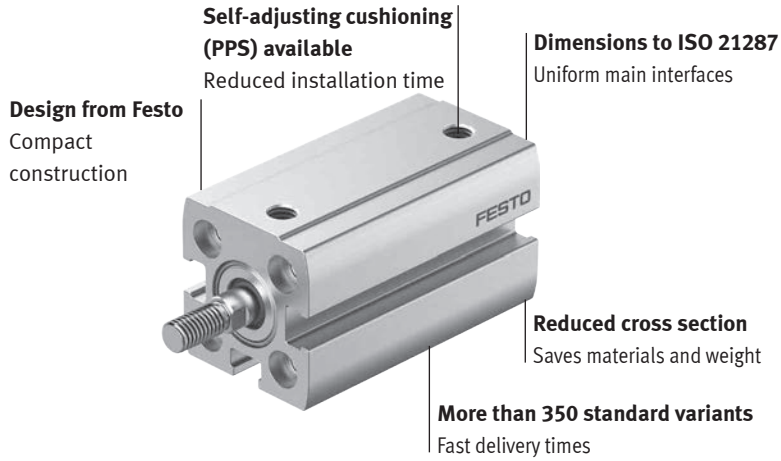
Compact cylinders ADN-C, ISO 21287

NEW

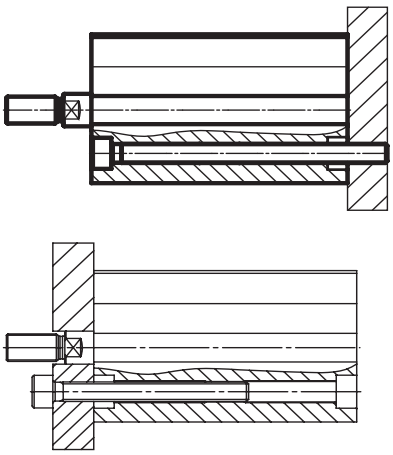
Key features

At a glance

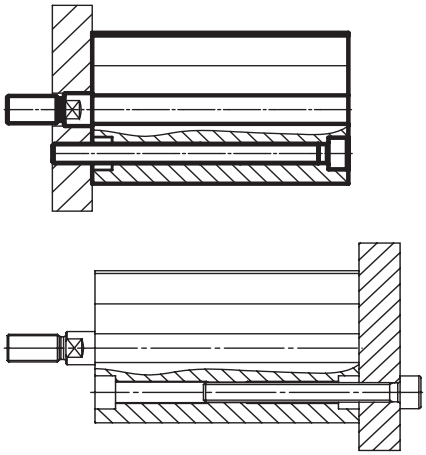


Mounting options

From the front



