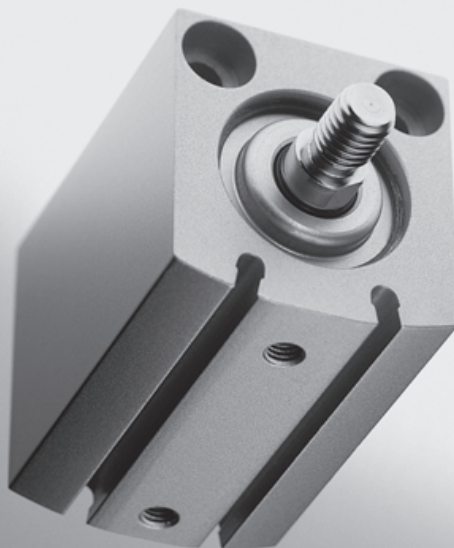


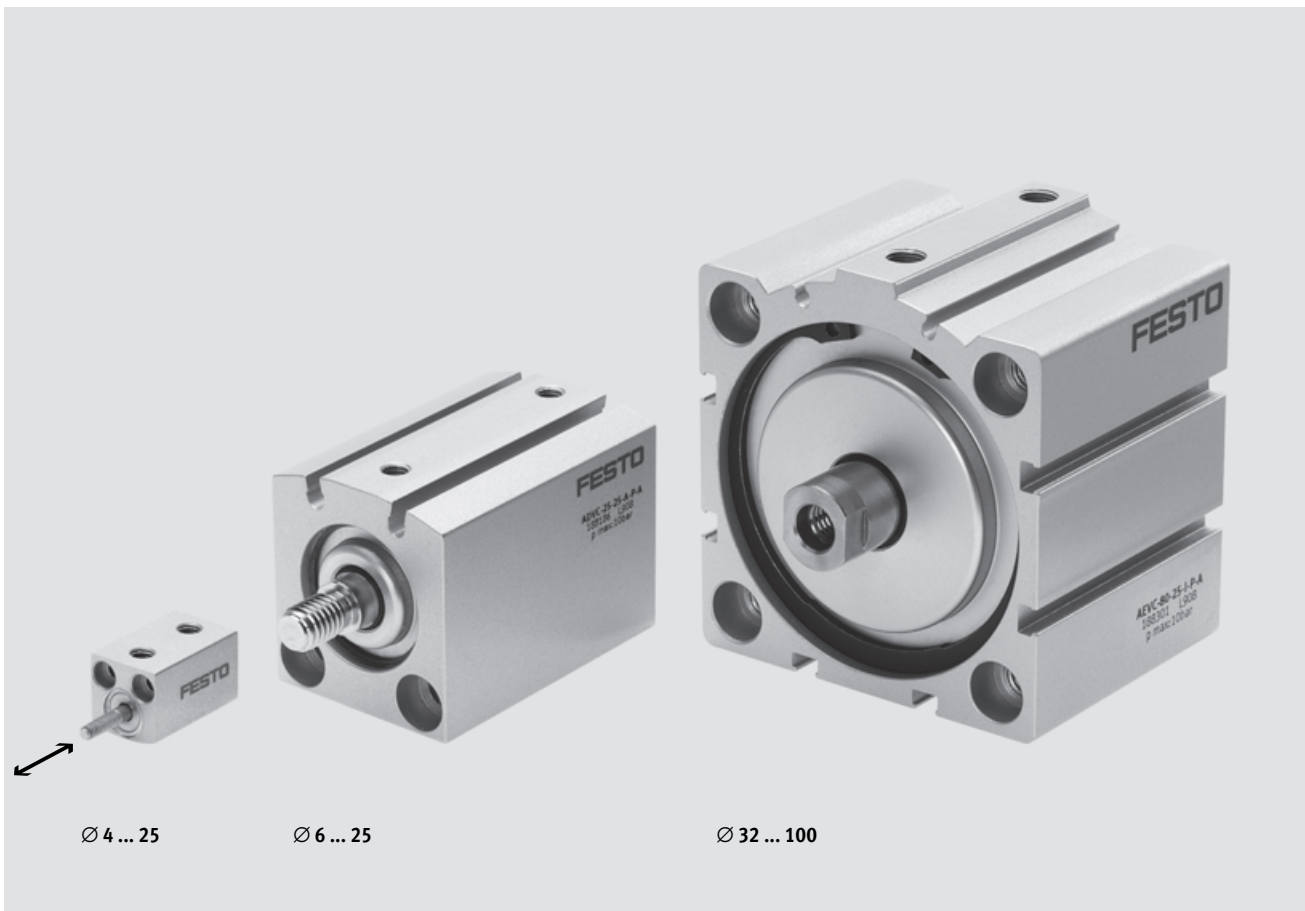
## Short-stroke cylinders ADVC/AEVC

**FESTO**

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

# Short-stroke cylinders ADVC/AEVC

Key features



Ø 4 ... 25

Ø 6 ... 25

Ø 32 ... 100

## Brief description

⊘ Diameter  
4 ... 100 mm

▬ Stroke length  
2.5 ... 25 mm

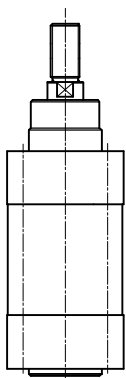
Short-stroke cylinders are ideal for clamping tasks with short strokes, e.g. in retaining devices.

The cylinders offer:

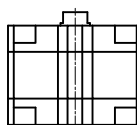
- Rapid response with applied pressure
- Large clamping forces in comparison to their size
- Minimal installation space

- Integrated sensor slots for contacting or contactless proximity sensors
- Mounting hole pattern to VDMA 24 562 for Ø 32 ... 100 mm

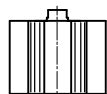
## Fitting space comparison with 10 mm stroke



100%  
Standard cylinder  
DNC

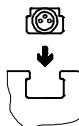


45%  
Compact cylinder  
ADVU

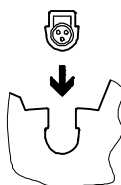


33%  
Short-stroke cylinder  
ADVC

## 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

ADVC – 6 – 5 – A – P – A

**Type**

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

**Piston Ø [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 Ø [mm]	Stroke [mm]	Position sensing
Double-acting	<b>Without position sensing</b>				
		ADVC Ø 4 ... 25	4	2.5; 5	-
			6, 10, 12	5, 10	
			16, 20, 25	5, 10, 15, 20, 25	
		ADVC Ø 32 ... 100	32, 40	5, 10, 15, 20, 25	-
			50, 63, 80, 100	10, 15, 20, 25	
	<b>With position sensing</b>				
		ADVC-...-A Ø 6 ... 25	6, 10, 12	5, 10	■
			16, 20, 25	5, 10, 15, 20, 25	
		ADVC-...-A Ø 32 ... 100	32, 40	5, 10, 15, 20, 25	■
50, 63, 80, 100			10, 15, 20, 25		
Single-acting	<b>Without position sensing</b>				
		AEVC Ø 4 ... 25	4	2.5; 5	-
			6, 10, 12	5, 10	
			16, 20, 25	5, 10, 25	
		AEVC Ø 32 ... 100	32	5, 10, 25	-
			40, 50, 63, 80, 100	10, 25	
	<b>With position sensing</b>				
		AEVC-...-A Ø 6 ... 25	6, 10, 12	5, 10	■
			16, 20, 25	5, 10, 25	
		AEVC-...-A Ø 32 ... 100	32	5, 10, 25	■
40, 50, 63, 80, 100			10, 25		

