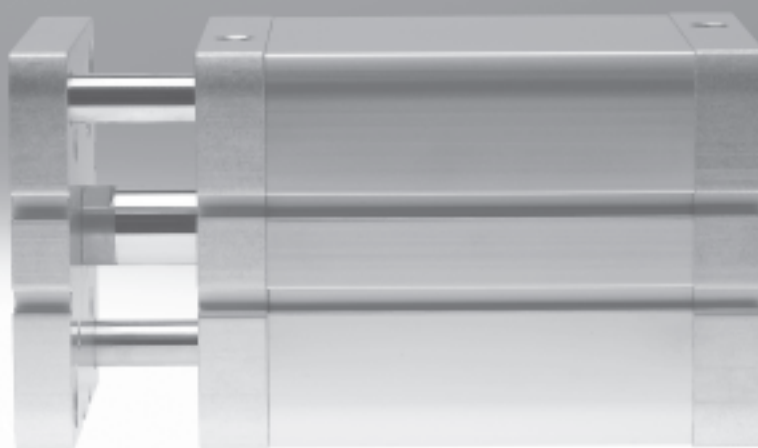


Compact cylinders ADNGF, standard port pattern

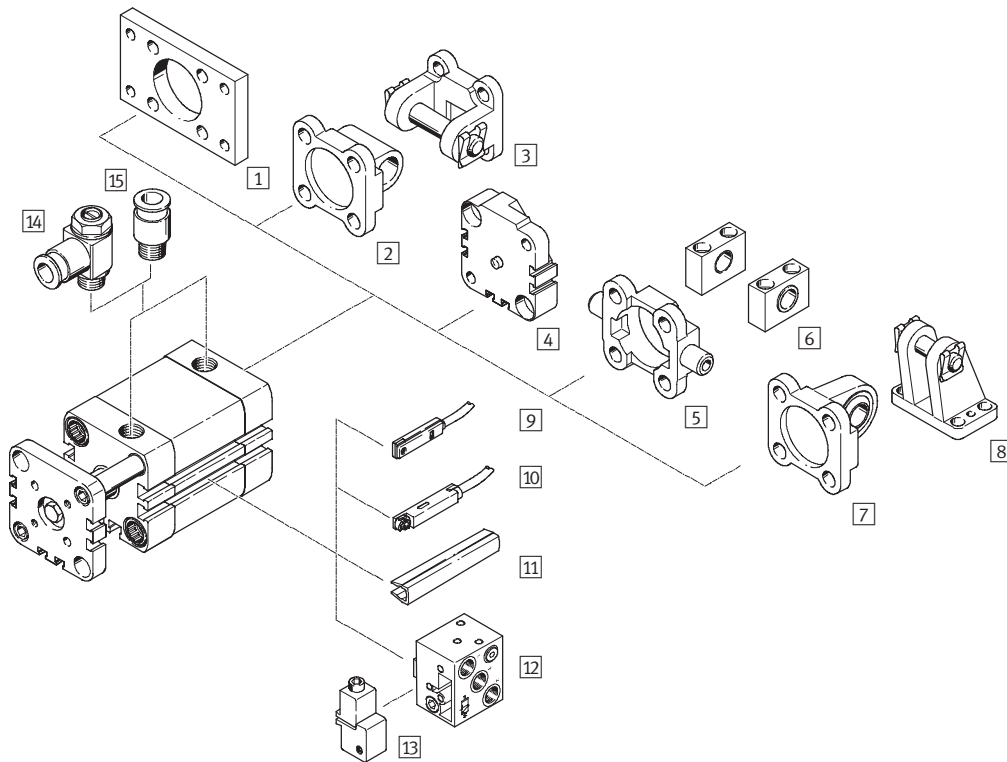
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Compact cylinders ADNGF, standard port pattern

Peripherals overview

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Mounting attachments and accessories		
	Brief description	→ Page/Internet
1	Flange mounting FNC	For end caps
2	Swivel flange SNCL	For end caps
3	Swivel flange SNCB	For end caps
4	Multi-position kit DPNA	For connecting two cylinders with identical piston $\varnothing$ to form a multi-position cylinder
5	Trunnion flange ZNCF/CRZNG	For end caps
6	Trunnion support LNZG	For trunnion flange ZNCF/CRZNG
7	Swivel flange SNCS	For end caps
8	Clevis foot LBG	For swivel flange SNCS
9	Proximity sensor SME/SMT-8	Can be integrated in the sensor slot of the cylinder profile barrel
10	Proximity sensor SME/SMT-8M	Can be integrated in the sensor slot of the cylinder profile barrel
11	Slot cover ABP-5-S	To protect the sensor cable and keep dirt out of the sensor slots
12	Proximity sensor SMPO-8E	Pneumatic output signal
13	Mounting kit SMB-8E	For proximity sensor SMPO-8E
14	One-way flow control valve GRLA/GRLZ	For speed regulation
15	Push-in fitting QS	For connecting compressed air tubing with standard external diameters

Compact cylinders ADNGF, standard port pattern

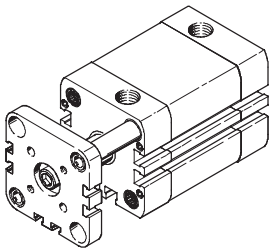
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Type codes

		ADNGF	—	50	—	25	—	P	—	A	—	S6
Type												
Double-acting												
ADNGF	Compact cylinder											
Piston Ø [mm]												
Stroke [mm]												
Cushioning												
P	Flexible cushioning rings/pads at both ends											
Position sensing												
A	Via proximity sensor											
Variant												
S2	Through piston rod											
S6	Heat-resistant seals up to max. 120 °C											
TL	Captive rating plate											

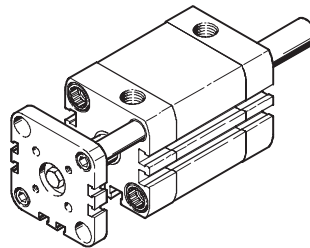
With guide rods and yoke plate

ADNGF-...