From the rear

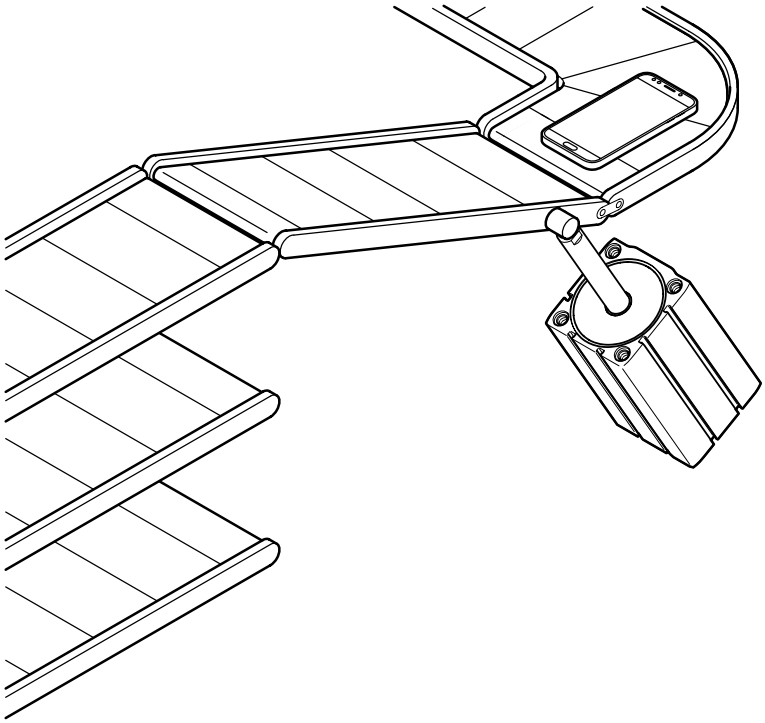


Note

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	

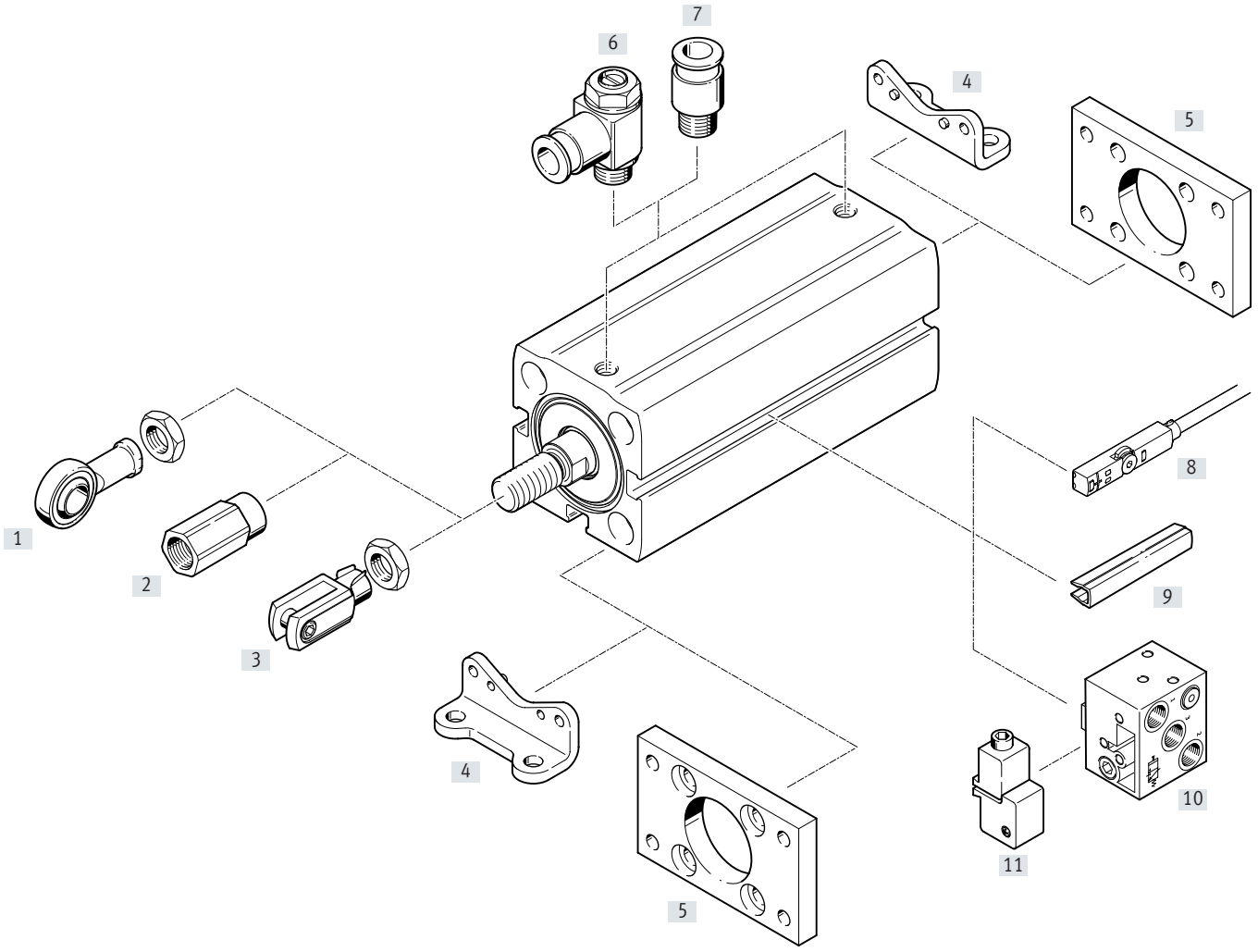
004	Piston rod thread type	
A	Male thread	
I	Female thread	

