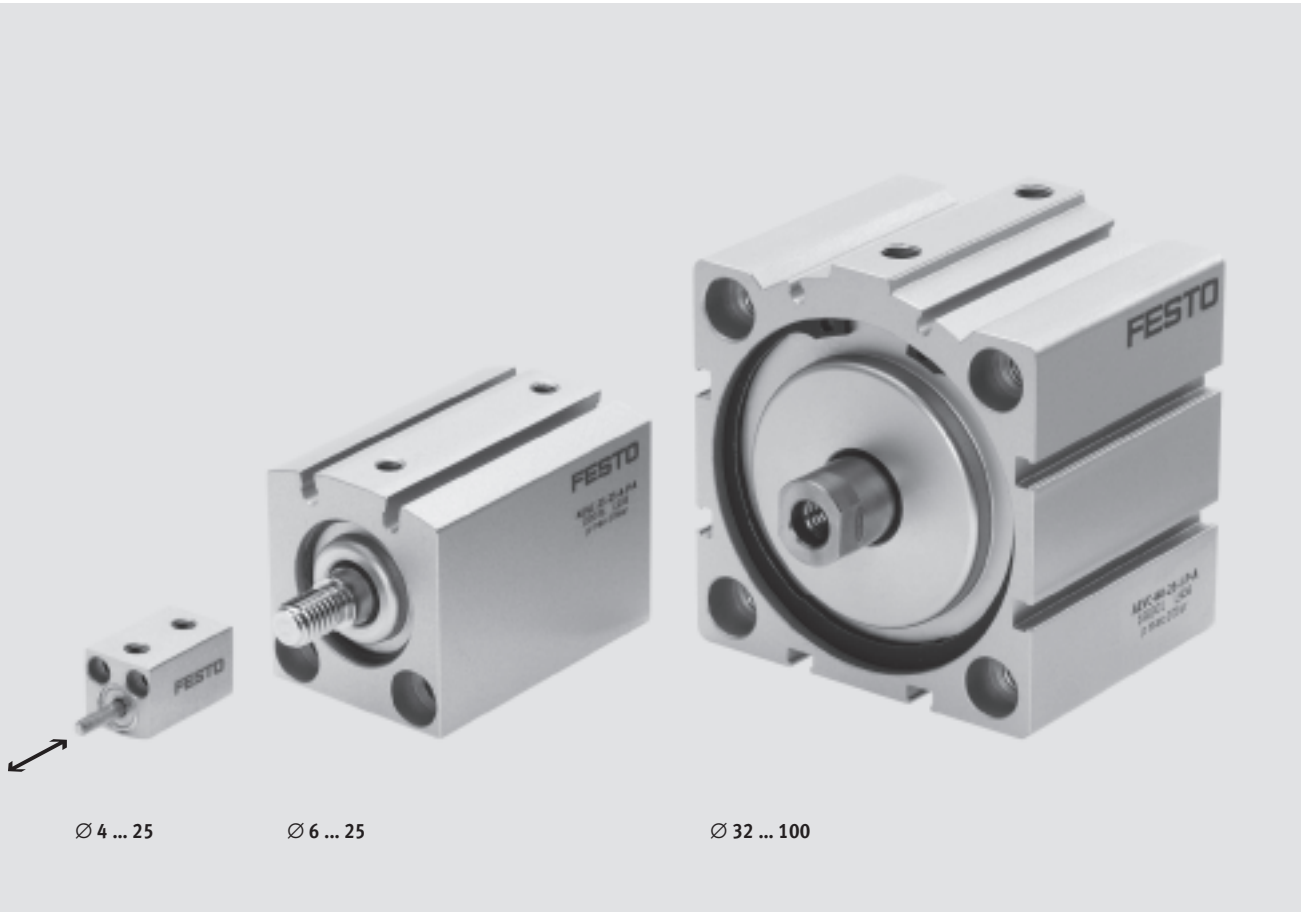
FESTO

- Compact short-stroke cylinders with standard port pattern from ∅ 32 mm
- Optimised fitting space and height
- Adaptable housing and piston rod variants for individual applications

Short-stroke cylinders ADVC/AEVC

Key features



∅ 4 ... 25 ∅ 6 ... 25 ∅ 32 ... 100

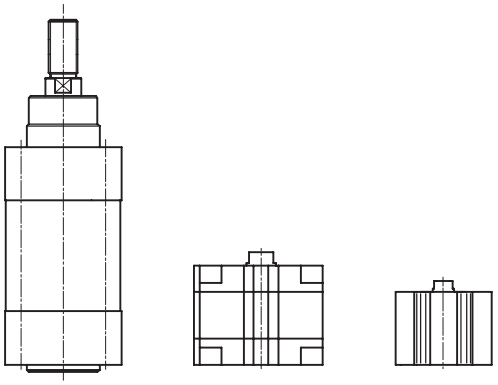
Brief description

- Ø - Diameter 4 ... 100 mm
- I - Stroke length 2.5 ... 25 mm

Short-stroke cylinders are ideal for clamping tasks with short strokes, e.g. in retaining devices.

The cylinders offer:
- Rapid response with applied pressure
- Large clamping forces in comparison to their size
- Minimal installation space
- Integrated sensor slots for contacting or contactless proximity sensors
- Mounting hole pattern to VDMA 24 562 for ∅ 32 ... 100 mm

Fitting space comparison with 10 mm stroke

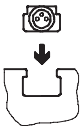


100%
Standard cylinder
DNC

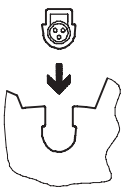
45%
Compact cylinder
ADVU

33%
Short-stroke cylinder
ADVC

Sensor slots



T-slot for proximity sensor SME/SMT-8



C-slot for proximity sensor SME/SMT-10

Short-stroke cylinders ADVC/AEVC

Type codes

Type	
ADVC	Double acting short stroke cylinder
AEVC	Single-acting short stroke cylinder

Piston ∅ [mm]

Stroke [mm]

Piston rod thread	
A	Male thread
I	Female thread
	Without thread

Cushioning	
P	Flexible cushioning rings/plates at both ends

Position sensing	
	No position sensing
A	For proximity sensing

Short-stroke cylinders ADVC/AEVC

Product range overview

Function	Version	Type	Piston ∅ [mm]	Stroke [mm]	Position sensing
Double-acting	**Without position sensing**				
		ADVC ∅ 4 ... 25	4	2.5; 5	–
			6, 10, 12	5, 10	
			16, 20, 25	5, 10, 15, 20, 25	
		ADVC ∅ 32 ... 100	32, 40	5, 10, 15, 20, 25	–
			50, 63, 80, 100	10, 15, 20, 25	
	With position sensing				
		ADVC-...-A ∅ 6 ... 25	6, 10, 12	5, 10	■
			16, 20, 25	5, 10, 15, 20, 25	
		ADVC-...-A ∅ 32 ... 100	32, 40	5, 10, 15, 20, 25	■
			50, 63, 80, 100	10, 15, 20, 25	
Single-acting	**Without position sensing**				
		AEVC ∅ 4 ... 25	4	2.5; 5	–
			6, 10, 12	5, 10	
			16, 20, 25	5, 10, 25	
		AEVC ∅ 32 ... 100	32	5, 10, 25	–
			40, 50, 63, 80, 100	10, 25	
	With position sensing				
		AEVC-...-A ∅ 6 ... 25	6, 10, 12	5, 10	■
			16, 20, 25	5, 10, 25	
		AEVC-...-A ∅ 32 ... 100	32	5, 10, 25	■
			40, 50, 63, 80, 100	10, 25	

Short-stroke cylinders ADVC/AEVC

Product range overview

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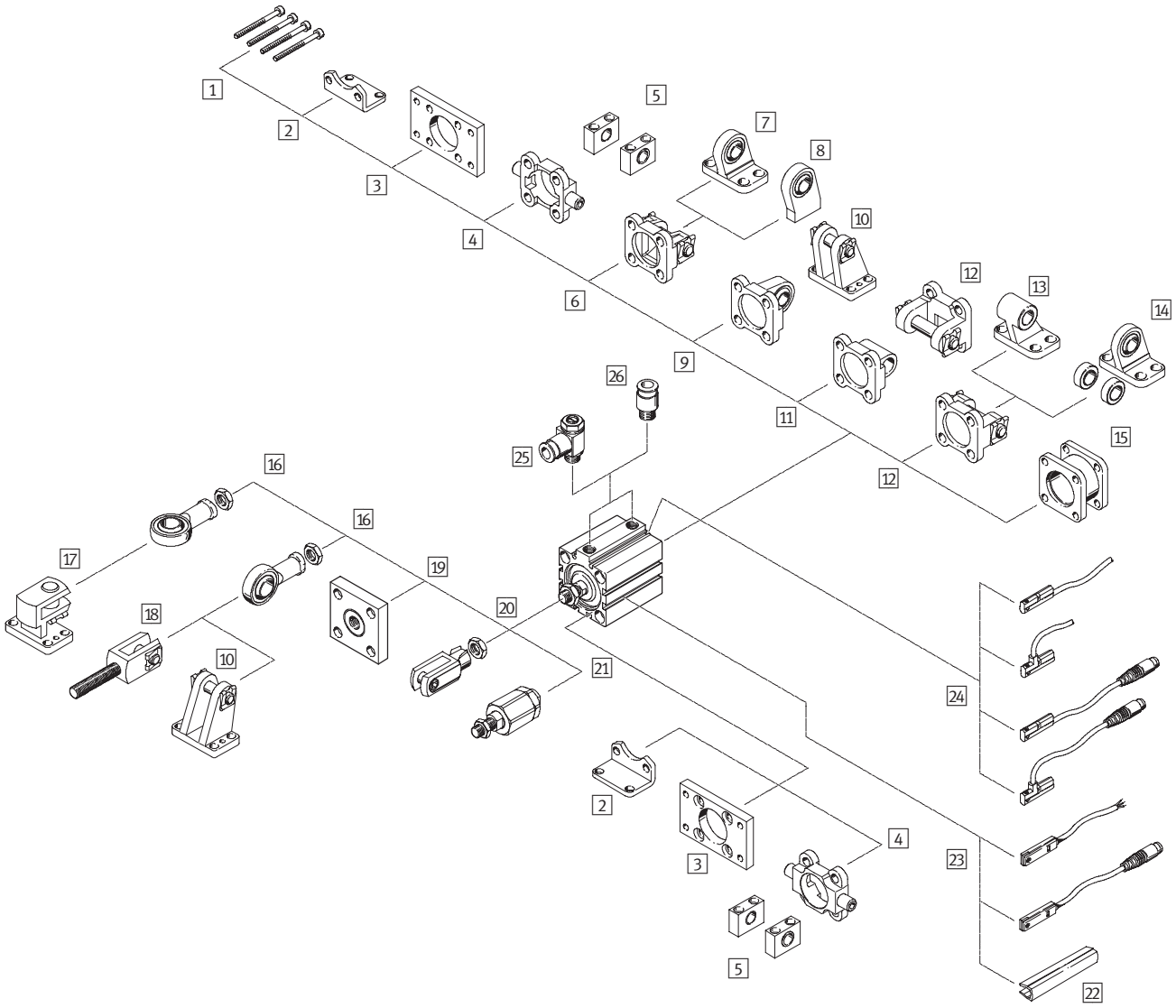
Type	Piston rod			Cushioning	➔ Page/Internet
	With male thread	With female thread	Without thread		
Without position sensing					
ADVC ∅ 4 ... 25	■	■ From ∅ 12	■ ∅ 4 ... 12	■	8
ADVC ∅ 32 ... 100	■	■	–	■	8
With position sensing					
ADVC-...-A ∅ 6 ... 25	■	■ From ∅ 12	■ ∅ 6 ... 12	■	15
ADVC-...-A ∅ 32 ... 100	■	■	–	■	15
Without position sensing					
AEVC ∅ 4 ... 25	■	■ From ∅ 12	■ ∅ 4 ... 12	■	21
AEVC ∅ 32 ... 100	■	■	–	■	21
With position sensing					
AEVC-...-A ∅ 6 ... 25	■	■ From ∅ 12	■ ∅ 6 ... 12	■	28
AEVC-...-A ∅ 32 ... 100	■	■	–	■	28

Short-stroke cylinders ADVC/AEVC

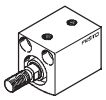
Peripherals overview

∅ 32 ... 100 mm



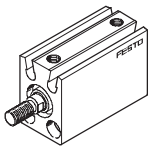
∅ 4 ... 25 mm

Without position sensing



∅ 6 ... 25 mm

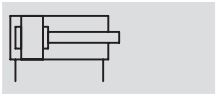
With position sensing



Mounting attachments and accessories						
		Brief description	Piston ∅			→ Page/Internet
			4, 6, 12	10, 16 ... 25	32 ... 100	
1	Mounting screws	Not included in scope of delivery	■ DIN 84	■ DIN 912	■ DIN 912	–
1	Mounting screws for ∅ 80, 100	Not included in scope of delivery	–	–	■	43
2	Foot mounting HNC	For bearing and end caps	–	–	■	35
3	Flange mounting FNC	For bearing or end caps	–	–	■	36
4	Trunnion flange ZNCF	For bearing or end caps	–	–	■	37
5	Trunnion support LNZG	–	–	–	■	38
6	Swivel flange SNC	For end caps	–	–	■	39
7	Clevis foot LSNG	With spherical bearing	–	–	■	43
8	Clevis foot LSNSG	Weld-on, with spherical bearing	–	–	■	43
9	Swivel flange SNCS	With spherical bearing for end caps	–	–	■	41
10	Clevis foot LBG	–	–	–	■	43
11	Swivel flange SNCL	For end caps	–	–	■	42
12	Swivel flange SNCB	For end caps	–	–	■	40
13	Clevis foot LNG	–	–	–	■	43
14	Clevis foot LSN	With spherical bearing	–	–	■	43
15	Adapter kit DPNC	For connecting two cylinders with identical piston diameter to form a multi-position cylinder	–	–	■	34
16	Rod eye SGS	With spherical bearing	–	■	■	44
17	Right-angle clevis foot LQG	–	–	■	■	43
18	Rod clevis SGA	With male thread	–	–	■	44
19	Coupling piece KSG	For compensating radial deviations	–	–	■	44
20	Rod clevis SG	Permits a swivelling movement of the cylinder in one plane	–	■	■	44
21	Self-aligning rod coupler FK	For compensating radial and angular deviations	■ ∅ 12	■	■	44
22	Slot cover ABP-5-S	To protect the sensor cable and keep dirt out of the sensor slots	–	–	■	45
23	Proximity sensors SME/SMT-8	Can be integrated in the cylinder profile barrel	–	–	■	45
24	Proximity sensors SME/SMT-10	Can be integrated in the cylinder profile barrel	–	■	■	46
25	One-way flow control valve GRLA	To regulate speed	■	■	■	46
26	Push-in fitting QS	For connecting compressed air tubing with standard external diameters	■	■	■	quick star

