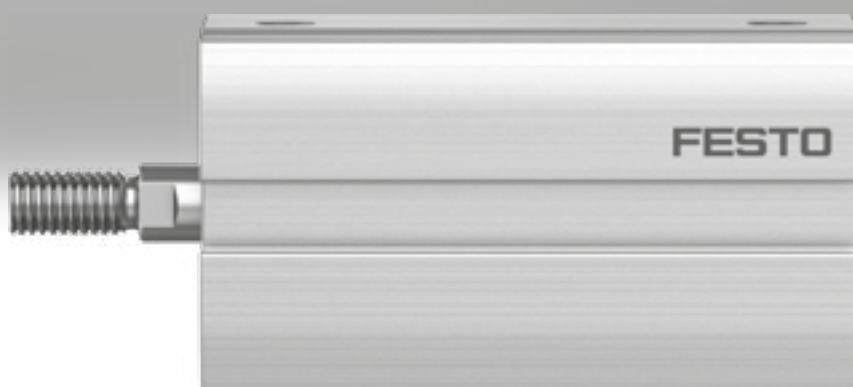


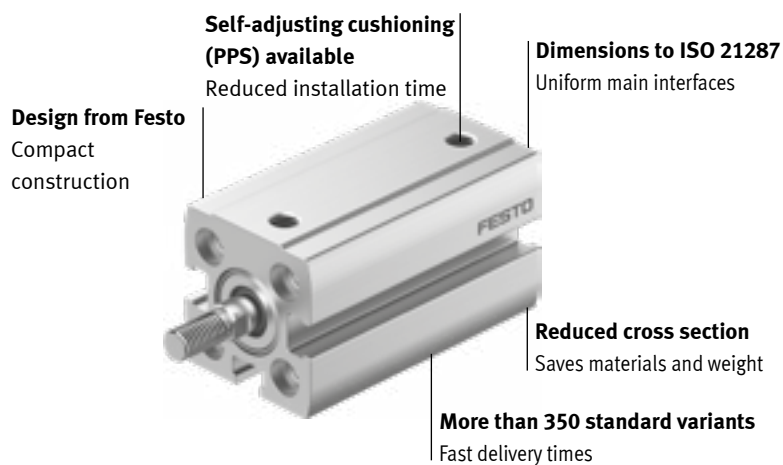
Compact cylinders ADN-C, ISO 21287

FESTO



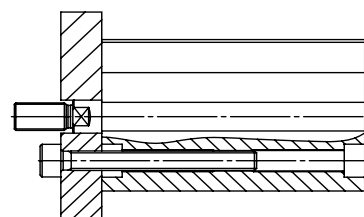
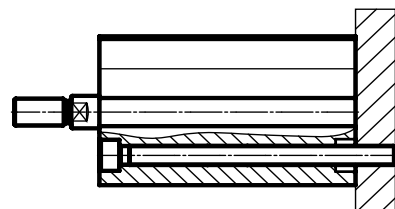
Key features

At a glance

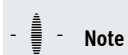
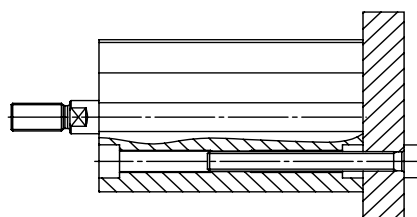
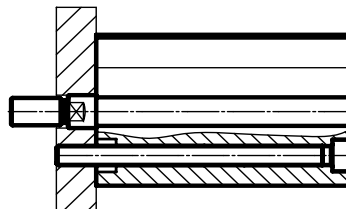