With guide rods, yoke plate and through piston rod

ADNGF-...-S2

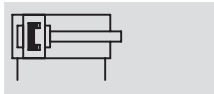


Compact cylinders ADNGF, standard port pattern

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Technical data

Function



Ø - Diameter
12 ... 100 mm

l - Stroke length
1 ... 400 mm

Variants



S2



S6



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
Constructional design	Piston									
	Piston rod									
	Cylinder barrel									
Cushioning	Flexible cushioning rings/pads at both ends									
Position sensing	Via proximity sensor									
Type of mounting	Via through-holes									
	Via female threads									
	Via accessories									
Mounting position	Any									

Operating and environmental conditions										
Piston Ø	12	16	20	25	32	40	50	63	80	100
Operating medium	Filtered compressed air, lubricated or unlubricated									
Operating pressure	1.5 ... 10			1 ... 10						
[bar]	S2	1.5 ... 10			1 ... 10					
Ambient temperature ¹⁾	-20 ... +80									
[°C]	S6	0 ... +120								
Corrosion resistance class CRC ²⁾	2									

1) Note operating range of proximity sensors

2) Corrosion resistance class 2 to Festo standard 940 070

Components subject to moderate corrosion stress. 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

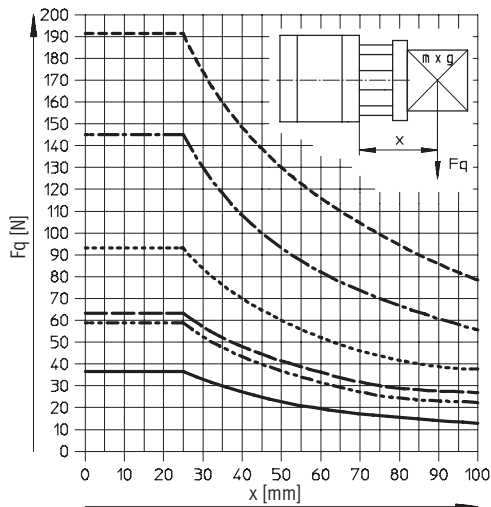
Forces [N] and impact energy [J]										
Piston Ø	12	16	20	25	32	40	50	63	80	100
Theoretical force at 6 bar, advancing		68	121	188	295	483	754	1178	1870	4712
	S2	51	90	141	247	415	686	1057	1750	4524
Theoretical force at 6 bar, retracting		51	90	141	247	415	686	1057	1750	4524
	S2	51	90	141	247	415	686	1057	1750	4524
Max. impact energy at the end positions		0.07	0.15	0.2	0.3	0.4	0.7	1.0	1.3	2.5

Compact cylinders ADNGF, standard port pattern

Technical data

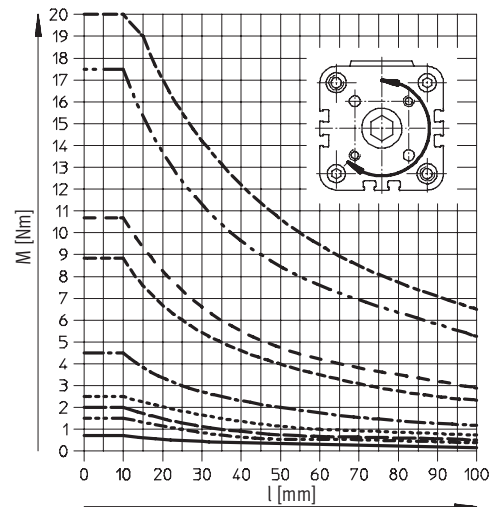
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Max. lateral force F_q as a function of the projection x



— $\varnothing$ 12/16
 - - - $\varnothing$ 20/25
 - - - $\varnothing$ 32
 - - - $\varnothing$ 40
 - - - $\varnothing$ 50/63
 - - - $\varnothing$ 80/100

Torque M as a function of the stroke length l



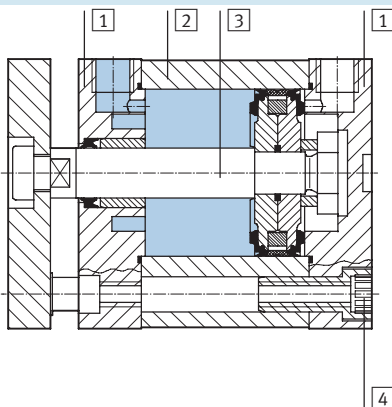
— $\varnothing$ 12/16
 - - - $\varnothing$ 20
 - - - $\varnothing$ 25
 - - - $\varnothing$ 32
 - - - $\varnothing$ 40
 - - - $\varnothing$ 50
 - - - $\varnothing$ 63
 - - - $\varnothing$ 80
 - - - $\varnothing$ 100

Weight [g]