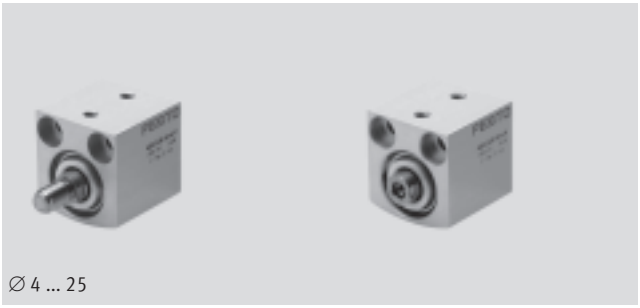
Short-stroke cylinders ADVC

Technical data, double-acting – without position sensing

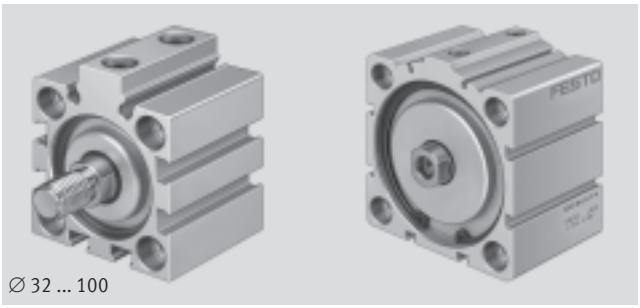


- Ø - Diameter
  4 ... 100 mm

- I - Stroke length
  2.5 ... 25 mm



∅ 4 ... 25



∅ 32 ... 100

General technical data													
Piston ∅	4	6	10	12	16	20	25	32	40	50	63	80	100
Pneumatic connection	M3	M3	M5	M5	M5	M5	M5	G1/8	G1/8	G1/8	G1/8	G1/8	G1/4
Piston rod with female thread	–	–	–	■	■	■	■	■	■	■	■	■	■
Piston rod with male thread	■	■	■	■	■	■	■	■	■	■	■	■	■
Piston rod without thread	■	■	■	■	–	–	–	–	–	–	–	–	–
Operating medium	Filtered compressed air, lubricated or unlubricated												
Constructional design	Piston												
	Piston rod												
Cushioning	Flexible cushioning rings/plates at both ends												
Type of mounting	Via through-holes							Via through-holes					
	–							Via accessories					
Mounting position	Any												

Operating conditions													
Piston ∅		4	6	10	12	16	20	25	32	40	50	63	80	100
Operating pressure	[bar]	2 ... 8	1.5 ... 8	1 ... 8	1 ... 10				0.6 ... 10					
Ambient temperature	[°C]	–20 ... +80												
Corrosion resistance class CRC[1)]		1												

1) Corrosion resistance class 1 according to Festo standard 940 070
Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers

Short-stroke cylinders ADVC

Technical data, double-acting – without position sensing

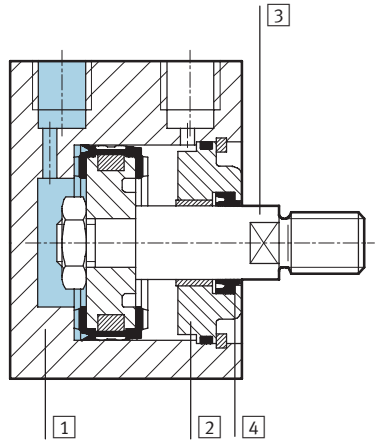
Forces [N] and impact energy [J]													
Piston ∅	4	6	10	12	16	20	25	32	40	50	63	80	100
Theoretical force at 6 bar, advancing	7.5	17	47	68	121	189	295	483	754	1,178	1,870	3,016	4,712
Theoretical force at 6 bar, returning	5.7	13	40	51	91	141	247	415	686	1,056	1,750	2,847	4,418
Max. impact energy at end positions	0.003	0.005	0.03	0.06	0.10	0.14	0.18	0.26	0.36	0.60	0.64	0.90	1.20

Product weight [g]													
Stroke [mm]	Piston ∅												
	4	6	10	12	16	20	25	32	40	50	63	80	100
2.5	4	–	–	–	–	–	–	–	–	–	–	–	–
5	4.5	12.5	23	34	68	112	135	280	350	–	–	–	–
10	–	16	26	42	76	124	150	300	380	470	600	1,570	2,480
15	–	–	–	–	84	136	165	320	410	505	650	1,655	2,570
20	–	–	–	–	92	148	180	340	440	540	700	1,740	2,660
25	–	–	–	–	100	160	195	360	470	575	750	1,825	2,750

Moving load [g]													
Stroke [mm]	Piston ∅												
	4	6	10	12	16	20	25	32	40	50	63	80	100
2.5	0.2	–	–	–	–	–	–	–	–	–	–	–	–
5	0.25	1.2	2.8	6.6	11	22	27	46	69	–	–	–	–
10	–	1.5	3.3	7.7	13	25	30	51	74	127	178	339	719
15	–	–	–	–	15	28	33	56	79	135	186	351	739
20	–	–	–	–	17	31	36	61	84	143	194	363	759
25	–	–	–	–	19	34	39	66	89	151	202	375	779

Materials

Sectional view

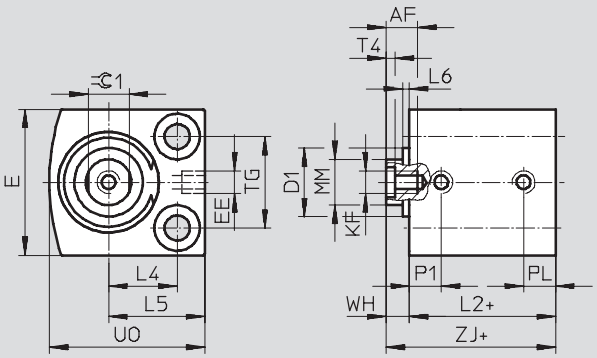


Short-stroke cylinder		∅ 4	∅ 6 ... 100
1	Cylinder barrel	Anodised aluminium	Anodised aluminium
2	Cover cap	Anodised aluminium	Anodised aluminium
3	Piston rod	Anodised aluminium	High-alloy steel
4	Rod seal	Nitrile rubber	Polyurethane
	Note on material	Free of copper, PTFE and silicone	Free of copper, PTFE and silicone

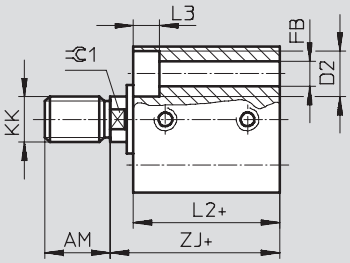
Dimensions Download CAD data ➔ **www.festo.com**

∅ 4 ... 25 mm

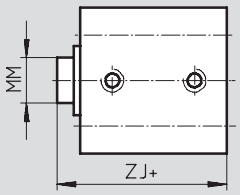
ADVC-...-I-P
Piston rod with female thread



ADVC-...-A-P
Piston rod with male thread



ADVC-...-P
Piston rod without thread



- - Note

∅ 4 mm
Do not exceed maximum screw-in depth of 3 mm and maximum tightening torque of 0.7 Nm.

∅ 10 mm
Depending on tolerance, the bearing cap may project by up to 0.65 mm.

∅ 12 mm
Depending on tolerance, the bearing cap may project by up to 0.35 mm.

\+ = plus stroke length

Short-stroke cylinders ADVC

Technical data, double-acting – without position sensing

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∅ [mm]	Stroke [mm]	AF min.	AM –0.5	D1 ∅ max.	D2 ∅	E max.	EE	FB ∅	KF	KK	L2 +0.2	L3
4	2.5	–	6	–	3.3 $^{+0.1}$	10	M3	1.8	–	M2	10.5	1.8
	5											
6	5	–	6	–	5 $^{+0.1}$	13	M3	2.9	–	M3	11	2.9
	10											
10	5	–	8	7.5	5.8 $^{+0.1}$	18	M5	3.4	–	M4	16	3.4
	10										14	
12	5	8	8	10.7	6 ^{H13}	20	M5	3.4	M3	M5	18	3.4
	10											
16	5	10	12	–	8 ^{H13}	25	M5	4.5	M4	M6	18	4.6
	10											
	15											
	20											
	25											
20	5	12	12	–	10 ^{H13}	32	M5	5.5	M5	M8	22	5.7
	10											
	15											
	20											
	25											
25	5	12	12	–	10 ^{H13}	38	M5	5.5	M5	M8	22.5	5.7
	10											
	15											
	20											
	25											

∅ [mm]	Stroke [mm]	L4	L5	L6 max.	MM ∅	P1	PL	T4	TG ±0.1	UO max.	WH	ZJ ±0.8	⌯1
4	2.5	4	6.5	–	2	3.7	3.2	–	5.8	10	1	11.5	–
	5												
6	5	6	9	–	3	4.7	3	–	7	14	1	12	–
	10												
10	5	8	11.5	0.7	4	5.2	5.2	–	11	19	1.5	17.5	–
	10					6	5.5					15.5	
12	5	9	13	0.4	6	5.75	5.75	1.5	13	22	4	22	5
	10					9	6						
16	5	11.5	16.5	–	8	6	6	2	15	27	4	22	7
	10					7.5							
	15												
	20												
	25												
20	5	15	21	–	10	7.5	7	2	20	34	5	27	9
	10												
	15												
	20												
	25												
25	5	15.5	21.5	–	10	8	6.5	2	26	37	5	27.5	9
	10												
	15												
	20												
	25												

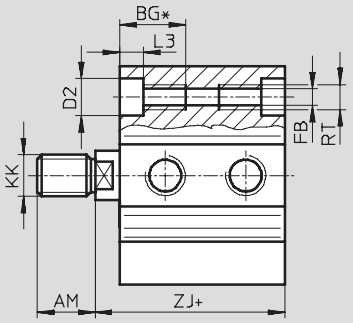
Short-stroke cylinders ADVC

Technical data, double-acting – without position sensing

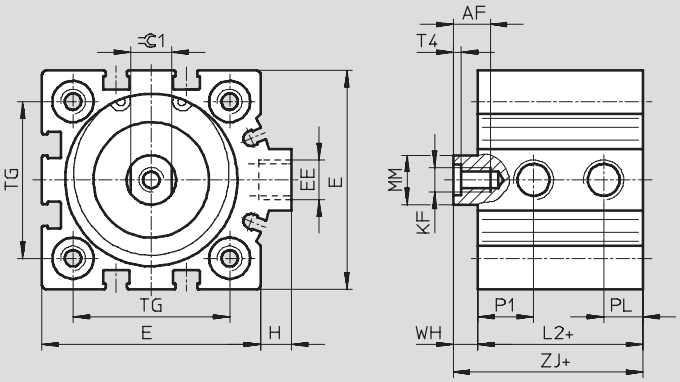
Dimensions Download CAD data ➔ **www.festo.com**

∅ 32 ... 100 mm

ADVC-...-I-P
Piston rod with female thread



ADVC-...-A-P**
Piston rod with male thread



\+ = plus stroke length

∅ [mm]	AF min.	AM −0.5	BG* min.	D2 ∅ F9	E max.	EE	FB ∅	H	KF	KK
32	12	14	21.7	9	45	G1⁄8	5.2	7	M6	M10x1.25
40	12	14	21.7	9	53.5	G1⁄8	5.2	7	M6	M10x1.25
50	16	16	22.8	11	63.5	G1⁄8	6.8	7	M8	M12x1.25
63	16	16	22.8	11	75	G1⁄8	6.8	7.5	M8	M12x1.25
80	20	22	25	14	93	G1⁄8	8.5	7	M10	M16x1.5
100	24	28	25	14	113	G1⁄4	8.5	13	M12	M20x1.5

∅ [mm]	L2 +0.2	L3	MM ∅	P1	PL	RT	T4	TG ±0.1	WH	ZJ ±0.8	⌯1
32	29	5.7	12	9	8.5	M6	2.6	32.5	6	35	10
40	29.5	5.7	12	11	9	M6	2.6	38	6	35.5	10
50	28	6.8	16	11.3	9.5	M8	3.3	46.5	8	36	13
63	35	6.8	16	12.5	11.5	M8	3.3	56.5	8	43	13
80	40	9	20	15	15	M10	4.7	72	8	48	17
100	49	9	25	16.5	19	M10	6.1	89	10	59	22

* Continuous thread with short overall length
** Nut for piston rod thread included in scope of delivery