# Short-stroke cylinders ADVC/AEVC

Product range overview

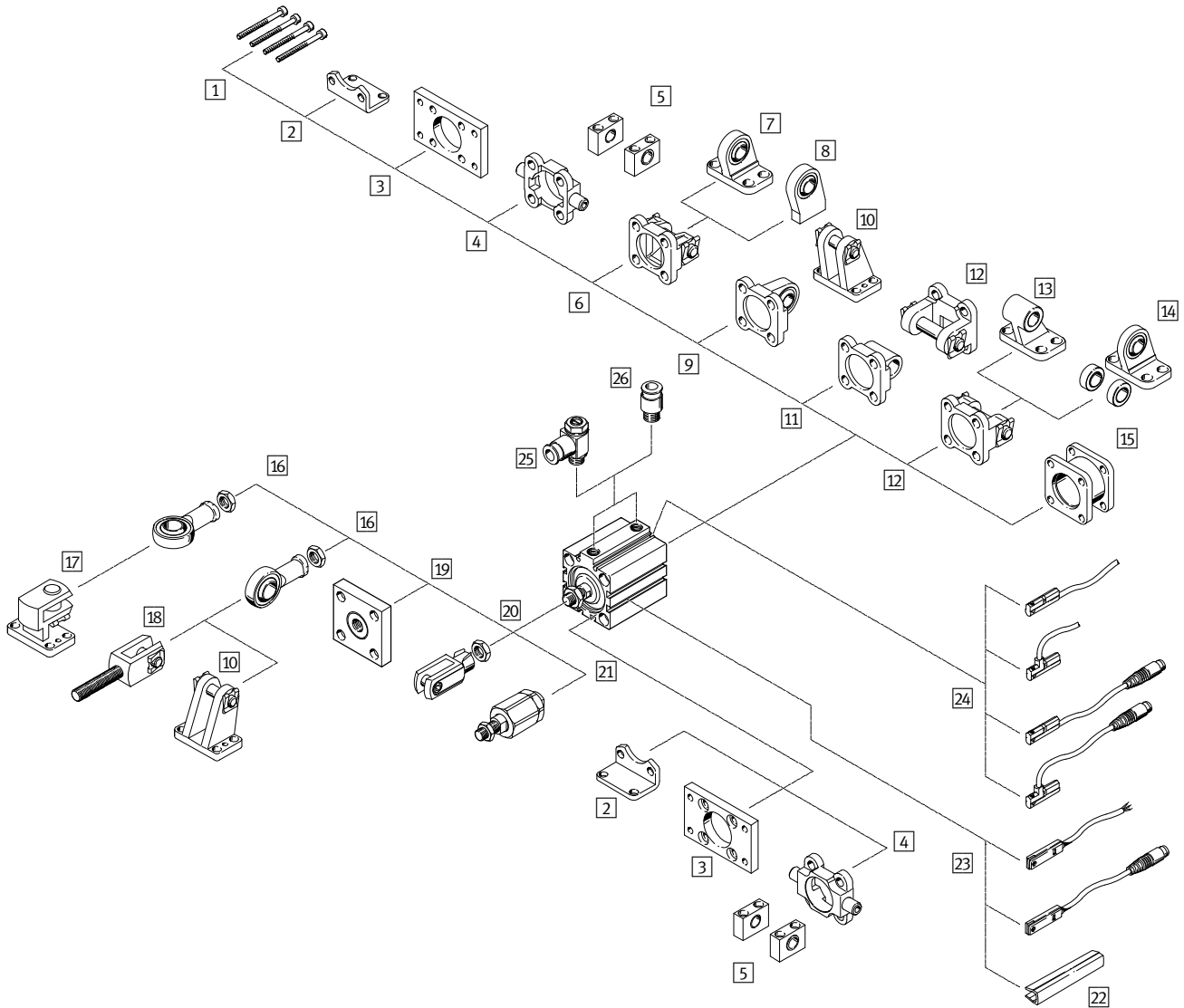
Type	Piston rod			Cushioning	→ Page/Internet
	With male thread	With female thread	Without thread		
<b>Without position sensing</b>					
ADVC Ø 4 ... 25	■	■ From Ø 12	■ Ø 4 ... 12	■	8
ADVC Ø 32 ... 100	■	■	-	■	8
<b>With position sensing</b>					
ADVC-...-A Ø 6 ... 25	■	■ From Ø 12	■ Ø 6 ... 12	■	16
ADVC-...-A Ø 32 ... 100	■	■	-	■	16
<b>Without position sensing</b>					
AEVC Ø 4 ... 25	■	■ From Ø 12	■ Ø 4 ... 12	■	24
AEVC Ø 32 ... 100	■	■	-	■	24
<b>With position sensing</b>					
AEVC-...-A Ø 6 ... 25	■	■ From Ø 12	■ Ø 6 ... 12	■	30
AEVC-...-A Ø 32 ... 100	■	■	-	■	30

