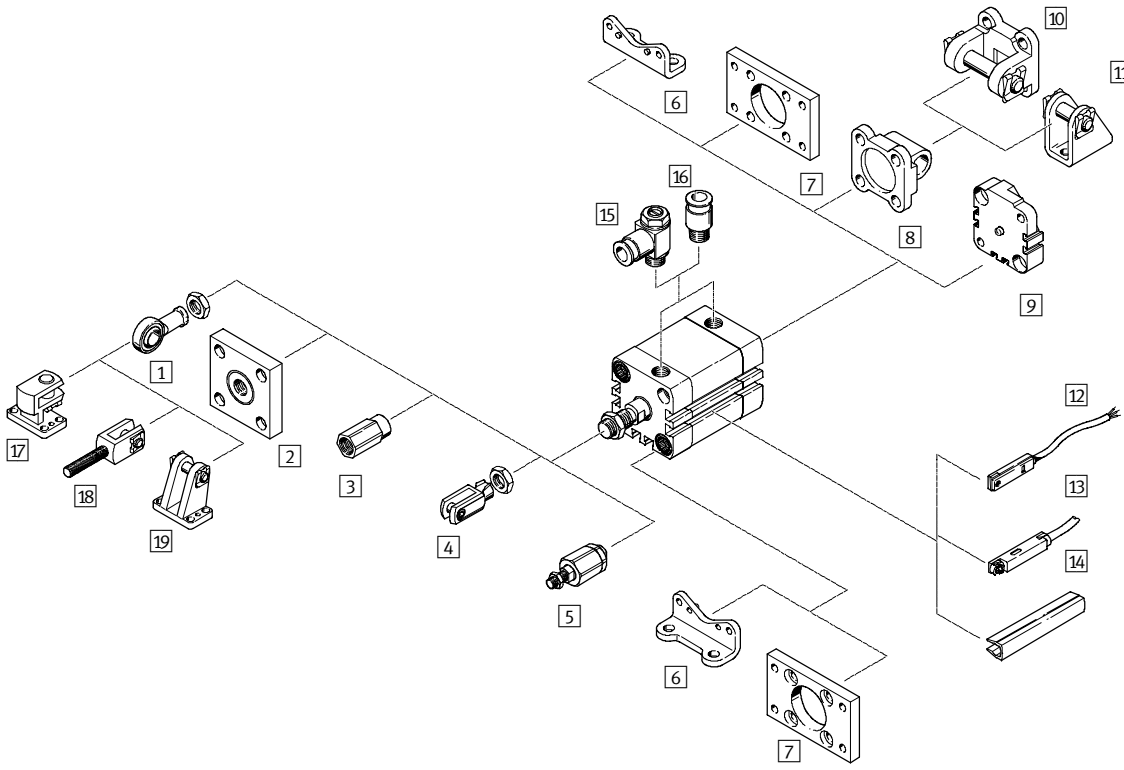
# Standard cylinders ADN/AEN, ISO 21 287

Product range overview

Type	Piston rod with male thread	Piston rod with female thread	Piston rod with extended male thread K2	Special piston rod thread K5	Piston rod extended K8	→ Page
<b>ADN</b> Piston rod at one end	■	■	■	■	■	1 / 1.4-9
<b>ADN-...-S2</b> Through piston rod	■	■	■	■	■	1 / 1.4-9
<b>AEN</b> Piston rod at one end Pushing	■	■	■	■	■	1 / 1.4-20
<b>AEN-...-Z</b> Piston rod at one end Pulling	■	■	■	■	■	1 / 1.4-20

# Standard cylinders ADN/AEN, ISO 21 287

Peripherals overview



ISO standard cylinders  
ISO 21 287

## 1.4

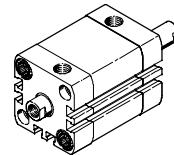
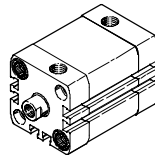
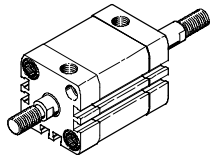
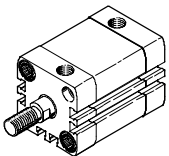
### Variants

ADN- ... -A-P-A

ADN- ... -A-P-A-S2

ADN- ... -I-P-A

ADN- ... -I-P-A-S2



## Standard cylinders ADN/AEN, ISO 21 287

Peripherals overview

Mounting attachments and accessories			
	Brief description	ADN/AEN	→ Page
1	Rod eye SGS/CRSGS	With spherical bearing	■ 1 / 1.4-34
2	Coupling piece KSG/KSZ	For compensating radial deviations	■ 1 / 1.4-34
3	Adapter AD	To allow mounting of a vacuum suction cup on a hollow cylinder piston rod	■ 1 / 1.4-34
4	Rod clevis SG	Permits a swivelling movement of the cylinder in one plane	■ 1 / 1.4-34
5	Self-aligning rod coupler FK	For compensating radial and angular deviations	■ 1 / 1.4-34
6	Foot mounting HNA	For bearing or end caps	■ 1 / 1.4-28
7	Flange mounting FNC	For bearing or end caps	■ 1 / 1.4-29
8	Swivel flange SNCL	For end caps	■ 1 / 1.4-30
9	Adapter kit DPNA	For connecting two cylinders with identical piston diameter to form a multi-position cylinder	■ 1 / 1.4-31
10	Swivel flange SNCB	For end caps	■ 1 / 1.4-33
11	Clevis foot LBN/CRLBN	For end caps	■ 1 / 1.4-32
12	Proximity sensor SME/SMT-8	Can be integrated in the cylinder profile barrel	■ 1 / 1.4-36
13	Proximity sensor SME/SMT-8F	Can be integrated in the cylinder profile barrel	■ 1 / 1.4-36
14	Slot cover ABP-5-S	To protect the sensor cable and keep dirt out of the sensor slots	■ 1 / 1.4-36
15	One-way flow control valve GRLA/GRLZ	To regulate speed	■ 1 / 1.4-35
16	Push-in fitting QS	For connecting compressed air tubing with standard external diameters to CETOP RP54 P	■ Volume 3
17	Right-angle clevis foot LQG	–	■ 1 / 1.4-35
18	Rod clevis SGA	With male thread	■ 1 / 1.4-34
19	Clevis foot LBG	–	■ 1 / 1.4-35
–	Centring sleeve ZBH	X included in scope of delivery	■ 1 / 1.4-31

# Standard cylinders ADN/AEN, ISO 21 287

Type codes

ADN – 50 – 50 – A – P – A – S2

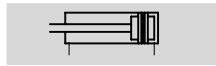
<b>Type</b>	
Double-acting	
ADN	Basic version
Single-acting	
AEN	Basic version
<b>Piston Ø [mm]</b>	
<b>Stroke [mm]</b>	
<b>Piston rod thread</b>	
I	Female thread
A	Male thread
<b>Cushioning</b>	
P	Non-adjustable at either end
<b>Position sensing</b>	
A	With proximity sensor
<b>Variant</b>	
S2	Through piston rod
K2	Male thread extended
K5	Special thread
K8	Piston rod extended
Z	Single-acting, pulling
TL	Captive rating plate





# Standard cylinders ADN, ISO 21 287

Technical data

**Function**



 Diameters  
12 ... 125 mm

 Stroke length  
1 ... 500 mm

 [www.festo.com/en/  
Spare\\_parts\\_service](http://www.festo.com/en/Spare_parts_service)

**Variants**



S2



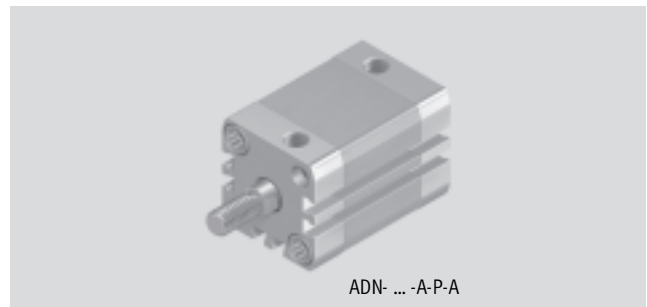
K2



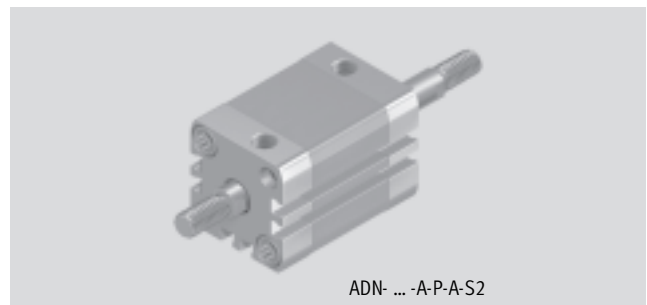
K5



K8



ADN- ... -A-P-A



ADN- ... -A-P-A-S2



General technical data												
Piston Ø	12	16	20	25	32	40	50	63	80	100	125	
Pneumatic connection	M5	M5	M5	M5	G <sup>1</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>4</sub>
End of piston rod	Female thread	M3	M4	M6	M6	M8	M8	M10	M10	M12	M12	M16
	Male thread	M5	M6	M8	M8	M10x1.25	M10x1.25	M12x1.25	M12x1.25	M16x1.5	M16x1.5	M20x1.5
Operating medium	Filtered compressed air, lubricated or unlubricated											
Constructional design	Piston											
	Piston rod											
	Cylinder barrel											
Cushioning	Non-adjustable at either end											
Position sensing	With proximity sensor											
Type of mounting	Via through-holes											-
	With female thread											
	Via accessories											
Mounting position	Any											

Operating pressure [bar]												
Piston Ø	12	16	20	25	32	40	50	63	80	100	125	
Piston rod at one end	1 ... 10		0.6 ... 10									
Through piston rod S2	1 ... 10		0.6 ... 10									

Ambient conditions	
Variant	Basic version
Ambient temperature <sup>1)</sup> [°C]	-20 ... +80
Corrosion resistance class CRC <sup>2)</sup>	2

1) Note operating range of proximity sensors.