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

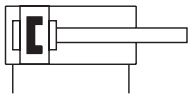
	Type/order code	Description	→ Page/Internet
[1]	Rod eye SGS/CRSGS	With spherical bearing	15
[2]	Adapter AD	For mounting a suction cup on a hollow piston rod	15
[3]	Rod clevis SG/CRSG	Permits a swivelling movement of the cylinder in one plane	15
[4]	Foot mounting HNA	For bearing or end caps	16
[5]	Flange 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

NEW

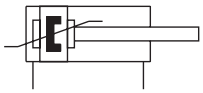
Data sheet

Function

ADN-...-P-A-C



ADN-...-PPS-A-C



Ø - 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								

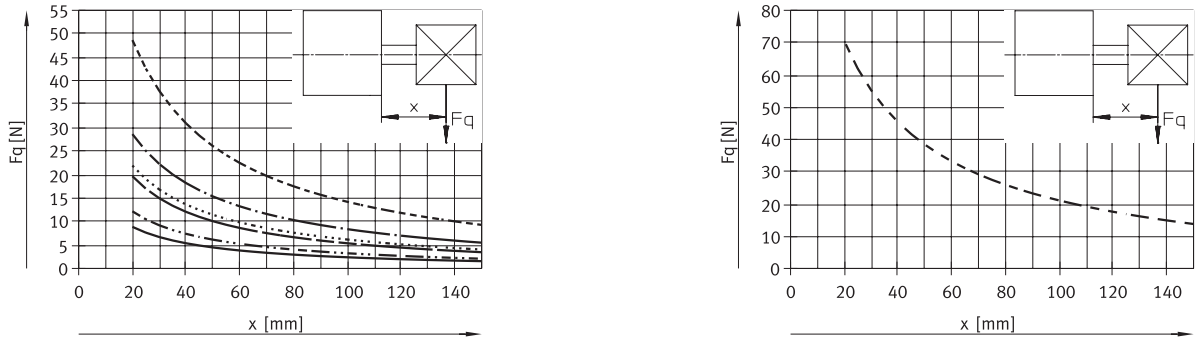
1) Note operating range of proximity sensors
2) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal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

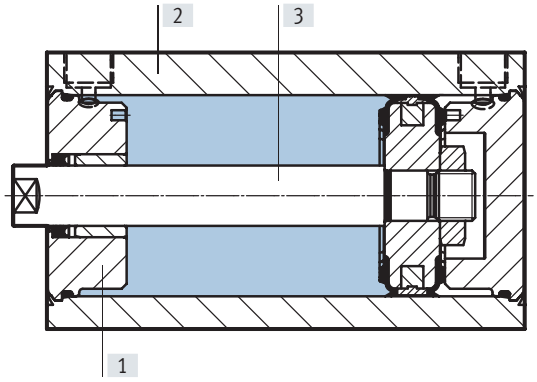
Max. transverse load Fq as a function of projection x