Piston $\varnothing$	12	16	20	25	32	40	50	63	80	100
Product weight with 0 mm stroke	90	93	161	191	327	430	687	915	1678	2673
Additional weight per 10 mm stroke	14	16	26	28	38	45	64	72	97	116
Moving load with 0 mm stroke	22	29	60	85	122	164	287	373	778	1089
Additional load per 10 mm stroke	4	6	11	11	17	17	29	29	43	43

Materials

Sectional view



Compact cylinder	Basic version	S6
1 Cover	Anodised aluminium	
2 Cylinder barrel	Anodised aluminium	
3 Piston rod	High-alloy steel	
4 Flange screws	$\varnothing$ 12 ... 16	High-alloy steel
	$\varnothing$ 20 ... 63	Galvanised steel
	$\varnothing$ 80 ... 100	Standard screws, galvanised steel
- Seals	Polyurethane	Fluoro elastomer

Compact cylinders ADNGF, standard port pattern

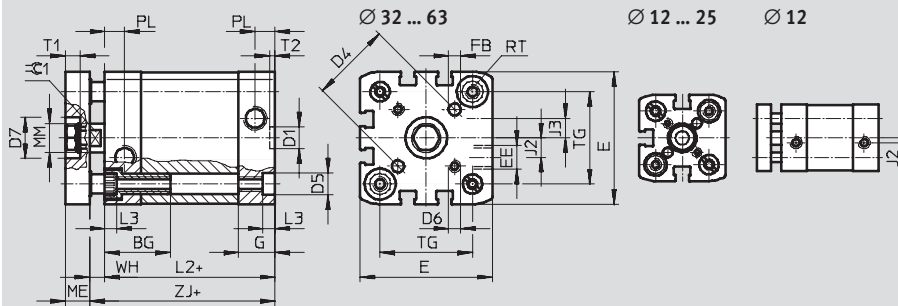
Technical data

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Dimensions – Basic version

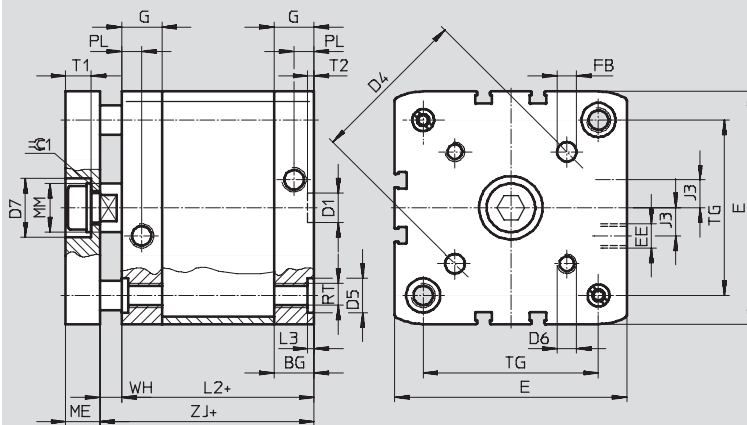
Download CAD data → www.festo.com

Ø 12 ... 63



+ = plus stroke length

Ø 80 ... 100



+ = plus stroke length

Ø [mm]	BG	D1 Ø H9	D4 Ø	D5 Ø F9	D6	D7 Ø H9	E	EE	FB Ø H8	G	J2	J3
12	17	9	12	6	M3	–	27.5 ^{+0.3}	M5	3	10.5	2	–
16			14				29 ^{+0.3}			11	2.6	
20	19.5		17	M4	35.5 ^{+0.3}	4	12					
25			22	9	M5	39.5 ^{+0.3}	5	15	6			
32	28	17	47 ^{+0.3}		8							
40	27	33			54.5 ^{+0.3}	6	11.5					
50		42	12		M6		65.5 ^{+0.3}		8	16.5		
63		50		22	75.5 ^{+0.3}							
80		17	12	65	15	M8	24	95.5 ^{+0.6}	8	21.5	20	
100	21.5	80		M10		113.5 ^{+0.6}	10					

Ø	L2	L3	ME	MM Ø h8	PL	RT	T1	T2	TG	WH	ZJ	≈C1	
[mm]	max.	+0.2			+0.2			+0.1	±0.2	+1	+1	h13	
12	35	3.5	6	6	6	M4	–	2.1	16	4.2	39.2	5	
16				8						18	4.9	39.9	7
20	37	5	8	10		M5			5	22	5.7	42.7	9
25	39				26		44.7						
32	44		10	12	8.2	M6	6		32.5	6.2	50.2	10	
40	45								38		51.2		
50		49	12	16		M8	7.5	2.6	46.5	8.2	53.2	13	
63	56.5								57.2				
80	54	2.6	14	20		10.5	M10	10.5	2.6	72	9	63	17
100	67									89		76	

Compact cylinders ADNGF, standard port pattern

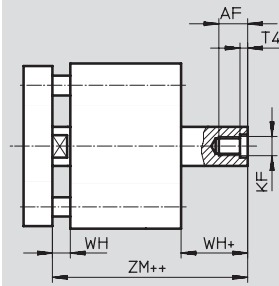
Technical data

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Dimensions – Variant

Download CAD data → www.festo.com

S2 – Through piston rod



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

Ø	AF	KF	T4	WH	ZJ	ZM
[mm]	min.			+1	+1	
12	8	M3	1.5	4.2	39.2	43.4
16	10	M4		4.9	39.9	44.8
20	14	M6	2.6	5.7	42.7	48.4
25					44.7	50.4
32	16	M8	3.3	6.2	50.2	56.4
40					51.2	57.4
50	20	M10	4.7	8.2	53.2	61.4
63					57.2	65.4
80		M12	6.1	9	63	71
100					76	84