2) Corrosion resistance class 2 according to Festo standard 940 070

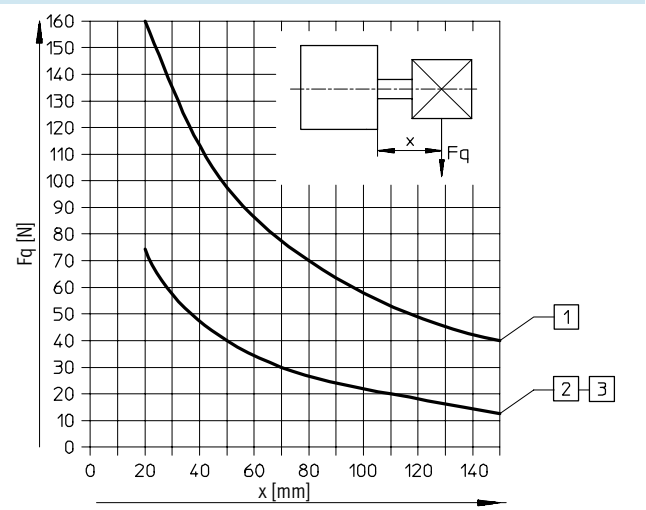
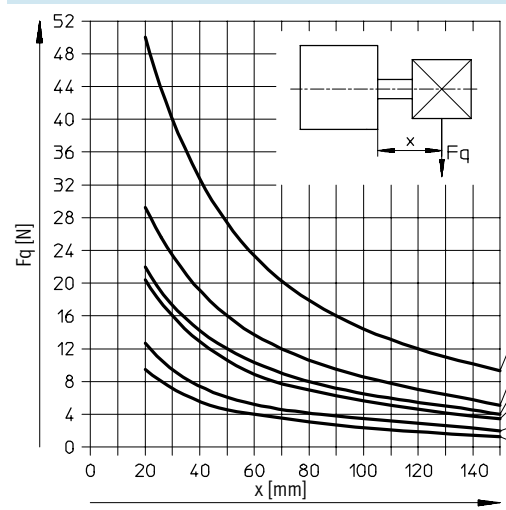
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating agents.

# Standard cylinders ADN, ISO 21 287

Technical data

Forces [N] and impact energy [J]												
Piston $\varnothing$	12	16	20	25	32	40	50	63	80	100	125	
Theoretical force at 6 bar, advancing		68	121	188	295	483	754	1 178	1 870	3 016	4 712	7 363
	S2	51	90	141	247	415	686	1 057	1 750	2 827	4 524	7 069
Theoretical force at 6 bar, retracting		51	90	141	247	415	686	1 057	1 750	2 827	4 524	7 069
	S2	51	90	141	247	415	686	1 057	1 750	2 827	4 524	7 069
Max. impact energy at end positions	0.07	0.15	0.2	0.3	0.4	0.7	1.0	1.3	1.8	2.5	3.3	

## Max. lateral force $F_q$ as a function of projection $x$



- 1  $\varnothing 125$  mm
- 5  $\varnothing 50$  mm
- 9  $\varnothing 20$  mm
- 2  $\varnothing 100$  mm
- 6  $\varnothing 40$  mm
- 10  $\varnothing 16$  mm
- 3  $\varnothing 80$  mm
- 7  $\varnothing 32$  mm
- 11  $\varnothing 12$  mm
- 4  $\varnothing 63$  mm
- 8  $\varnothing 25$  mm

ISO standard cylinders  
ISO 21 287

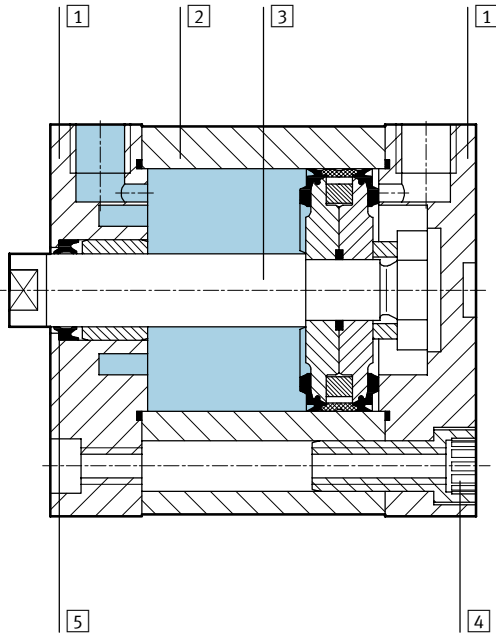
1.4

# Standard cylinders ADN, ISO 21 287

Technical data

**Materials**

Sectional view



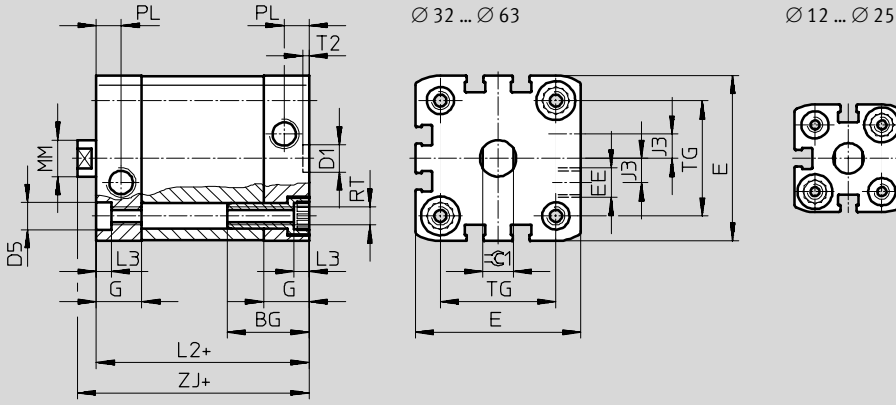
Variants	Basic version	
1 Cover cap	Anodised aluminium	
2 Cylinder barrel	Smooth anodised aluminium	
3 Piston rod	High-alloy steel	
4 Flange screws	∅ 12 ... 16	High-alloy steel
	∅ 40 ... 63	Galvanised steel
	∅ 80 ... 125	Standard screws, galvanised steel
5 Seals	Polyurethane	

# Standard cylinders ADN, ISO 21 287

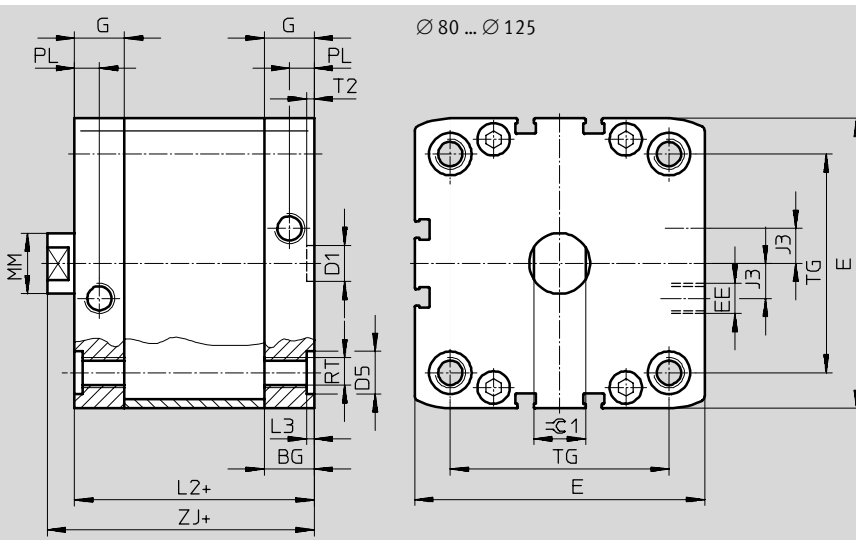
Technical data

## Dimensions – Basic cylinders

Download CAD data → [www.festo.com/en/engineering](http://www.festo.com/en/engineering)



+ = plus stroke length



+ = plus stroke length

ISO standard cylinders  
ISO 21 287  
1.4

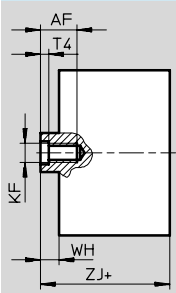
Ø [mm]	BG	D1 Ø H9	D5 Ø F9	E	EE	G	J3	L2 max.	L3 + 0.2	MM Ø h8	PL + 0.2	RT	T2 + 0.1	TG ± 0.2	ZJ	⊖C1 h13
12	17	9	6	27.5+0.3	M5	10.5	2	35	3.5	6	6	M4	2.1	16	40	5
16				29+0.3		11				2.6				8		18
20	19.5		9	35.5+0.3		12	37	10	M5	22				43	9	
25				39.5+0.3		39	26	45								
32	27	12	9	47+0.3	G1/8	15	6	5	12	8.2	M6	2.6	32.5	50	10	
40				54.5+0.3			8		44				38			51
50				65.5+0.3			11.5		45				46.5	53		
63				75.5+0.3			11.5		49				56.5	57		
80	16.5		14	95.5+0.6	16.5	54	2.6	20	8.2	M10	2.6	72	63	17		
100	21.5			113.5+0.6	21.5	20	2.6					89	76			
125	20			134.6+0.3	G1/4	20	21.15					81	–		10.5	M12

# Standard cylinders ADN, ISO 21 287

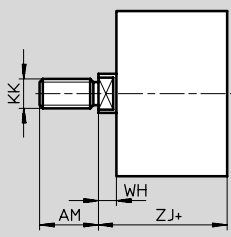
Technical data

**Dimensions – Variants** Download CAD data → [www.festo.com/en/engineering](http://www.festo.com/en/engineering)

Basic version

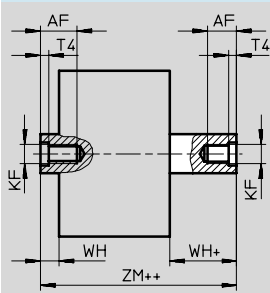


+ = plus stroke length

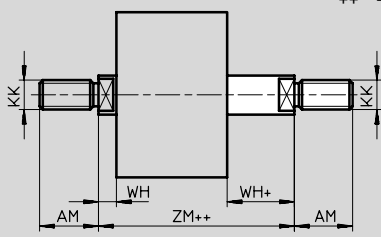


+ = plus stroke length

S2 – Through piston rod



+ = plus stroke length  
++ = plus 2x stroke length



+ = plus stroke length  
++ = plus 2x stroke length

∅	AF	AM	KF	KK	T4	WH	ZJ	ZM
[mm]	min.	- 0.5						
12	8	10	M3	M5	1.5	4.2 +1	40	44.2
16	10	12	M4	M6		4.85+1	40	44.85
20	14	16	M6	M8	2.6	5.65+1	43	48.65
25						5.65+1	45	50.65
32	16	19	M8	M10x1.25	3.3	6.15+1	50	56.15
40						6.15+1	51	57.15
50	20	22	M10	M12x1.25	4.7	8.25+1	53	61.25
63						8.25+1	57	65.25
80	20	28	M12	M16x1.5	6.1	9+1	63	72
100						9+1	76	85
125	25	40	M16	M20x1.5	7	10.8+1.2	92	102.8