# Short-stroke cylinders ADVC/AEVC

Peripherals overview

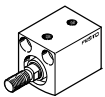


Ø 32 ... 100 mm



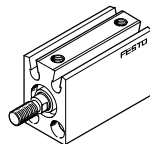
Ø 4 ... 25 mm

Without position sensing



Ø 6 ... 25 mm

With position sensing



# Short-stroke cylinders ADVC/AEVC

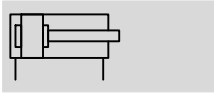
Peripherals overview

FESTO

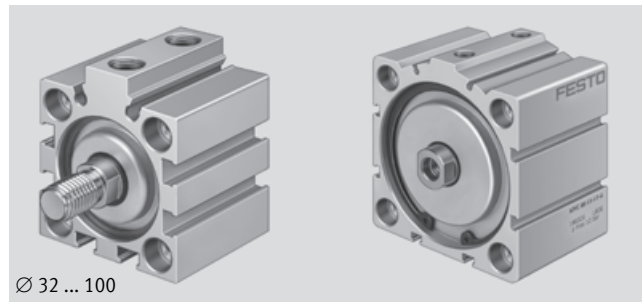
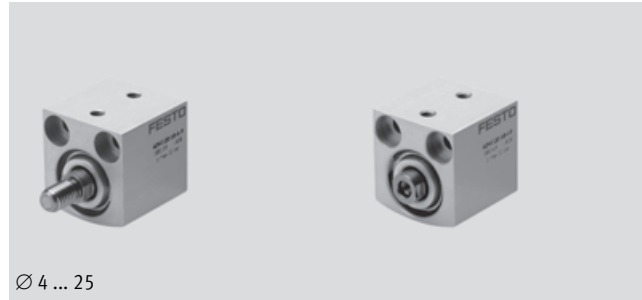
Mounting attachments and accessories						
	Brief description	Piston Ø			→ Page/Internet	
		4, 6, 12	10, 16 ... 25	32 ... 100		
1	Mounting screws	Not included in scope of delivery	■ DIN 84	■ DIN 912	■ DIN 912	–
1	Mounting screws for Ø 80, 100	Not included in scope of delivery	–	–	■	45
2	Foot mounting HNC	For bearing and end caps	–	–	■	37
3	Flange mounting FNC	For bearing or end caps	–	–	■	38
4	Trunnion flange ZNCF	For bearing or end caps	–	–	■	39
5	Trunnion support LNZG	–	–	–	■	40
6	Swivel flange SNC	For end caps	–	–	■	41
7	Clevis foot LSNG	With spherical bearing	–	–	■	45
8	Clevis foot LSNSG	Weld-on, with spherical bearing	–	–	■	45
9	Swivel flange SNCS	With spherical bearing for end caps	–	–	■	43
10	Clevis foot LBG	–	–	–	■	45
11	Swivel flange SNCL	For end caps	–	–	■	44
12	Swivel flange SNCB	For end caps	–	–	■	42
13	Clevis foot LNG	–	–	–	■	45
14	Clevis foot LSN	With spherical bearing	–	–	■	45
15	Adapter kit DPNC	For connecting two cylinders with identical piston diameter to form a multi-position cylinder	–	–	■	36
16	Rod eye SGS	With spherical bearing	–	■	■	46
17	Right-angle clevis foot LQG	–	–	■	■	45
18	Rod clevis SGA	With male thread	–	–	■	46
19	Coupling piece KSG	For compensating radial deviations	–	–	■	46
20	Rod clevis SG	Permits a swivelling movement of the cylinder in one plane	–	■	■	46
21	Self-aligning rod coupler FK	For compensating radial and angular deviations	■ Ø 12	■	■	46
22	Slot cover ABP-5-S	To protect the sensor cable and keep dirt out of the sensor slots	–	–	■	47
23	Proximity sensors SME/SMT-8	Can be integrated in the cylinder profile barrel	–	–	■	47
24	Proximity sensors SME/SMT-10	Can be integrated in the cylinder profile barrel	–	■	■	48
25	One-way flow control valve GRLA	To regulate speed	■	■	■	48
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



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



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	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]												
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)												
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 ... 8	1.5 ... 8	1 ... 8	1 ... 10				0.6 ... 10					
Ambient temperature [°C]	-20 ... +80												
Corrosion resistance class CRC <sup>1)</sup>	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

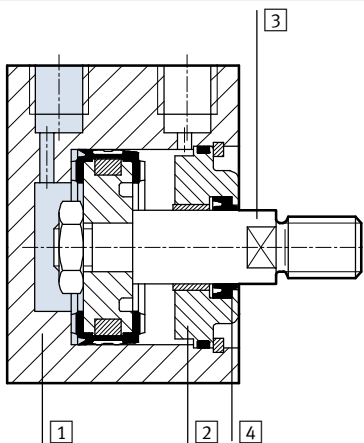
Forces [N] and impact energy [J]													
Piston Ø	4	6	10	12	16	20	25	32	40	50	63	80	100
Theoretical force at 6 bar, advancing	7.5	17	47	68	121	189	295	483	754	1,178	1,870	3,016	4,712
Theoretical force at 6 bar, returning	5.7	13	40	51	91	141	247	415	686	1,056	1,750	2,847	4,418
Max. impact energy 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 Ø												
	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 Ø												
	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	Ø 4	Ø 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 ADVC

Technical data, double-acting – without position sensing

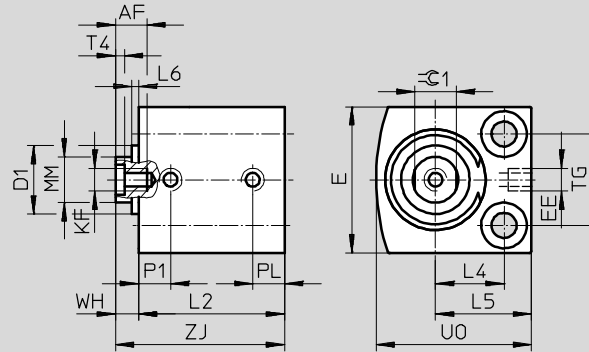
**Dimensions**

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

∅ 4 ... 25 mm

ADVC-...-I-P

Piston rod with female 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.

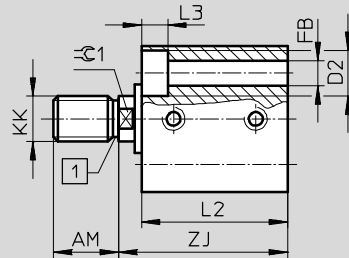
∅ 12 mm

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

1 No undercut with diameter 4/6/10.

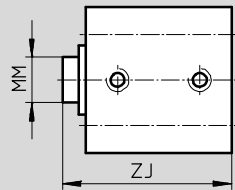
ADVC-...-A-P

Piston rod with male thread



ADVC-...-P

Piston rod without thread



# Short-stroke cylinders ADVC

Technical data, double-acting – without position sensing

∅ [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 <sup>+0.1</sup>	10	M3	1.8	-	M2	13	1.8
	5										15.5	
6	5	-	6	-	5 <sup>+0.1</sup>	13	M3	2.9	-	M3	16	2.9
	10										21	
10	5	-	8	7.5	5.8 <sup>+0.1</sup>	18	M5	3.4	-	M4	21	3.4
	10										24	
12	5	8	8	10.7	6 <sup>H13</sup>	20	M5	3.4	M3	M5	23	3.4
	10										28	
16	5	10	12	-	8 <sup>H13</sup>	25	M5	4.5	M4	M6	23	4.6
	10										28	
	15										33	
	20										38	
	25										43	
20	5	12	12	-	10 <sup>H13</sup>	32	M5	5.5	M5	M8	27	5.7
	10										32	
	15										37	
	20										42	
	25										47	
25	5	12	12	-	10 <sup>H13</sup>	38	M5	5.5	M5	M8	27.5	5.7
	10										32.5	
	15										37.5	
	20										42.5	
	25										47.5	

∅ [mm]	Stroke [mm]	L4	L5	L6 max.	MM ∅	P1	PL	T4	TG ±0.1	UO max.	WH	ZJ ±0.8	≙C1
4	2.5	4	6.5	-	2	3.7	3.2	-	5.8	10	1	14	-
	5											16.5	
6	5	6	9	-	3	4.7	3	-	7	14	1	17	-
	10											22	
10	5	8	11.5	0.7	4	5.2	5.2	-	11	19	1.5	22.5	-
	10					6	5.5					25.5	
12	5	9	13	0.4	6	5.75	5.75	1.5	13	22	4	27	5
	10					9	6					32	
16	5	11.5	16.5	-	8	6	6	2	15	27	4	27	7
	10					32							
	15					37							
	20					42							
	25					47							
20	5	15	21	-	10	7.5	7	2	20	34	5	32	9
	10											37	
	15											42	
	20											47	
	25											52	
25	5	15.5	21.5	-	10	8	6.5	2	26	37	5	32.5	9
	10											37.5	
	15											42.5	
	20											47.5	
	25											52.5	