Short-stroke cylinders ADVC

Technical data, double-acting – without position sensing

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Ordering data										
Type	Piston ∅ [mm]	Stroke [mm]	Piston rod with male thread			Piston rod with female thread			Piston rod without thread	
			Part No.	Type		Part No.	Type		Part No.	Type
	4	2.5	**188 054**	**ADVC-4-2,5-A-P**		–			**526 897**	**ADVC-4-2,5-P**
		5	**188 055**	**ADVC-4-5-A-P**					**526 898**	**ADVC-4-5-P**
	6	5	**188 066**	**ADVC-6-5-A-P**		–			**526 899**	**ADVC-6-5-P**
		10	**188 067**	**ADVC-6-10-A-P**					**526 900**	**ADVC-6-10-P**
	10	5	**188 078**	**ADVC-10-5-A-P**		–			**526 903**	**ADVC-10-5-P**
		10	**188 079**	**ADVC-10-10-A-P**					**526 904**	**ADVC-10-10-P**
	12	5	**188 094**	**ADVC-12-5-A-P**		**188 090**	**ADVC-12-5-I-P**		**530 568**	**ADVC-12-5-P**
		10	**188 095**	**ADVC-12-10-A-P**		**188 091**	**ADVC-12-10-I-P**		**530 569**	**ADVC-12-10-P**
	16	5	**188 123**	**ADVC-16-5-A-P**		**188 113**	**ADVC-16-5-I-P**		–	
		10	**188 124**	**ADVC-16-10-A-P**		**188 114**	**ADVC-16-10-I-P**			
		15	**188 125**	**ADVC-16-15-A-P**		**188 115**	**ADVC-16-15-I-P**			
		20	**188 126**	**ADVC-16-20-A-P**		**188 116**	**ADVC-16-20-I-P**			
		25	**188 127**	**ADVC-16-25-A-P**		**188 117**	**ADVC-16-25-I-P**			
	20	5	**188 155**	**ADVC-20-5-A-P**		**188 145**	**ADVC-20-5-I-P**		–	
		10	**188 156**	**ADVC-20-10-A-P**		**188 146**	**ADVC-20-10-I-P**			
		15	**188 157**	**ADVC-20-15-A-P**		**188 147**	**ADVC-20-15-I-P**			
		20	**188 158**	**ADVC-20-20-A-P**		**188 148**	**ADVC-20-20-I-P**			
		25	**188 159**	**ADVC-20-25-A-P**		**188 149**	**ADVC-20-25-I-P**			
	25	5	**188 187**	**ADVC-25-5-A-P**		**188 177**	**ADVC-25-5-I-P**		–	
		10	**188 188**	**ADVC-25-10-A-P**		**188 178**	**ADVC-25-10-I-P**			
		15	**188 189**	**ADVC-25-15-A-P**		**188 179**	**ADVC-25-15-I-P**			
		20	**188 190**	**ADVC-25-20-A-P**		**188 180**	**ADVC-25-20-I-P**			
		25	**188 191**	**ADVC-25-25-A-P**		**188 181**	**ADVC-25-25-I-P**			

Short-stroke cylinders ADVC

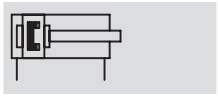
Technical data, double-acting – without position sensing

FESTO

Ordering data						
Type	Piston ∅ [mm]	Stroke [mm]	Piston rod with male thread Part No.	Type	Piston rod with female thread Part No.	Type
	32	5	**188 219**	**ADVC-32-5-A-P**	**188 209**	**ADVC-32-5-I-P**
		10	**188 220**	**ADVC-32-10-A-P**	**188 210**	**ADVC-32-10-I-P**
		15	**188 221**	**ADVC-32-15-A-P**	**188 211**	**ADVC-32-15-I-P**
		20	**188 222**	**ADVC-32-20-A-P**	**188 212**	**ADVC-32-20-I-P**
		25	**188 223**	**ADVC-32-25-A-P**	**188 213**	**ADVC-32-25-I-P**
	40	5	**188 247**	**ADVC-40-5-A-P**	**188 237**	**ADVC-40-5-I-P**
		10	**188 248**	**ADVC-40-10-A-P**	**188 238**	**ADVC-40-10-I-P**
		15	**188 249**	**ADVC-40-15-A-P**	**188 239**	**ADVC-40-15-I-P**
		20	**188 250**	**ADVC-40-20-A-P**	**188 240**	**ADVC-40-20-I-P**
		25	**188 251**	**ADVC-40-25-A-P**	**188 241**	**ADVC-40-25-I-P**
	50	10	**188 272**	**ADVC-50-10-A-P**	**188 264**	**ADVC-50-10-I-P**
		15	**188 273**	**ADVC-50-15-A-P**	**188 265**	**ADVC-50-15-I-P**
		20	**188 274**	**ADVC-50-20-A-P**	**188 266**	**ADVC-50-20-I-P**
		25	**188 275**	**ADVC-50-25-A-P**	**188 267**	**ADVC-50-25-I-P**
	63	10	**188 296**	**ADVC-63-10-A-P**	**188 288**	**ADVC-63-10-I-P**
		15	**188 297**	**ADVC-63-15-A-P**	**188 289**	**ADVC-63-15-I-P**
		20	**188 298**	**ADVC-63-20-A-P**	**188 290**	**ADVC-63-20-I-P**
		25	**188 299**	**ADVC-63-25-A-P**	**188 291**	**ADVC-63-25-I-P**
	80	10	**188 320**	**ADVC-80-10-A-P**	**188 312**	**ADVC-80-10-I-P**
		15	**188 321**	**ADVC-80-15-A-P**	**188 313**	**ADVC-80-15-I-P**
		20	**188 322**	**ADVC-80-20-A-P**	**188 314**	**ADVC-80-20-I-P**
		25	**188 323**	**ADVC-80-25-A-P**	**188 315**	**ADVC-80-25-I-P**
	100	10	**188 344**	**ADVC-100-10-A-P**	**188 336**	**ADVC-100-10-I-P**
		15	**188 345**	**ADVC-100-15-A-P**	**188 337**	**ADVC-100-15-I-P**
		20	**188 346**	**ADVC-100-20-A-P**	**188 338**	**ADVC-100-20-I-P**
		25	**188 347**	**ADVC-100-25-A-P**	**188 339**	**ADVC-100-25-I-P**

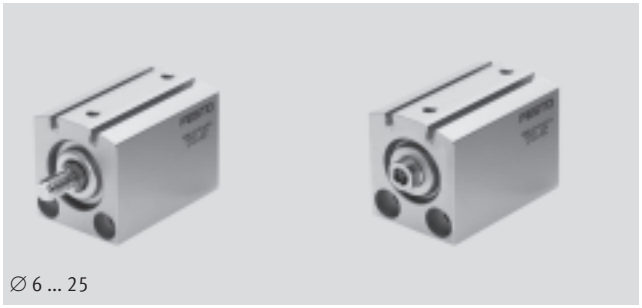
Short-stroke cylinders ADVC

Technical data, double-acting – with position sensing

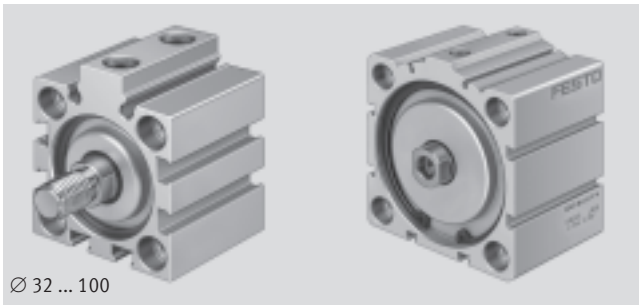


- Ø - Diameter
  6 ... 100 mm

- ▮ - Stroke length
  5 ... 25 mm



∅ 6 ... 25



∅ 32 ... 100

General technical data												
Piston ∅	6	10	12	16	20	25	32	40	50	63	80	100
Pneumatic connection	M3	M5	M5	M5	M5	M5	G1⁄8	G1⁄8	G1⁄8	G1⁄8	G1⁄8	G1⁄4
Piston rod with female thread	–	–	■	■	■	■	■	■	■	■	■	■
Piston rod with male thread	■	■	■	■	■	■	■	■	■	■	■	■
Piston rod without thread	■	■	■	–	–	–	–	–	–	–	–	–
Operating medium	Filtered compressed air, lubricated or unlubricated											
Constructional design	Piston											
	Piston rod											
Cushioning	Flexible cushioning rings/plates at both ends											
Position sensing	For proximity sensing											
Type of mounting	Via through-holes						Via through-holes					
	–						Via accessories					
Mounting position	Any											

Operating conditions													
Piston ∅		6	10	12	16	20	25	32	40	50	63	80	100
Operating pressure	[bar]	1.5 ... 8	1 ... 8	1 ... 10				0.6 ... 10					
Ambient temperature	[°C]	–20 ... +80 (note operating range of proximity sensors)											
Corrosion resistance class CRC[1)]		1											

1) Corrosion resistance class 1 according to Festo standard 940 070
Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers

Short-stroke cylinders ADVC

Technical data, double-acting – with position sensing

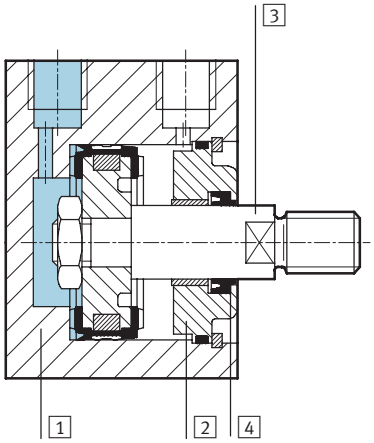
Forces [N] and impact energy [J]												
Piston ∅	6	10	12	16	20	25	32	40	50	63	80	100
Theoretical force at 6 bar, advancing	17	47	68	121	189	295	483	754	1,178	1,870	3,016	4,712
Theoretical force at 6 bar, returning	13	40	51	91	141	247	415	686	1,056	1,750	2,847	4,418
Max. impact energy at end positions	0.005	0.03	0.06	0.10	0.14	0.18	0.26	0.36	0.60	0.64	0.90	1.20

Product weight [g]												
Stroke [mm]	Piston ∅											
	6	10	12	16	20	25	32	40	50	63	80	100
5	20	37	70	98	162	195	320	460	–	–	–	–
10	23	45	79	106	174	210	340	490	630	710	1,940	2,970
15	–	–	–	114	186	225	360	520	665	760	2,025	3,060
20	–	–	–	122	198	240	380	550	700	810	2,110	3,150
25	–	–	–	130	210	255	400	580	735	860	2,195	3,240

Moving load [g]												
Stroke [mm]	Piston ∅											
	6	10	12	16	20	25	32	40	50	63	80	100
5	1.7	3.2	8.5	15	26	32	50	66	–	–	–	–
10	2	3.7	9.6	17	29	35	55	71	116	158	289	555
15	–	–	–	19	32	38	60	76	124	166	301	575
20	–	–	–	21	35	41	65	81	132	174	313	595
25	–	–	–	23	38	44	70	86	140	182	325	615

Materials

Sectional view

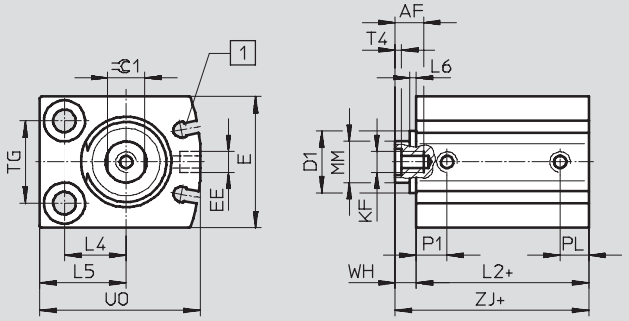


Short-stroke cylinder		
1	Cylinder barrel	Anodised aluminium
2	Cover cap	Anodised aluminium
3	Piston rod	High-alloy steel
4	Rod seal	Polyurethane
	Note on material	Free of copper, PTFE and silicone

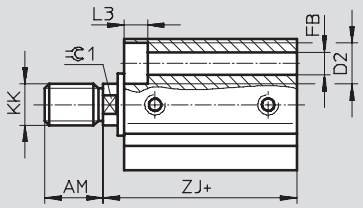
Dimensions Download CAD data ➔ **www.festo.com**

∅ 6 ... 25 mm

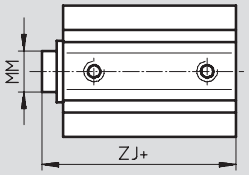
ADVC-...-I-P-A
Piston rod with female thread



ADVC-...-A-P-A
Piston rod with male thread



ADVC-...-P-A
Piston rod without thread



Note

∅ 10 mm
Depending on tolerance, the bearing cap may project by up to 0.65 mm.

∅ 12 mm
Depending on tolerance, the bearing cap may project by up to 0.35 mm.

\+ = plus stroke length

1 Slot for proximity sensor SME/SMT-10

∅ [mm]	AF min.	AM −0.5	D1 ∅ max.	D2 ∅	E max.	EE	FB ∅	KF	KK	L2 +0.2	L3
6	–	6	–	5 +0.1	16	M3	2.9	–	M3	20.5	2.9
10	–	8	7.5	5.8 +0.1	21	M5	3.4	–	M4	22	3.4
12	8	8	10.7	6 H13	24	M5	3.4	M3	M5	31	3.4
16	10	12	–	8 H13	28	M5	4.5	M4	M6	30	4.6
20	12	12	–	10 H13	32	M5	5.5	M5	M8	32	5.7
25	12	12	–	10 H13	38	M5	5.5	M5	M8	32	5.7

∅ [mm]	L4	L5	L6 max.	MM ∅	P1	PL	T4	TG ±0.1	UO max.	WH	ZJ ±0.8	⌀C1
6	5	8	–	3	5.2	3	–	10	16	1	21.5	–
10	7	10.5	0.7	4	6	6	–	14	22	1.5	23.5	–
12	8	12	0.4	6	7	6	1.5	16	26	4	35	5
16	12	17	–	8	8	6	2	18	32	4	34	7
20	15	21	–	10	7.5	7	2	20	39	5	37	9
25	15.5	21.5	–	10	10	6	2	26	42	5	37	9