ISO standard cylinders  
ISO 21 287  
**1.4**

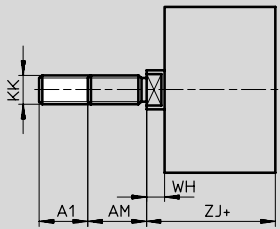
# Standard cylinders ADN, ISO 21 287

Technical data

**Dimensions – Variants**

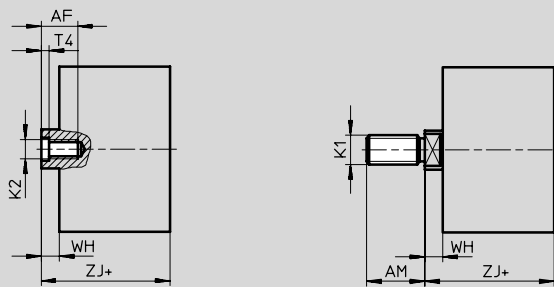
Download CAD data → [www.festo.com/en/engineering](http://www.festo.com/en/engineering)

**K2 – Extended male thread**



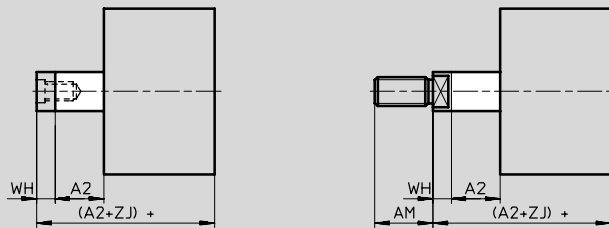
+ = plus stroke length

**K5 – Special thread**



+ = plus stroke length

**K8 – Piston rod extended**



+ = plus stroke length


# Standard cylinders ADN, ISO 21 287

Technical data

∅ [mm]	A1	A2	AF min.	AM - 0.5	K1	K2	KK	T4	WH	ZJ
12	1 ... 10	1 ... 300	8	10	M6	–	M5	1.5	4.2+1	40
16			10	12	M8	–	M6	1.5	4.85+1	40
20	14		16	M10	M5	M8	2.6	5.65+1	43	
				M10x1.25						
25	1 ... 20	14	16	M10	M5	M8	2.6	5.65+1	45	
				M10x1.25						
32	1 ... 400	16	19	M10	M6	M10x1.25	3.3	6.15+1	50	
				M12						
40		16	19	M10	M6	M10x1.25	3.3	6.15+1	51	
				M12						
50		20	22	M12	M8	M12x1.25	4.7	8.25+1	53	
				M16						
63		20	22	M12	M8	M12x1.25	4.7	8.25+1	57	
				M16						
80	1 ... 30	1 ... 500	20	28	M16	M10	M16x1.5	6.1	9+1	63
					M20					
100			20	28	M16	M10	M16x1.5	6.1	9+1	76
					M20					
		M20x1.5								
125	1 ... 40	25	40	M20	–	M20x1.5	7	10.8+1.2	92	

# Standard cylinders ADN, ISO 21 287

Technical data


Ordering data – Basic version						
Type	Piston Ø [mm]	Stroke [mm]	Piston rod with female thread		Piston rod with male thread	
			Part No.	Type	Part No.	Type
	12	5	536 211	ADN-12-5-I-P-A	536 204	ADN-12-5-A-P-A
		10	536 212	ADN-12-10-I-P-A	536 205	ADN-12-10-A-P-A
		15	536 213	ADN-12-15-I-P-A	536 206	ADN-12-15-A-P-A
		20	536 214	ADN-12-20-I-P-A	536 207	ADN-12-20-A-P-A
		25	536 215	ADN-12-25-I-P-A	536 208	ADN-12-25-A-P-A
		30	536 216	ADN-12-30-I-P-A	536 209	ADN-12-30-A-P-A
		40	536 217	ADN-12-40-I-P-A	536 210	ADN-12-40-A-P-A
		16	5	536 226	ADN-16-5-I-P-A	536 219
	10		536 227	ADN-16-10-I-P-A	536 220	ADN-16-10-A-P-A
	15		536 228	ADN-16-15-I-P-A	536 221	ADN-16-15-A-P-A
	20		536 229	ADN-16-20-I-P-A	536 222	ADN-16-20-A-P-A
	25		536 230	ADN-16-25-I-P-A	536 223	ADN-16-25-A-P-A
	30		536 231	ADN-16-30-I-P-A	536 224	ADN-16-30-A-P-A
	40		536 232	ADN-16-40-I-P-A	536 225	ADN-16-40-A-P-A
	50		536 341	ADN-16-50-I-P-A	536 331	ADN-16-50-A-P-A
	20	5	536 242	ADN-20-5-I-P-A	536 234	ADN-20-5-A-P-A
		10	536 243	ADN-20-10-I-P-A	536 235	ADN-20-10-A-P-A
		15	536 244	ADN-20-15-I-P-A	536 236	ADN-20-15-A-P-A
		20	536 245	ADN-20-20-I-P-A	536 237	ADN-20-20-A-P-A
		25	536 246	ADN-20-25-I-P-A	536 238	ADN-20-25-A-P-A
		30	536 247	ADN-20-30-I-P-A	536 239	ADN-20-30-A-P-A
		40	536 248	ADN-20-40-I-P-A	536 240	ADN-20-40-A-P-A
		50	536 249	ADN-20-50-I-P-A	536 241	ADN-20-50-A-P-A
		60	536 362	ADN-20-60-I-P-A	536 352	ADN-20-60-A-P-A
		25	5	536 259	ADN-25-5-I-P-A	536 251
	10		536 260	ADN-25-10-I-P-A	536 252	ADN-25-10-A-P-A
	15		536 261	ADN-25-15-I-P-A	536 253	ADN-25-15-A-P-A
	20		536 262	ADN-25-20-I-P-A	536 254	ADN-25-20-A-P-A
25	536 263		ADN-25-25-I-P-A	536 255	ADN-25-25-A-P-A	
30	536 264		ADN-25-30-I-P-A	536 256	ADN-25-30-A-P-A	
40	536 265		ADN-25-40-I-P-A	536 257	ADN-25-40-A-P-A	
50	536 266		ADN-25-50-I-P-A	536 258	ADN-25-50-A-P-A	
60	536 383		ADN-25-60-I-P-A	536 373	ADN-25-60-A-P-A	
32	5		536 278	ADN-32-5-I-P-A	536 268	ADN-32-5-A-P-A
	10	536 279	ADN-32-10-I-P-A	536 269	ADN-32-10-A-P-A	
	15	536 280	ADN-32-15-I-P-A	536 270	ADN-32-15-A-P-A	
	20	536 281	ADN-32-20-I-P-A	536 271	ADN-32-20-A-P-A	
	25	536 282	ADN-32-25-I-P-A	536 272	ADN-32-25-A-P-A	
	30	536 283	ADN-32-30-I-P-A	536 273	ADN-32-30-A-P-A	
	40	536 284	ADN-32-40-I-P-A	536 274	ADN-32-40-A-P-A	
	50	536 285	ADN-32-50-I-P-A	536 275	ADN-32-50-A-P-A	
	60	536 286	ADN-32-60-I-P-A	536 276	ADN-32-60-A-P-A	
	80	536 287	ADN-32-80-I-P-A	536 277	ADN-32-80-A-P-A	

ISO standard cylinders  
ISO 21 287  
1.4



# Standard cylinders ADN, ISO 21 287

Technical data

Ordering data – Basic version								
Type	Piston Ø [mm]	Stroke [mm]	Piston rod with female thread		Piston rod with male thread			
			Part No.	Type	Part No.	Type		
	40	5	536 299	ADN-40-5-I-P-A	536 289	ADN-40-5-A-P-A		
		10	536 300	ADN-40-10-I-P-A	536 290	ADN-40-10-A-P-A		
		15	536 301	ADN-40-15-I-P-A	536 291	ADN-40-15-A-P-A		
		20	536 302	ADN-40-20-I-P-A	536 292	ADN-40-20-A-P-A		
		25	536 303	ADN-40-25-I-P-A	536 293	ADN-40-25-A-P-A		
		30	536 304	ADN-40-30-I-P-A	536 294	ADN-40-30-A-P-A		
		40	536 305	ADN-40-40-I-P-A	536 295	ADN-40-40-A-P-A		
		50	536 306	ADN-40-50-I-P-A	536 296	ADN-40-50-A-P-A		
		60	536 307	ADN-40-60-I-P-A	536 297	ADN-40-60-A-P-A		
		80	536 308	ADN-40-80-I-P-A	536 298	ADN-40-80-A-P-A		
		50	50	5	536 320	ADN-50-5-I-P-A	536 310	ADN-50-5-A-P-A
				10	536 321	ADN-50-10-I-P-A	536 311	ADN-50-10-A-P-A
				15	536 322	ADN-50-15-I-P-A	536 312	ADN-50-15-A-P-A
				20	536 323	ADN-50-20-I-P-A	536 313	ADN-50-20-A-P-A
25	536 324			ADN-50-25-I-P-A	536 314	ADN-50-25-A-P-A		
30	536 325			ADN-50-30-I-P-A	536 315	ADN-50-30-A-P-A		
40	536 326			ADN-50-40-I-P-A	536 316	ADN-50-40-A-P-A		
50	536 327			ADN-50-50-I-P-A	536 317	ADN-50-50-A-P-A		
60	536 328			ADN-50-60-I-P-A	536 318	ADN-50-60-A-P-A		
80	536 329			ADN-50-80-I-P-A	536 319	ADN-50-80-A-P-A		
63	63	10	536 342	ADN-63-10-I-P-A	536 332	ADN-63-10-A-P-A		
		15	536 343	ADN-63-15-I-P-A	536 333	ADN-63-15-A-P-A		
		20	536 344	ADN-63-20-I-P-A	536 334	ADN-63-20-A-P-A		
		25	536 345	ADN-63-25-I-P-A	536 335	ADN-63-25-A-P-A		
		30	536 346	ADN-63-30-I-P-A	536 336	ADN-63-30-A-P-A		
		40	536 347	ADN-63-40-I-P-A	536 337	ADN-63-40-A-P-A		
		50	536 348	ADN-63-50-I-P-A	536 338	ADN-63-50-A-P-A		
		60	536 349	ADN-63-60-I-P-A	536 339	ADN-63-60-A-P-A		
80	80	10	536 363	ADN-80-10-I-P-A	536 353	ADN-80-10-A-P-A		
		15	536 364	ADN-80-15-I-P-A	536 354	ADN-80-15-A-P-A		
		20	536 365	ADN-80-20-I-P-A	536 355	ADN-80-20-A-P-A		
		25	536 366	ADN-80-25-I-P-A	536 356	ADN-80-25-A-P-A		
		30	536 367	ADN-80-30-I-P-A	536 357	ADN-80-30-A-P-A		
		40	536 368	ADN-80-40-I-P-A	536 358	ADN-80-40-A-P-A		
		50	536 369	ADN-80-50-I-P-A	536 359	ADN-80-50-A-P-A		
		60	536 370	ADN-80-60-I-P-A	536 360	ADN-80-60-A-P-A		
		80	536 371	ADN-80-80-I-P-A	536 361	ADN-80-80-A-P-A		
		100	100	10	536 384	ADN-100-10-I-P-A	536 374	ADN-100-10-A-P-A
15	536 385			ADN-100-15-I-P-A	536 375	ADN-100-15-A-P-A		
20	536 386			ADN-100-20-I-P-A	536 376	ADN-100-20-A-P-A		
25	536 387			ADN-100-25-I-P-A	536 377	ADN-100-25-A-P-A		
30	536 388			ADN-100-30-I-P-A	536 378	ADN-100-30-A-P-A		
40	536 389			ADN-100-40-I-P-A	536 379	ADN-100-40-A-P-A		
50	536 390			ADN-100-50-I-P-A	536 380	ADN-100-50-A-P-A		
60	536 391			ADN-100-60-I-P-A	536 381	ADN-100-60-A-P-A		
80	536 392	ADN-100-80-I-P-A	536 382	ADN-100-80-A-P-A				