Compact cylinders ADNGF, standard port pattern

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Technical data

Ordering data				
Type	Piston Ø [mm]	Stroke [mm]	Non-rotating with yoke	
			Part No.	Type
	12	5	554 205	ADNGF-12-5-P-A
		10	554 206	ADNGF-12-10-P-A
		15	554 207	ADNGF-12-15-P-A
		20	554 208	ADNGF-12-20-P-A
		25	554 209	ADNGF-12-25-P-A
		30	554 210	ADNGF-12-30-P-A
		40	554 211	ADNGF-12-40-P-A
	16	5	554 212	ADNGF-16-5-P-A
		10	554 213	ADNGF-16-10-P-A
		15	554 214	ADNGF-16-15-P-A
		20	554 215	ADNGF-16-20-P-A
		25	554 216	ADNGF-16-25-P-A
		30	554 217	ADNGF-16-30-P-A
		40	554 218	ADNGF-16-40-P-A
		50	554 219	ADNGF-16-50-P-A
	20	5	554 220	ADNGF-20-5-P-A
		10	554 221	ADNGF-20-10-P-A
		15	554 222	ADNGF-20-15-P-A
		20	554 223	ADNGF-20-20-P-A
		25	554 224	ADNGF-20-25-P-A
		30	554 225	ADNGF-20-30-P-A
		40	554 226	ADNGF-20-40-P-A
		50	554 227	ADNGF-20-50-P-A
		60	554 228	ADNGF-20-60-P-A
	25	5	554 229	ADNGF-25-5-P-A
		10	554 230	ADNGF-25-10-P-A
		15	554 231	ADNGF-25-15-P-A
		20	554 232	ADNGF-25-20-P-A
		25	554 233	ADNGF-25-25-P-A
		30	554 234	ADNGF-25-30-P-A
		40	554 235	ADNGF-25-40-P-A
		50	554 236	ADNGF-25-50-P-A
		60	554 237	ADNGF-25-60-P-A
	32	5	554 238	ADNGF-32-5-P-A
		10	554 239	ADNGF-32-10-P-A
		15	554 240	ADNGF-32-15-P-A
		20	554 241	ADNGF-32-20-P-A
		25	554 242	ADNGF-32-25-P-A
		30	554 243	ADNGF-32-30-P-A
		40	554 244	ADNGF-32-40-P-A
		50	554 245	ADNGF-32-50-P-A
		60	554 246	ADNGF-32-60-P-A
		80	554 247	ADNGF-32-80-P-A

Compact cylinders ADNGF, standard port pattern

Technical data

FESTO

Ordering data			
Type	Piston Ø [mm]	Stroke [mm]	Non-rotating with yoke
			Part No. Type
	40	5	554 248 ADNGF-40-5-P-A
		10	554 249 ADNGF-40-10-P-A
		15	554 250 ADNGF-40-15-P-A
		20	554 251 ADNGF-40-20-P-A
		25	554 252 ADNGF-40-25-P-A
		30	554 253 ADNGF-40-30-P-A
		40	554 254 ADNGF-40-40-P-A
		50	554 255 ADNGF-40-50-P-A
		60	554 256 ADNGF-40-60-P-A
		80	554 257 ADNGF-40-80-P-A
	50	5	554 258 ADNGF-50-5-P-A
		10	554 259 ADNGF-50-10-P-A
		15	554 260 ADNGF-50-15-P-A
		20	554 261 ADNGF-50-20-P-A
		25	554 262 ADNGF-50-25-P-A
		30	554 263 ADNGF-50-30-P-A
		40	554 264 ADNGF-50-40-P-A
		50	554 265 ADNGF-50-50-P-A
		60	554 266 ADNGF-50-60-P-A
		80	554 267 ADNGF-50-80-P-A
	63	10	554 268 ADNGF-63-10-P-A
		15	554 269 ADNGF-63-15-P-A
		20	554 270 ADNGF-63-20-P-A
		25	554 271 ADNGF-63-25-P-A
		30	554 272 ADNGF-63-30-P-A
		40	554 273 ADNGF-63-40-P-A
		50	554 274 ADNGF-63-50-P-A
		60	554 275 ADNGF-63-60-P-A
		80	554 276 ADNGF-63-80-P-A
	80	10	554 277 ADNGF-80-10-P-A
		15	554 278 ADNGF-80-15-P-A
		20	554 279 ADNGF-80-20-P-A
		25	554 280 ADNGF-80-25-P-A
		30	554 281 ADNGF-80-30-P-A
		40	554 282 ADNGF-80-40-P-A
		50	554 283 ADNGF-80-50-P-A
		60	554 284 ADNGF-80-60-P-A
		80	554 285 ADNGF-80-80-P-A
	100	10	554 286 ADNGF-100-10-P-A
		15	554 287 ADNGF-100-15-P-A
		20	554 288 ADNGF-100-20-P-A
		25	554 289 ADNGF-100-25-P-A
		30	554 290 ADNGF-100-30-P-A
		40	554 291 ADNGF-100-40-P-A
		50	554 292 ADNGF-100-50-P-A
		60	554 293 ADNGF-100-60-P-A
		80	554 294 ADNGF-100-80-P-A

Compact cylinders ADNGF, standard port pattern

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Ordering data – Modular products