Short-stroke cylinders ADVC

Technical data, double-acting – with position sensing

Dimensions Download CAD data ➔ **www.festo.com**

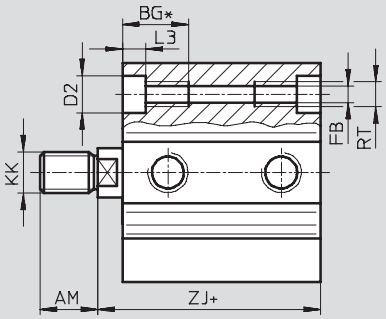
∅ 32 ... 100 mm

ADVC-...-I-P-A
Piston rod with female thread

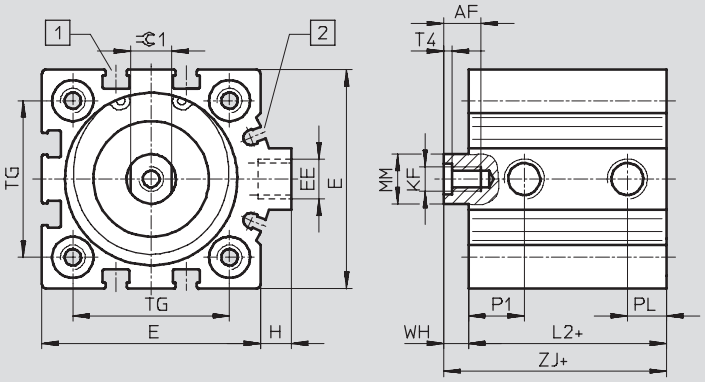
\+ = plus stroke length

1 Slot for proximity sensor SME/SMT-8

2 Slot for proximity sensor SME/SMT-10



ADVC-...-A-P-A**
Piston rod with male thread



∅ [mm]	AF min.	AM −0.5	BG* min.	D2 ∅ F9	E max.	EE	FB ∅	H	KF	KK
32	12	14	21.7	9	45	G1⁄8	5.2	7	M6	M10x1.25
40	12	14	21.7	9	53.5	G1⁄8	5.2	7	M6	M10x1.25
50	16	16	22.8	11	63.5	G1⁄8	6.8	7	M8	M12x1.25
63	16	16	22.8	11	75	G1⁄8	6.8	7.5	M8	M12x1.25
80	20	22	25	14	93	G1⁄8	8.5	7	M10	M16x1.5
100	24	28	25	14	113	G1⁄4	8.5	13	M12	M20x1.5

∅ [mm]	L2 +0.2	L3	MM ∅	P1	PL	RT	T4	TG ±0.1	WH	ZJ ±0.8	=C1
32	33	5.7	12	9	8.5	M6	2.6	32.5	6	39	10
40	38	5.7	12	13.5	9.5	M6	2.6	38	6	44	10
50	38	6.8	16	11.3	9.5	M8	3.3	46.5	8	46	13
63	41	6.8	16	12.5	10.5	M8	3.3	56.5	8	49	13
80	49	9	20	15	8.5	M10	4.7	72	8	57	17
100	58	9	25	16.5	10.5	M10	6.1	89	10	68	22

* Continuous thread with short overall length

** Nut for piston rod thread included in scope of delivery

Short-stroke cylinders ADVC

Technical data, double-acting – with position sensing

FESTO

Ordering data

Type	Piston ∅ [mm]	Stroke [mm]	Piston rod with male thread Part No.	Type	Piston rod with female thread Part No.	Type	Piston rod without thread Part No.	Type
	6	5	**188 064**	**ADVC-6-5-A-P-A**	–		**526 901**	**ADVC-6-5-P-A**
		10	**188 065**	**ADVC-6-10-A-P-A**			**526 902**	**ADVC-6-10-P-A**
	10	5	**188 076**	**ADVC-10-5-A-P-A**	–		**526 905**	**ADVC-10-5-P-A**
		10	**188 077**	**ADVC-10-10-A-P-A**			**526 906**	**ADVC-10-10-P-A**
	12	5	**188 092**	**ADVC-12-5-A-P-A**	**188 088**	**ADVC-12-5-I-P-A**	**530 572**	**ADVC-12-5-P-A**
		10	**188 093**	**ADVC-12-10-A-P-A**	**188 089**	**ADVC-12-10-I-P-A**	**530 573**	**ADVC-12-10-P-A**
	16	5	**188 118**	**ADVC-16-5-A-P-A**	**188 108**	**ADVC-16-5-I-P-A**	–	
		10	**188 119**	**ADVC-16-10-A-P-A**	**188 109**	**ADVC-16-10-I-P-A**		
		15	**188 120**	**ADVC-16-15-A-P-A**	**188 110**	**ADVC-16-15-I-P-A**		
		20	**188 121**	**ADVC-16-20-A-P-A**	**188 111**	**ADVC-16-20-I-P-A**		
		25	**188 122**	**ADVC-16-25-A-P-A**	**188 112**	**ADVC-16-25-I-P-A**		
	20	5	**188 150**	**ADVC-20-5-A-P-A**	**188 140**	**ADVC-20-5-I-P-A**	–	
		10	**188 151**	**ADVC-20-10-A-P-A**	**188 141**	**ADVC-20-10-I-P-A**		
		15	**188 152**	**ADVC-20-15-A-P-A**	**188 142**	**ADVC-20-15-I-P-A**		
		20	**188 153**	**ADVC-20-20-A-P-A**	**188 143**	**ADVC-20-20-I-P-A**		
		25	**188 154**	**ADVC-20-25-A-P-A**	**188 144**	**ADVC-20-25-I-P-A**		
	25	5	**188 182**	**ADVC-25-5-A-P-A**	**188 172**	**ADVC-25-5-I-P-A**	–	
		10	**188 183**	**ADVC-25-10-A-P-A**	**188 173**	**ADVC-25-10-I-P-A**		
		15	**188 184**	**ADVC-25-15-A-P-A**	**188 174**	**ADVC-25-15-I-P-A**		
		20	**188 185**	**ADVC-25-20-A-P-A**	**188 175**	**ADVC-25-20-I-P-A**		
		25	**188 186**	**ADVC-25-25-A-P-A**	**188 176**	**ADVC-25-25-I-P-A**		

Short-stroke cylinders ADVC

Technical data, double-acting – with position sensing

FESTO

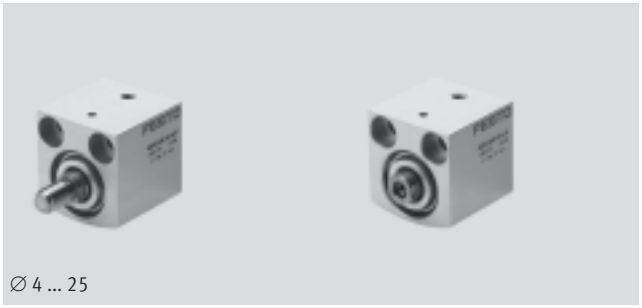
Ordering data							
Type	Piston ∅	Stroke	Piston rod with male thread			Piston rod with female thread	
	[mm]	[mm]	Part No.	Type		Part No.	Type
	32	5	**188 214**	**ADVC-32-5-A-P-A**		**188 204**	**ADVC-32-5-I-P-A**
		10	**188 215**	**ADVC-32-10-A-P-A**		**188 205**	**ADVC-32-10-I-P-A**
		15	**188 216**	**ADVC-32-15-A-P-A**		**188 206**	**ADVC-32-15-I-P-A**
		20	**188 217**	**ADVC-32-20-A-P-A**		**188 207**	**ADVC-32-20-I-P-A**
		25	**188 218**	**ADVC-32-25-A-P-A**		**188 208**	**ADVC-32-25-I-P-A**
	40	5	**188 242**	**ADVC-40-5-A-P-A**		**188 232**	**ADVC-40-5-I-P-A**
		10	**188 243**	**ADVC-40-10-A-P-A**		**188 233**	**ADVC-40-10-I-P-A**
		15	**188 244**	**ADVC-40-15-A-P-A**		**188 234**	**ADVC-40-15-I-P-A**
		20	**188 245**	**ADVC-40-20-A-P-A**		**188 235**	**ADVC-40-20-I-P-A**
		25	**188 246**	**ADVC-40-25-A-P-A**		**188 236**	**ADVC-40-25-I-P-A**
	50	10	**188 268**	**ADVC-50-10-A-P-A**		**188 260**	**ADVC-50-10-I-P-A**
		15	**188 269**	**ADVC-50-15-A-P-A**		**188 261**	**ADVC-50-15-I-P-A**
		20	**188 270**	**ADVC-50-20-A-P-A**		**188 262**	**ADVC-50-20-I-P-A**
		25	**188 271**	**ADVC-50-25-A-P-A**		**188 263**	**ADVC-50-25-I-P-A**
	63	10	**188 292**	**ADVC-63-10-A-P-A**		**188 284**	**ADVC-63-10-I-P-A**
		15	**188 293**	**ADVC-63-15-A-P-A**		**188 285**	**ADVC-63-15-I-P-A**
		20	**188 294**	**ADVC-63-20-A-P-A**		**188 286**	**ADVC-63-20-I-P-A**
		25	**188 295**	**ADVC-63-25-A-P-A**		**188 287**	**ADVC-63-25-I-P-A**
	80	10	**188 316**	**ADVC-80-10-A-P-A**		**188 308**	**ADVC-80-10-I-P-A**
		15	**188 317**	**ADVC-80-15-A-P-A**		**188 309**	**ADVC-80-15-I-P-A**
		20	**188 318**	**ADVC-80-20-A-P-A**		**188 310**	**ADVC-80-20-I-P-A**
		25	**188 319**	**ADVC-80-25-A-P-A**		**188 311**	**ADVC-80-25-I-P-A**
	100	10	**188 340**	**ADVC-100-10-A-P-A**		**188 332**	**ADVC-100-10-I-P-A**
		15	**188 341**	**ADVC-100-15-A-P-A**		**188 333**	**ADVC-100-15-I-P-A**
		20	**188 342**	**ADVC-100-20-A-P-A**		**188 334**	**ADVC-100-20-I-P-A**
		25	**188 343**	**ADVC-100-25-A-P-A**		**188 335**	**ADVC-100-25-I-P-A**

Short-stroke cylinders AEVC

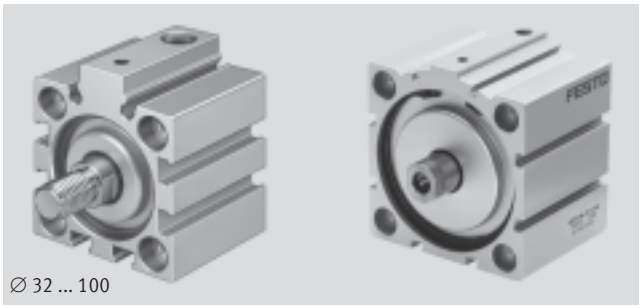
Technical data, single-acting – without position sensing

- Ø - Diameter
  4 ... 100 mm

- I - Stroke length
  2.5 ... 25 mm



Ø 4 ... 25



Ø 32 ... 100

General technical data													
Piston Ø	4	6	10	12	16	20	25	32	40	50	63	80	100
Pneumatic connection	M3	M3	M5	M5	M5	M5	M5	G1⁄8	G1⁄8	G1⁄8	G1⁄8	G1⁄8	G1⁄4
Piston rod with female thread	–	–	–	■	■	■	■	■	■	■	■	■	■
Piston rod with male thread	■	■	■	■	■	■	■	■	■	■	■	■	■
Piston rod without thread	■	■	■	■	–	–	–	–	–	–	–	–	–
Operating medium	Filtered compressed air, lubricated or unlubricated												
Constructional design	Piston												
	Piston rod												
Cushioning	Flexible cushioning rings/plates at both ends												
Type of mounting	Via through-holes							Via through-holes					
	–							Via accessories					
Mounting position	Any												

Operating conditions													
Piston Ø	4	6	10	12	16	20	25	32	40	50	63	80	100
Operating pressure [bar]	2.5 ... 8	2 ... 8	1.5 ... 8	1.5 ... 10				1 ... 10					
Ambient temperature [°C]	–20 ... +80												
Corrosion resistance class CRC[1)]	1												

1) Corrosion resistance class 1 according to Festo standard 940 070
Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers

Short-stroke cylinders AEVC

Technical data, single-acting – without position sensing

Forces [N] and impact energy [J]													
Piston ∅	4	6	10	12	16	20	25	32	40	50	63	80	100
Theoretical force at 6 bar, advancing	5	11	41	59	105	170	270	450	700	1,120	1,800	2,900	4,500
Theoretical force at 6 bar, returning	1	3	3	4	5	10[1)]	15	22	28	40	50	85	140
Max. impact energy at end positions	0.003	0.005	0.03	0.06	0.10	0.14	0.18	0.26	0.36	0.60	0.64	0.90	1.20

1) AEVC-20-5-... = 5 N

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.

Product weight [g]													
Stroke [mm]	Piston ∅												
	4	6	10	12	16	20	25	32	40	50	63	80	100
2.5	3.7	–	–	–	–	–	–	–	–	–	–	–	–
5	4.5	12	17	24	60	85	130	220	–	–	–	–	–
10	–	18	24	40	80	130	160	290	370	410	490	1,900	2,850
25	–	–	–	–	150	200	250	400	560	680	770	2,400	3,500

Moving load [g]													
Stroke [mm]	Piston ∅												
	4	6	10	12	16	20	25	32	40	50	63	80	100
2.5	0.15	–	–	–	–	–	–	–	–	–	–	–	–
5	0.2	1	2	4.4	8	14	22	40	–	–	–	–	–
10	–	1.4	2.6	6.9	11	21	25	48	65	105	157	327	678
25	–	–	–	–	19	32	37	62	83	140	191	365	739

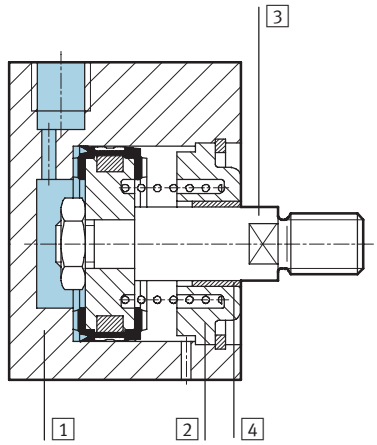
Short-stroke cylinders AEVC

Technical data, single-acting – without position sensing

FESTO

Materials

Sectional view



Short-stroke cylinder		∅ 4	∅ 6 ... 100
1	Cylinder barrel	Anodised aluminium	Anodised aluminium
2	Cover cap	Anodised aluminium	Anodised aluminium
3	Piston rod	Anodised aluminium	High-alloy steel
4	Rod seal	Nitrile rubber	Polyurethane
	Note on material	Free of copper, PTFE and silicone	Free of copper, PTFE and silicone

Short-stroke cylinders AEVC

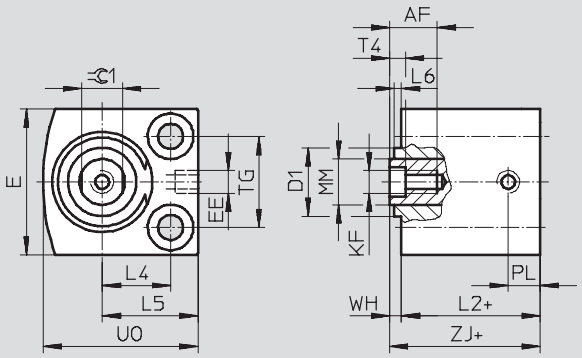
Technical data, single-acting – without position sensing

Dimensions Download CAD data ➔ **www.festo.com**

∅ 4 ... 25 mm

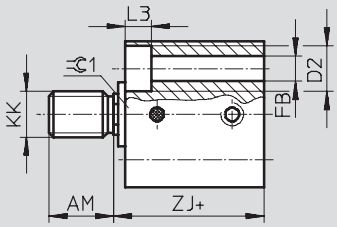
AEVC-...-I-P

Piston rod with female thread



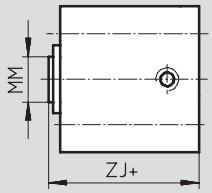
AEVC-...-A-P

Piston rod with male thread



AEVC-...-P

Piston rod without thread



- - Note

∅ 10 mm

Depending on tolerance, the bearing cap may project by up to 0.65 mm.