# Standard cylinders ADN, ISO 21 287

Ordering data – Modular products

**M** Mandatory data →

Module No.	Function	Piston Ø	Stroke	Piston rod thread	Cushioning	Position sensing					
536 203	ADN	12	1 ... 500	A I	P	A					
536 218											
536 233											
536 250											
536 267											
536 288											
536 309											
536 330											
536 351											
536 372											
536 393											
<b>Ordering example</b>											
<b>536 309</b>		<b>ADN</b>					<b>50</b>	<b>350</b>	<b>A</b>	<b>P</b>	<b>A</b>

**Ordering table**

Size	12	16	20	25	32	40	Condi- tions	Code	Enter code
<b>M</b> Module No.	<b>536 203</b>	<b>536 218</b>	<b>536 233</b>	<b>536 250</b>	<b>536 267</b>	<b>536 288</b>			
Function	Compact cylinder, double-acting, based on DIN ISO 21 287							<b>ADN</b>	ADN
Piston Ø	12	16	20	25	32	40	-...		
Stroke [mm]	1 ... 300				1 ... 400		-...		
Piston rod thread	Male thread							<b>-A</b>	
	Female thread							<b>-I</b>	
Cushioning	Flexible cushioning rings/plates at both ends							<b>-P</b>	-P
Position sensing	For proximity sensors							<b>-A</b>	-A
<b>O</b> Type of piston rod	Through piston rod							<b>-S2</b>	
Male thread extended [mm]	1 ... 10		1 ... 20					<b>...K2</b>	
Special piston rod thread	M6	M8	M10x1.25 M10	M10x1.25 M10	M10 M12	M10 M12	[1]	<b>-"...K5</b>	
	-	-	M5	M5	M6	M6	[2]		
Piston rod extended [mm]	1 ... 300				1 ... 400		[3]	<b>...K8</b>	
Captive rating plate	Lasered rating plate							<b>-TL</b>	

- [1] **K5** Only with piston rod thread A (male thread).
- [2] **K5** Only with piston rod thread I (female thread).

- [3] **K8** The sum of the stroke length and piston rod extension must not exceed the maximum permissible stroke length.

Transfer order code

**ADN** -  -  -  - **P** - **A**

# Standard cylinders ADN, ISO 21 287

Ordering data – Modular products

0 Options				
Type of piston rod	Male thread extended	Special thread	Piston rod extended	Captive rating plate
S2	...K2	"... "K5	...K8	TL
- S2	- 15K2	- "M16"K5	- 50K8	-

Ordering table									
Size	50	63	80	100	125	Condi- tions	Code	Enter code	
<b>M</b> Module No.	<b>536 309</b>	<b>536 330</b>	<b>536 351</b>	<b>536 372</b>	<b>536 393</b>				
Function	Compact cylinder, double-acting, based on DIN ISO 21 287							<b>ADN</b>	ADN
Piston Ø [mm]	50	63	80	100	125		-...		
Stroke [mm]	1 ... 400		1 ... 500				-...		
Piston rod thread	Male thread							-A	
	Female thread							-I	
Cushioning	Flexible cushioning rings/plates at both ends							-P	-P
Position sensing	For proximity sensors							-A	-A
<b>0</b> Type of piston rod	Through piston rod							-S2	
Male thread extended [mm]	1 ... 20		1 ... 30		1 ... 40			-...K2	
Special piston rod thread	M12	M12	M16	M16	M20	[1]	-"... "K5		
	M16	M16	M20	M20	M20x1.5				
	M8	M8	M10	-	-	[2]			
Piston rod extended [mm]	1 ... 400		1 ... 500			[3]	-...K8		
Captive rating plate	Lasered rating plate							-TL	

[1] **K5** Only with piston rod thread A (male thread).  
 [2] **K5** Only with piston rod thread I (female thread).

[3] **K8** The sum of the stroke length and piston rod extension must not exceed the maximum permissible stroke length.

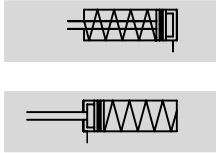
Transfer order code

-  -  -  -  -

# Standard cylinders AEN, ISO 21 287

Technical data

**Function**



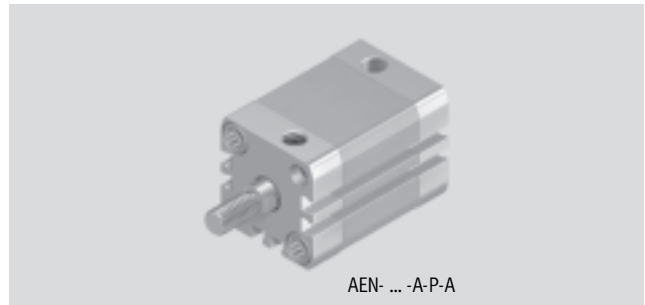
**Variants**



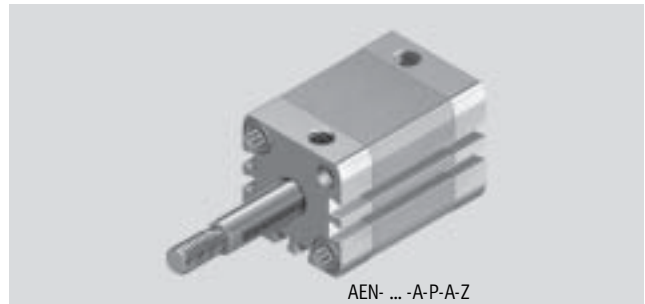
K2

K5


K8




AEN- ... -A-P-A



AEN- ... -A-P-A-Z

 Diameters  
12 ... 100 mm

 Stroke length  
1 ... 25 mm

 [www.festo.com/en/  
Spare\\_parts\\_service](http://www.festo.com/en/Spare_parts_service)



General technical data											
Piston Ø	12	16	20	25	32	40	50	63	80	100	
Pneumatic connection	M5	M5	M5	M5	G1/8	G1/8	G1/8	G1/8	G1/8	G1/8	
End of piston rod	Female thread	M3	M4	M6	M6	M8	M8	M10	M10	M12	M12
	Male thread	M5	M6	M8	M8	M10x1.25	M10x1.25	M12x1.25	M12x1.25	M16x1.5	M16x1.5
Operating medium	Filtered compressed air, lubricated or unlubricated										
Constructional design	Piston										
	Piston rod										
	Cylinder barrel										
Cushioning	Non-adjustable at either end										
Position sensing	With proximity sensor										
Type of mounting	Via through-holes										
	With female thread										
	Via accessories										
Mounting position	Any										

Operating pressure [bar]										
Piston Ø	12	16	20	25	32	40	50	63	80	100
Piston rod at one end	1.5 ... 10		1 ... 10							

Ambient conditions	
Variant	Basic version
Ambient temperature <sup>1)</sup> [°C]	-20 ... +80
Corrosion resistance class CRC <sup>2)</sup>	2

1) Note operating range of proximity sensors.

2) 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.

## Standard cylinders AEN, ISO 21 287

Technical data

Forces [N] and impact energy [J]										
Piston $\varnothing$	12	16	20	25	32	40	50	63	80	100
Pushing AEN										
Theoretical force at 6 bar, advancing	59	95	161	260	440	700	1 100	1 780	2 870	4 510
Pulling AEN...-Z										
Theoretical force at 6 bar, retracting	40	65	115	210	380	632	980	1 660	2 700	4 324
Min. theoretical spring return force	5	7	10	14	18	26	35	43	60	94
Max. impact energy at end positions	0.04	0.04	0.04	0.08	0.1	0.15	0.18	0.28	0.35	0.7

 **Note**

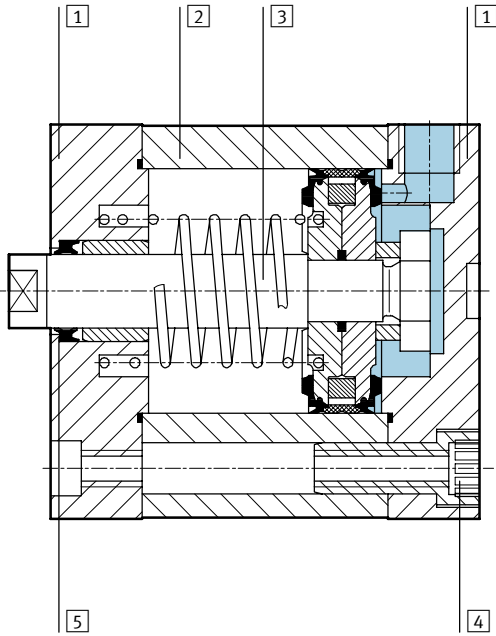
The degree of friction depends upon the mounting position, and the type of load involved. Single-acting cylinders should as far as possible be operated without lateral forces.