M Mandatory data						O Options		
Module No.	Function	Size	Stroke	Cushioning	Position sensing	Type of piston rod	Temperature resistance	Captive rating plate
537 123	ADNGF	12	1 ... 400	P	A	S2		
537 124		16						
537 125		20						
537 126		25						
537 127		32						
537 128		40						
537 129		50						
537 130		63						
537 131		80						
537 132	100							
Order example								
537 128	ADNGF	- 40	- 250	- P	- A	- S2	- S6	- TL

Ordering table															
Size	12	16	20	25	32	40	50	63	80	100	Condi- tions	Code		Enter code	
M	Module No.	537123	537124	537125	537126	537127	537128	537129	537130	537131	537132				
	Function	Compact cylinder, double-acting, standard port pattern											ADNGF		
	Size [mm]	12	16	20	25	32	40	50	63	80	100		-...		
	Stroke [mm]	1 ... 200		3 ... 200		5 ... 300					5 ... 400			-...	
	Cushioning	Flexible cushioning rings/pads at both ends											-P		-P
	Position sensing	Via proximity sensor											-A		-A
O	Type of piston rod	Through piston rod											-S2		
	Temperature resistance	Heat-resistant seals up to max. 120 °C										1	-S6		
	Captive rating plate	Laser etched rating plate											-TL		

1 S6 Max. stroke: 250 mm

Transfer order code

	ADNGF	-		-		-	P	-	A	-		-		-	
--	-------	---	--	---	--	---	---	---	---	---	--	---	--	---	--

Compact cylinders ADNGF, standard port pattern

Accessories

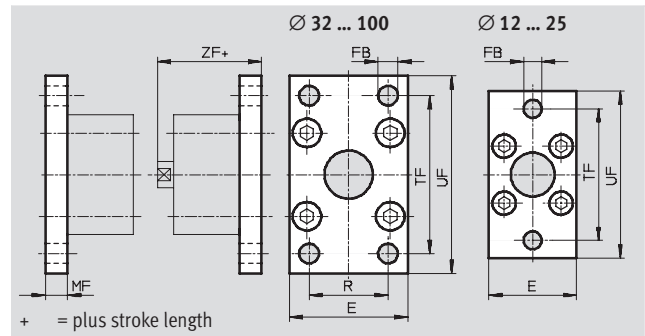
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Flange mounting FNC

Material:

Galvanised steel

Free of copper, PTFE and silicone



Dimensions and ordering data											
For Ø	E	FB Ø	MF	R	TF	UF	ZF	CRC ¹⁾	Weight	Part No.	Type
[mm]						±1			[g]		
12	28	5.5	8	-	40	50	48	2	80	537 245	FNC-12
16	29				43	55		2	90	537 246	FNC-16
20	36	6.6			55	70	51	2	145	537 247	FNC-20
25	40				60	76	53	2	170	537 248	FNC-25
32	45	7	10	32	64	80	60	2	240	174 376	FNC-32
40	54	9		36	72	90	61	2	280	174 377	FNC-40
50	65		12	45	90	110	65	2	520	174 378	FNC-50
63	75			50	100	120	69	2	690	174 379	FNC-63
80	93	12	16	63	126	150	79	2	1650	174 380	FNC-80
100	110	14		75	150	175	92	2	2400	174 381	FNC-100

1) Corrosion resistance class 2 to Festo standard 940 070

Components subject to moderate corrosion stress. 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

Compact cylinders ADNGF, standard port pattern

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Accessories

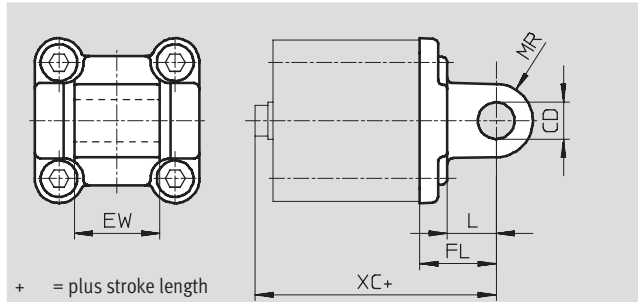
Swivel flange SNCL

Material:

SNCL: Die-cast aluminium

SNCL-...-R3: Die-cast aluminium with protective coating

Free of copper, PTFE and silicone



Dimensions and ordering data						
For Ø	CD	EW	FL	L	MR	XC
[mm]	Ø H9		±0.2			
12	6	12 _{h12}	16	10	6	56
16						
20	8	16 _{h12}	20	14	8	63
25						65
32	10	26 _{-0.2/-0.6}	22	13	10	72
40	12	28 _{-0.2/-0.6}	25	16	12	76
50		32 _{-0.2/-0.6}	27			80
63	16	40 _{-0.2/-0.6}	32	21	16	89
80		50 _{-0.2/-0.6}	36	22		99
100	20	60 _{-0.2/-0.6}	41	27	20	117

For Ø	Basic version				R3 – High corrosion protection			
	CRC ¹⁾	Weight	Part No.	Type	CRC ¹⁾	Weight	Part No.	Type
[mm]		[g]				[g]		
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	–	–	–	–

1) Corrosion resistance class 2 to Festo standard 940 070

Components subject to moderate corrosion stress. 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 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