Mounting options

From the front



From the rear



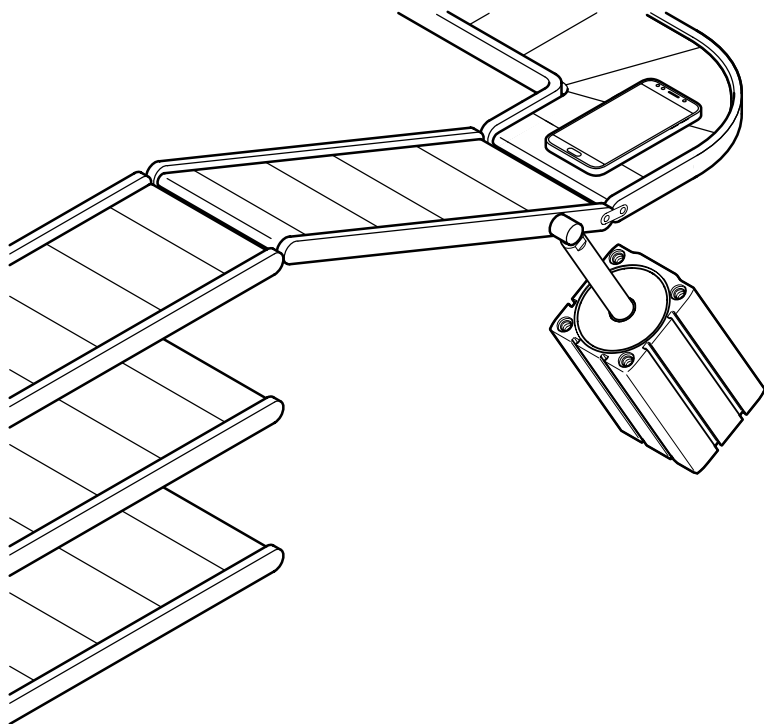
Note

Diameter 12 ... 80 mm: hole pattern conforms to ISO 21287

Key features

Application example

Moving conveyors



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	

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	

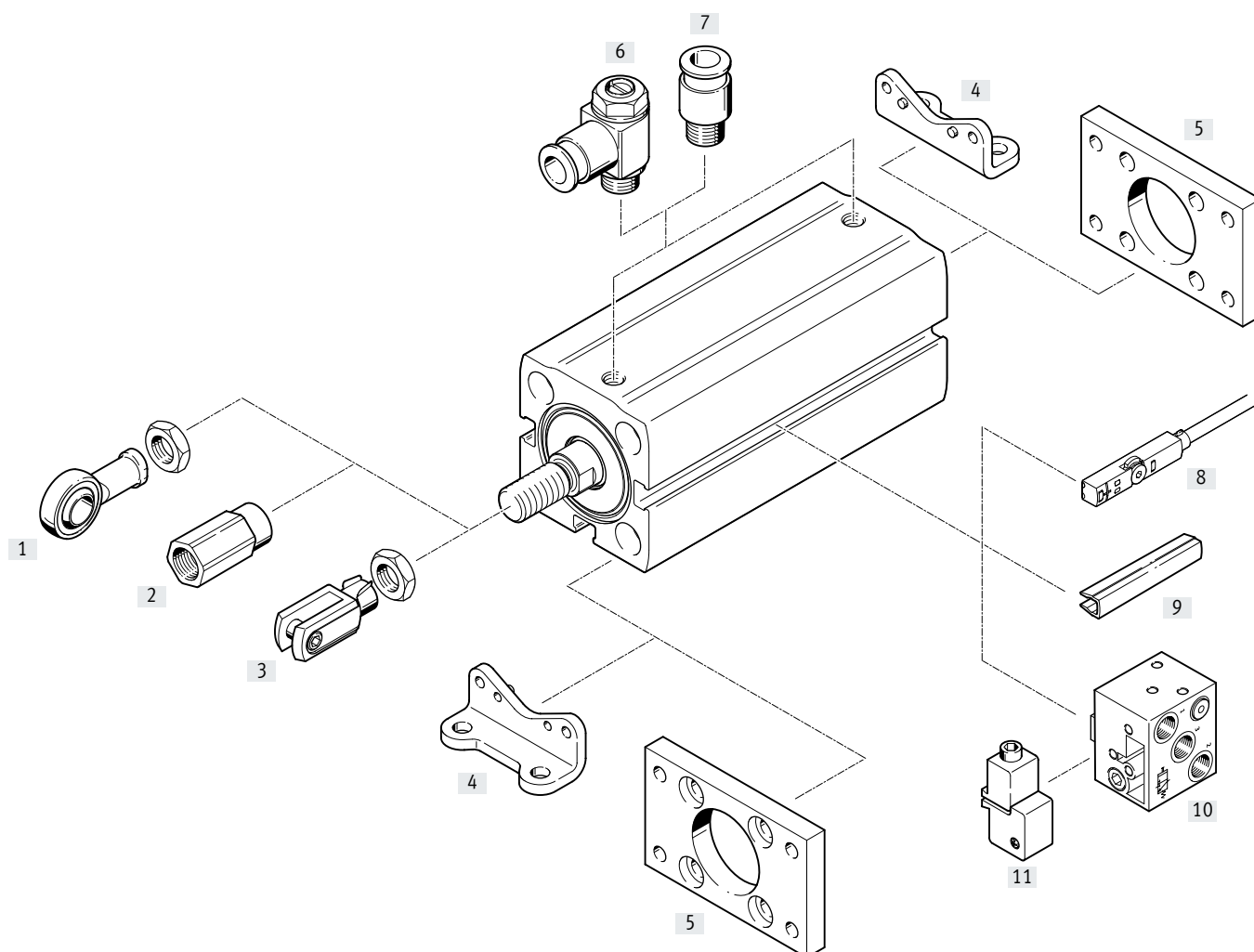
004	Piston rod thread type	
A	Male thread	
I	Female thread	

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	Generation	
C	C series	

Peripherals overview

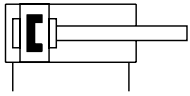


Accessories			
Type/order code	Description	→ Page/Internet	
[1] Rod eye SGS/CRSGS	With spherical bearing	15	
[2] Adapter AD	For mounting a suction cup on a hollow piston rod	15	
[3] Rod clevis SG/CRSG	Permits a swivelling movement of the cylinder in one plane	15	
[4] Foot mounting HNA	For bearing or end caps	16	
[5] Flange mounting FNC	For bearing or end caps	17	
[6] One-way flow control valve GRLA/GRLZ	For regulating speed	18	
[7] Push-in fitting QS	For connecting compressed air tubing with standard O.D.	qs	
[8] Proximity sensor SMT-8M/CRSMT-8M SDBT-MS	Can be integrated in the cylinder profile barrel	18	
Position transmitter SDAS-MHS/SDAT-MHS SMAT-8M		19	
[9] Slot cover ABP-5	For protecting the sensor cables and the sensor slots from contamination	19	
[10] Proximity sensor SMPO-8E	Pneumatic output signal	19	
[11] Mounting kit SMB-8E	For proximity sensor SMPO-8E	19	

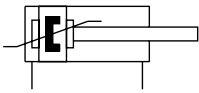
Data sheet

Function

ADN-...-P-A-C

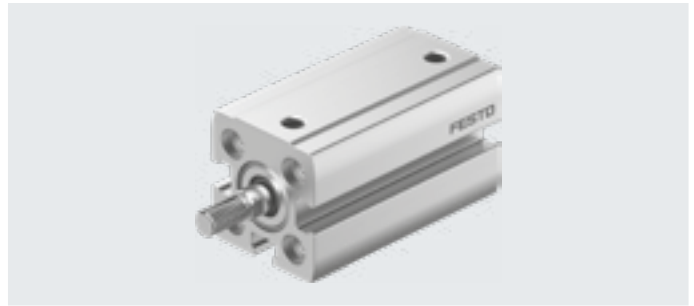


ADN-...-PPS-A-C



 - Diameter
 12 ... 80 mm

 - Stroke length
 5 ... 80 mm



General technical data

Piston diameter	12	16	20	25	32	40	50	63	80	
Design	Piston									
	Piston rod									
Mode of operation	Double-acting									
Pneumatic connection	M5					G1/8				
Piston rod end	Male thread									
	Female thread									
Piston rod thread										
[A] Male thread	M5	M6	M8	M8	M10x1.25	M10x1.25	M12x1.25	M12x1.25	M16x1.5	
[I] Female thread	M3	M4	M6	M6	M8	M8	M10	M10	M12	
Stroke										
[P]	[mm]	5 ... 60	5 ... 70		5 ... 80			10 ... 80		
[PPS]	[mm]	–		10 ... 70	10 ... 80					
Cushioning										
[P]	Elastic cushioning rings/plates at both ends									
[PPS]	–			Self-adjusting pneumatic end-position cushioning						
Cushioning length										
[PPS]	[mm]	–		3	3.5	4	5	6	7	7.5
Position sensing	For proximity sensor									
Type of mounting	Via through-hole									
	Via female thread									
	Via accessories									
Mounting position	Any									

Operating and environmental conditions

Piston diameter	12	16	20	25	32	40	50	63	80
Conforms to standard	ISO 21287								
Operating pressure									
[P] [bar]	1 ... 10	0.6 ... 10		0.6 ... 10			0.4 ... 10		
[PPS] [bar]	–		1.5 ... 10				1 ... 10		
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]								
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)								
Ambient temperature ¹⁾ [°C]	–20 ... +80								
Corrosion resistance class CRC ²⁾	2								

1) Note operating range of proximity sensors

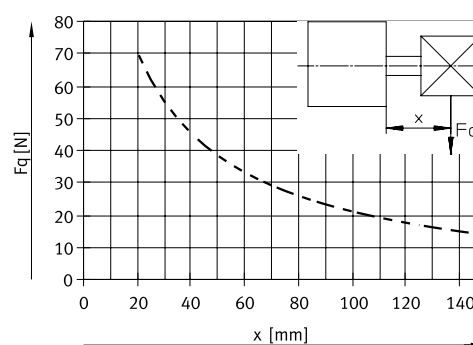
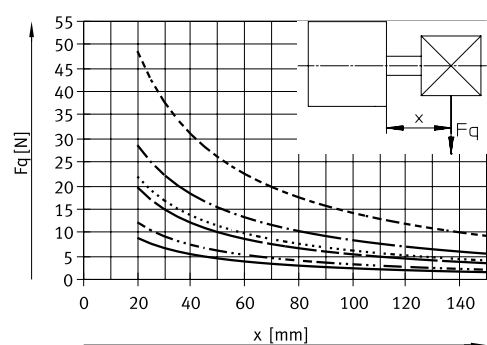
2) Corrosion resistance class CRC 2 to Festo standard FN 940070

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.