∅ 12 mm

Depending on tolerance, the bearing cap may project by up to 0.35 mm.

\+ = plus stroke length

Short-stroke cylinders AEVC

Technical data, single-acting – without position sensing

FESTO

∅ [mm]	Stroke [mm]	AF min.	AM –0.5	D1 ∅ max.	D2 ∅	E max.	EE	FB ∅	KF	KK	L2 +0.2	L3
4	2.5	–	6	–	3.3 +0.1	10	M3	1.8	–	M2	10.5	1.8
	5											
6	5	–	6	–	5 +0.1	13	M3	2.9	–	M3	11	2.9
	10										13.4	
10	5	–	8	7.5	5.8 +0.1	18	M5	3.4	–	M4	11	3.4
	10										13	
12	5	8	8	10.7	6 H13	20	M5	3.4	M3	M5	11	3.4
	10										17.5	
16	5	10	12	–	8 H13	25	M5	4.5	M4	M6	15	4.6
	10										17.5	
	25										22	
20	5	8	12	–	10 H13	32	M5	5.5	M5	M8	15	5.7
	10	12									20.5	
	25										23.5	
25	5	12	12	–	10 H13	38	M5	5.5	M5	M8	21.1	5.7
	10											
	25										25.2	

∅ [mm]	Stroke [mm]	L4	L5	L6 max.	MM ∅	PL	T4	TG ±0.1	UO max.	WH	ZJ ±0.8	⫧1
4	2.5	4	6.5	–	2	3.2	–	5.8	10	1	11.5	–
	5											
6	5	6	9	–	3	3	–	7	14	1	12	–
	10										14.4	
10	5	8	11.5	0.7	4	5.5	–	11	19	1	12	–
	10										14	
12	5	9	13	0.4	6	6	1.5	13	22	1	12	–
	10										18.5	
16	5	11.5	16.5	–	8	6	2	15	27	1	16	7
	10										18.5	
	25										23	
20	5	15	21	–	10	7	2	20	34	1	16	9
	10										21.5	
	25										24.5	
25	5	15.5	21.5	–	10	6.5	2	26	37	1	22.1	9
	10											
	25										26.2	

Short-stroke cylinders AEVC

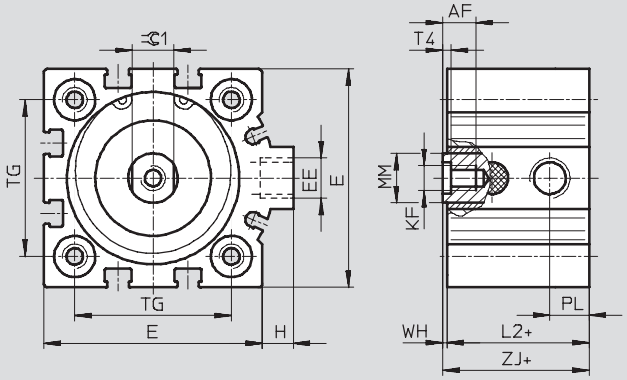
Technical data, single-acting – without position sensing

Dimensions Download CAD data ➔ **www.festo.com**

∅ 32 ... 100 mm

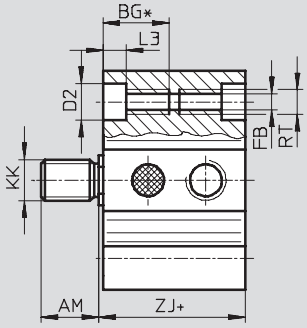
AEVC-...-I-P

Piston rod with female thread



AEVC-...-A-P**

Piston rod with male thread



\+ = plus stroke length

∅ [mm]	Stroke [mm]	AF min.	AM −0.5	BG* min.	D2 ∅ F9	E max.	EE	FB ∅	H	KF	KK	L2 +0.2	L3	MM ∅	PL	RT	T4	TG ±0.1	WH	ZJ ±0.8	⫩C1
32	5	12	14	21.7	9	45	G⅛	5.2	7	M6	M10x1.25	21	5.7	12	9.5	M6	2.6	32.5	1	22	10
	10											25								26	
	25																				
40	10	12	14	21.7	9	53.5	G⅛	5.2	7	M6	M10x1.25	24.5	5.7	12	9.5	M6	2.6	38	1	25.5	10
	25											29.5								30.5	
50	10	16	16	22.8	11	63.5	G⅛	6.8	7	M8	M12x1.25	20.6	6.8	16	9.5	M8	3.3	46.5	0.5	21.1	13
	25											28								28.5	
63	10	16	16	22.8	11	75	G⅛	6.8	7.5	M8	M12x1.25	25	6.8	16	11.5	M8	3.3	56.5	1	26	13
	25											32								33	
80	10	20	22	25	14	93	G⅛	8.5	7	M10	M16x1.5	42	9	20	15	M10	4.7	72	1	43	17
	25																				
100	10	24	28	25	14	113	G¼	8.5	13	M12	M20x1.5	49	9	25	19	M10	6.1	89	1	50	22
	25																				

* Continuous thread with short overall length

** Nut for piston rod thread included in scope of delivery

Short-stroke cylinders AEVC

Technical data, single-acting – without position sensing

FESTO

Ordering data

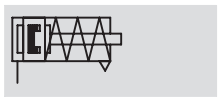
Type	Piston ∅ [mm]	Stroke [mm]	Piston rod with male thread Part No.	Type	Piston rod with female thread Part No.	Type	Piston rod without thread Part No.	Type
	4	2.5	**188 052**	**AEVC-4-2,5-A-P**	–		**188 050**	**AEVC-4-2,5-P**
		5	**188 053**	**AEVC-4-5-A-P**			**188 051**	**AEVC-4-5-P**
	6	5	**188 062**	**AEVC-6-5-A-P**	–		**188 058**	**AEVC-6-5-P**
		10	**188 063**	**AEVC-6-10-A-P**			**188 059**	**AEVC-6-10-P**
	10	5	**188 074**	**AEVC-10-5-A-P**	–		**188 070**	**AEVC-10-5-P**
		10	**188 075**	**AEVC-10-10-A-P**			**188 071**	**AEVC-10-10-P**
	12	5	**188 086**	**AEVC-12-5-A-P**	**188 082**	**AEVC-12-5-I-P**	**530 566**	**AEVC-12-5-P**
		10	**188 087**	**AEVC-12-10-A-P**	**188 083**	**AEVC-12-10-I-P**	**530 567**	**AEVC-12-10-P**
	16	5	**188 105**	**AEVC-16-5-A-P**	**188 099**	**AEVC-16-5-I-P**	–	
		10	**188 106**	**AEVC-16-10-A-P**	**188 100**	**AEVC-16-10-I-P**		
		25	**188 107**	**AEVC-16-25-A-P**	**188 101**	**AEVC-16-25-I-P**		
	20	5	**188 137**	**AEVC-20-5-A-P**	**188 131**	**AEVC-20-5-I-P**	–	
		10	**188 138**	**AEVC-20-10-A-P**	**188 132**	**AEVC-20-10-I-P**		
		25	**188 139**	**AEVC-20-25-A-P**	**188 133**	**AEVC-20-25-I-P**		
	25	5	**188 169**	**AEVC-25-5-A-P**	**188 163**	**AEVC-25-5-I-P**	–	
		10	**188 170**	**AEVC-25-10-A-P**	**188 164**	**AEVC-25-10-I-P**		
		25	**188 171**	**AEVC-25-25-A-P**	**188 165**	**AEVC-25-25-I-P**		

Ordering data

Type	Piston ∅ [mm]	Stroke [mm]	Piston rod with male thread Part No.	Type	Piston rod with female thread Part No.	Type
	32	5	**188 201**	**AEVC-32-5-A-P**	**188 195**	**AEVC-32-5-I-P**
		10	**188 202**	**AEVC-32-10-A-P**	**188 196**	**AEVC-32-10-I-P**
		25	**188 203**	**AEVC-32-25-A-P**	**188 197**	**AEVC-32-25-I-P**
	40	10	**188 230**	**AEVC-40-10-A-P**	**188 226**	**AEVC-40-10-I-P**
		25	**188 231**	**AEVC-40-25-A-P**	**188 227**	**AEVC-40-25-I-P**
	50	10	**188 258**	**AEVC-50-10-A-P**	**188 254**	**AEVC-50-10-I-P**
		25	**188 259**	**AEVC-50-25-A-P**	**188 255**	**AEVC-50-25-I-P**
	63	10	**188 282**	**AEVC-63-10-A-P**	**188 278**	**AEVC-63-10-I-P**
		25	**188 283**	**AEVC-63-25-A-P**	**188 279**	**AEVC-63-25-I-P**
	80	10	**188 306**	**AEVC-80-10-A-P**	**188 302**	**AEVC-80-10-I-P**
		25	**188 307**	**AEVC-80-25-A-P**	**188 303**	**AEVC-80-25-I-P**
	100	10	**188 330**	**AEVC-100-10-A-P**	**188 326**	**AEVC-100-10-I-P**
		25	**188 331**	**AEVC-100-25-A-P**	**188 327**	**AEVC-100-25-I-P**

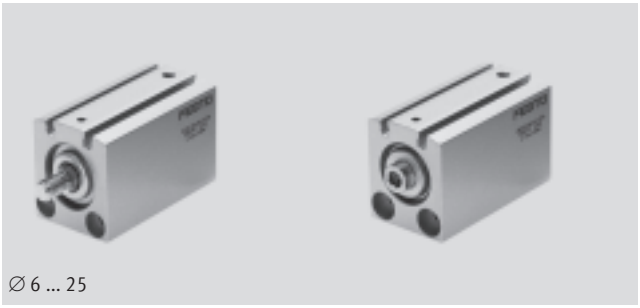
Short-stroke cylinders AEVC

Technical data, single-acting – with position sensing

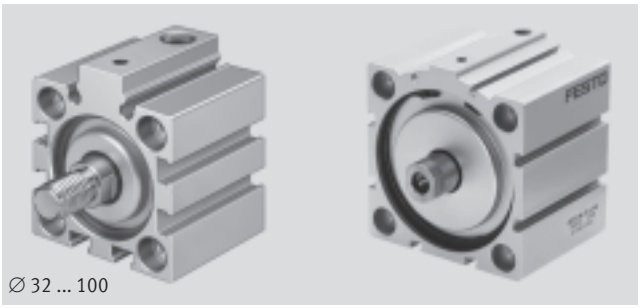


- ⌀ - Diameter
  6 ... 100 mm

- | - Stroke length
  5 ... 25 mm



⌀ 6 ... 25



⌀ 32 ... 100

General technical data												
Piston ⌀	6	10	12	16	20	25	32	40	50	63	80	100
Pneumatic connection	M3	M5	M5	M5	M5	M5	G1⁄8	G1⁄8	G1⁄8	G1⁄8	G1⁄8	G1⁄4
Piston rod with female thread	–	–	■	■	■	■	■	■	■	■	■	■
Piston rod with male thread	■	■	■	■	■	■	■	■	■	■	■	■
Piston rod without thread	■	■	■	–	–	–	–	–	–	–	–	–
Operating medium	Filtered compressed air, lubricated or unlubricated											
Constructional design	Piston											
	Piston rod											
Cushioning	Flexible cushioning rings/plates at both ends											
Position sensing	For proximity sensing											
Type of mounting	Via through-holes						Via through-holes					
	–						Via accessories					
Mounting position	Any											

Operating conditions												
Piston ⌀		6	10	12	16	20	25	32	40	50	63	80	100
Operating pressure	[bar]	2 ... 8	1.5 ... 8	1.5 ... 10				1 ... 10					
Ambient temperature	[°C]	–20 ... +80 (note operating range of proximity sensors)											
Corrosion resistance class CRC[1)]		1											

1) Corrosion resistance class 1 according to Festo standard 940 070
Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers

Short-stroke cylinders AEVC

Technical data, single-acting – with position sensing

Forces [N] and impact energy [J]												
Piston ∅	6	10	12	16	20	25	32	40	50	63	80	100
Theoretical force at 6 bar, advancing	11	41	59	105	170	270	450	700	1,120	1,800	2,900	4,500
Theoretical force at 6 bar, returning	3	3	4	5	10[1)]	15	22	28	40	50	85	140
Max. impact energy at end positions	0.005	0.03	0.06	0.10	0.14	0.18	0.26	0.36	0.60	0.64	0.90	1.20

1) AEVC-20-5-... = 5 N

Note

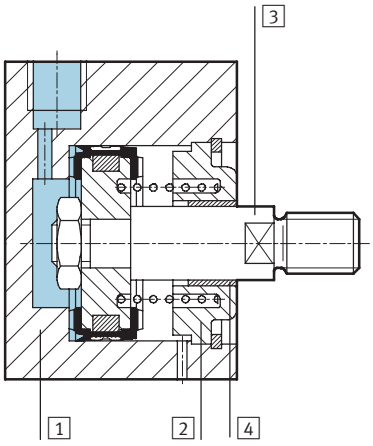
The degree of friction depends upon the mounting position, and the type of load involved. Single-acting cylinders should as far as possible be operated without lateral forces.