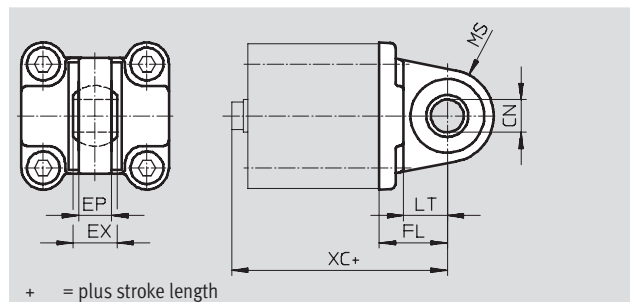
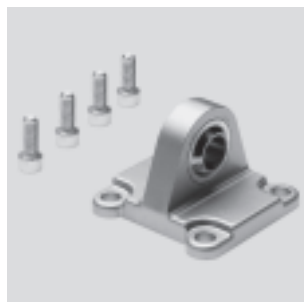
Compact cylinders ADNGF, standard port pattern

FESTO

Accessories

Swivel flange SNCS

Material:
Die-cast aluminium



Dimensions and ordering data													
For Ø	CN	EP	EX	FL	LT	MS	XC	CRC ¹⁾	Weight	Part No.	Type		
[mm]	Ø H7	±0.2		±0.2					[g]				
32	10	10.5	14	22	13	15	66	2	85	174 397	SNCS-32		
40	12	12	16	25	16	17	70	2	125	174 398	SNCS-40		
50	16	15	21	27	16	20	72	2	210	174 399	SNCS-50		
63	16	15	21	32	21	22	81	2	280	174 400	SNCS-63		
80	20	18	25	36	22	27	90	2	540	174 401	SNCS-80		
100	20	18	25	41	27	29	108	2	700	174 402	SNCS-100		

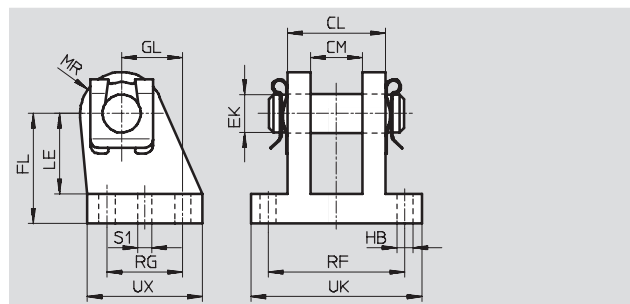
1) Corrosion resistance class 2 to Festo standard 940 070

Components subject to moderate corrosion stress. 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

Clevis foot LBG

The clevis foot is secured against rotation with a dowel pin.

Material:
Nodular graphite cast iron
Free of copper, PTFE and silicone



Dimensions and ordering data																	
For Ø	CL	CM	EK Ø	FL	GL	HB Ø	LE	MR	RF	RG	S1 Ø	UK	UX	CRC ¹⁾	Weight	Part No.	Type
[mm]															[g]		
32	28	14.1	10	32	16	6.8	24	12	42	20	4.8	56	36	2	220	31 761	LBG-32
40	30	16.1	12	36	20	6.8	26	14	44	26	5.8	58	41.5	2	300	31 762	LBG-40
50	40	21.1	16	45	25	9.2	33	15	56	31	5.8	70	47	2	540	31 763	LBG-50
63	40	21.1	16	50	25	9	38	17	56	31	7.8	70	47	2	580	31 764	LBG-63
80	50	25.1	20	63	30	11	49	18	70	36	7.8	89	57	2	1050	31 765	LBG-80
100	50	25.1	20	71	41	11	56	22	70	46	9.8	89	67.5	2	1375	31 766	LBG-100

1) Corrosion resistance class 2 to Festo standard 940 070

Components subject to moderate corrosion stress. 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

Compact cylinders ADNGF, standard port pattern

Accessories

FESTO

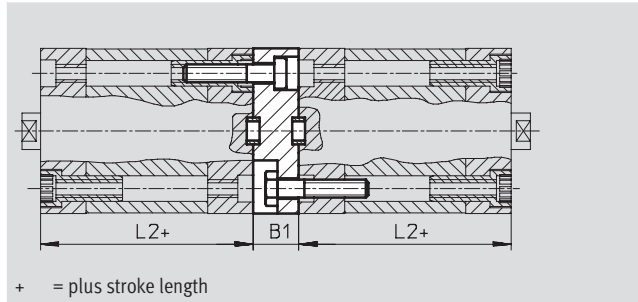
Multi-position kit DPNA

Material:

Flange: Aluminium

Screws: Galvanised steel

Free of copper, PTFE and silicone



 **Note**
The maximum overall stroke length may not be exceeded when combining cylinders and multi-position kits.

Dimensions and ordering data						
For Ø	L2	B1	Max. overall stroke length	CRC ¹⁾	Part No.	Type
[mm]			[mm]			
12	35	13	600	2	537 263	DPNA-12
16			600	2	537 264	DPNA-16
20			600	2	537 265	DPNA-20
25			600	2	537 266	DPNA-25
32	44		800	2	537 267	DPNA-32
40	45	15	800	2	537 268	DPNA-40
50			800	2	537 269	DPNA-50
63	49		800	2	537 270	DPNA-63
80	54	17	1000	2	537 271	DPNA-80
100	67	19.5	1000	2	537 272	DPNA-100

1) Corrosion resistance class 2 to Festo standard 940 070

Components subject to moderate corrosion stress. 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