Data sheet

Forces [N] and impact energy [J]									
Piston diameter	12	16	20	25	32	40	50	63	80
Theoretical force at 6 bar, advancing	68	121	188	295	483	754	1178	1870	3016
Theoretical force at 6 bar, retracting	51	90	141	247	415	686	1057	1750	2827
Max. impact energy at the end positions									
[P]	0.07	0.15	0.2	0.3	0.4	0.7	1	1.3	1.8
[PPS]	–		0.65	0.8	1	1.7	2.8	4.8	8

Weight [g]									
Piston diameter	12	16	20	25	32	40	50	63	80
Product weight with 0 mm stroke	58	72	110	142	224	322	464	714	1210
Additional weight per 10 mm stroke	15	18	26	30	36	45	63	77	114
Moving mass with 0 mm stroke	9	15	25	32	58	85	133	190	339
Additional mass per 10 mm stroke	2	4	6	6	9	9	16	16	24

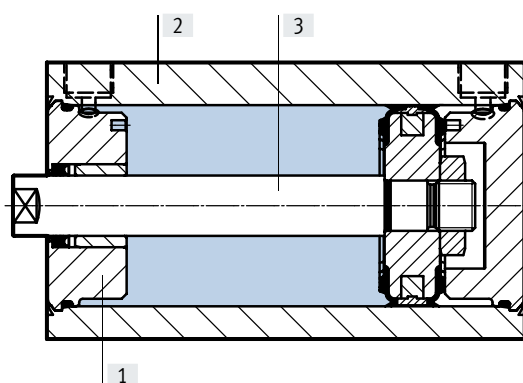
Max. transverse load F_q as a function of projection x 

- Ø 12
- · - · - · Ø 16
- - - - - Ø 20
- · · · · Ø 25
- · - · - · Ø 32/40
- - - - - Ø 50/63

- - - - - Ø 80

Materials

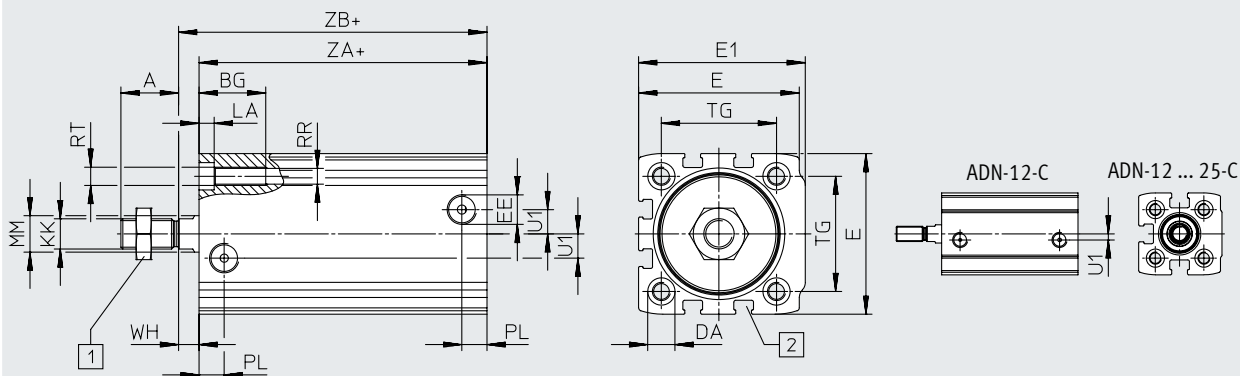
Sectional view



Compact cylinder	
[1] Cover	Anodised wrought aluminium alloy
[2] Cylinder barrel	Smooth-anodised wrought aluminium alloy
[3] Piston rod	High-alloy steel
– Seals	TPE-U(PUR)
Note on materials	RoHS-compliant

Data sheet

Dimensions

Download CAD data → www.festo.com

+ = plus stroke length

[1] Hex nut DIN 439-B only from diameter 32 upwards

[2] T-slot for proximity sensor

∅	A	BG	DA ∅ F9	E	E1	EE	KK	LA ±0.1	MM ∅ h8
[mm]	-0.5	min.							
12	10	19	6	27 _{±0.15}	27.5 _{±0.15}	M5	M5	3.5	6
16	12	19	6	29 _{±0.15}	30 _{±0.15}	M5	M6	3.5	8
20	16	20	7.5	34.5 _{±0.15}	35.5 _{±0.15}	M5	M8	5	10
25	16	20	7.5	38.5 _{±0.15}	39.5 _{±0.15}	M5	M8	5	10
32	19	22	9	45 _{±0.15}	47 _{±0.15}	G1/8	M10x1.25	5	12
40	19	22	9	53 _{±0.15}	55 _{±0.15}	G1/8	M10x1.25	5	12
50	22	23	11	63 _{±0.2}	65 _{±0.2}	G1/8	M12x1.25	5	16
63	22	23	11	75 _{±0.2}	77.5 _{±0.2}	G1/8	M12x1.25	5	16
80	28	25	14	93 _{±0.25}	95.5 _{±0.25}	G1/8	M16x1.5	2.7	20

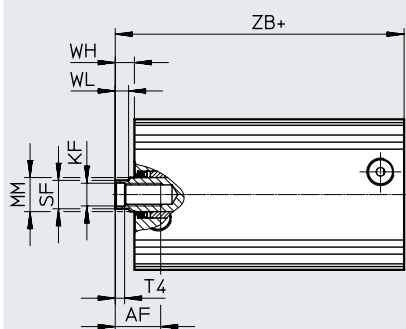
∅	PL	RR ∅	RT	TG	U1	WH		ZA	ZB	
[mm]	+0.2					[P] +1.3	[PPS] +1.4	±0.3	[P] +1.2	[PPS] +1.3
12	6	3.5	M4	16	2	4.2	–	35	39.2	–
16	6	3.5	M4	18	2.6	4.7	–	35	39.7	–
20	6	4.2	M5	22	2.6	5.5	5.5	37	42.5	42.5
25	6	4.2	M5	26	2.6	5.5	5.5	39	44.5	45.3
32	8.2	5.2	M6	32.5	6	6	6.5	44	50	50.6
40	8.2	5.2	M6	38	8	6.1	6.6	45	51.1	51.7
50	8.2	6.8	M8	46.5	8	7.7	8.2	45	52.7	53.2
63	9.5	6.8	M8	56.5	11.5	7.5	8	49	56.5	57
80	9.5	8.5	M10	72	11.5	8.9	9.4	54	62.9	63.4