- Ø 12
- Ø 16
- Ø 20
- Ø 25
- Ø 32/40
- Ø 50/63
- Ø 80

Materials

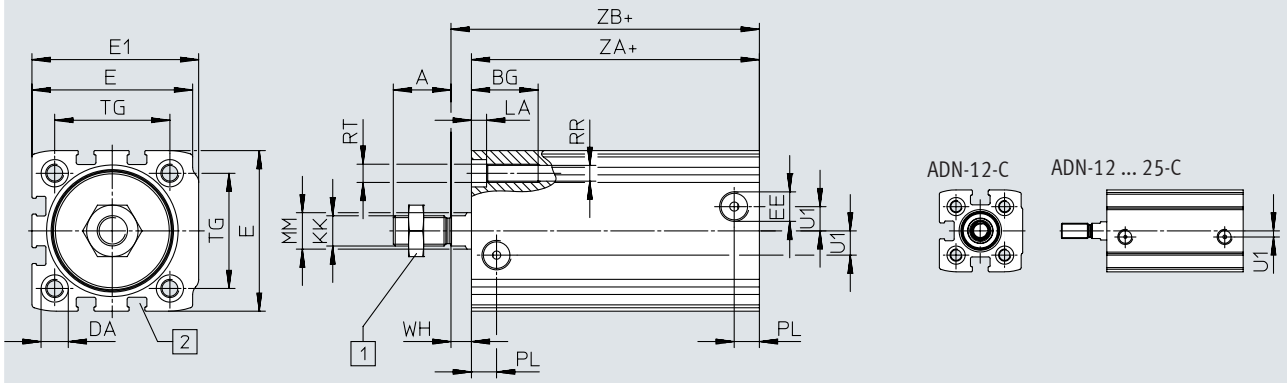
Sectional view



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

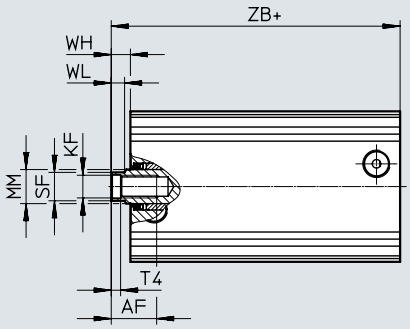
ø [mm]	A -0.5	BG min.	DA ø F9	E	E1	EE	KK	LA ±0.1	MM ø h8
12	10	19	6	$27_{\pm 0.15}$	$27.5_{\pm 0.15}$	M5	M5	3.5	6
16	12	19	6	$29_{\pm 0.15}$	$30_{\pm 0.15}$	M5	M6	3.5	8
20	16	20	7.5	$34.5_{\pm 0.15}$	$35.5_{\pm 0.15}$	M5	M8	5	10
25	16	20	7.5	$38.5_{\pm 0.15}$	$39.5_{\pm 0.15}$	M5	M8	5	10
32	19	22	9	$45_{\pm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

ø [mm]	PL +0.2	RR ø	RT	TG	U1	WH		ZA ±0.3	ZB	
						[P] +1.3	[PPS] +1.4		[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

ø	AF	KF	MM ø	SF	T4	WH		WL	ZB	
						[P]	[PPS]		[P]	[PPS]
[mm]	min.		h8	h13		+1.3	+1.4	-0.15	+1.2	+1.3
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

NEW

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	80 75736	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

NEW

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	80759 73	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

NEW

Ordering data

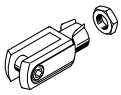
Ordering data

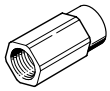
Piston diameter	Stroke [mm]	P – Elastic cushioning rings/plates at both ends		PPS – Pneumatic cushioning, self-adjusting at both ends	
		Part no.	Type	Part no.	Type
80	A – Piston rod with male thread				
	10	**8076206**	**ADN-80-10-A-P-A-C**	**8076229**	**ADN-80-10-A-PPS-A-C**
	15	**8076209**	**ADN-80-15-A-P-A-C**	**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

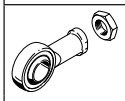
Data sheets → Internet: piston rod attachment

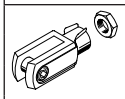
Designation	For diam.	Part no.	Type
Rod eye SGS			
	16	9254	SGS-M6
	20, 25	9255	SGS-M8
	32, 40	9261	SGS-M10x1.25
	50, 63	9262	SGS-M12x1.25
	80	9263	SGS-M16x1.5
Rod clevis SG			
	12	–	
	16	3110	SG-M6
	20, 25	3111	SG-M8
	32, 40	6144	SG-M10x1.25
	50, 63	6145	SG-M12x1.25
	80	6146	SG-M16x1.5

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

Data sheets → Internet: piston rod attachment

Designation	For diam.	Part no.	Type
Rod eye CRSGS			
	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

Designation	For diam.	Part no.	Type
Rod clevis CRSG			
	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

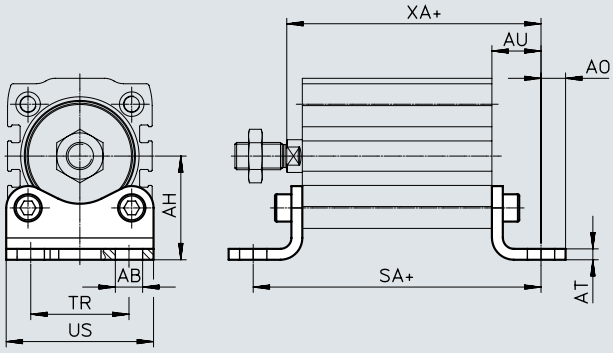
NEW

Accessories

Foot mounting HNA

Material:
HNA: galvanised steel

Free of copper and PTFE
RoHS-compliant



+ = plus stroke length

Dimensions and ordering data

For diam.	AB ⌀	AH	AO	AT	AU	SA	TR	US	XA		Basic type			
									[P]	[PPS]	CRC[1]	Weight	Part no.	Type
[mm]	H14	JS14		±0.5	±0.2	±0.2	±0.2	-0.5	+1.2	+1.3		[g]		
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**