# Standard cylinders AEN, ISO 21 287

Technical data

## Materials

Sectional view



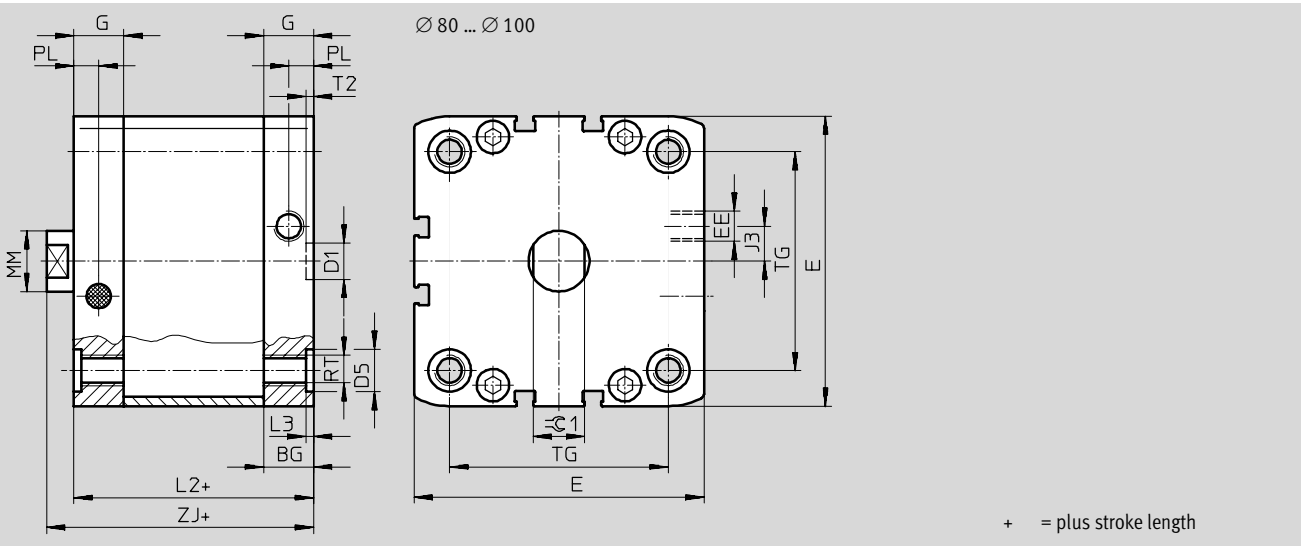
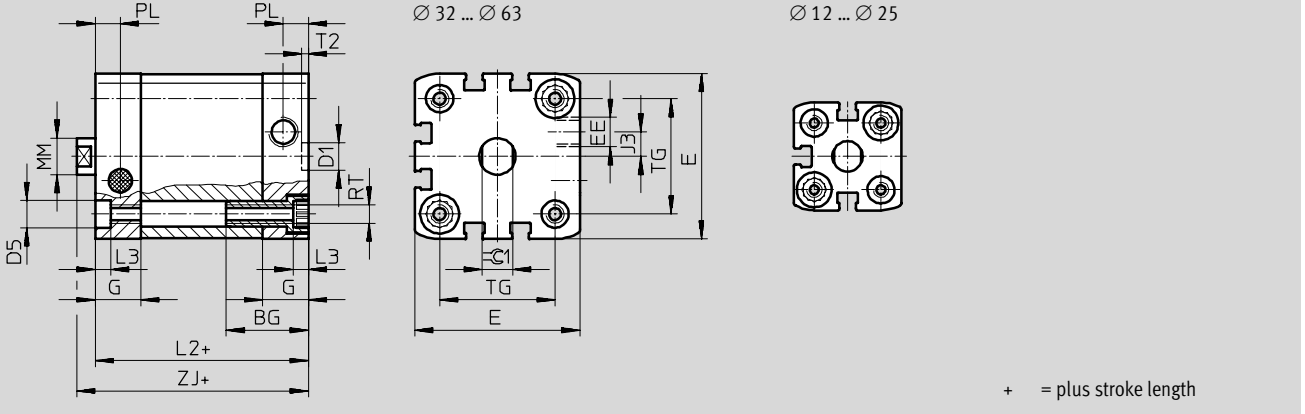
Variants	Basic version	
1 Cover cap	Anodised aluminium	
2 Cylinder barrel	Smooth anodised aluminium	
3 Piston rod	High-alloy steel	
4 Flange screws	∅ 12 ... 16	High-alloy steel
	∅ 40 ... 63	Galvanised steel
	∅ 80 ... 125	Standard screws, galvanised steel
5 Seals	Polyurethane	

# Standard cylinders AEN, ISO 21 287

Technical data

Dimensions – Basic cylinders

Download CAD data → [www.festo.com/en/engineering](http://www.festo.com/en/engineering)

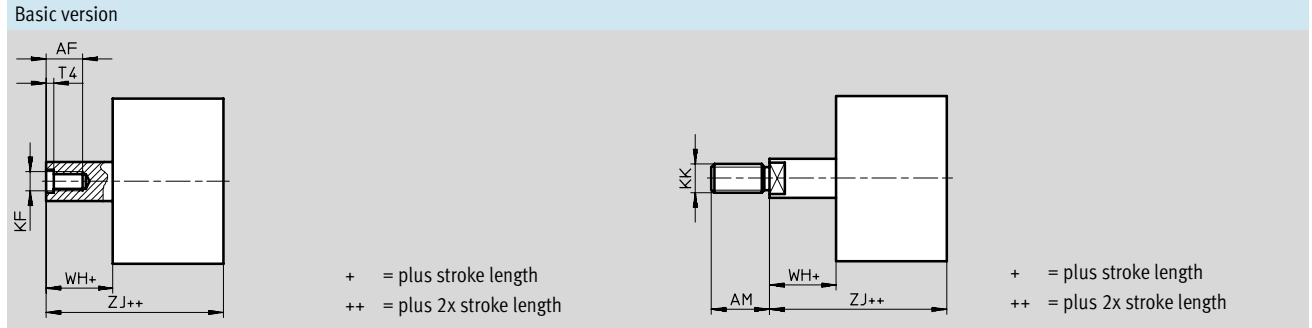


Ø [mm]	BG	D1 Ø H9	D5 Ø F9	E	EE	G	J3	L2 max.	L3 +0.2	MM Ø h8	PL +0.2	RT	T2 +0.1	TG ±0.2	ZJ	⌀1 h13
12	17	9	6	27.5+0.3	M5	10.5	2	35	3.5	6	6	M4	2.1	16	40	5
16				29+0.3		11				8				18		7
20	19.5		9	35.5+0.3		12	2.6	37	10	10	M5	22		43	9	
25				39.5+0.3								6		26	45	
32	27	9	47+0.3	15	6	44	5	12	8.2	M6	2.6		32.5	50	10	
40			54.5+0.3									8	45	16	M8	38
50		12	12	65.5+0.3	11.5	49	20	8.2	M10	46.5						53
63				75.5+0.3						20		67	10.5	56.5	57	
80	16.5	14	95.5+0.6	21.5	20	67	2.6	20	10.5		M10			2.6	72	63
100			21.5							113.5+0.6		89	76			

# Standard cylinders AEN, ISO 21 287

Technical data

Dimensions – Variants Download CAD data → [www.festo.com/en/engineering](http://www.festo.com/en/engineering)



∅	AF	AM	KF	KK	T4	WH	ZJ
[mm]	min.	- 0.5					
12	8	10	M3	M5	1.5	4.2 <sup>+1</sup>	40
16	10	12	M4	M6	1.5	4.85 <sup>+1</sup>	40
20	14	16	M6	M8	2.6	5.65 <sup>+1</sup>	43
25	14	16	M6	M8	2.6	5.65 <sup>+1</sup>	45
32	16	19	M8	M10x1.25	3.3	6.15 <sup>+1</sup>	50
40	16	19	M8	M10x1.25	3.3	6.15 <sup>+1</sup>	51
50	20	22	M10	M12x1.25	4.7	8.25 <sup>+1</sup>	53
63	20	22	M10	M12x1.25	4.7	8.25 <sup>+1</sup>	57
80	20	28	M12	M16x1.5	6.1	9 <sup>+1</sup>	63
100	20	28	M12	M16x1.5	6.1	9 <sup>+1</sup>	76

ISO standard cylinders  
ISO 21 287

1.4



# Standard cylinders AEN, ISO 21 287

Technical data

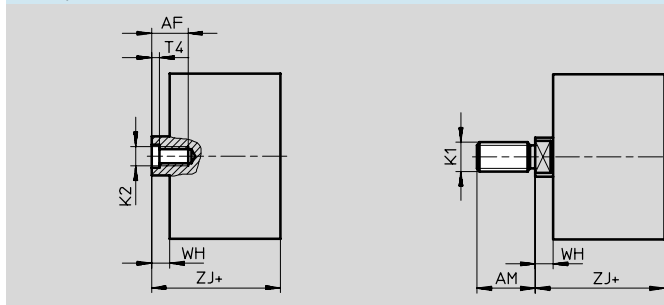
**Dimensions – Variants** Download CAD data → [www.festo.com/en/engineering](http://www.festo.com/en/engineering)

**K2 – Extended male thread**



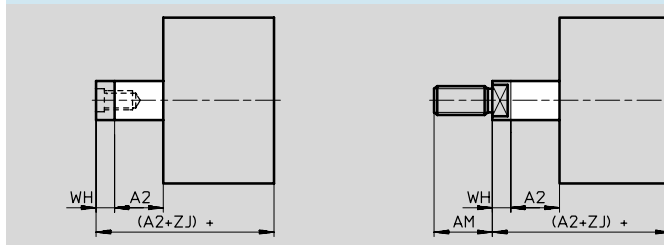
+ = plus stroke length

**K5 – Special thread**



+ = plus stroke length

**K8 – Piston rod extended**



+ = plus stroke length

∅	A1	A2	AF	AM	K1	K2	KK	T4	WH	ZJ		
[mm]			min.	- 0.5								
12	1 ... 10	1 ... 10	8	10	M6	–	M5	1.5	4.2 <sup>+1</sup>	40		
16	1 ... 10	1 ... 25	10	12	M8	–	M6		4.85 <sup>+1</sup>	40		
20	1 ... 20	1 ... 25	14	16	M10	M5	M8	2.6	5.65 <sup>+1</sup>	43		
25					M10x1.25				5.65 <sup>+1</sup>	45		
32					M10				6.15 <sup>+1</sup>	50		
40	1 ... 20	1 ... 25	16	19	M12	M6	M10x1.25	3.3			6.15 <sup>+1</sup>	51
	M10	8.25 <sup>+1</sup>	53									
	M12											
50	1 ... 20	1 ... 25	20	22	M16	M8	M12x1.25	4.7	8.25 <sup>+1</sup>	57		
63					M12				9 <sup>+1</sup>	63		
					M16							
					M16							
80	1 ... 30	1 ... 25	20	28	M16	M10	M16x1.5	6.1	9 <sup>+1</sup>	63		
100					M20				9 <sup>+1</sup>	76		
					M16							
					M20							
					M20x1.5							