Data sheet

Dimensions

Download CAD data → www.festo.com

With female thread



+ = plus stroke length

∅	AF	KF	MM ∅	SF	T4	WH		WL	ZB	
						[P] +1.3	[PPS] +1.4		[P] +1.2	[PPS] +1.3
[mm]	min.		h8	h13				-0.15		
12	8	M3	6	5	1.5	4.2	–	2.7	39.2	–
16	10	M4	8	7	1.5	4.7	–	3.7	39.7	–
20	14	M6	10	9	2.6	5.5	5.5	4.2	42.5	42.5
25	14	M6	10	9	2.6	5.5	5.5	4.2	44.5	45.3
32	16	M8	12	10	3.3	6	6.5	4.7	50	50.6
40	16	M8	12	10	3.3	6.1	6.6	4.7	51.1	51.7
50	20	M10	16	13	4.7	7.7	8.2	6.5	52.7	53.2
63	20	M10	16	13	4.7	7.5	8	6.5	56.5	57
80	20	M12	20	17	6.1	8.9	9.4	7	62.9	63.4

Ordering data

Ordering data			
Piston diameter	Stroke [mm]	P – Elastic cushioning rings/plates at both ends	
		Part no.	Type
12	A – Piston rod with male thread		
	5	8076023	ADN-12-5-A-P-A-C
	10	8076022	ADN-12-10-A-P-A-C
	15	8075934	ADN-12-15-A-P-A-C
	20	8075935	ADN-12-20-A-P-A-C
	25	8075936	ADN-12-25-A-P-A-C
	30	8075937	ADN-12-30-A-P-A-C
	35	8075938	ADN-12-35-A-P-A-C
	40	8075939	ADN-12-40-A-P-A-C
	50	8075940	ADN-12-50-A-P-A-C
	60	8075941	ADN-12-60-A-P-A-C
	I – Piston rod with female thread		
	5	8075942	ADN-12-5-I-P-A-C
	10	8075943	ADN-12-10-I-P-A-C
	15	8075944	ADN-12-15-I-P-A-C
	20	8075945	ADN-12-20-I-P-A-C
	25	8075946	ADN-12-25-I-P-A-C
	30	8075947	ADN-12-30-I-P-A-C
	35	8075948	ADN-12-35-I-P-A-C
	40	8075949	ADN-12-40-I-P-A-C
	50	8075950	ADN-12-50-I-P-A-C
	60	8075951	ADN-12-60-I-P-A-C
16	A – Piston rod with male thread		
	5	8076000	ADN-16-5-A-P-A-C
	10	8076001	ADN-16-10-A-P-A-C
	15	8076002	ADN-16-15-A-P-A-C
	20	8076003	ADN-16-20-A-P-A-C
	25	8076004	ADN-16-25-A-P-A-C
	30	8076005	ADN-16-30-A-P-A-C
	35	8076006	ADN-16-35-A-P-A-C
	40	8076007	ADN-16-40-A-P-A-C
	50	8076008	ADN-16-50-A-P-A-C
	60	8076009	ADN-16-60-A-P-A-C
	70	8076010	ADN-16-70-A-P-A-C
	I – Piston rod with female thread		
	5	8076011	ADN-16-5-I-P-A-C
	10	8076012	ADN-16-10-I-P-A-C
	15	8076013	ADN-16-15-I-P-A-C
	20	8076014	ADN-16-20-I-P-A-C
	25	8076015	ADN-16-25-I-P-A-C
	30	8076016	ADN-16-30-I-P-A-C
	35	8076017	ADN-16-35-I-P-A-C
	40	8076018	ADN-16-40-I-P-A-C
	50	8076019	ADN-16-50-I-P-A-C
	60	8076020	ADN-16-60-I-P-A-C
	70	8076021	ADN-16-70-I-P-A-C

Ordering data

Ordering data					
Piston diameter	Stroke [mm]	P – Elastic cushioning rings/plates at both ends		PPS – Pneumatic cushioning, self-adjusting at both ends	
		Part no.	Type	Part no.	Type
20	A – Piston rod with male thread				
	5	8076074	ADN-20-5-A-P-A-C	–	
	10	8076076	ADN-20-10-A-P-A-C	8076106	ADN-20-10-I-PPS-A-C
	15	8076075	ADN-20-15-A-P-A-C	8076107	ADN-20-15-I-PPS-A-C
	20	8076077	ADN-20-20-A-P-A-C	8076108	ADN-20-20-I-PPS-A-C
	25	8076078	ADN-20-25-A-P-A-C	8076109	ADN-20-25-I-PPS-A-C
	30	8076079	ADN-20-30-A-P-A-C	8076110	ADN-20-30-I-PPS-A-C
	35	8076080	ADN-20-35-A-P-A-C	8076111	ADN-20-35-I-PPS-A-C
	40	8076081	ADN-20-40-A-P-A-C	8076112	ADN-20-40-I-PPS-A-C
	50	8076082	ADN-20-50-A-P-A-C	8076113	ADN-20-50-I-PPS-A-C
	60	8076083	ADN-20-60-A-P-A-C	8076114	ADN-20-60-I-PPS-A-C
	70	8076084	ADN-20-70-A-P-A-C	8076115	ADN-20-70-I-PPS-A-C
	I – Piston rod with female thread				
	5	8076085	ADN-20-5-I-P-A-C	–	
	10	8076086	ADN-20-10-I-P-A-C	8076106	ADN-20-10-I-PPS-A-C
	15	8076087	ADN-20-15-I-P-A-C	8076107	ADN-20-15-I-PPS-A-C
	20	8076088	ADN-20-20-I-P-A-C	8076108	ADN-20-20-I-PPS-A-C
	25	8076089	ADN-20-25-I-P-A-C	8076109	ADN-20-25-I-PPS-A-C
	30	8076090	ADN-20-30-I-P-A-C	8076110	ADN-20-30-I-PPS-A-C
	35	8076091	ADN-20-35-I-P-A-C	8076111	ADN-20-35-I-PPS-A-C
	40	8076092	ADN-20-40-I-P-A-C	8076112	ADN-20-40-I-PPS-A-C
	50	8076093	ADN-20-50-I-P-A-C	8076113	ADN-20-50-I-PPS-A-C
	60	8076094	ADN-20-60-I-P-A-C	8076114	ADN-20-60-I-PPS-A-C
	70	8076095	ADN-20-70-I-P-A-C	8076115	ADN-20-70-I-PPS-A-C
25	A – Piston rod with male thread				
	5	8075643	ADN-25-5-A-P-A-C	–	
	10	8075642	ADN-25-10-A-P-A-C	8075735	ADN-25-10-A-PPS-A-C
	15	8075640	ADN-25-15-A-P-A-C	8075717	ADN-25-15-A-PPS-A-C
	20	8075639	ADN-25-20-A-P-A-C	8075730	ADN-25-20-A-PPS-A-C
	25	8075636	ADN-25-25-A-P-A-C	8075729	ADN-25-25-A-PPS-A-C
	30	8075638	ADN-25-30-A-P-A-C	8075716	ADN-25-30-A-PPS-A-C
	35	8075637	ADN-25-35-A-P-A-C	8075728	ADN-25-35-A-PPS-A-C
	40	8075635	ADN-25-40-A-P-A-C	8075718	ADN-25-40-A-PPS-A-C
	50	8075634	ADN-25-50-A-P-A-C	8075714	ADN-25-50-A-PPS-A-C
	60	8075633	ADN-25-60-A-P-A-C	8075738	ADN-25-60-A-PPS-A-C
	70	8075632	ADN-25-70-A-P-A-C	8075737	ADN-25-70-A-PPS-A-C
	80	8075641	ADN-25-80-A-P-A-C	8075731	ADN-25-80-A-PPS-A-C
	I – Piston rod with female thread				
	5	8075722	ADN-25-5-I-P-A-C	–	
	10	8075734	ADN-25-10-I-P-A-C	8075733	ADN-25-10-I-PPS-A-C
	15	8075732	ADN-25-15-I-P-A-C	8075709	ADN-25-15-I-PPS-A-C
	20	8075727	ADN-25-20-I-P-A-C	8075711	ADN-25-20-I-PPS-A-C
	25	8075725	ADN-25-25-I-P-A-C	8075713	ADN-25-25-I-PPS-A-C
	30	8075739	ADN-25-30-I-P-A-C	8075721	ADN-25-30-I-PPS-A-C
	35	8075712	ADN-25-35-I-P-A-C	8075720	ADN-25-35-I-PPS-A-C
	40	8075726	ADN-25-40-I-P-A-C	8075736	ADN-25-40-I-PPS-A-C
	50	8075742	ADN-25-50-I-P-A-C	8075719	ADN-25-50-I-PPS-A-C
	60	8075723	ADN-25-60-I-P-A-C	8075724	ADN-25-60-I-PPS-A-C
	70	8075710	ADN-25-70-I-P-A-C	8075715	ADN-25-70-I-PPS-A-C
	80	8075741	ADN-25-80-I-P-A-C	8075740	ADN-25-80-I-PPS-A-C