# Short-stroke cylinders ADVC

Technical data, double-acting – without position sensing



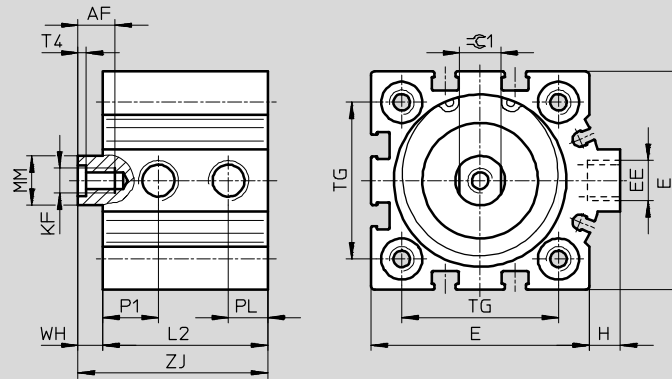
## Dimensions

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

∅ 32 ... 100 mm

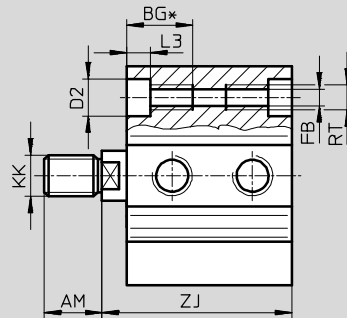
ADVC-...-I-P

Piston rod with female thread



ADVC-...-A-P\*\*

Piston rod with male thread



∅	AF	AM	BG*	D2	E	EE	FB	H	KF	KK
[mm]	min.	-0.5	min.	∅ F9	max.		∅			
32	12	14	21.7	9	45	G $\frac{1}{8}$	5.2	7	M6	M10x1.25
40	12	14	21.7	9	53.5	G $\frac{1}{8}$	5.2	7	M6	M10x1.25
50	16	16	22.8	11	63.5	G $\frac{1}{8}$	6.8	7	M8	M12x1.25
63	16	16	22.8	11	75	G $\frac{1}{8}$	6.8	7.5	M8	M12x1.25
80	20	22	25	14	93	G $\frac{1}{8}$	8.5	7	M10	M16x1.5
100	24	28	25	14	113	G $\frac{1}{4}$	8.5	13	M12	M20x1.5

\* 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

∅ [mm]	Stroke [mm]	L2 +0.2	L3	MM ∅	P1	PL	RT	T4	TG ±0.1	WH	ZJ ±0.8	≈C1
32	5	34	5.7	12	9	8.5	M6	2.6	32.5	6	40	10
	10	39									45	
	15	44									50	
	20	49									55	
	25	54									60	
40	5	34.5	5.7	12	11	9	M6	2.6	38	6	40.5	10
	10	39.5									45.5	
	15	44.5									50.5	
	20	49.5									55.5	
	25	54.5									60.5	
50	10	38	6.8	16	11.3	9.5	M8	3.3	46.5	8	46	13
	15	43									51	
	20	48									56	
	25	53									61	
63	10	45	6.8	16	12.5	11.5	M8	3.3	56.5	8	53	13
	15	50									58	
	20	55									63	
	25	60									68	
80	10	50	9	20	15	15	M10	4.7	72	8	58	17
	15	55									63	
	20	60									68	
	25	65									73	
100	10	59	9	25	16.5	19	M10	6.1	89	10	69	22
	15	64									74	
	20	69									79	
	25	74									84	

# Short-stroke cylinders ADVC


Technical data, double-acting – without position sensing

Ordering data								
Type	Piston Ø [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

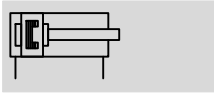
Technical data, double-acting – without position sensing

FESTO

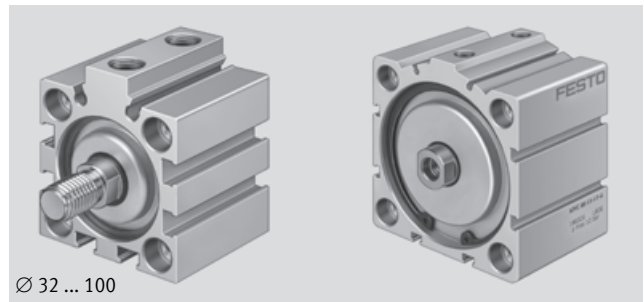
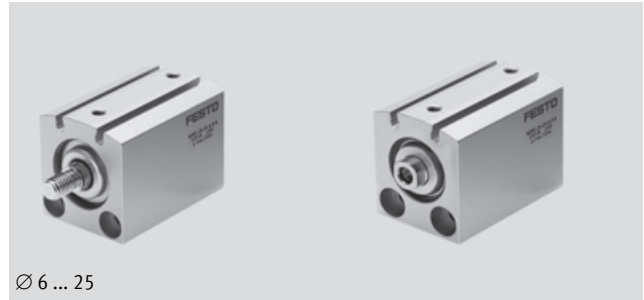
Ordering data						
Type	Piston Ø [mm]	Stroke [mm]	Piston rod with male thread		Piston rod with female thread	
			Part No.	Type	Part No.	Type
	32	5	188 219	ADVC-32-5-A-P	188 209	ADVC-32-5-I-P
		10	188 220	ADVC-32-10-A-P	188 210	ADVC-32-10-I-P
		15	188 221	ADVC-32-15-A-P	188 211	ADVC-32-15-I-P
		20	188 222	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



- $\varnothing$  - Diameter  
6 ... 100 mm
- | - Stroke length  
5 ... 25 mm



General technical data												
Piston $\varnothing$	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	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]											
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)											
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 $\varnothing$	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 <sup>1)</sup>	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

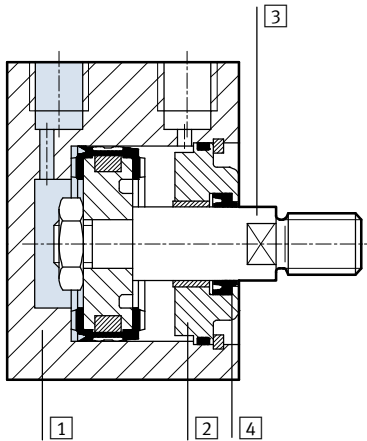
Forces [N] and impact energy [J]												
Piston Ø	6	10	12	16	20	25	32	40	50	63	80	100
Theoretical force at 6 bar, advancing	17	47	68	121	189	295	483	754	1,178	1,870	3,016	4,712
Theoretical force at 6 bar, returning	13	40	51	91	141	247	415	686	1,056	1,750	2,847	4,418
Max. impact energy at end positions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

# Short-stroke cylinders ADVC

Technical data, double-acting – with position sensing



**Dimensions**

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

1 No undercut with diameter 6/10.

1 Slot for proximity sensor SME/SMT-10

∅ [mm]	Stroke [mm]	AF min.	AM -0.5	D1 ∅ max.	D2 ∅	E max.	EE	FB ∅	KF	KK	L2 +0.2	L3
6	5	-	6	-	5 +0.1	16	M3	2.9	-	M3	25.5	2.9
	10										30.5	
10	5	-	8	7.5	5.8 +0.1	21	M5	3.4	-	M4	27	3.4
	10										32	
12	5	8	8	10.7	6 H13	24	M5	3.4	M3	M5	36	3.4
	10										41	
16	5	10	12	-	8 H13	28	M5	4.5	M4	M6	35	4.6
	10										40	
	15										45	
	20										50	
	25										55	
20	5	12	12	-	10 H13	32	M5	5.5	M5	M8	37	5.7
	10										42	
	15										47	
	20										52	
	25										57	
25	5	12	12	-	10 H13	38	M5	5.5	M5	M8	37	5.7
	10										42	
	15										47	
	20										52	
	25										57	