# Standard cylinders AEN, ISO 21 287

Ordering data – Modular products

**M** Mandatory data →

Module No.	Function	Piston Ø	Stroke	Type of thread	Cushioning	Position sensing					
536 414	AEN	12	1 ... 25	A I	P	A					
536 415											
536 416											
536 417											
536 418											
536 419											
536 420											
536 421											
536 422											
536 423											
<b>Ordering example</b>											
536 423		AEN					100	21	A	P	A

**Ordering table**

Size	12	16	20	25	32	Condi- tions	Code	Enter code	
<b>M</b> Module No.	536 414	536 415	536 416	536 417	536 418				
Function	Standard cylinder, single-acting, based on DIN ISO 21 287							AEN	AEN
Piston Ø [mm]	12	16	20	25	32		-...		
Stroke [mm]	1 ... 10		1 ... 25				-...		
Type of thread	Piston rod with male thread						-A		
	Female piston rod thread						-I		
Cushioning	Flexible cushioning rings/plates at both ends						-P	-P	
Position sensing	For proximity sensors						-A	-A	
<b>O</b> Direction of effect	Single-acting, pulling						-Z		
Male thread extended [mm]	1 ... 10		1 ... 20				-...K2		
Special piston rod thread	M6	M8	M10x1.25	M10x1.25	M10	1	-...K5		
	-	-	M5	M5	M6			2	
Piston rod extended [mm]	1 ... 10		1 ... 25				3	-...K8	
Captive rating plate	Lasered rating plate						-TL		

1 **K5** Only with thread type A (piston rod with male thread).  
 2 **K5** Only with thread type I (piston rod with female thread).

3 **K8** The sum of the stroke length and piston rod extension must not exceed the maximum permissible stroke length.

Transfer order code

# Standard cylinders AEN, ISO 21 287

Ordering data – Modular products



0 Options				
Direction of effect	Male thread extended	Special thread	Piston rod extended	Captive rating plate
Z	...K2	...K5	...K8	TL
-	<b>25K2</b>	-	<b>4K8</b>	- <b>TL</b>

Ordering table								
Size	40	50	63	80	100	Condi- tions	Code	Enter code
<b>M</b> Module No.	<b>536 419</b>	<b>536 420</b>	<b>536 421</b>	<b>536 422</b>	<b>536 423</b>			
Function	Standard cylinder, single-acting, based on DIN ISO 21 287						<b>AEN</b>	AEN
Piston Ø [mm]	40	50	63	80	100		-...	
Stroke [mm]	1 ... 25						-...	
Type of thread	Piston rod with male thread						<b>-A</b>	
	Female piston rod thread						<b>-I</b>	
Cushioning	Flexible cushioning rings/plates at both ends						<b>-P</b>	-P
Position sensing	For proximity sensors						<b>-A</b>	-A
<b>0</b> Direction of effect	Single-acting, pulling						<b>-Z</b>	
Male thread extended [mm]	1 ... 20			1 ... 30			<b>-...K2</b>	
Special piston rod thread	M10	M12	M12	M16	M16	<b>1</b>	<b>-...K5</b>	
	M12	M16	M16	M20	M20			
	M6	M8	M8	M10	M20x1.5	<b>2</b>		
Piston rod extended [mm]	1 ... 25					<b>3</b>	<b>-...K8</b>	
Captive rating plate	Lasered rating plate						<b>-TL</b>	

**1** **K5** Only with thread type A (piston rod with male thread).  
**2** **K5** Only with thread type I (piston rod with female thread).

**3** **K8** The sum of the stroke length and piston rod extension must not exceed the maximum permissible stroke length.

Transfer order code

-  -  -  -

# Standard cylinders ADN/AEN, ISO 21 287

Accessories



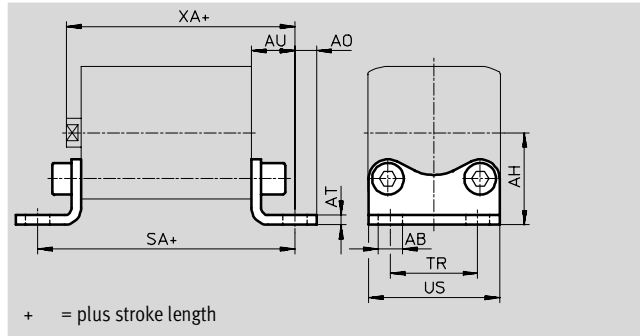
## Foot mounting HNA

Material:











HNA: Galvanised steel

HNA-...-R3: Steel with protective coating

Free of copper, PTFE and silicone



Dimensions and ordering data									
For Ø	AB Ø H14	AH JS14	AO	AT ±0.5	AU ±0.2	SA	TR ±0.2	US -0.5	XA
12	5.8	21	5	3	13	61	16	26	53
16		22	4.75				18	27.5	
20	7	27	6.25	4	16	69	22	34.5	59
25		29				71	26	38.5	61
32		33.5				7	76	32	46
40	10	38	9	5	18	81	36	54	69
50		45	8		21	87	45	64	74
63		50	91		50	75	78		
80	12	63	10.5	6	26	106	63	63	89
100	14.5	74	12.5		27	121	75	110	103

Dimensions and ordering data									
For Ø	Basic version				Variant R3 – High corrosion protection				
	CRC <sup>1)</sup>	Weight [g]	Part No.	Type	CRC <sup>1)</sup>	Weight [g]	Part No.	Type	
12	2	25	537 237	HNA-12	3	25	537 252	HNA-12-R3	
16	2	30	537 238	HNA-16	3	30	537 253	HNA-16-R3	
20	2	50	537 239	HNA-20	3	50	537 254	HNA-20-R3	
25	2	55	537 240	HNA-25	3	55	537 255	HNA-25-R3	
32	2	70	537 241	HNA-32	3	70	537 256	HNA-32-R3	
40	2	90	537 242	HNA-40	3	90	537 257	HNA-40-R3	
50	2	160	537 243	HNA-50	3	160	537 258	HNA-50-R3	
63	2	180	537 244	HNA-63	3	180	537 259	HNA-63-R3	
80	2	380	537 249	HNA-80	3	380	537 260	HNA-80-R3	
100	2	470	537 250	HNA-100	3	470	537 261	HNA-100-R3	

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 normal industrial environment or media such as coolants or lubricating agents.

Corrosion resistance class 3 according to Festo standard 940 070

Components requiring higher corrosion resistance. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

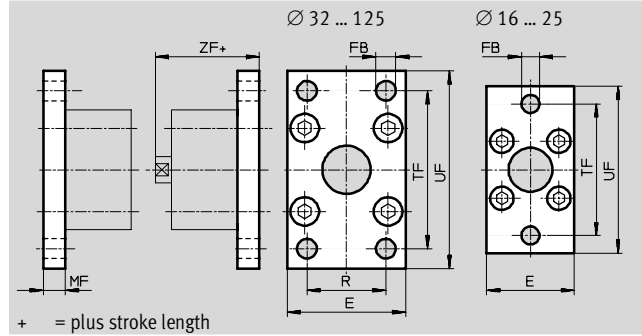
## Standard cylinders ADN/AEN, ISO 21 287

Accessories

**FESTO**

### Flange mounting FNC

Material:  
Galvanised steel  
Free of copper, PTFE and silicone



Dimensions and ordering data											
For $\varnothing$	E	FB $\varnothing$	MF	R	TF	UF $\pm 1$	ZF	CRC <sup>1)</sup>	Weight [g]	Part No.	Type
12	28	5.5	8	-	40	50	43	2	-	537 245	FNC-12
16	29				43	55					
20	36	6.6			55	70	45	2	-	537 247	FNC-20
25	40				60	76	47	2	-	537 248	FNC-25
32	45	7	10	32	64	80	54	2	240	174 376	FNC-32
40	54	9		36	72	90	55	2	280	174 377	FNC-40
50	65		12	45	90	110	57	2	520	174 378	FNC-50
63	75			50	100	120	61	2	690	174 379	FNC-63
80	93	12	16	63	126	15	70	2	1,650	174 380	FNC-80
100	110	14		75	150	175	83	2	2,400	174 381	FNC-100
125	132	16		90	180	210	101	2	3,750	174 382	FNC-125

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 normal industrial environment or media such as coolants or lubricating agents.

## Standard cylinders ADN/AEN, ISO 21 287

Accessories

**FESTO**

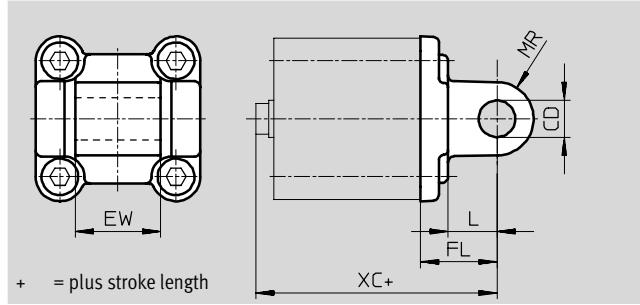
### Swivel flange SNCL

Material:

SNCL: Wrought aluminium alloy

SNCL-...-R3: Wrought aluminium alloy,  
coated

Free of copper, PTFE and silicone



Dimensions and ordering data						
For $\varnothing$	CD $\varnothing$ E10	EW h14	FL $\pm 0.2$	L	MR	XC
12	6	12	16	10	6	56
16						
20	8	16	20	14	8	63
25						65
32	10	26	22	13	10	72
40						76
50	12	28	25	16	12	80
63		32	27			89
80	16	40	32	21	16	99
100		50	36			22
125	20	60	41	27	20	142
	25	70	50	30		

Dimensions and ordering data								
For $\varnothing$	Basic version				Variant R3 – High corrosion protection			
	CRC <sup>1)</sup>	Weight [g]	Part No.	Type	CRC <sup>1)</sup>	Weight [g]	Part No.	Type
12	2	20	537 790	SNCL-12	3	20	537 794	SNCL-12-R3
16	2	25	537 791	SNCL-16	3	25	537 795	SNCL-16-R3
20	2	40	537 792	SNCL-20	3	40	537 796	SNCL-20-R3
25	2	45	537 793	SNCL-25	3	45	537 797	SNCL-25-R3
32	2	85	174 404	SNCL-32	–	–	–	–
40	2	115	174 405	SNCL-40	–	–	–	–
50	2	180	174 406	SNCL-50	–	–	–	–
63	2	270	174 407	SNCL-63	–	–	–	–
80	2	480	174 408	SNCL-80	–	–	–	–
100	2	700	174 409	SNCL-100	–	–	–	–
125	2	1,300	174 410	SNCL-125	–	–	–	–

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 normal industrial environment or media such as coolants or lubricating agents.