Ordering data

Ordering data					
Piston diameter	Stroke [mm]	P – Elastic cushioning rings/plates at both ends		PPS – Pneumatic cushioning, self-adjusting at both ends	
		Part no.	Type	Part no.	Type
32	A – Piston rod with male thread				
	5	8076047	ADN-32-5-A-P-A-C	–	
	10	8076060	ADN-32-10-A-P-A-C	8076037	ADN-32-10-A-PPS-A-C
	15	8076070	ADN-32-15-A-P-A-C	8076031	ADN-32-15-A-PPS-A-C
	20	8076043	ADN-32-20-A-P-A-C	8076054	ADN-32-20-A-PPS-A-C
	25	8076069	ADN-32-25-A-P-A-C	8076025	ADN-32-25-A-PPS-A-C
	30	8076057	ADN-32-30-A-P-A-C	8076029	ADN-32-30-A-PPS-A-C
	35	8076056	ADN-32-35-A-P-A-C	8076032	ADN-32-35-A-PPS-A-C
	40	8076050	ADN-32-40-A-P-A-C	8076065	ADN-32-40-A-PPS-A-C
	50	8076061	ADN-32-50-A-P-A-C	8076026	ADN-32-50-A-PPS-A-C
	60	8076053	ADN-32-60-A-P-A-C	8076058	ADN-32-60-A-PPS-A-C
	70	8076055	ADN-32-70-A-P-A-C	8076051	ADN-32-70-A-PPS-A-C
	80	8076042	ADN-32-80-A-P-A-C	8076048	ADN-32-80-A-PPS-A-C
	I – Piston rod with female thread				
	5	8076033	ADN-32-5-I-P-A-C	–	
	10	8076040	ADN-32-10-I-P-A-C	8076062	ADN-32-10-I-PPS-A-C
	15	8076036	ADN-32-15-I-P-A-C	8076049	ADN-32-15-I-PPS-A-C
	20	8076044	ADN-32-20-I-P-A-C	8076045	ADN-32-20-I-PPS-A-C
	25	8076034	ADN-32-25-I-P-A-C	8076063	ADN-32-25-I-PPS-A-C
	30	8076027	ADN-32-30-I-P-A-C	8076030	ADN-32-30-I-PPS-A-C
	35	8076035	ADN-32-35-I-P-A-C	8076046	ADN-32-35-I-PPS-A-C
	40	8076028	ADN-32-40-I-P-A-C	8076071	ADN-32-40-I-PPS-A-C
	50	8076041	ADN-32-50-I-P-A-C	8076066	ADN-32-50-I-PPS-A-C
	60	8076059	ADN-32-60-I-P-A-C	8076038	ADN-32-60-I-PPS-A-C
	70	8076064	ADN-32-70-I-P-A-C	8076052	ADN-32-70-I-PPS-A-C
	80	8076068	ADN-32-80-I-P-A-C	8076072	ADN-32-80-I-PPS-A-C
40	A – Piston rod with male thread				
	5	8075972	ADN-40-5-A-P-A-C	–	
	10	8075991	ADN-40-10-A-P-A-C	8075960	ADN-40-10-A-PPS-A-C
	15	8075975	ADN-40-15-A-P-A-C	8075969	ADN-40-15-A-PPS-A-C
	20	8075997	ADN-40-20-A-P-A-C	8075994	ADN-40-20-A-PPS-A-C
	25	8075958	ADN-40-25-A-P-A-C	8075998	ADN-40-25-A-PPS-A-C
	30	8075966	ADN-40-30-A-P-A-C	8075987	ADN-40-30-A-PPS-A-C
	35	8075954	ADN-40-35-A-P-A-C	8075983	ADN-40-35-A-PPS-A-C
	40	8075968	ADN-40-40-A-P-A-C	8075993	ADN-40-40-A-PPS-A-C
	50	8075971	ADN-40-50-A-P-A-C	8075989	ADN-40-50-A-PPS-A-C
	60	8075956	ADN-40-60-A-P-A-C	8075981	ADN-40-60-A-PPS-A-C
	70	8075964	ADN-40-70-A-P-A-C	8075995	ADN-40-70-A-PPS-A-C
	80	8075985	ADN-40-80-A-P-A-C	8075955	ADN-40-80-A-PPS-A-C
	I – Piston rod with female thread				
	5	8075982	ADN-40-5-I-P-A-C	–	
	10	8075978	ADN-40-10-I-P-A-C	8075963	ADN-40-10-I-PPS-A-C
	15	8075990	ADN-40-15-I-P-A-C	8075973	ADN-40-15-I-PPS-A-C
	20	8075979	ADN-40-20-I-P-A-C	8075986	ADN-40-20-I-PPS-A-C
	25	8075961	ADN-40-25-I-P-A-C	8075953	ADN-40-25-I-PPS-A-C
	30	8075957	ADN-40-30-I-P-A-C	8075976	ADN-40-30-I-PPS-A-C
	35	8075988	ADN-40-35-I-P-A-C	8075984	ADN-40-35-I-PPS-A-C
	40	8075965	ADN-40-40-I-P-A-C	8075967	ADN-40-40-I-PPS-A-C
	50	8075980	ADN-40-50-I-P-A-C	8075974	ADN-40-50-I-PPS-A-C
	60	8075959	ADN-40-60-I-P-A-C	8075962	ADN-40-60-I-PPS-A-C
	70	8075996	ADN-40-70-I-P-A-C	8075977	ADN-40-70-I-PPS-A-C
	80	8075992	ADN-40-80-I-P-A-C	8075970	ADN-40-80-I-PPS-A-C