Product weight [g]												
Stroke [mm]	Piston ∅											
	6	10	12	16	20	25	32	40	50	63	80	100
5	19	37	70	95	160	195	320	–	–	–	–	–
10	23	44	79	105	170	205	340	490	630	720	1,940	2,970
25	–	–	–	130	200	250	390	580	730	870	3,290	3,220

Moving load [g]												
Stroke [mm]	Piston ∅											
	6	10	12	16	20	25	32	40	50	63	80	100
5	1.5	3	8.5	15	26	32	49	–	–	–	–	–
10	1.8	3.5	9.5	17	29	35	54	70	116	155	284	546
25	–	–	–	26	40	47	67	83	140	179	321	604

Materials

Sectional view

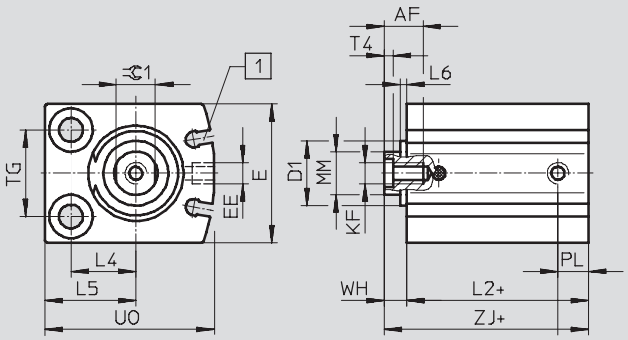


Short-stroke cylinder		
1	Cylinder barrel	Anodised aluminium
2	Cover cap	Anodised aluminium
3	Piston rod	High-alloy steel
4	Rod seal	Polyurethane
	Note on material	Free of copper, PTFE and silicone

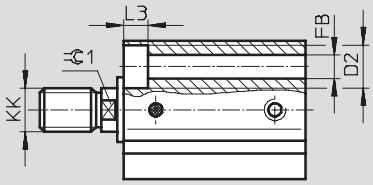
Dimensions Download CAD data ➔ **www.festo.com**

∅ 6 ... 25 mm

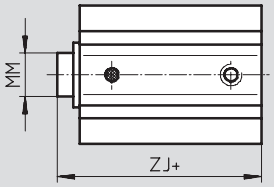
AEVC-...-I-P-A
Piston rod with female thread



AEVC-...-A-P-A
Piston rod with male thread



AEVC-...-P-A
Piston rod without thread



- - Note

∅ 10 mm
Depending on tolerance, the bearing cap may project by up to 0.65 mm.

∅ 12 mm
Depending on tolerance, the bearing cap may project by up to 0.35 mm.

\+ = plus stroke length

1 Slot for proximity sensor SME/SMT-10

Short-stroke cylinders AEVC

Technical data, single-acting – with position sensing

FESTO

∅ [mm]	Stroke [mm]	AF min.	AM	D1 ∅ max.	D2 ∅	E max.	EE	FB ∅	KF	KK	L2 +0.2	L3
6	5	–	6	–	5 +0.1	16	M3	2.9	–	M3	20.5	2.9
	10											
10	5	–	8	7.5	5.8 +0.1	21	M5	3.4	–	M4	22	3.4
	10											
12	5	8	8	10.7	6 H13	24	M5	3.4	M3	M5	31	3.4
	10											
16	5	10	12	–	8 H13	28	M5	4.5	M4	M6	30	4.6
	10											
	25										34.5	
20	5	12	12	–	10 H13	32	M5	5.5	M5	M8	32	5.7
	10											
	25										35	
25	5	12	12	–	10 H13	38	M5	5.5	M5	M8	32	5.7
	10											
	25										36.1	

∅ [mm]	Stroke [mm]	L4	L5	L6 max.	MM ∅	PL	T4	TG ±0.1	UO max.	WH	ZJ ±0.8	⌯1
6	5	5	8	–	3	3	–	10	16	1	21.5	–
	10											
10	5	7	10.5	0.7	4	6	–	14	22	1.5	23.5	–
	10											
12	5	8	12	0.4	6	6	1.5	16	26	4	35	5
	10											
16	5	12	17	–	8	6	2	18	32	4	34	7
	10											
	25										38.5	
20	5	15	21	–	10	7	2	20	39	5	37	9
	10											
	25										40	
25	5	15.5	21.5	–	10	6	2	26	42	5	37	9
	10											
	25										41.1	

Short-stroke cylinders AEVC

Technical data, single-acting – with position sensing

Dimensions Download CAD data ➔ **www.festo.com**

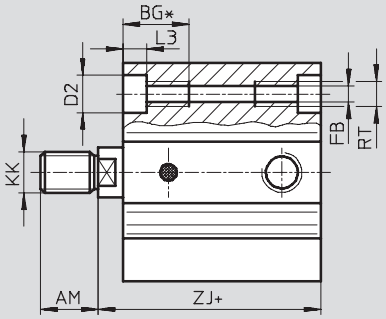
∅ 32 ... 100 mm

AEVC-...-I-P-A
Piston rod with female thread

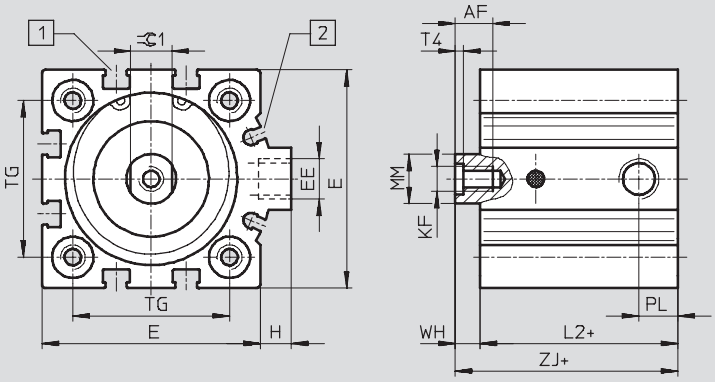
\+ = plus stroke length

1 Slot for proximity sensor SME/SMT-8

2 Slot for proximity sensor SME/SMT-10



AEVC-...-A-P-A**
Piston rod with male thread



∅	AF min.	AM –0.5	BG* min.	D2 ∅ F9	E max.	EE	FB ∅	H	KF	KK
32	12	14	21.7	9	45	G⅛	5.2	7	M6	M10x1.25
40	12	14	21.7	9	53.5	G⅛	5.2	7	M6	M10x1.25
50	16	16	22.8	11	63.5	G⅛	6.8	7	M8	M12x1.25
63	16	16	22.8	11	75	G⅛	6.8	7.5	M8	M12x1.25
80	20	22	25	14	93	G⅛	8.5	7	M10	M16x1.5
100	24	28	25	14	113	G¼	8.5	13	M12	M20x1.5

∅	L2 +0.2	L3	MM ∅	PL	RT	T4	TG ±0.1	WH	ZJ ±0.8	⫧1
32	33	5.7	12	8.5	M6	2.6	32.5	6	39	10
40	38	5.7	12	9.5	M6	2.6	38	6	44	10
50	38	6.8	16	9.5	M8	3.3	46.5	8	48	13
63	41	6.8	16	10.5	M8	3.3	56.5	8	49	13
80	49	9	20	8.5	M10	4.7	72	8	57	17
100	58	9	25	10.5	M10	6.1	89	10	68	22

* Continuous thread with short overall length

** Nut for piston rod thread included in scope of delivery

Short-stroke cylinders AEVC

Technical data, single-acting – with position sensing

FESTO

Ordering data

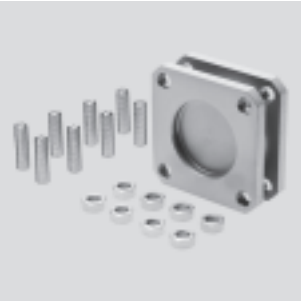
Type	Piston ∅ [mm]	Stroke [mm]	Piston rod with male thread Part No.	Type	Piston rod with female thread Part No.	Type	Piston rod without thread Part No.	Type
	6	5	**188 060**	**AEVC-6-5-A-P-A**	–		**188 056**	**AEVC-6-5-P-A**
		10	**188 061**	**AEVC-6-10-A-P-A**			**188 057**	**AEVC-6-10-P-A**
	10	5	**188 072**	**AEVC-10-5-A-P-A**	–		**188 068**	**AEVC-10-5-P-A**
		10	**188 073**	**AEVC-10-10-A-P-A**			**188 069**	**AEVC-10-10-P-A**
	12	5	**188 084**	**AEVC-12-5-A-P-A**	**188 080**	**AEVC-12-5-I-P-A**	**530 570**	**AEVC-12-5-P-A**
		10	**188 085**	**AEVC-12-10-A-P-A**	**188 081**	**AEVC-12-10-I-P-A**	**530 571**	**AEVC-12-10-P-A**
	16	5	**188 102**	**AEVC-16-5-A-P-A**	**188 096**	**AEVC-16-5-I-P-A**	–	
		10	**188 103**	**AEVC-16-10-A-P-A**	**188 097**	**AEVC-16-10-I-P-A**		
		25	**188 104**	**AEVC-16-25-A-P-A**	**188 098**	**AEVC-16-25-I-P-A**		
	20	5	**188 134**	**AEVC-20-5-A-P-A**	**188 128**	**AEVC-20-5-I-P-A**	–	
		10	**188 135**	**AEVC-20-10-A-P-A**	**188 129**	**AEVC-20-10-I-P-A**		
		25	**188 136**	**AEVC-20-25-A-P-A**	**188 130**	**AEVC-20-25-I-P-A**		
	25	5	**188 166**	**AEVC-25-5-A-P-A**	**188 160**	**AEVC-25-5-I-P-A**	–	
		10	**188 167**	**AEVC-25-10-A-P-A**	**188 161**	**AEVC-25-10-I-P-A**		
		25	**188 168**	**AEVC-25-25-A-P-A**	**188 162**	**AEVC-25-25-I-P-A**		

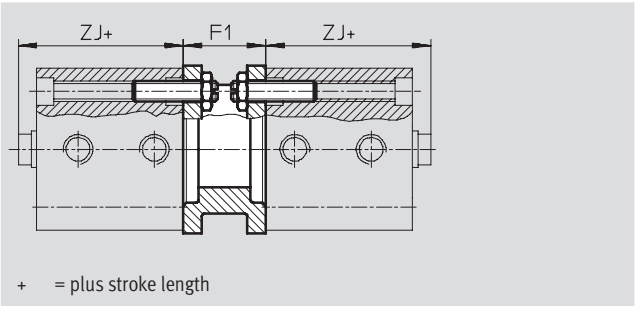
Ordering data

Type	Piston ∅ [mm]	Stroke [mm]	Piston rod with male thread Part No.	Type	Piston rod with female thread Part No.	Type
	32	5	**188 198**	**AEVC-32-5-A-P-A**	**188 192**	**AEVC-32-5-I-P-A**
		10	**188 199**	**AEVC-32-10-A-P-A**	**188 193**	**AEVC-32-10-I-P-A**
		25	**188 200**	**AEVC-32-25-A-P-A**	**188 194**	**AEVC-32-25-I-P-A**
	40	10	**188 228**	**AEVC-40-10-A-P-A**	**188 224**	**AEVC-40-10-I-P-A**
		25	**188 229**	**AEVC-40-25-A-P-A**	**188 225**	**AEVC-40-25-I-P-A**
	50	10	**188 256**	**AEVC-50-10-A-P-A**	**188 252**	**AEVC-50-10-I-P-A**
		25	**188 257**	**AEVC-50-25-A-P-A**	**188 253**	**AEVC-50-25-I-P-A**
	63	10	**188 280**	**AEVC-63-10-A-P-A**	**188 276**	**AEVC-63-10-I-P-A**
		25	**188 281**	**AEVC-63-25-A-P-A**	**188 277**	**AEVC-63-25-I-P-A**
	80	10	**188 304**	**AEVC-80-10-A-P-A**	**188 300**	**AEVC-80-10-I-P-A**
		25	**188 305**	**AEVC-80-25-A-P-A**	**188 301**	**AEVC-80-25-I-P-A**
	100	10	**188 328**	**AEVC-100-10-A-P-A**	**188 324**	**AEVC-100-10-I-P-A**
		25	**188 329**	**AEVC-100-25-A-P-A**	**188 325**	**AEVC-100-25-I-P-A**

Adapter kit DPNC

Material:
Flange: Wrought aluminium alloy
Threaded studs, hex nuts: Galvanised steel





\+ = plus stroke length

Dimensions and ordering data

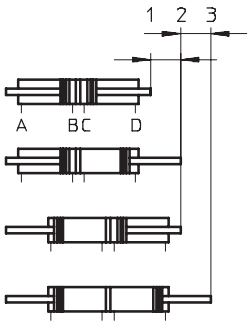
For ∅	Stroke	F1	ZJ				Weight	Part No.	Type
			without position sensing		with position sensing				
[mm]	[mm]		ADVC	AEVC	ADVC	AEVC	[g]		
32	5	27	35	22	39	39	85	**174 418**	**DPNC-32**
	10, 15, 20, 25			26					
40	5, 10	27	35.5	25.5	44	44	115	**174 419**	**DPNC-40**
	15, 20, 25			30.5					
50	10	32	36	21.1	46	48	210	**174 420**	**DPNC-50**
	15, 20, 25			28.5					
63	10	28	43	26	49	49	360	**174 421**	**DPNC-63**
	15, 20, 25			33					
80	10, 15, 20, 25	38	48	43	57	57	620	**174 422**	**DPNC-80**
100	10, 15, 20, 25	38	59	50	68	68	1,190	**174 423**	**DPNC-100**

Connecting two cylinders with identical piston ∅ as a 3 or 4-position cylinder

A 3 or 4-position cylinder consists of two separate cylinders whose piston rods advance in opposing directions. This means that depending upon actuation and stroke pattern, this type of cylinder can assume up to four positions. In each case the cylinder is driven precisely against a stop. Note that when one end of the piston rod is fixed, the cylinder barrel executes the movement. The cylinder must be connected with flexible line connections.

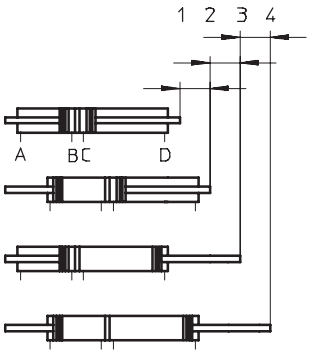
To achieve 3 positions

Two cylinders with identical stroke length must be connected together.