Corrosion resistance class 3 according to Festo standard 940 070

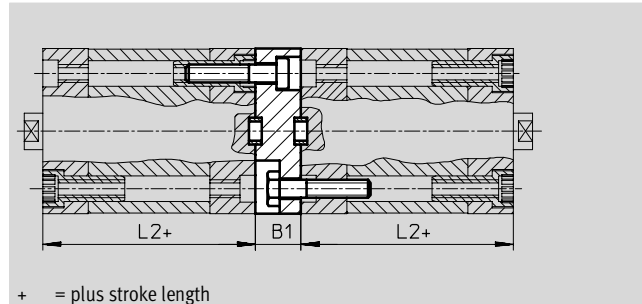
Components requiring higher corrosion resistance. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

## Standard cylinders ADN/AEN, ISO 21 287

Accessories

### Adapter kit DPNA

Material:  
Flange: Aluminium  
Screws: Galvanised steel  
Free of copper, PTFE and silicone



Dimensions and ordering data						
For $\varnothing$	L2	B1	Max. overall stroke length [mm]	CRC <sup>1)</sup>	Part No.	Type
12	35	13	600	2	<b>537 263</b>	<b>DPNA-12</b>
16			600	2	<b>537 264</b>	<b>DPNA-16</b>
20			600	2	<b>537 265</b>	<b>DPNA-20</b>
25			600	2	<b>537 266</b>	<b>DPNA-25</b>
32			800	2	<b>537 267</b>	<b>DPNA-32</b>
40	45	15	800	2	<b>537 268</b>	<b>DPNA-40</b>
50			800	2	<b>537 269</b>	<b>DPNA-50</b>
63			800	2	<b>537 270</b>	<b>DPNA-63</b>
80	54	17	1,000	2	<b>537 271</b>	<b>DPNA-80</b>
100	67	19.5	1,000	2	<b>537 272</b>	<b>DPNA-100</b>

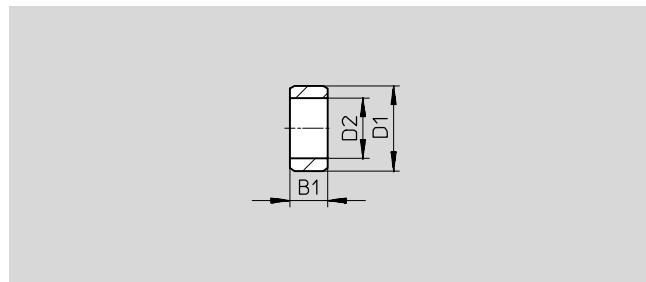
- Note

The maximum overall stroke length may not be exceeded when combining cylinders using the adapter kit.

- 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 normal industrial environment or media such as coolants or lubricating agents.

### Centring sleeves ZBH

Material:  
High-alloy steel



Dimensions and ordering data								
For $\varnothing$	B1	D1	D2	CRC <sup>1)</sup>	Weight	Part No.	Type	PU <sup>2)</sup>
	-0.2	$\varnothing$ h7	$\varnothing$		[g]			
12, 16, 20, 25, 32, 40	4	9	6.4	2	1	<b>150 927</b>	<b>ZBH-9</b>	<b>10</b>
50, 63, 80, 100, 125	5	12	10.3	2	1	<b>189 653</b>	<b>ZBH-12</b>	<b>10</b>

- 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 normal industrial environment or media such as coolants or lubricating agents.
- 2) Packaging unit quantity.

Core Range

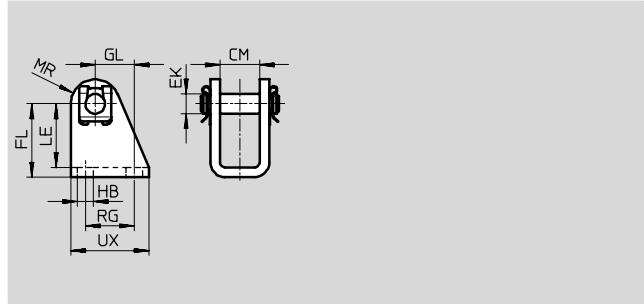
# Standard cylinders ADN/AEN, ISO 21 287

Accessories



## Clevis foot LBN

Material:  
Galvanised steel  
Free of copper, PTFE and silicone

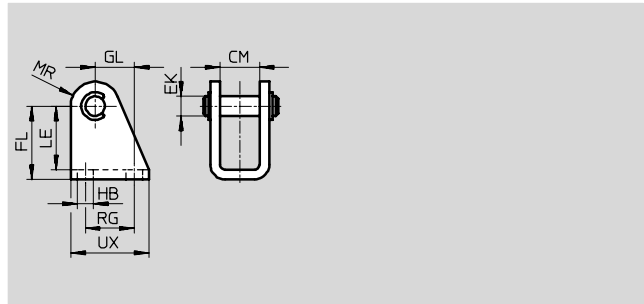


Dimensions and ordering data													
For Ø	CM	EK	FL	GL	HB	LE	MR	RG	UX	CRC <sup>1)</sup>	Weight	Part No.	Type
[mm]		Ø			Ø						[g]		
8/10	8.1	4	24 +0.3/-0.2	13.8	4.5	21.5	5	12.5	20	2	22	<b>6 057</b>	<b>LBN-8/10</b>
12/16	12.1	6	27 +0.3/-0.2	13	5.5	24	7	15	25	2	40	<b>6 058</b>	<b>LBN-12/16</b>
20/25	16.1	8	30 +0.4/-0.2	16	6.6	26	10	20	32	2	81	<b>6 059</b>	<b>LBN-20/25</b>
32	16.1	10	35 +0.4/-0.2	18.5	6.6	31	11	24	35	2	109	<b>195 860</b>	<b>LBN-32</b>
40	18.1	12	40 +0.4/-0.2	24.5	9	35	13	30	45	2	192	<b>195 861</b>	<b>LBN-40</b>
50/63	21.1	16	45 +0.5/-0.2	28	9	39	14	34	50	2	302	<b>195 862</b>	<b>LBN-50/63</b>

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.

## Clevis foot CRLBN, stainless steel

Material:  
High-alloy steel  
Free of copper, PTFE and silicone



Dimensions and ordering data													
For Ø	CM	EK	FL	GL	HB	LE	MR	RG	UX	CRC <sup>1)</sup>	Weight	Part No.	Type
[mm]		Ø									[g]		
12/16	12.1	6	27 +0.3/-0.2	13	5.5	24	7	15	25	4	55	<b>161 862</b>	<b>CRLBN-12/16</b>
20/25	16.1	8	30 +0.4/-0.2	16	6.6	26	10	20	32	4	62	<b>161 863</b>	<b>CRLBN-20/25</b>
32	16.1	10	35 +0.4/-0.2	18.5	6.6	31	11	24	35	4	107	<b>195 866</b>	<b>CRLBN-32</b>
40	18.1	12	40 +0.4/-0.2	24.5	9	35	13	30	45	4	184	<b>195 867</b>	<b>CRLBN-40</b>
50/63	21.1	16	45 +0.5/-0.2	28	9	39	14	34	50	4	289	<b>195 868</b>	<b>CRLBN-50/63</b>

1) Corrosion resistance class 4 according to Festo standard 940 070  
Components requiring higher corrosion resistance. Parts used with aggressive media, e.g. food or chemical industry. These applications should be supported with special tests with the media if required.

Core Range

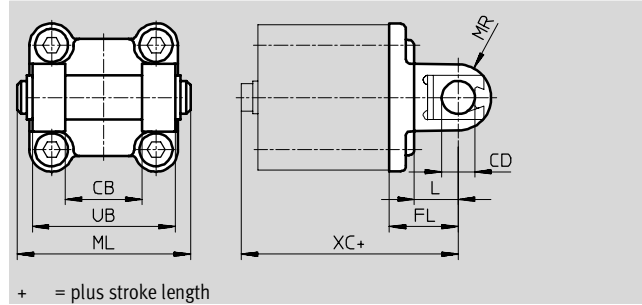


# Standard cylinders ADN/AEN, ISO 21 287

Accessories

**Swivel flange  
SNCB/SNCB-...-R3**

Material:  
 SNCB: Wrought aluminium alloy  
 SNCB-...-R3: Wrought aluminium alloy,  
 silver protective coating, high  
 corrosion protection  
 Free of copper, PTFE and silicone



Dimensions and ordering data								
For Ø	CB	CD	FL	L	ML	MR	UB	XC
	H14	∅ e8	±0.2				h14	
32	26	10	22	13	55	10	45	72
40	28	12	25	16	63	12	52	76
50	32	12	27	16	71	12	60	80
63	40	16	32	21	83	16	70	89
80	50	16	36	22	103	16	90	99
100	60	20	41	27	127	20	110	117
125	70	25	50	30	131	25	130	142

Dimensions and ordering data								
For Ø	Basic version				Variant R3 – High corrosion protection			
	CRC <sup>1)</sup>	Weight [g]	Part No.	Type	CRC <sup>1)</sup>	Weight [g]	Part No.	Type
32	2	100	<b>174 390</b>	<b>SNCB-32</b>	3	100	<b>176 944</b>	<b>SNCB-32-R3</b>
40	2	150	<b>174 391</b>	<b>SNCB-40</b>	3	150	<b>176 945</b>	<b>SNCB-40-R3</b>
50	2	225	<b>174 392</b>	<b>SNCB-50</b>	3	225	<b>176 946</b>	<b>SNCB-50-R3</b>
63	2	365	<b>174 393</b>	<b>SNCB-63</b>	3	365	<b>176 947</b>	<b>SNCB-63-R3</b>
80	2	610	<b>174 394</b>	<b>SNCB-80</b>	3	610	<b>176 948</b>	<b>SNCB-80-R3</b>
100	2	925	<b>174 395</b>	<b>SNCB-100</b>	3	925	<b>176 949</b>	<b>SNCB-100-R3</b>
125	2	1,785	<b>174 396</b>	<b>SNCB-125</b>	3	1,785	<b>176 950</b>	<b>SNCB-125-R3</b>

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 normal industrial environment or media such as coolants or lubricating agents.  
 Corrosion resistance class 3 according to Festo standard 940 070  
 Components requiring higher corrosion resistance. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

 Core Range





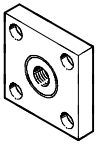
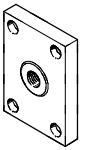