Ordering data

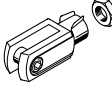
Ordering data					
Piston diameter	Stroke [mm]	P – Elastic cushioning rings/plates at both ends		PPS – Pneumatic cushioning, self-adjusting at both ends	
		Part no.	Type	Part no.	Type
50	A – Piston rod with male thread				
	10	8076181	ADN-50-10-A-P-A-C	8076144	ADN-50-10-A-PPS-A-C
	15	8076184	ADN-50-15-A-P-A-C	8076185	ADN-50-15-A-PPS-A-C
	20	8076177	ADN-50-20-A-P-A-C	8076149	ADN-50-20-A-PPS-A-C
	25	8076146	ADN-50-25-A-P-A-C	8076164	ADN-50-25-A-PPS-A-C
	30	8076145	ADN-50-30-A-P-A-C	8076162	ADN-50-30-A-PPS-A-C
	35	8076170	ADN-50-35-A-P-A-C	8076180	ADN-50-35-A-PPS-A-C
	40	8076167	ADN-50-40-A-P-A-C	8076175	ADN-50-40-A-PPS-A-C
	50	8076151	ADN-50-50-A-P-A-C	8076158	ADN-50-50-A-PPS-A-C
	60	8076176	ADN-50-60-A-P-A-C	8076152	ADN-50-60-A-PPS-A-C
	70	8076172	ADN-50-70-A-P-A-C	8076178	ADN-50-70-A-PPS-A-C
	80	8076182	ADN-50-80-A-P-A-C	8076153	ADN-50-80-A-PPS-A-C
	I – Piston rod with female thread				
	10	8076173	ADN-50-10-I-P-A-C	8076186	ADN-50-10-I-PPS-A-C
	15	8076148	ADN-50-15-I-P-A-C	8076183	ADN-50-15-I-PPS-A-C
	20	8076169	ADN-50-20-I-P-A-C	8076155	ADN-50-20-I-PPS-A-C
	25	8076147	ADN-50-25-I-P-A-C	8076160	ADN-50-25-I-PPS-A-C
	30	8076156	ADN-50-30-I-P-A-C	8076165	ADN-50-30-I-PPS-A-C
	35	8076187	ADN-50-35-I-P-A-C	8076166	ADN-50-35-I-PPS-A-C
	40	8076161	ADN-50-40-I-P-A-C	8076163	ADN-50-40-I-PPS-A-C
	50	8076157	ADN-50-50-I-P-A-C	8076174	ADN-50-50-I-PPS-A-C
	60	8076188	ADN-50-60-I-P-A-C	8076171	ADN-50-60-I-PPS-A-C
	70	8076168	ADN-50-70-I-P-A-C	8076159	ADN-50-70-I-PPS-A-C
	80	8076154	ADN-50-80-I-P-A-C	8076150	ADN-50-80-I-PPS-A-C
63	A – Piston rod with male thread				
	10	8075917	ADN-63-10-A-P-A-C	8075911	ADN-63-10-A-PPS-A-C
	15	8075910	ADN-63-15-A-P-A-C	8075895	ADN-63-15-A-PPS-A-C
	20	8075909	ADN-63-20-A-P-A-C	8075896	ADN-63-20-A-PPS-A-C
	25	8075923	ADN-63-25-A-P-A-C	8075913	ADN-63-25-A-PPS-A-C
	30	8075918	ADN-63-30-A-P-A-C	8075926	ADN-63-30-A-PPS-A-C
	35	8075890	ADN-63-35-A-P-A-C	8075925	ADN-63-35-A-PPS-A-C
	40	8075899	ADN-63-40-A-P-A-C	8075903	ADN-63-40-A-PPS-A-C
	50	8075891	ADN-63-50-A-P-A-C	8075933	ADN-63-50-A-PPS-A-C
	60	8075915	ADN-63-60-A-P-A-C	8075898	ADN-63-60-A-PPS-A-C
	70	8075916	ADN-63-70-A-P-A-C	8075904	ADN-63-70-A-PPS-A-C
	80	8075929	ADN-63-80-A-P-A-C	8075924	ADN-63-80-A-PPS-A-C
	I – Piston rod with female thread				
	10	8075928	ADN-63-10-I-P-A-C	8075897	ADN-63-10-I-PPS-A-C
	15	8075931	ADN-63-15-I-P-A-C	8075906	ADN-63-15-I-PPS-A-C
	20	8075922	ADN-63-20-I-P-A-C	8075932	ADN-63-20-I-PPS-A-C
	25	8075900	ADN-63-25-I-P-A-C	8075921	ADN-63-25-I-PPS-A-C
	30	8075894	ADN-63-30-I-P-A-C	8075907	ADN-63-30-I-PPS-A-C
	35	8075892	ADN-63-35-I-P-A-C	8075901	ADN-63-35-I-PPS-A-C
	40	8075919	ADN-63-40-I-P-A-C	8075930	ADN-63-40-I-PPS-A-C
	50	8075914	ADN-63-50-I-P-A-C	8075920	ADN-63-50-I-PPS-A-C
	60	8075908	ADN-63-60-I-P-A-C	8075912	ADN-63-60-I-PPS-A-C
	70	8075893	ADN-63-70-I-P-A-C	8075927	ADN-63-70-I-PPS-A-C
	80	8075902	ADN-63-80-I-P-A-C	8075905	ADN-63-80-I-PPS-A-C