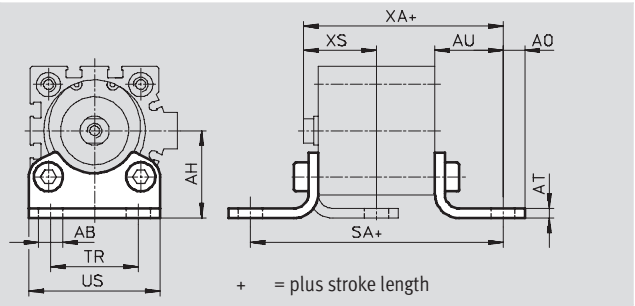
To achieve 4 positions

Two cylinders with different stroke lengths must be connected together.



Foot mounting HNC

Material:
Galvanised steel
Free of copper, PTFE and silicone



Dimensions and ordering data

For ∅ [mm]	Stroke [mm]	AB ∅	AH	AO	AT	AU	SA without position sensing ADVC	SA without position sensing AEVC	SA with position sensing ADVC	SA with position sensing AEVC	TR	US
32	5	7	32	6.5	4	24	77	69	81	81	32	45
	10, 15, 20, 25							73				
40	5, 10	10	36	9	4	28	85.5	80.5	94	94	36	54
	15, 20, 25							85.5				
50	10	10	45	9.5	5	32	92	84.6	102	104	45	64
	15, 20, 25							92				
63	10	10	50	12.5	5	32	99	89	105	105	50	75
	15, 20, 25							96				
80	10, 15, 20, 25	12	63	15	6	41	122	124	131	131	63	93
100	10, 15, 20, 25	14.5	71	17.5	6	41	131	131	140	140	75	110

For ∅ [mm]	Stroke [mm]	XA without position sensing ADVC	XA without position sensing AEVC	XA with position sensing ADVC	XA with position sensing AEVC	XS without position sensing ADVC	XS without position sensing AEVC	XS with position sensing ADVC	XS with position sensing AEVC	CRC[1]	Weight [g]	Part No.	Type
32	5	59	46	63	63	26	21	26	26	2	135	**174 369**	**HNC-32**
	10, 15, 20, 25		50										
40	5, 10	63.5	53.5	72	72	30	25	30	30	2	180	**174 370**	**HNC-40**
	15, 20, 25		58.5										
50	10	68	53.1	78	80	35	27.5	35	35	2	325	**174 371**	**HNC-50**
	15, 20, 25		60.5										
63	10	75	58	81	81	35	28	35	35	2	405	**174 372**	**HNC-63**
	15, 20, 25		65										
80	10, 15, 20, 25	89	84	98	98	43	36	43	43	2	820	**174 373**	**HNC-80**
100	10, 15, 20, 25	100	91	109	109	45	36	45	45	2	1,000	**174 374**	**HNC-100**

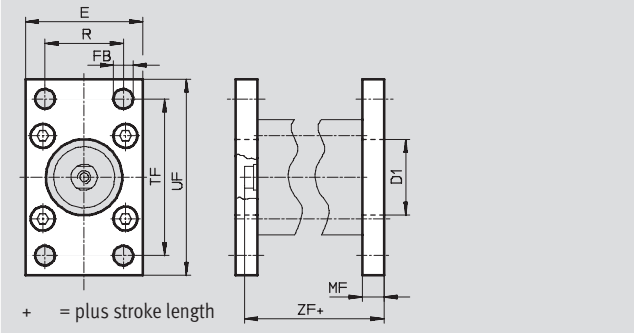
1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents

Note

Screws with special lengths are required to fit the sizes ∅ 80 mm and ∅ 100 mm. ➔43

Flange mounting FNC

Material:
Galvanised steel
Free of copper, PTFE and silicone



Dimensions and ordering data

For ∅ [mm]	Stroke [mm]	D1 ∅ H11	E	FB ∅ H13	MF	R	TF	UF
32	5	30	45	7	10	32	64	80
	10, 15, 20, 25							
40	5, 10	35	54	9	10	36	72	90
	15, 20, 25							
50	10	40	65	9	12	45	90	110
	15, 20, 25							
63	10	45	75	9	12	50	100	120
	15, 20, 25							
80	10, 15, 20, 25	45	93	12	16	63	126	150
100	10, 15, 20, 25	55	110	14	16	75	150	175

For ∅ [mm]	Stroke [mm]	ZF without position sensing ADVC	ZF without position sensing AEVC	ZF with position sensing ADVC	ZF with position sensing AEVC	CRC[1]	Weight [g]	Part No.	Type
32	5	45	32	49	49	2	240	**174 376**	**FNC-32**
	10, 15, 20, 25		36						
40	5, 10	45.5	35.5	54	54	2	280	**174 377**	**FNC-40**
	15, 20, 25		40.5						
50	10	48	33.5	58	60	2	520	**174 378**	**FNC-50**
	15, 20, 25		40.5						
63	10	55	38	61	61	2	690	**174 379**	**FNC-63**
	15, 20, 25		45						
80	10, 15, 20, 25	64	59	73	73	2	1,650	**174 380**	**FNC-80**
100	10, 15, 20, 25	75	66	84	84	2	2,400	**174 381**	**FNC-100**

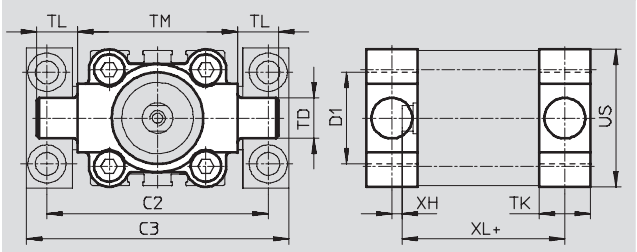
1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents

Note

Screws with special lengths are required to fit the sizes ∅ 80 mm and ∅ 100 mm. ➔43

Trunnion flange ZNCF

Material:
Special steel casting
Free of copper, PTFE and silicone



\+ = plus stroke length

Dimensions and ordering data

For ∅ [mm]	Stroke [mm]	C2	C3	D1 ∅ H11	TD ∅ e9	TK	TL	TM	US	XH
32	5	71	86	30	12	16	12	50	45	2
	10, 15, 20, 25									
40	5, 10	87	105	35	16	20	16	63	54	4
	15, 20, 25									
50	10	99	117	40	16	24	16	75	64	4
	15, 20, 25									
63	10	116	136	45	20	24	20	90	75	4
	15, 20, 25									
80	10, 15, 20, 25	136	156	45	20	28	20	110	93	6
100	10, 15, 20, 25	164	189	55	25	38	25	132	110	9

For ∅ [mm]	Stroke [mm]	XL without position sensing ADVC	XL without position sensing AEVC	XL with position sensing ADVC	XL with position sensing AEVC	CRC[1]	Weight [g]	Part No.	Type
32	5	43	30	47	47	2	130	**174 411**	**ZNCF-32**
	10, 15, 20, 25		34						
40	5, 10	45.5	35.5	54	54	2	240	**174 412**	**ZNCF-40**
	15, 20, 25		40.5						
50	10	48	33.1	58	60	2	390	**174 413**	**ZNCF-50**
	15, 20, 25		40.5						
63	10	55	38	61	61	2	600	**174 414**	**ZNCF-63**
	15, 20, 25		45						
80	10, 15, 20, 25	62	57	71	71	2	1,150	**174 415**	**ZNCF-80**
100	10, 15, 20, 25	78	69	87	87	2	2,030	**174 416**	**ZNCF-100**

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

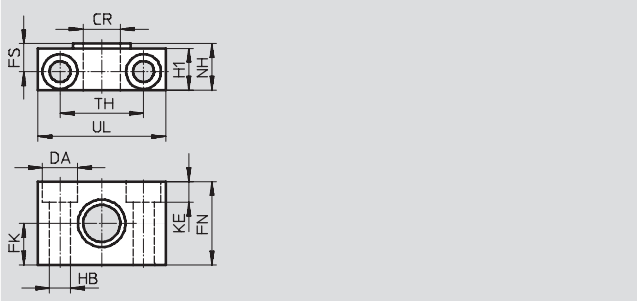
Note

Screws with special lengths are required to fit the sizes ∅ 80 mm and ∅ 100 mm. ➔43

Trunnion support LNZG

Material:
Trunnion support:
Anodised aluminium
Plain bearing: Plastic

Free of copper, PTFE and silicone



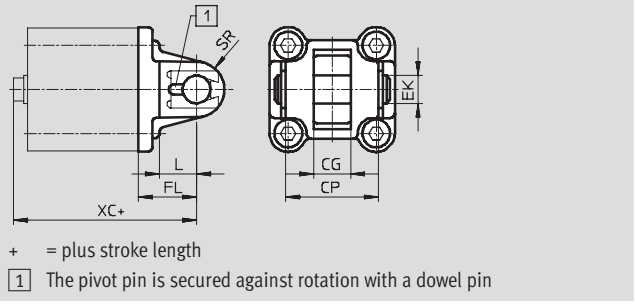
Dimensions and ordering data

For ∅ [mm]	CR ∅ D11	DA ∅ H13	FK ∅ ±0.1	FN	FS	H1	HB ∅ H13	KE	NH	TH ±0.2	UL	CRC[1)]	Weight [g]	Part No.	Type
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 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

Swivel flange SNC

Material:
Die-cast aluminium



\+ = plus stroke length
1 The pivot pin is secured against rotation with a dowel pin

Dimensions and ordering data

For ∅ [mm]	Stroke [mm]	CG H14	CP h14	EK ∅ h9	FL ±0.2	L	SR
32	5	14	34	10	22	13	10
	10, 15, 20, 25						
40	5, 10	16	40	12	25	16	12
	15, 20, 25						
50	10	21	45	16	27	16	12
	15, 20, 25						
63	10	21	51	16	32	21	16
	15, 20, 25						
80	10, 15, 20, 25	25	65	20	36	22	16
100	10, 15, 20, 25	25	75	20	41	27	20

For ∅ [mm]	Stroke [mm]	XC without position sensing ADVC	XC without position sensing AEVC	XC with position sensing ADVC	XC with position sensing AEVC	CRC[1)]	Weight [g]	Part No.	Type
32	5	57	44	61	61	2	90	**174 383**	**SNC-32**
	10, 15, 20, 25		48						
40	5, 10	60.5	50.5	69	69	2	120	**174 384**	**SNC-40**
	15, 20, 25		55.5						
50	10	63	48.1	73	75	2	240	**174 385**	**SNC-50**
	15, 20, 25		55.5						
63	10	75	58	81	81	2	320	**174 386**	**SNC-63**
	15, 20, 25		65						
80	10, 15, 20, 25	84	79	93	93	2	625	**174 387**	**SNC-80**
100	10, 15, 20, 25	100	91	109	109	2	830	**174 388**	**SNC-100**

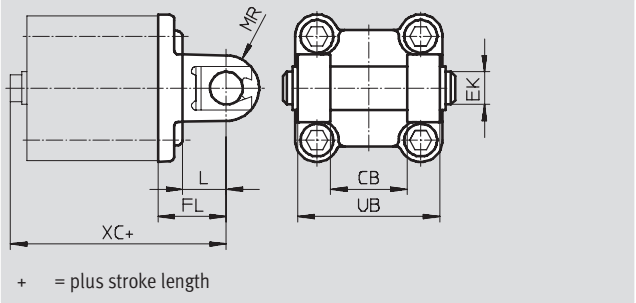
1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents

Note

Screws with special lengths are required to fit the sizes ∅ 80 mm and ∅ 100 mm. ➔43

Swivel flange SNCB

Material:
Die-cast aluminium
Free of copper, PTFE and silicone



\+ = plus stroke length

Dimensions and ordering data

For ∅ [mm]	Stroke [mm]	CB H14	EK ∅ e8	FL ±0.2	L	ML	MR	UB h14
32	5	26	10	22	13	55	8.5	45
	10, 15, 20, 25							
40	5, 10	28	12	25	16	63	12	52
	15, 20, 25							
50	10	32	12	27	16	71	12	60
	15, 20, 25							
63	10	40	16	32	21	83	16	70
	15, 20, 25							
80	10, 15, 20, 25	50	16	36	22	103	16	90
100	10, 15, 20, 25	60	20	41	27	127	20	110

For ∅ [mm]	Stroke [mm]	XC without position sensing ADVC	XC without position sensing AEVC	XC with position sensing ADVC	XC with position sensing AEVC	CRC[1]	Weight [g]	Part No.	Type
32	5	57	44	61	61	2	100	**174 390**	**SNCB-32**
	10, 15, 20, 25		48						
40	5, 10	60.5	50.5	69	69	2	150	**174 391**	**SNCB-40**
	15, 20, 25		55.5						
50	10	63	48.1	73	75	2	225	**174 392**	**SNCB-50**
	15, 20, 25		55.5						
63	10	75	58	81	81	2	365	**174 393**	**SNCB-63**
	15, 20, 25		65						
80	10, 15, 20, 25	84	79	93	93	2	610	**174 394**	**SNCB-80**
100	10, 15, 20, 25	100	91	109	109	2	925	**174 395**	**SNCB-100**

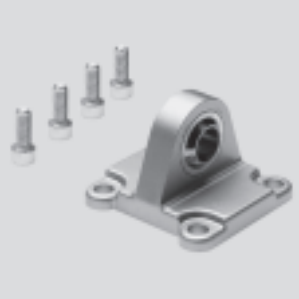
1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents

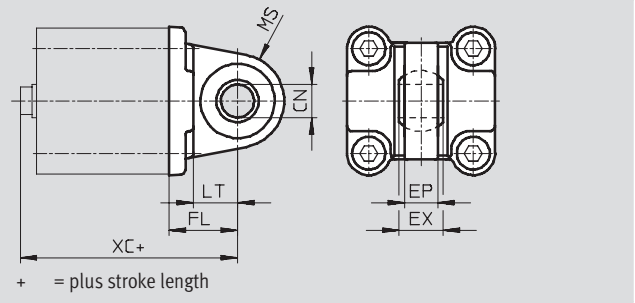
- Note

Screws with special lengths are required to fit the sizes ∅ 80 mm and ∅ 100 mm. ➔43