# Short-stroke cylinders ADVC

Technical data, double-acting – with position sensing

∅ [mm]	Stroke [mm]	L4	L5	L6 max.	MM ∅	P1	PL	T4	TG ±0.1	U0 max.	WH	ZJ ±0.8	≅C1
6	5	5	8	-	3	5.2	3	-	10	16	1	26.5	-
	10											31.5	
10	5	7	10.5	0.7	4	6	6	-	14	22	1.5	28.5	-
	10											33.5	
12	5	8	12	0.4	6	7	6	1.5	16	26	4	40	5
	10											45	
16	5	12	17	-	8	8	6	2	18	32	4	39	7
	10											44	
	15											49	
	20											54	
	25											59	
20	5	15	21	-	10	7.5	7	2	20	39	5	42	9
	10											47	
	15											52	
	20											57	
	25											62	
25	5	15.5	21.5	-	10	10	6	2	26	42	5	42	9
	10											47	
	15											52	
	20											57	
	25											62	

# Short-stroke cylinders ADVC

Technical data, double-acting – with position sensing



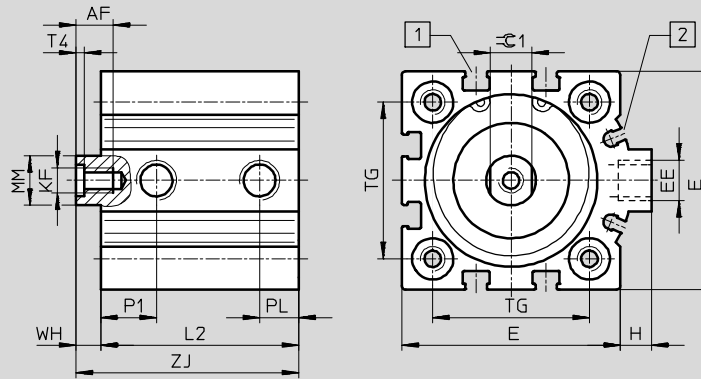
## Dimensions

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

∅ 32 ... 100 mm

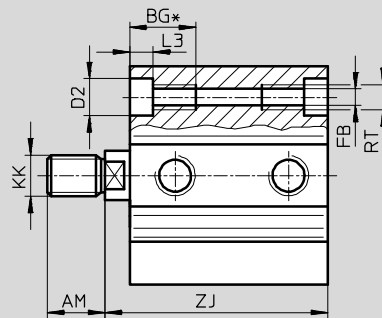
ADVC-...-I-P-A

Piston rod with female thread



ADVC-...-A-P-A\*\*

Piston rod with male thread



- 1 Slot for proximity sensor SME/SMT-8
- 2 Slot for proximity sensor SME/SMT-10

∅	AF	AM	BG*	D2	E	EE	FB	H	KF	KK
[mm]	min.	-0.5	min.	∅ F9	max.		∅			
32	12	14	21.7	9	45	G $\frac{1}{8}$	5.2	7	M6	M10x1.25
40	12	14	21.7	9	53.5	G $\frac{1}{8}$	5.2	7	M6	M10x1.25
50	16	16	22.8	11	63.5	G $\frac{1}{8}$	6.8	7	M8	M12x1.25
63	16	16	22.8	11	75	G $\frac{1}{8}$	6.8	7.5	M8	M12x1.25
80	20	22	25	14	93	G $\frac{1}{8}$	8.5	7	M10	M16x1.5
100	24	28	25	14	113	G $\frac{1}{4}$	8.5	13	M12	M20x1.5

\* 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

∅ [mm]	Stroke [mm]	L2 +0.2	L3	MM ∅	P1	PL	RT	T4	TG ±0.1	WH	ZJ ±0.8	≈C1
32	5	38	5.7	12	9	8.5	M6	2.6	32.5	6	44	10
	10	43									49	
	15	48									54	
	20	53									59	
	25	58									64	
40	5	43	5.7	12	13.5	9.5	M6	2.6	38	6	49	10
	10	48									54	
	15	53									59	
	20	58									64	
	25	63									69	
50	10	48	6.8	16	11.3	9.5	M8	3.3	46.5	8	56	13
	15	53									61	
	20	58									66	
	25	63									71	
63	10	51	6.8	16	12.5	10.5	M8	3.3	56.5	8	59	13
	15	56									64	
	20	61									69	
	25	66									74	
80	10	59	9	20	15	8.5	M10	4.7	72	8	67	17
	15	64									72	
	20	69									77	
	25	74									82	
100	10	68	9	25	16.5	10.5	M10	6.1	89	10	78	22
	15	73									83	
	20	78									88	
	25	83									93	

# Short-stroke cylinders ADVC


Technical data, double-acting – with position sensing

Ordering data								
Type	Piston Ø [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
	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



Ordering data						
Type	Piston Ø [mm]	Stroke [mm]	Piston rod with male thread		Piston rod with female thread	
			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

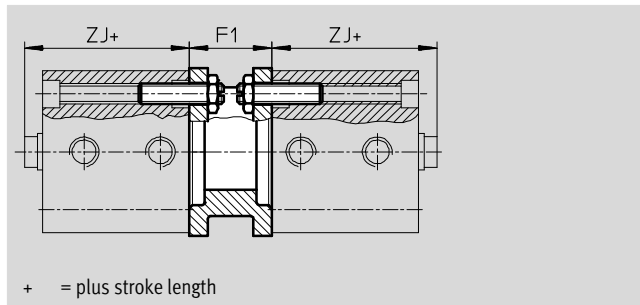
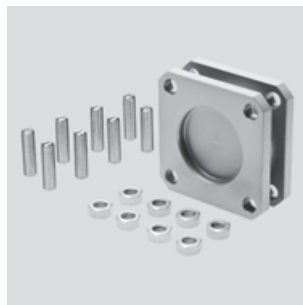
# Short-stroke cylinders ADVC/AEVC

Accessories



## Adapter kit DPNC

Material:  
 Flange: Wrought aluminium alloy  
 Threaded studs, hex nuts: Galvanised steel  
 Free of copper and PTFE  
 RoHS-compliant



Dimensions and ordering data								Weight [g]	Part No.	Type
For $\varnothing$ [mm]	Stroke [mm]	F1	ZJ							
			without position sensing		with position sensing					
			ADVC	AEVC	ADVC	AEVC				
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 $\varnothing$ 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.

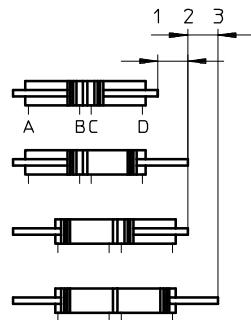
This means that depending upon actuation and stroke pattern, this type of cylinder can assume up to four

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.

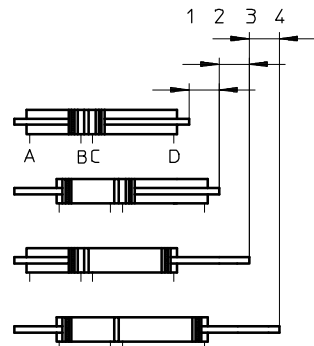
### To achieve 3 positions

Two cylinders with identical stroke length must be connected together.