Ordering data

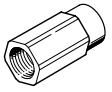
Ordering data					
Piston diameter	Stroke [mm]	P – Elastic cushioning rings/plates at both ends		PPS – Pneumatic cushioning, self-adjusting at both ends	
		Part no.	Type	Part no.	Type
80	A – Piston rod with male thread				
	10	8076206	ADN-80-10-A-P-A-C	8076229	ADN-80-10-A-PPS-A-C
	15	8076209	ADN-80-15-A-P-A-C	8076230	ADN-80-15-A-PPS-A-C
	20	8076207	ADN-80-20-A-P-A-C	8076231	ADN-80-20-A-PPS-A-C
	25	8076210	ADN-80-25-A-P-A-C	8076232	ADN-80-25-A-PPS-A-C
	30	8076211	ADN-80-30-A-P-A-C	8 076233	ADN-80-30-A-PPS-A-C
	35	8076212	ADN-80-35-A-P-A-C	8076234	ADN-80-35-A-PPS-A-C
	40	8076213	ADN-80-40-A-P-A-C	8076235	ADN-80-40-A-PPS-A-C
	50	8076214	ADN-80-50-A-P-A-C	8076236	ADN-80-50-A-PPS-A-C
	60	8076215	ADN-80-60-A-P-A-C	8076237	ADN-80-60-A-PPS-A-C
	70	8076216	ADN-80-70-A-P-A-C	8076238	ADN-80-70-A-PPS-A-C
	80	8076217	ADN-80-80-A-P-A-C	8076239	ADN-80-80-A-PPS-A-C
	I – Piston rod with female thread				
	10	8076218	ADN-80-10-I-P-A-C	8076240	ADN-80-10-I-PPS-A-C
	15	8076219	ADN-80-15-I-P-A-C	8076241	ADN-80-15-I-PPS-A-C
	20	8076220	ADN-80-20-I-P-A-C	8076242	ADN-80-20-I-PPS-A-C
	25	8076221	ADN-80-25-I-P-A-C	8076243	ADN-80-25-I-PPS-A-C
	30	8076222	ADN-80-30-I-P-A-C	8076244	ADN-80-30-I-PPS-A-C
	35	8076223	ADN-80-35-I-P-A-C	8076245	ADN-80-35-I-PPS-A-C
	40	8076224	ADN-80-40-I-P-A-C	8076246	ADN-80-40-I-PPS-A-C
	50	8076225	ADN-80-50-I-P-A-C	8076247	ADN-80-50-I-PPS-A-C
	60	8076226	ADN-80-60-I-P-A-C	8076248	ADN-80-60-I-PPS-A-C
	70	8076227	ADN-80-70-I-P-A-C	8076249	ADN-80-70-I-PPS-A-C
	80	8076228	ADN-80-80-I-P-A-C	8076250	ADN-80-80-I-PPS-A-C

Accessories

Ordering data – Piston rod attachments

Designation	For diam.	Part no.	Type
Rod eye SGS			
	16	9254	SGS-M6
	20, 25	9255	SGS-M8
	32, 40	9261	SGS-M10x1.25
	50, 63	9262	SGS-M12x1.25
	80	9263	SGS-M16x1.5
Rod clevis SG			
	12	–	
	16	3110	SG-M6
	20, 25	3111	SG-M8
	32, 40	6144	SG-M10x1.25
	50, 63	6145	SG-M12x1.25
	80	6146	SG-M16x1.5

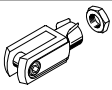
Data sheets → Internet: piston rod attachment

Designation	For diam.	Part no.	Type
Adapter AD			
	12	–	
	16	157328	AD-M6-M5
		157329	AD-M6-1/8
		157330	AD-M6-1/4
	20	157331	AD-M8-1/8
	25	157332	AD-M8-1/4
	32	157333	AD-M10x1.25-1/8
	40	157334	AD-M10x1.25-1/4
	50	160256	AD-M12x1.25-1/4
	63	160257	AD-M12x1.25-3/8

Ordering data – Piston rod attachments, corrosion-resistant

Designation	For diam.	Part no.	Type
Rod eye CRS GS			
	12	–	
	16	195580	CRSGS-M6
	20, 25	195581	CRSGS-M8
	32, 40	195582	CRSGS-M10x1.25
	50, 63	195583	CRSGS-M12x1.25
	80	195584	CRSGS-M16x1.5

Data sheets → Internet: piston rod attachment

Designation	For diam.	Part no.	Type
Rod clevis CRS G			
	12	–	
	16, 20	13567	CRSG-M6
	20, 25	13568	CRSG-M8
	32, 40	13569	CRSG-M10x1.25
	50, 63	13570	CRSG-M12x1.25
	80	13571	CRSG-M16x1.5

Accessories

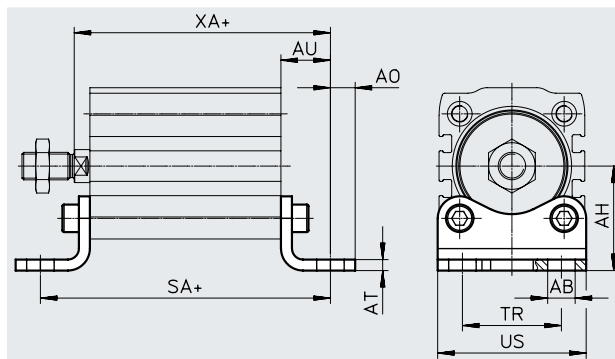
Foot mounting HNA

Material:

HNA: galvanised steel

Free of copper and PTFE

RoHS-compliant



Dimensions and ordering data

For diam.	AB ø	AH	AO	AT	AU	SA	TR	US	XA		Basic type			
									[P]	[PPS]	CRC ¹⁾	Weight [g]	Part no.	Type
[mm]	H14	JS14		±0.5	±0.2	±0.2	±0.2	-0.5	+1.2	+1.3				
12	5.8	21	5	3	13	61	16	26	52.2	–	1	39	537237	HNA-12
16	5.8	22	4.75	3	13	61	18	27.5	52.7	–	1	42	537238	HNA-16
20	7	27	6.25	4	16	69	22	34.5	58.5	58.5	1	84	537239	HNA-20
25	7	29	6.3	4	16	71	26	38.5	60.5	61.3	1	90	537240	HNA-25
32	7	33.5	7	4	16	76	32	46	66	66.6	1	123	537241	HNA-32
40	10	38	9	4	18	81	36	54	69.1	69.7	1	157	537242	HNA-40
50	10	45	8	5	21	87	45	64	73.7	74.2	1	278	537243	HNA-50
63	10	50	8	5	21	91	50	75	77.5	78	1	328	537244	HNA-63
80	12	63	10.5	6	26	106	63	93	88.9	89.4	1	634	537249	HNA-80

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry indoor application or transport and storage protection. Also applies to parts behind coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Accessories

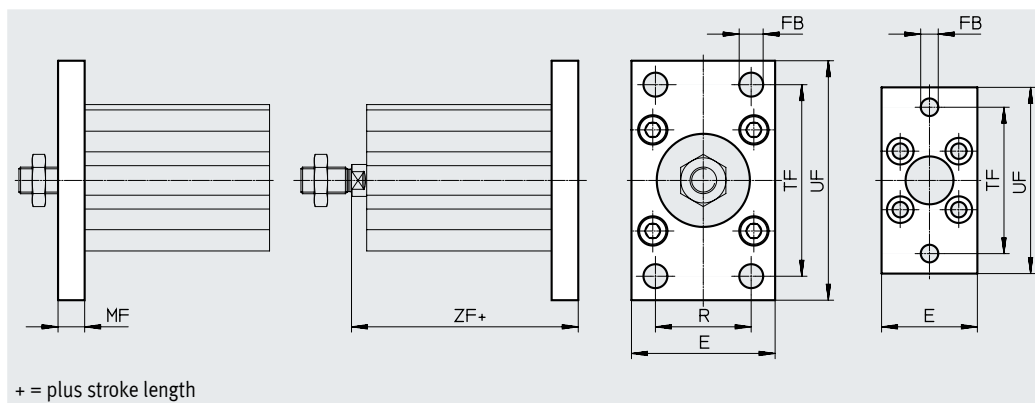
Flange mounting FNC

Material:

Galvanised steel

Free of copper and PTFE

RoHS-compliant



Dimensions and ordering data

For diam.	E	FB Ø	MF	R	TF	UF	ZF		Basic type			
[mm]						±1	[P] +1.2	[PPS] +1.3	CRC ¹⁾	Weight [g]	Part no.	Type
12	28	5.5	8	–	40	50	47.2	–	1	79	537245	FNC-12
16	29	5.5	8	–	43	55	47.7	–	1	88	537246	FNC-16
20	36	6.6	8	–	55	70	50.5	50.5	1	141	537247	FNC-20
25	40	6.6	8	–	60	76	52.5	53.3	1	165	537248	FNC-25
32	45	7	10	32	64	80	60	60.6	1	221	174376	FNC-32
40	54	9	10	36	72	90	61.1	61.7	1	291	174377	FNC-40
50	65	9	12	45	90	110	64.7	65.2	1	536	174378	FNC-50
63	75	9	12	50	100	120	68.5	69	1	679	174379	FNC-63
80	93	12	16	63	126	150	78.9	79.4	1	1495	174380	FNC-80

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry indoor application or transport and storage protection. Also applies to parts behind coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Accessories

Ordering data – One-way flow control valves						Data sheets → Internet: grla
	Connection For diam.	For tubing O.D.	Material	Part no.	Type	
For exhaust air						
	12, 16, 20, 25	3	Metal design	193137	GRLA-M5-QS-3-D	
		4		193138	GRLA-M5-QS-4-D	
		6		193139	GRLA-M5-QS-6-D	
	32, 40, 50, 63, 80	3		193142	GRLA-1/8-QS-3-D	
		4		193143	GRLA-1/8-QS-4-D	
		6		193144	GRLA-1/8-QS-6-D	
		8		193145	GRLA-1/8-QS-8-D	
For supply air						
	12, 16, 20, 25	3	Metal design	193153	GRLZ-M5-QS-3-D	
		4		193154	GRLZ-M5-QS-4-D	
		6		193155	GRLZ-M5-QS-6-D	
	32, 40, 50, 63, 80	3		193156	GRLZ-1/8-QS-3-D	
		4		193157	GRLZ-1/8-QS-4-D	
		6		193158	GRLZ-1/8-QS-6-D	
		8		193159	GRLZ-1/8-QS-8-D	

Ordering data – Proximity sensors for T-slot, magneto-resistive						Data sheets → Internet: smt
	Type of mounting	Switching output	Electrical connection	Cable length [m]	Part no.	Type
N/O contact						
	Insertable in the slot from above, flush with the cylinder profile, short design	PNP	Cable, 3-wire	2.5	574335	SMT-8M-A-PS-24V-E-2.5-OE
			Plug M8x1, 3-pin	0.3	574334	SMT-8M-A-PS-24V-E-0.3-M8D
		NPN	Cable, 3-wire	2.5	574338	SMT-8M-A-NS-24V-E-2.5-OE
			Plug M8x1, 3-pin	0.3	574339	SMT-8M-A-NS-24V-E-0.3-M8D
N/C contact						
	Insertable in the slot from above, flush with the cylinder profile, short design	PNP	Cable, 3-wire	7.5	574340	SMT-8M-A-PO-24V-E-7.5-OE

Ordering data – Proximity sensors for T-slot, magneto-resistive, corrosion-resistant						Data sheets → Internet: crsmt	
	Switching output	Electrical connection		Cable length	Weight	Part no.	Type
		Cable	Cable with plug, rotatable thread	[m]	[g]		
N/O contact							
	PNP	3-wire	–	5	47.6	574380	CRSMT-8M-PS-24V-K-5.0-OE
	PNP	3-pin	M8x1	0.3	16.1	574383	CRSMT-8M-PS-24V-K-0.3-M8D

Ordering data – Proximity sensor for T-slot, NAMUR						Data sheets → Internet: sdbt
	Switching output	Electrical connection		Cable length [m]	Part no.	Type
N/O contact						
	NAMUR	Cable, 2-wire		5	579071	SDBT-MS-20NL-ZN-E-5-LE-EX6
				10	579072	SDBT-MS-20NL-ZN-E-10-LE-EX6

Accessories

Ordering data – Proximity sensor in block design, pneumatic				Data sheets → Internet: smpo
	Pneumatic connection	Part no.	Type	
3/2-way valve, normally closed				
	Female thread M5	178563	SMPO-8E	

Ordering data – Mounting kit for proximity sensor SMPO-8E				Data sheets → Internet: smb	
	Mounting	Part no.	Type		
	Clamped in T-slot	178230	SMB-8E		

Ordering data – Connecting cables						Data sheets → Internet: nebu	
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Type		
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541333	NEBU-M8G3-K-2.5-LE3		
			5	541334	NEBU-M8G3-K-5-LE3		
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541338	NEBU-M8W3-K-2.5-LE3		
			5	541341	NEBU-M8W3-K-5-LE3		

Ordering data – Position transmitters for T-slot								Data sheets → Internet: sdas	
	Position measuring range	Description	Type of mounting	Electrical connection	Cable length [m]	Part no.	Type		
	Depends on the piston diameter	Choice of two operating modes: • Two adjustable switching outputs • IO-Link	Insertable in the slot from above	Plug M8x1, 4-pin, in-line	0.3	8063974	SDAS-MHS-M40-1L-PNLK-PN-E-0.3-M8		
				Cable, open end	2.5	8063975	SDAS-MHS-M40-1L-PNLK-PN-E-2.5-LE		

Ordering data – Position transmitters for T-slot								Data sheets → Internet: position transmitter	
	Position measuring range	Analogue output [V]	[mA]	Type of mounting	Electrical connection	Cable length [m]	Part no.	Type	
	0 ... 50	–	4 ... 20	Insertable in the slot from above	Plug M8x1, 4-pin, in-line	0.3	1531265	SDAT-MHS-M50-1L-SA-E-0.3-M8	
	0 ... 80	–	4 ... 20	Insertable in the slot from above	Plug M8x1, 4-pin, in-line	0.3	1531266	SDAT-MHS-M80-1L-SA-E-0.3-M8	
	0 ... 40	0 ... 10	–	Insertable in the slot from above	Plug M8x1, 4-pin, in-line	0.3	553744	SMAT-8M-U-E-0.3-M8D	

Ordering data – Connecting cables						Data sheets → Internet: nebu	
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Type		
	Straight socket, M8x1, 4-pin	Cable, open end, 4-wire	2.5	541342	NEBU-M8G4-K-2.5-LE4		
			5	541343	NEBU-M8G4-K-5-LE4		
	Angled socket, M8x1, 4-pin	Cable, open end, 4-wire	2.5	541344	NEBU-M8W4-K-2.5-LE4		
			5	541345	NEBU-M8W4-K-5-LE4		

Ordering data – Slot cover for T-slot				Data sheets → Internet: abp	
	Mounting	Length	Part no.	Type	
	Insertable	2x 0.5 m	151680	ABP-5-S	