Swivel flange SNCS

Material:
Die-cast aluminium





Dimensions and ordering data

For ∅ [mm]	Stroke [mm]	CN ∅ H7	EP ±0.2	EX	FL ±0.2	LT	MS
32	5	10	10.5	14	22	13	15
	10, 15, 20, 25						
40	5, 10	12	12	16	25	16	17
	15, 20, 25						
50	10	16	15	21	27	16	20
	15, 20, 25						
63	10	16	15	21	32	21	22
	15, 20, 25						
80	10, 15, 20, 25	20	18	25	36	22	27
100	10, 15, 20, 25	20	18	25	41	27	29

For ∅ [mm]	Stroke [mm]	XC without position sensing ADVC	XC without position sensing AEVC	XC with position sensing ADVC	XC with position sensing AEVC	CRC[1)]	Weight [g]	Part No.	Type
32	5	57	44	61	61	2	85	**174 397**	**SNCS-32**
	10, 15, 20, 25		48						
40	5, 10	60.5	50.5	69	69	2	125	**174 398**	**SNCS-40**
	15, 20, 25		55.5						
50	10	63	48.1	73	75	2	210	**174 399**	**SNCS-50**
	15, 20, 25		55.5						
63	10	75	58	81	81	2	280	**174 400**	**SNCS-63**
	15, 20, 25		65						
80	10, 15, 20, 25	84	79	93	93	2	540	**174 401**	**SNCS-80**
100	10, 15, 20, 25	100	91	109	109	2	700	**174 402**	**SNCS-100**

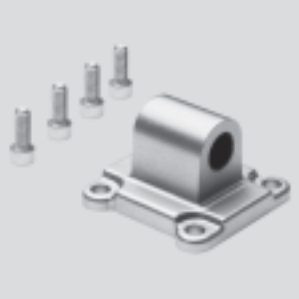
1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents

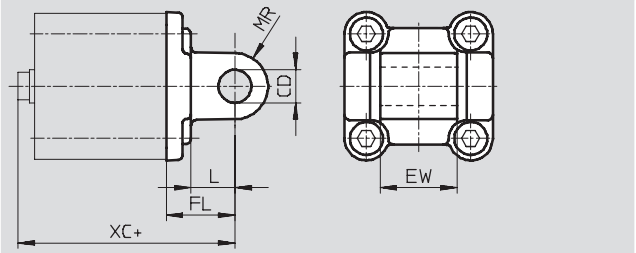
- Note

Screws with special lengths are required to fit the sizes ∅ 80 mm and ∅ 100 mm. ➔43

Swivel flange SNCL

Material:
Die-cast aluminium
Free of copper, PTFE and silicone





\+ = plus stroke length

Dimensions and ordering data						
For ∅ [mm]	Stroke [mm]	CD ∅ H9	EW −0.2/−0.6	FL ±0.2	L	MR
32	5	10	26	22	13	10
	10, 15, 20, 25					
40	5, 10	12	28	25	16	12
	15, 20, 25					
50	10	12	32	27	16	12
	15, 20, 25					
63	10	16	40	32	21	16
	15, 20, 25					
80	10, 15, 20, 25	16	50	36	22	16
100	10, 15, 20, 25	20	60	41	27	20

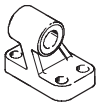
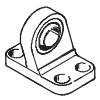
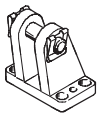
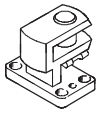
For ∅	Stroke	XC				CRC[1)]	Weight	Part No.	Type
		without position sensing		with position sensing					
[mm]	[mm]	ADVC	AEVC	ADVC	AEVC		[g]		
32	5	57	44	61	61	2	75	**174 404**	**SNCL-32**
	10, 15, 20, 25		48						
40	5, 10	60.5	50.5	69	69	2	100	**174 405**	**SNCL-40**
	15, 20, 25		55.5						
50	10	63	48.1	73	75	2	160	**174 406**	**SNCL-50**
	15, 20, 25		55.5						
63	10	75	58	81	81	2	250	**174 407**	**SNCL-63**
	15, 20, 25		65						
80	10, 15, 20, 25	84	79	93	93	2	405	**174 408**	**SNCL-80**
100	10, 15, 20, 25	100	91	109	109	2	655	**174 409**	**SNCL-100**

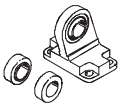
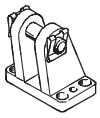
1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents

Note

Screws with special lengths are required to fit the sizes ∅ 80 mm and ∅ 100 mm. ➔43

Ordering data – Mounting attachments — Technical data ➔ Internet: clevis foot

Designation	For ∅	Part No.	Type
Clevis foot mounting LNG			
	32	**33 890**	**LNG-32**
	40	**33 891**	**LNG-40**
	50	**33 892**	**LNG-50**
	63	**33 893**	**LNG-63**
	80	**33 894**	**LNG-80**
	100	**33 895**	**LNG-100**
Clevis foot mounting LSNG			
	32	**31 740**	**LSNG-32**
	40	**31 741**	**LSNG-40**
	50	**31 742**	**LSNG-50**
	63	**31 743**	**LSNG-63**
	80	**31 744**	**LSNG-80**
	100	**31 745**	**LSNG-100**
Clevis foot LBG on swivel flange SNCS			
	32	**31 761**	**LBG-32**
	40	**31 762**	**LBG-40**
	50	**31 763**	**LBG-50**
	63	**31 764**	**LBG-63**
	80	**31 765**	**LBG-80**
	100	**31 766**	**LBG-100**
Clevis foot, right-angled LQG			
	32, 40	**31 768**	**LQG-32**
	50, 63	**31 769**	**LQG-40**
	80	**31 770**	**LQG-50**
		31 771	**LQG-63**
	100	**31 772**	**LQG-80**
		31 773	**LQG-100**

Designation	For ∅	Part No.	Type
Clevis foot mounting LSN			
	32	**5 561**	**LSN-32**
	40	**5 562**	**LSN-40**
	50	**5 563**	**LSN-50**
	63	**5 564**	**LSN-63**
	80	**5 565**	**LSN-80**
	100	**5 566**	**LSN-100**
Weld-on clevis foot mounting LSNSG			
	32	**31 747**	**LSNSG-32**
	40	**31 748**	**LSNSG-40**
	50	**31 749**	**LSNSG-50**
	63	**31 750**	**LSNSG-63**
	80	**31 751**	**LSNSG-80**
	100	**31 752**	**LSNSG-100**
Clevis foot LBG on rod eye SGS			
	32, 40	**31 761**	**LBG-32**
	50, 63	**31 762**	**LBG-40**
	80	**31 763**	**LBG-50**
		31 764	**LBG-63**
	100	**31 765**	**LBG-80**
		31 766	**LBG-100**

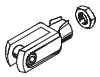
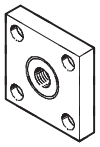
Ordering data

Special screw	For ∅	For accessory	Part No.		PU[1]
	80, 100	HNC, FNC, SNC, SNCS, SNCL, SNCB	**238 600**	**M10x30**	**1**
	80	ZNCF	**204 138**	**M10x40**	
	100	ZNCF	**370 524**	**M10x50**	

1) Packaging unit quantity

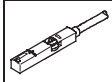
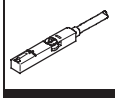
Ordering data – Piston rod attachments

Technical data ➔ Internet: piston-rod attachment

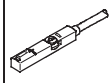
Designation	For ∅	Part No.	Type
Rod eye SGS			
	10	**9 253**	**SGS-M4**
	16	**9 254**	**SGS-M6**
	20	**9 255**	**SGS-M8**
	25		
	32	**9 261**	**SGS-M10x1,25**
	40		
	50	**9 262**	**SGS-M12x1,25**
	63		
	80	**9 263**	**SGS-M16x1,5**
	100	**9 264**	**SGS-M20x1,5**
Rod clevis SG			
	10	**6 532**	**SG-M4**
	12	–	–
	16	**3 110**	**SG-M6**
	20	**3 111**	**SG-M8**
	25		
	32	**6 144**	**SG-M10x1,25**
	40		
	50	**6 145**	**SG-M12x1,25**
	63		
	80	**6 146**	**SG-M16x1,5**
	100	**6 147**	**SG-M20x1,5**
Coupling piece KSG			
	32	**32 963**	**KSG-M10x1,25**
	40		
	50	**32 964**	**KSG-M12x1,25**
	63		
	80	**32 965**	**KSG-M16x1,5**
	100	**32 966**	**KSG-M20x1,5**

Designation	For ∅	Part No.	Type
Rod clevis SGA			
	32	–	–
	40		
	50		
	63		
	32	**32 954**	**SGA-M10x1.25**
	40		
	50	**10 767**	**SGA-M12x1,25**
	63		
	80	**10 768**	**SGA-M16x1,5**
	100	**10 769**	**SGA-M20x1,5**
Self-aligning rod coupler FK			
	10	**6 528**	**FK-M4**
	12	**30 984**	**FK-M5**
	16	**2 061**	**FK-M6**
	20	**2 062**	**FK-M8**
	25		
	32	**6 140**	**FK-M10x1,25**
	40		
	50	**6 141**	**FK-M12x1,25**
	63		
	80	**6 142**	**FK-M16x1,5**
	100	**6 143**	**FK-M20x1,5**

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**

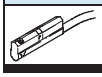
Ordering data – Connecting cables — Technical data ➔ Internet: nebu

	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**

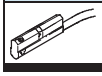
Ordering data – Slot cover for T-slot

	Mounting	Length	Part No.	Type
	Insertable from above	2x 0.5 m	**151 680**	**ABP-5-S**

Ordering data – Proximity switches for C-slot, magneto-resistive — Technical data ➔ Internet: smt

	Type of mounting	Switch output	Electrical connection, connection direction	Cable length [m]	Part No.	Type
N/O contact						
	Insertable in the slot lengthwise	PNP	Plug M8x1, 3-pin, in-line	0,3	**173 220**	**SMT-10-PS-SL-LED-24**
			Cable, 3-wire, in-line	2,5	**173 218**	**SMT-10-PS-KL-LED-24**

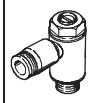
Ordering data – Proximity switches for C-slot, magnetic reed — Technical data ➔ Internet: sme

	Type of mounting	Switch output	Electrical connection, connection direction	Cable length [m]	Part No.	Type
N/O contact						
	Insertable in the slot lengthwise	Contacting	Plug M8x1, 3-pin, in-line	0,3	**173 212**	**SME-10-SL-LED-24**
			Cable, 3-wire, in-line	2,5	**173 210**	**SME-10-KL-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**
	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**

Ordering data – One-way flow control valves — Technical data ➔ Internet: grl

	Connection		Material	Part No.	Type
	Thread	For tubing O.D.			
For exhaust air					
	M3	3	Metal design	**175 041**	**GRLA-M3-QS-3**
	M5	3		**193 137**	**GRLA-M5-QS-3-D**
		4		**193 138**	**GRLA-M5-QS-4-D**
		6		**193 139**	**GRLA-M5-QS-6-D**
	G⅛	3		**193 142**	**GRLA-⅛-QS-3-D**
		4		**193 143**	**GRLA-⅛-QS-4-D**
		6		**193 144**	**GRLA-⅛-QS-6-D**
		8		**193 145**	**GRLA-⅛-QS-8-D**
	G¼	6		**193 146**	**GRLA-¼-QS-6-D**
		8		**193 147**	**GRLA-¼-QS-8-D**
		10		**193 148**	**GRLA-¼-QS-10-D**
For supply air					
	M3	3	Metal design	**175 043**	**GRLZ-M3-QS-3**
	M5	3		**193 153**	**GRLZ-M5-QS-3-D**
		4		**193 154**	**GRLZ-M5-QS-4-D**
		6		**193 155**	**GRLZ-M5-QS-6-D**
	G⅛	3		**193 156**	**GRLZ-⅛-QS-3-D**
		4		**193 157**	**GRLZ-⅛-QS-4-D**
		6		**193 158**	**GRLZ-⅛-QS-6-D**
		8		**193 159**	**GRLZ-⅛-QS-8-D**

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.

Custom Automation Components
Complete custom engineered solutions

Custom Control Cabinets
Comprehensive engineering support and on-site services

Complete Systems
Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.

Electromechanical
Electromechanical actuators, motors, controllers & drives

Pneumatics
Pneumatic linear and rotary actuators, valves, and air supply

PLCs and I/O Devices
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Festo North America

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Customer Resource Center
502 Earth City Expy., Suite 125
Earth City, MO 63045

For ordering assistance, or to find
your nearest Festo Distributor,
Call: 1.800.99.FESTO
Fax: 1.800.96.FESTO
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Headquarters
Festo Corporation
395 Moreland Road
P.O. Box 18023
Hauppauge, NY 11788
www.festo.com/us

Sales Offices

Appleton
N. 922 Tower View Drive, Suite N
Greenville, WI 54942

Boston
120 Presidential Way, Suite 330
Woburn, MA 01801

Chicago
1441 East Business Center Drive
Mt. Prospect, IL 60056

Dallas
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Lewisville, TX 75057

Detroit - Automotive Engineering Center
2601 Cambridge Court, Suite 320
Auburn Hills, MI 48326

New York
395 Moreland Road
Hauppauge, NY 11788

Silicon Valley
4935 Southfront Road, Suite F
Livermore, CA 94550

Design and Manufacturing Operations

East: 395 Moreland Road, Hauppauge, NY 11788

Central: 1441 East Business Center Drive, Mt. Prospect, IL 60056

West: 4935 Southfront Road, Suite F, Livermore, CA 94550

Mexico

Headquarters
Festo Pneumatic, S.A.
Av. Ceylán 3, Col. Tequesquinahuac
54020 Tlalnepantla, Edo. de México
Call: 011 52 [55] 53 21 66 00
Fax: 011 52 [55] 53 21 66 65
Email: festo.mexico@mx.festo.com
www.festo.com/mx

Canada

Headquarters
Festo Inc.
5300 Explorer Drive
Mississauga, Ontario L4W 5G4
Call: 1.905.624.9000
Fax: 1.905.624.9001
Email: info.ca@ca.festo.com
www.festo.com/ca

Festo Worldwide

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