Compact cylinders ADNGF, standard port pattern

FESTO

Accessories

Swivel flange

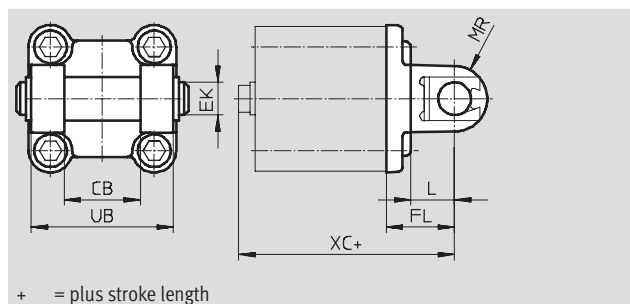
SNCB/SNCB-...-R3

Material:

SNCB: Die-cast aluminium

SNCB-...-R3: Die-cast aluminium with protective coating, high corrosion protection

Free of copper, PTFE and silicone



Dimensions and ordering data							
For Ø	CB	EK Ø	FL	L	MR	UB	XC
[mm]	H14	e8	±0.2			h14	
32	26	10	22	13	8.5	45	72
40	28	12	25	16	12	52	76
50	32	12	27	16	12	60	80
63	40	16	32	21	16	70	89
80	50	16	36	22	16	90	99
100	60	20	41	27	20	110	117

For Ø [mm]	Basic version				R3 – High corrosion protection			
	CRC ¹⁾	Weight [g]	Part No.	Type	CRC ¹⁾	Weight [g]	Part No.	Type
32	2	100	174 390	SNCB-32	3	100	176 944	SNCB-32-R3
40	2	150	174 391	SNCB-40	3	150	176 945	SNCB-40-R3
50	2	225	174 392	SNCB-50	3	225	176 946	SNCB-50-R3
63	2	365	174 393	SNCB-63	3	365	176 947	SNCB-63-R3
80	2	610	174 394	SNCB-80	3	610	176 948	SNCB-80-R3
100	2	925	174 395	SNCB-100	3	925	176 949	SNCB-100-R3

1) Corrosion resistance class 2 to Festo standard 940 070

Components subject to moderate corrosion stress. 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 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

Compact cylinders ADNGF, standard port pattern

FESTO

Accessories

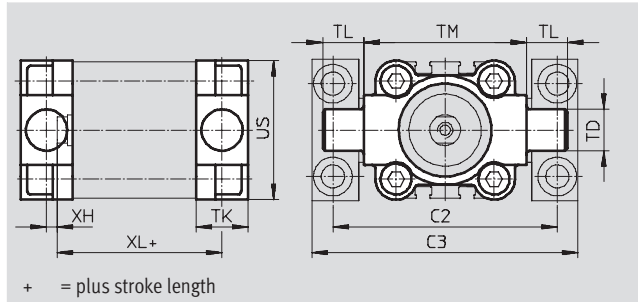
Trunnion flange ZNCF/CRZNG

Material:

ZNCF: Special steel casting

CRZNG: Electrolytically polished special steel casting

Free of copper, PTFE and silicone



Dimensions and ordering data									
For Ø	C2	C3	TD Ø e9	TK	TL	TM	US	XH	XL
[mm]									
32	71	86	12	16	12	50	45	2	52
40	87	105	16	20	16	63	54	4	55
50	99	117	16	24	16	75	64	4	57
63	116	136	20	24	20	90	75	4	61
80	136	156	20	28	20	110	93	5	81
100	164	189	25	38	25	132	110	10	86

For Ø [mm]	Basic version				R3 – High corrosion protection			
	CRC ¹⁾	Weight [g]	Part No.	Type	CRC ¹⁾	Weight [g]	Part No.	Type
32	2	130	174 411	ZNCF-32	4	150	161 852	CRZNG-32
40	2	240	174 412	ZNCF-40	4	260	161 853	CRZNG-40
50	2	390	174 413	ZNCF-50	4	430	161 854	CRZNG-50
63	2	600	174 414	ZNCF-63	4	640	161 855	CRZNG-63
80	2	1150	174 415	ZNCF-80	4	1300	161 856	CRZNG-80
100	2	2030	174 416	ZNCF-100	4	2400	161 857	CRZNG-100

1) Corrosion resistance class 2 to Festo standard 940 070

Components subject to moderate corrosion stress. 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 4 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

Compact cylinders ADNGF, standard port pattern

Accessories

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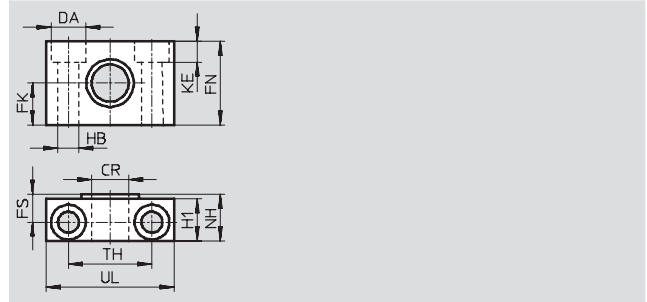
Trunnion support LN2G

Material:

Trunnion support: Anodised aluminium

Plain bearing: Plastic

Free of copper, PTFE and silicone



Dimensions and ordering data															
For Ø	CR Ø	DA Ø	FK Ø	FN	FS	H1	HB Ø	KE	NH	TH	UL	CRC ¹⁾	Weight	Part No.	Type
[mm]	D11	H13	±0.1				H13			±0.2			[g]		
32	12	11	15	30	10.5	15	6.6	6.8	18	32	46	2	125	32 959	LNZG-32
40, 50	16	15	18	36	12	18	9	9	21	36	55	2	400	32 960	LNZG-40/50
63, 80	20	18	20	40	13	20	11	11	23	42	65	2	480	32 961	LNZG-63/80
100	25	20	25	50	16	24.5	14	13	28.5	50	75	2	960	32 962	LNZG-100/125