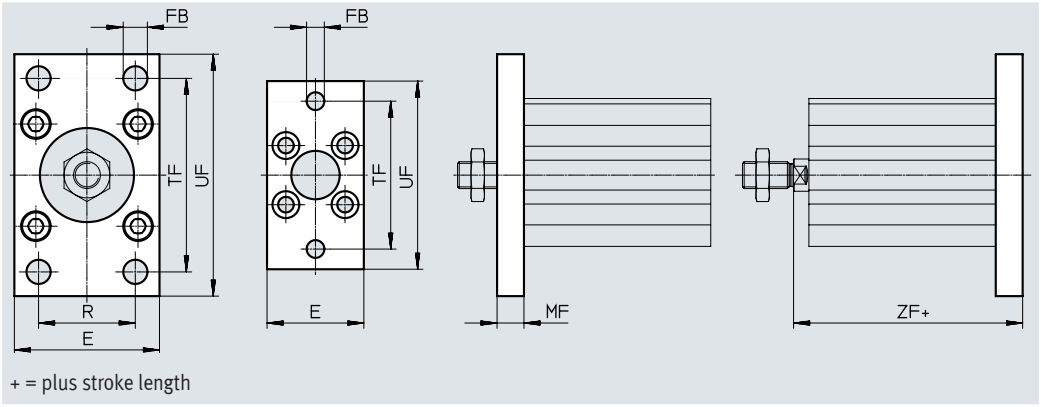
1) Corrosion resistance class CRC 1 to Festo standard FN 940070
Low corrosion stress. Dry indoor application or transport and storage protection. Also applies to parts behind coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Accessories

Flange mounting FNC

Material:
Galvanised steel

Free of copper and PTFE
RoHS-compliant



+ = plus stroke length

Dimensions and ordering data

For diam.	E	FB ⌀	MF	R	TF	UF	ZF		Basic type			
							[P]	[PPS]	CRC[1)]	Weight	Part no.	Type
[mm]						±1	+1.2	+1.3		[g]		
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

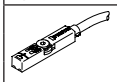
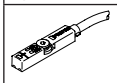
Ordering data – One-way flow control valves

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**

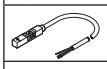
Ordering data – Proximity sensors for T-slot, magneto-resistive

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**

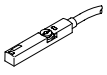
Ordering data – Proximity sensors for T-slot, magneto-resistive, corrosion-resistant

Data sheets → Internet: crsmt

	Switching output	Electrical connection		Cable length [m]	Weight [g]	Part no.	Type
		Cable	Cable with plug, rotatable thread				
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**

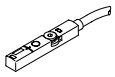
Ordering data – Connecting cables

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**

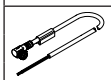
Ordering data – Position transmitters for T-slot

Data sheets → Internet: position transmitter

	Position measuring range	Analogue output [V]	Analogue output [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**

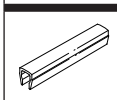
Ordering data – Connecting cables

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**

Festo - Your Partner in Automation

1 Festo Inc.

5300 Explorer Drive
Mississauga, ON L4W 5G4
Canada

Festo Customer Interaction Center
Tel: 1 877 463 3786
Fax: 1 877 393 3786
Email: customer.service.ca@festo.com

2 Festo Pneumatic

Av. Ceylán 3,
Col. Tequesquináhuac
54020 Tlalnepantla,
Estado de México

Multinational Contact Center
01 800 337 8669

ventas.mexico@festo.com

3 Festo Corporation

1377 Motor Parkway
Suite 310
Islandia, NY 11749

4 Regional Service Center

7777 Columbia Road
Mason, OH 45040

Festo Customer Interaction Center
1 800 993 3786
1 800 963 3786
customer.service.us@festo.com

Connect with us

www.festo.com/socialmedia

www.festo.com

Subject to change