### To achieve 4 positions

Two cylinders with different stroke lengths must be connected together.



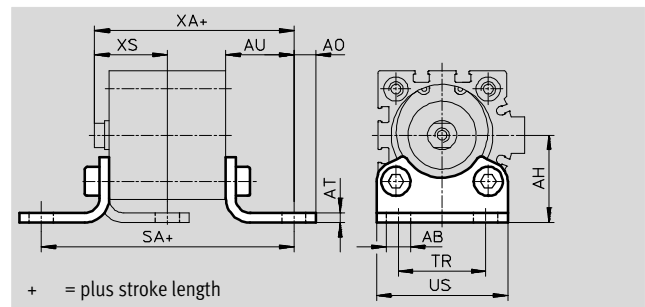


# Short-stroke cylinders ADVC/AEVC

Accessories

## Foot mounting HNC

Material:  
Galvanised steel  
Free of copper and PTFE



Dimensions and ordering data												
For $\varnothing$ [mm]	Stroke [mm]	AB $\varnothing$	AH	AO	AT	AU	SA				TR	US
							without position sensing		with position sensing			
							ADVC	AEVC	ADVC	AEVC		
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 $\varnothing$ [mm]	Stroke [mm]	XA				XS				CRC <sup>1)</sup>	Weight [g]	Part No.	Type
		without position sensing		with position sensing		without position sensing		with position sensing					
		ADVC	AEVC	ADVC	AEVC	ADVC	AEVC	ADVC	AEVC				
32	5	59	46	63	63	26	21	26	26	2	144	174 369	HNC-32
	10, 15, 20, 25		50										
40	5, 10	63.5	53.5	72	72	30	25	30	30	2	193	174 370	HNC-40
	15, 20, 25		58.5										
50	10	68	53.1	78	80	35	27.5	35	35	2	353	174 371	HNC-50
	15, 20, 25		60.5										
63	10	75	58	81	81	35	28	35	35	2	436	174 372	HNC-63
	15, 20, 25		65										
80	10, 15, 20, 25	89	84	98	98	43	36	43	43	2	829	174 373	HNC-80
100	10, 15, 20, 25	100	91	109	109	45	36	45	45	2	1,009	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  $\varnothing$  80 mm and  $\varnothing$  100 mm. →45

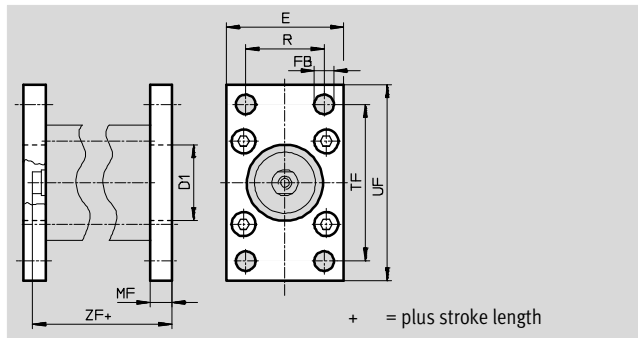
# Short-stroke cylinders ADVC/AEVC

Accessories



## Flange mounting FNC


Material:  
Galvanised steel  
Free of copper and PTFE  
RoHS-compliant



Dimensions and ordering data								
For $\varnothing$ [mm]	Stroke [mm]	D1 $\varnothing$ H11	E	FB $\varnothing$ 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 $\varnothing$ [mm]	Stroke [mm]	ZF				CRC <sup>1)</sup>	Weight [g]	Part No.	Type
		without position sensing		with position sensing					
		ADVC	AEVC	ADVC	AEVC				
32	5	45	32	49	49	1	221	<b>174 376</b>	<b>FNC-32</b>
	10, 15, 20, 25		36						
40	5, 10	45.5	35.5	54	54	1	291	<b>174 377</b>	<b>FNC-40</b>
	15, 20, 25		40.5						
50	10	48	33.5	58	60	1	536	<b>174 378</b>	<b>FNC-50</b>
	15, 20, 25		40.5						
63	10	55	38	61	61	1	679	<b>174 379</b>	<b>FNC-63</b>
	15, 20, 25		45						
80	10, 15, 20, 25	64	59	73	73	1	1,495	<b>174 380</b>	<b>FNC-80</b>
100	10, 15, 20, 25	75	66	84	84	1	2,041	<b>174 381</b>	<b>FNC-100</b>

1) Corrosion resistance class 1 according to Festo standard 940 070  
Components with light corrosion exposure. Protection for transport and storage. Components without significant decorative function or surface, e.g. installed out of sight internally or behind covers.

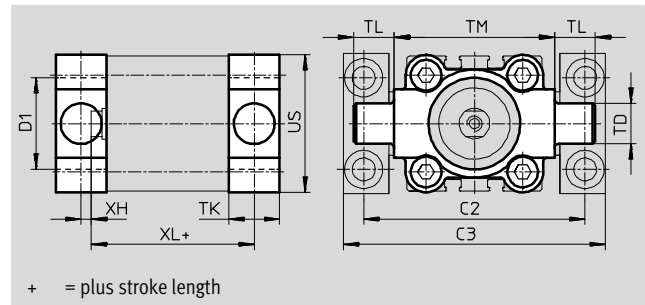
-  - Note  
Screws with special lengths are required to fit the sizes  $\varnothing$  80 mm and  $\varnothing$  100 mm. →45

# Short-stroke cylinders ADVC/AEVC

Accessories

## Trunnion flange ZNCF

Material:  
Special steel casting  
Free of copper and PTFE  
RoHS-compliant



Dimensions and ordering data										
For $\varnothing$	Stroke	C2	C3	D1	TD	TK	TL	TM	US	XH
[mm]	[mm]			$\varnothing$ H11	$\varnothing$ e9					
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 $\varnothing$	Stroke	XL				CRC <sup>1)</sup>	Weight	Part No.	Type
		without position sensing		with position sensing					
[mm]	[mm]	ADVC	AEVC	ADVC	AEVC		[g]		
32	5	43	30	47	47	2	150	174 411	ZNCF-32
	10, 15, 20, 25		34						
40	5, 10	45.5	35.5	54	54	2	285	174 412	ZNCF-40
	15, 20, 25		40.5						
50	10	48	33.1	58	60	2	473	174 413	ZNCF-50
	15, 20, 25		40.5						
63	10	55	38	61	61	2	687	174 414	ZNCF-63
	15, 20, 25		45						
80	10, 15, 20, 25	62	57	71	71	2	1,296	174 415	ZNCF-80
100	10, 15, 20, 25	78	69	87	87	2	2,254	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  $\varnothing$  80 mm and  $\varnothing$  100 mm. → 45

# Short-stroke cylinders ADVC/AEVC

Accessories



## Trunnion support LNZG

Material:

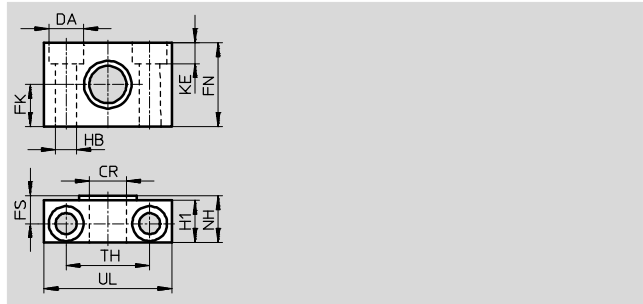
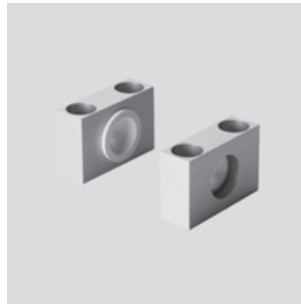
Trunnion support:

Anodised aluminium

Plain bearing: Plastic

Free of copper and PTFE

RoHS-compliant



Dimensions and ordering data														Weight	Part No.	Type
For $\varnothing$	CR	DA	FK	FN	FS	H1	HB	KE	NH	TH	UL	CRC <sup>1)</sup>				
[mm]	$\varnothing$ D11	$\varnothing$ H13	$\varnothing$ $\pm 0.1$				$\varnothing$ H13			$\pm 0.2$				[g]		
32	12	11	15	30	10.5	15	6.6	6.8	18	32	46	2	90	<b>32 959</b>	<b>LNZG-32</b>	
40, 50	16	15	18	36	12	18	9	9	21	36	55	2	140	<b>32 960</b>	<b>LNZG-40/50</b>	
63, 80	20	18	20	40	13	20	11	11	23	42	65	2	190	<b>32 961</b>	<b>LNZG-63/80</b>	
100	25	20	25	50	16	24.5	14	13	28.5	50	75	2	320	<b>32 962</b>	<b>LNZG-100/125</b>	

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

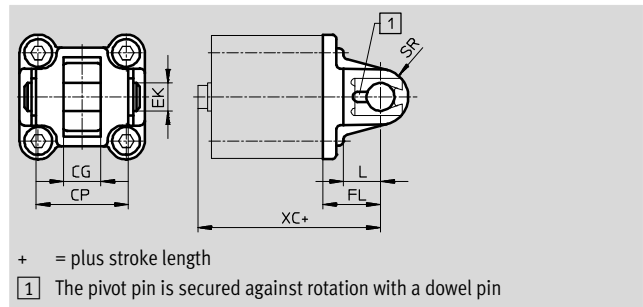
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents

# Short-stroke cylinders ADVC/AEVC

Accessories

## Swivel flange SNC

Material:  
Die-cast aluminium  
Free of copper and PTFE  
RoHS-compliant



Dimensions and ordering data							
For $\varnothing$	Stroke	CG	CP	EK	FL	L	SR
[mm]	[mm]	H14	h14	$\varnothing$ h9	$\pm 0.2$		
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 $\varnothing$	Stroke	XC				CRC <sup>1)</sup>	Weight	Part No.	Type
		without position sensing		with position sensing					
[mm]	[mm]	ADVC	AEVC	ADVC	AEVC		[g]		
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  $\varnothing$  80 mm and  $\varnothing$  100 mm. → 45

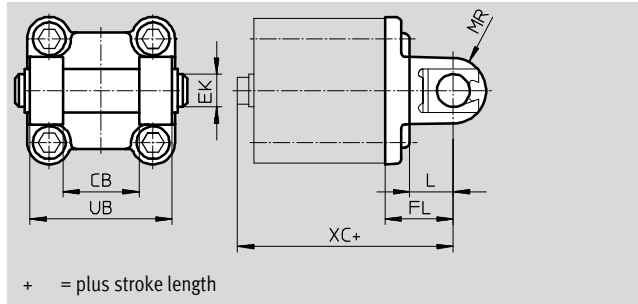
# Short-stroke cylinders ADVC/AEVC

Accessories



## Swivel flange SNCB

Material:  
Die-cast aluminium  
Free of copper and PTFE  
RoHS-compliant



Dimensions and ordering data								
For $\varnothing$	Stroke	CB	EK	FL	L	ML	MR	UB
[mm]	[mm]	H14	$\varnothing$ e8	$\pm 0.2$				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 $\varnothing$	Stroke	XC				CRC <sup>1)</sup>	Weight	Part No.	Type
		without position sensing		with position sensing					
[mm]	[mm]	ADVC	AEVC	ADVC	AEVC		[g]		
32	5	57	44	61	61	2	103	174 390	SNCB-32
	10, 15, 20, 25		48						
40	5, 10	60.5	50.5	69	69	2	155	174 391	SNCB-40
	15, 20, 25		55.5						
50	10	63	48.1	73	75	2	232	174 392	SNCB-50
	15, 20, 25		55.5						
63	10	75	58	81	81	2	375	174 393	SNCB-63
	15, 20, 25		65						
80	10, 15, 20, 25	84	79	93	93	2	636	174 394	SNCB-80
100	10, 15, 20, 25	100	91	109	109	2	1,035	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

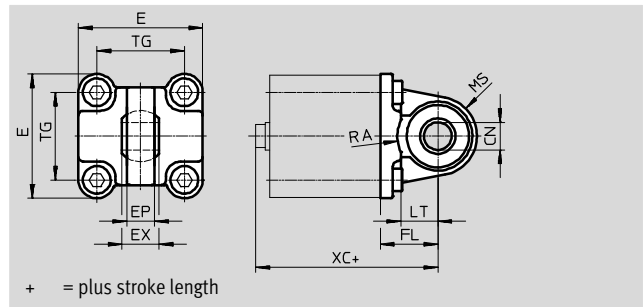
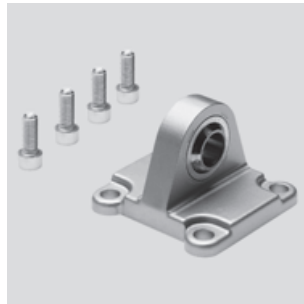
- Note  
Screws with special lengths are required to fit the sizes  $\varnothing$  80 mm and  $\varnothing$  100 mm. → 45

# Short-stroke cylinders ADVC/AEVC

Accessories

## Swivel flange SNCS

Material:  
 SNCS 32 ... 80:  
 Die-cast aluminium  
 SNCS 100:  
 Wrought aluminium alloy  
 Free of copper and PTFE  
 RoHS-compliant



Dimensions and ordering data										
For $\varnothing$	Stroke	CN $\varnothing$	E	EP	EX	FL	LT	MS	RA	TG
[mm]	[mm]			$\pm 0.2$		$\pm 0.2$			+1	
32	5	10 <sup>+0.013</sup>	45 <sup>+0.2/-0.5</sup>	10.5	14	22	13	15 <sup>+0.5</sup>	14.5	32.5
	10, 15, 20, 25									
40	5, 10	12 <sup>+0.015</sup>	54 <sup>-0.5</sup>	12	16	25	16	17 <sup>+0.5</sup>	17.5	38
	15, 20, 25									
50	10	16 <sup>+0.015</sup>	64 <sup>-0.6</sup>	15	21	27	16	20 <sup>+0.5</sup>	18.5	46.5
	15, 20, 25									
63	10	16 <sup>+0.015</sup>	75 <sup>-0.6</sup>	15	21	32	21	23 <sup>-0.5</sup>	23	56.5
	15, 20, 25									
80	10, 15, 20, 25	20 <sup>+0.018</sup>	93 <sup>-0.8</sup>	18	25	36	22	28 <sup>-0.5</sup>	25	72
100	10, 15, 20, 25	20 <sup>+0.018</sup>	109 <sup>+1/-0.7</sup>	18	25	41	27	30 <sup>+0.5</sup>	95	89