1) Corrosion resistance class 2 to Festo standard 940 070

Components subject to moderate corrosion stress. 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

Compact cylinders ADNGF, standard port pattern

Accessories

FESTO

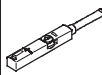
Ordering data – One-way flow control valves				Technical data → Internet: grl	
	Connection		Material	Part No.	Type
	For Ø	For tubing O.D.			
For exhaust air					
	12, 16, 20, 25	3	Metal design	193 137	GRLA-M5-QS-3-D
		4		193 138	GRLA-M5-QS-4-D
		6		193 139	GRLA-M5-QS-6-D
	32, 40, 50, 63, 80, 100	3		193 142	GRLA-1/8-QS-3-D
		4		193 143	GRLA-1/8-QS-4-D
		6		193 144	GRLA-1/8-QS-6-D
		8		193 145	GRLA-1/8-QS-8-D
For supply air					
	12, 16, 20, 25	3	Metal design	193 153	GRLZ-M5-QS-3-D
		4		193 154	GRLZ-M5-QS-4-D
		6		193 155	GRLZ-M5-QS-6-D
	32, 40, 50, 63, 80, 100	3		193 156	GRLZ-1/8-QS-3-D
		4		193 157	GRLZ-1/8-QS-4-D
		6		193 158	GRLZ-1/8-QS-6-D
		8		193 159	GRLZ-1/8-QS-8-D

Compact cylinders ADNGF, standard port pattern

Accessories

FESTO

Ordering data – Proximity sensors for T-slot, magneto-resistive					Technical data → Internet: smt	
	Type of mounting	Switch output	Electrical connection	Cable length [m]	Part No.	Type
N/O contact						
	Insertable in the slot from above, flush with cylinder profile	PNP	Cable, 3-wire	2.5	543 867	SMT-8M-PS-24V-K-2,5-OE
			Plug M8x1, 3-pin	0.3	543 866	SMT-8M-PS-24V-K-0,3-M8D
			Plug M12x1, 3-pin	0.3	543 869	SMT-8M-PS-24V-K-0,3-M12
		NPN	Cable, 3-wire	2.5	543 870	SMT-8M-NS-24V-K-2,5-OE
			Plug M8x1, 3-pin	0.3	543 871	SMT-8M-NS-24V-K-0,3-M8D
	Insertable in the slot lengthwise, flush with the cylinder profile	PNP	Cable, 3-wire	2.5	175 436	SMT-8-PS-K-LED-24-B
			Plug M8x1, 3-pin	0.3	175 484	SMT-8-PS-S-LED-24-B
N/C contact						
	Insertable in the slot from above, flush with cylinder profile	PNP	Cable, 3-wire	7.5	543 873	SMT-8M-PO-24V-K7,5-OE

Ordering data – Proximity sensors for T-slot, magnetic reed					Technical data → Internet: sme	
	Type of mounting	Switch output	Electrical connection	Cable length [m]	Part No.	Type
N/O contact						
	Insertable in the slot from above, flush with cylinder profile	Contacting	Cable, 3-wire	2.5	543 862	SME-8M-DS-24V-K-2,5-OE
				5.0	543 863	SME-8M-DS-24V-K-5,0-OE
			Cable, 3-wire	2.5	543 872	SME-8M-ZS-24V-K-2,5-OE
			Plug M8x1, 3-pin	0.3	543 861	SME-8M-DS-24V-K-0,3-M8D
	Insertable in the slot lengthwise, flush with the cylinder profile	Contacting	Cable, 3-wire	2.5	150 855	SME-8-K-LED-24
			Plug M8x1, 3-pin	0.3	150 857	SME-8-S-LED-24
N/C contact						
	Insertable in the slot lengthwise, flush with the cylinder profile	Contacting	Cable, 3-wire	7.5	160 251	SME-8-O-K-LED-24

Ordering data – Connecting cables				Technical data → 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	541 333	NEBU-M8G3-K-2.5-LE3
			5	541 334	NEBU-M8G3-K-5-LE3
	Straight socket, M12x1, 5-pin	Cable, open end, 3-wire	2.5	541 363	NEBU-M12G5-K-2.5-LE3
			5	541 364	NEBU-M12G5-K-5-LE3
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541 338	NEBU-M8W3-K-2.5-LE3
			5	541 341	NEBU-M8W3-K-5-LE3
	Angled socket, M12x1, 5-pin	Cable, open end, 3-wire	2.5	541 367	NEBU-M12W5-K-2.5-LE3
			5	541 370	NEBU-M12W5-K-5-LE3

Compact cylinders ADNGF, standard port pattern

Accessories

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Ordering data – Rectangular proximity sensors, pneumatic			Technical data → Internet: smpo	
	Pneumatic connection		Part No.	Type
3/2-way valve, normally closed				
	Female thread M5		178 563	SMPO-8E

Ordering data – Mounting kit for proximity sensors SMPO-8E			Technical data → Internet: smb	
	Assembly		Part No.	Type
	Clamped in T-slot		178 230	SMB-8E

Ordering data – Slot cover for T-slot				
	Assembly	Length	Part No.	Type
	Insertable from above	2x 0.5 m	151 680	ABP-5-S