# Standard cylinders ADN/AEN, ISO 21 287

Accessories

FESTO

ISO standard cylinders  
ISO 21 287

1.4

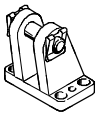
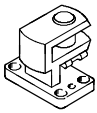
Ordering data – Piston rod attachments				Technical data → 1 / 10.3-2			
Designation	For Ø	Part No.	Type	Designation	For Ø	Part No.	Type
<b>Rod eye SGS</b>				<b>Rod clevis SGA for rod eye SGS</b>			
	12	–	–		12	–	–
	16	9 254	SGS-M6		16	–	–
	20	9 255	SGS-M8		20	–	–
	25	–	–		25	–	–
	32	9 261	SGS-M10x1,25		32	32 954	SGA-M10x1,25
	40	–	–		40	–	–
	50	9 262	SGS-M12x1,25		50	10 767	SGA-M12x1,25
	63	–	–		63	–	–
	80	9 263	SGS-M16x1,5		80	10 768	SGA-M16x1,25
	100	–	–		100	–	–
	125	9 264	SGS-M20x1,5		125	10 769	SGA-M20x1,25
<b>Rod clevis SG</b>				<b>Self-aligning rod coupler FK</b>			
	12	–	–		12	30 984	FK-M5
	16	3 110	SG-M6		16	2 061	FK-M6
	20	3 111	SG-M8		20	2 062	FK-M8
	25	–	–		25	–	–
	32	6 144	SG-M10x1,25		32	6 140	FK-M10x1,25
	40	–	–		40	–	–
	50	6 145	SG-M12x1,25		50	6 141	FK-M12x1,25
	63	–	–		63	–	–
	80	6 146	SG-M16x1,5		80	6 142	FK-M16x1,5
	100	–	–		100	–	–
	125	6 147	SG-M20x1,5		125	6 143	FK-M20x1,5
<b>Coupling piece KSG</b>				<b>Coupling piece KSZ</b>			
	12	–	–		12	–	–
	16	–	–		16	36 123	KSZ-M6
	20	–	–		20	36 124	KSZ-M8
	25	–	–		25	–	–
	32	32 963	KSG-M10x1,25		32	36 125	KSZ-M10x1,25
	40	–	–		40	–	–
	50	32 964	KSG-M12x1,25		50	36 126	KSZ-M12x1,25
	63	–	–		63	–	–
	80	32 965	KSG-M16x1,5		80	36 127	KSZ-M16x1,5
	100	–	–		100	–	–
	125	32 966	KSG-M20x1,5		125	36 128	KSZ-M20x1,5
<b>Adapters AD</b>							
	12	–	–				
	16	157 328	AD-M6-M5				
		157 329	AD-M6-1/8				
		157 330	AD-M6-1/4				
	20	157 331	AD-M8-1/8				
	25	157 332	AD-M8-1/4				
	32	157 333	AD-M10x1,25-1/8				
	40	157 334	AD-M10x1,25-1/4				
	50	160 256	AD-M12x1,25-1/4				
	63	160 257	AD-M12x1,25-3/8				



 Core Range



# Standard cylinders ADN/AEN, ISO 21 287

Accessories

FESTO

Ordering data – Mounting attachments				Technical data → 1 / 10.1-2			
Designation	For Ø	Part No.	Type	Designation	For Ø	Part No.	Type
<b>Clevis foot LBG for rod eye SGS</b>				<b>Right-angle clevis foot LQG for rod eye SGS</b>			
	32, 40	<b>31 761</b>	<b>LBG-32</b>		32, 40	<b>31 768</b>	<b>LQG-32</b>
	50, 63	<b>31 762</b>	<b>LBG-40</b>		50, 63	<b>31 769</b>	<b>LQG-40</b>
	80, 100	<b>31 763</b>	<b>LBG-50</b>		80, 100	<b>31 770</b>	<b>LQG-50</b>
		<b>31 764</b>	<b>LBG-63</b>			<b>31 771</b>	<b>LQG-63</b>
	125	<b>31 765</b>	<b>LBG-80</b>		125	<b>31 772</b>	<b>LQG-80</b>
		<b>31 766</b>	<b>LBG-100</b>			<b>31 773</b>	<b>LQG-100</b>

Ordering data – Corrosion and acid resistant piston rod attachments				Technical data → 1 / 10.3-2			
Designation	For Ø	Part No.	Type	Designation	For Ø	Part No.	Type
<b>Rod eye CRSGS</b>				<b>Rod clevis CRSG</b>			
	12	–	–		12	–	–
	16	<b>195 580</b>	<b>CRSGS-M6</b>		16	<b>13 567</b>	<b>CRSG-M6</b>
	20	<b>195 581</b>	<b>CRSGS-M8</b>		20	<b>13 568</b>	<b>CRSG-M8</b>
	25				25		
	32	<b>195 582</b>	<b>CRSGS-M10x1,25</b>		32	<b>13 569</b>	<b>CRSG-M10x1,25</b>
	40				40		
	50	<b>195 583</b>	<b>CRSGS-M12x1,25</b>		50	<b>13 570</b>	<b>CRSG-M12x1,25</b>
	63				63		
	80	<b>195 584</b>	<b>CRSGS-M16x1,5</b>		80	<b>13 571</b>	<b>CRSG-M16x1,5</b>
	100				100		
125	<b>195 585</b>	<b>CRSGS-M20x1,5</b>	125	<b>13 572</b>	<b>CRSG-M20x1,5</b>		

Ordering data – One-way flow control valves				Technical data → Volume 2			
	Connection		Material	Part No.	Type		
	For Ø	For tubing O.D.					
<b>For exhaust air</b>							
	12	3	Metal design	<b>193 137</b>	<b>GRLA-M5-QS-3-D</b>		
	16	4		<b>193 138</b>	<b>GRLA-M5-QS-4-D</b>		
	20	6		<b>193 139</b>	<b>GRLA-M5-QS-6-D</b>		
	25	3		<b>193 142</b>	<b>GRLA-1/8-QS-3-D</b>		
	32, 40, 50, 63, 80, 100	4		<b>193 143</b>	<b>GRLA-1/8-QS-4-D</b>		
		6		<b>193 144</b>	<b>GRLA-1/8-QS-6-D</b>		
		8		<b>193 145</b>	<b>GRLA-1/8-QS-8-D</b>		
		6		<b>193 146</b>	<b>GRLA-1/4-QS-6-D</b>		
	125	8		<b>193 147</b>	<b>GRLA-1/4-QS-8-D</b>		
		10		<b>193 148</b>	<b>GRLA-1/4-QS-10-D</b>		
<b>For supply air</b>							
	12, 16, 20, 25	3	Metal design	<b>193 153</b>	<b>GRLZ-M5-QS-3-D</b>		
		4		<b>193 154</b>	<b>GRLZ-M5-QS-4-D</b>		
		6		<b>193 155</b>	<b>GRLZ-M5-QS-6-D</b>		
	32, 40, 50, 63, 80, 100	3		<b>193 156</b>	<b>GRLZ-1/8-QS-3-D</b>		
		4		<b>193 157</b>	<b>GRLZ-1/8-QS-4-D</b>		
		6		<b>193 158</b>	<b>GRLZ-1/8-QS-6-D</b>		
		8		<b>193 159</b>	<b>GRLZ-1/8-QS-8-D</b>		
		–		<b>151 195</b>	<b>GRLZ-1/4-B</b>		
125	–						











ISO standard cylinders  
ISO 21 287







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


# Standard cylinders ADN/AEN, ISO 21 287

Accessories

FESTO

Ordering data – Proximity sensor for slot type 8, magneto-resistive							Technical data → 1 / 10.2-13		
	Mounting	Switch output	Electrical connection			Cable length [m]	Part No.	Type	
			Cable	M8 plug	M12 plug				
<b>NO contact</b>									
	Insertable from above	PNP	3-wire	–	–	2.5	525 898	SMT-8F-PS-24V-K2,5-OE	
		NPN		–	–		525 909	SMT-8F-NS-24V-K2,5-OE	
		–	2-wire	–	–	2.5	525 908	SMT-8F-ZS-24V-K2,5-OE	
		PNP	–	3-pin	–	0.3	525 899	SMT-8F-PS-24V-K0,3-M8D	
		NPN			–		525 910	SMT-8F-NS-24V-K0,3-M8D	
PNP	–	–	3-pin	0.3	525 900	SMT-8F-PS-24V-K0,3-M12			
	Insertable from end, flush with the cylinder profile	PNP	3-wire	–	–	2.5	175 436	SMT-8-PS-K-LED-24-B	
		–	–	3-pin	–		0.3	175 484	SMT-8-PS-S-LED-24-B
<b>NC contact</b>									
	Insertable from above	PNP	3-wire	–	–	7.5	525 911	SMT-8F-PO-24V-K7,5-OE	

Ordering data – Proximity sensor for slot type 8, magnetic reed						Technical data → 1 / 10.2-16		
	Mounting	Electrical connection		Cable length [m]	Part No.	Type		
		Cable	M8 plug					
<b>NO contact</b>								
	Insertable from above	3-wire		–	2.5	525 895	SME-8F-DS-24V-K2,5-OE	
		2-wire		–		5.0	525 897	SME-8F-DS-24V-K5,0-OE
		–	–	3-pin	0.3	525 907	SME-8F-ZS-24V-K2,5-OE	
	Insertable from end, flush with the cylinder profile	3-wire		–	2.5	150 855	SME-8-K-LED-24	
		–	–	3-pin		0.3	150 857	SME-8-S-LED-24
<b>NC contact</b>								
	Insertable from above	3-wire		–	7.5	525 906	SME-8F-DO-24V-K7,5-OE	

Ordering data – Plug sockets						Technical data → 1 / 10.2-100	
	Mounting	Switch output		Connection	Cable length [m]	Part No.	Type
		PNP	NPN				
<b>Straight plug socket</b>							
	Union nut M8	■	■	3-pin	2.5	159 420	SIM-M8-3GD-2,5-PU
		■	■		5	159 421	SIM-M8-3GD-5-PU
	Union nut M12	■	■	3-pin	2.5	159 428	SIM-M12-3GD-2,5-PU
		■	■		5	159 429	SIM-M12-3GD-5-PU
<b>Angled plug socket</b>							
	Union nut M8	■	■	3-pin	2.5	159 422	SIM-M8-3WD-2,5-PU
		■	■		5	159 423	SIM-M8-3WD-5-PU
	Union nut M12	■	■	3-pin	2.5	159 430	SIM-M12-3WD-2,5-PU
		■	■		5	159 431	SIM-M12-3WD-5-PU

Ordering data – Slot cover for slot type 8			
	Mounting	Length [m]	Part No. Type
	Insertable from above	2x 0.5	151 680 ABP-5-S

 Core Range