For $\varnothing$	Stroke	XC				CRC <sup>1)</sup>	Weight [g]	Part No.	Type
		without position sensing		with position sensing					
[mm]	[mm]	ADVC	AEVC	ADVC	AEVC				
32	5	57	44	61	61	2	86	174 397	SNCS-32
	10, 15, 20, 25		48						
40	5, 10	60.5	50.5	69	69	2	122	174 398	SNCS-40
	15, 20, 25		55.5						
50	10	63	48.1	73	75	2	216	174 399	SNCS-50
	15, 20, 25		55.5						
63	10	75	58	81	81	2	281	174 400	SNCS-63
	15, 20, 25		65						
80	10, 15, 20, 25	84	79	93	93	2	557	174 401	SNCS-80
100	10, 15, 20, 25	100	91	109	109	2	690	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  $\varnothing$  80 mm and  $\varnothing$  100 mm. → 45

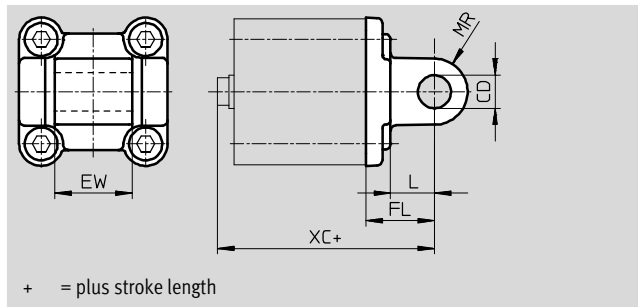
# Short-stroke cylinders ADVC/AEVC

Accessories



## Swivel flange SNCL

Material:  
Die-cast aluminium  
Free of copper and PTFE  
RoHS-compliant



Dimensions and ordering data						
For $\varnothing$	Stroke	CD	EW	FL	L	MR
[mm]	[mm]	$\varnothing$ H9	-0.2/-0.6	$\pm 0.2$		
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 $\varnothing$	Stroke	XC				CRC <sup>1)</sup>	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

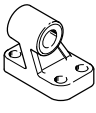
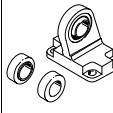

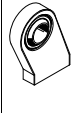
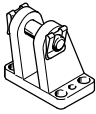
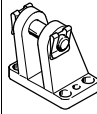
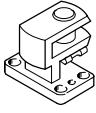
- Note  
Screws with special lengths are required to fit the sizes  $\varnothing$  80 mm and  $\varnothing$  100 mm. → 45




# Short-stroke cylinders ADVC/AEVC

Accessories

**FESTO**

Ordering data – Mounting attachments				Technical data → Internet: clevis foot			
Designation	For Ø	Part No.	Type	Designation	For Ø	Part No.	Type
<b>Clevis foot mounting LNG</b>				<b>Clevis foot mounting LSN</b>			
	32	<b>33 890</b>	<b>LNG-32</b>		32	<b>5 561</b>	<b>LSN-32</b>
	40	<b>33 891</b>	<b>LNG-40</b>		40	<b>5 562</b>	<b>LSN-40</b>
	50	<b>33 892</b>	<b>LNG-50</b>		50	<b>5 563</b>	<b>LSN-50</b>
	63	<b>33 893</b>	<b>LNG-63</b>		63	<b>5 564</b>	<b>LSN-63</b>
	80	<b>33 894</b>	<b>LNG-80</b>		80	<b>5 565</b>	<b>LSN-80</b>
	100	<b>33 895</b>	<b>LNG-100</b>		100	<b>5 566</b>	<b>LSN-100</b>
<b>Clevis foot mounting LSNG</b>				<b>Weld-on clevis foot mounting LSNSG</b>			
	32	<b>31 740</b>	<b>LSNG-32</b>		32	<b>31 747</b>	<b>LSNSG-32</b>
	40	<b>31 741</b>	<b>LSNG-40</b>		40	<b>31 748</b>	<b>LSNSG-40</b>
	50	<b>31 742</b>	<b>LSNG-50</b>		50	<b>31 749</b>	<b>LSNSG-50</b>
	63	<b>31 743</b>	<b>LSNG-63</b>		63	<b>31 750</b>	<b>LSNSG-63</b>
	80	<b>31 744</b>	<b>LSNG-80</b>		80	<b>31 751</b>	<b>LSNSG-80</b>
	100	<b>31 745</b>	<b>LSNG-100</b>		100	<b>31 752</b>	<b>LSNSG-100</b>
<b>Clevis foot LBG on swivel flange SNCS</b>				<b>Clevis foot LBG on rod eye SGS</b>			
	32	<b>31 761</b>	<b>LBG-32</b>		32, 40	<b>31 761</b>	<b>LBG-32</b>
	40	<b>31 762</b>	<b>LBG-40</b>		50, 63	<b>31 762</b>	<b>LBG-40</b>
	50	<b>31 763</b>	<b>LBG-50</b>		80	<b>31 763</b>	<b>LBG-50</b>
	63	<b>31 764</b>	<b>LBG-63</b>			<b>31 764</b>	<b>LBG-63</b>
	80	<b>31 765</b>	<b>LBG-80</b>		100	<b>31 765</b>	<b>LBG-80</b>
	100	<b>31 766</b>	<b>LBG-100</b>			<b>31 766</b>	<b>LBG-100</b>
<b>Clevis foot, right-angled LQG</b>							
	32, 40	<b>31 768</b>	<b>LQG-32</b>				
	50, 63	<b>31 769</b>	<b>LQG-40</b>				
	80	<b>31 770</b>	<b>LQG-50</b>				
		<b>31 771</b>	<b>LQG-63</b>				
	100	<b>31 772</b>	<b>LQG-80</b>				
<b>31 773</b>		<b>LQG-100</b>					





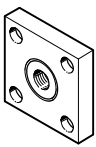
Ordering data					
Special screw	For Ø	For accessory	Part No.		PU <sup>1)</sup>
	80, 100	HNC, FNC, SNC, SNCS, SNCL, SNCB	<b>238 600</b>	<b>M10x30</b>	<b>1</b>
	80	ZNCF	<b>204 138</b>	<b>M10x40</b>	
	100	ZNCF	<b>370 524</b>	<b>M10x50</b>	

1) Packaging unit quantity

# Short-stroke cylinders ADVC/AEVC

Accessories

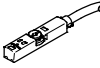
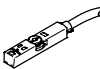
FESTO

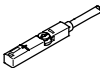

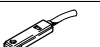
Ordering data – Piston rod attachments				Technical data → Internet: piston-rod attachment			
Designation	For Ø	Part No.	Type	Designation	For Ø	Part No.	Type
<b>Rod eye SGS</b>				<b>Rod clevis SGA</b>			
	10	9 253	SGS-M4		32	–	–
	16	9 254	SGS-M6		40		
	20	9 255	SGS-M8		50		
	25				63		
	32	9 261	SGS-M10x1,25		32	32 954	SGA-M10x1,25
	40				40		
	50	9 262	SGS-M12x1,25		50	10 767	SGA-M12x1,25
	63				63		
	80	9 263	SGS-M16x1,5		80	10 768	SGA-M16x1,5
	100	9 264	SGS-M20x1,5		100	10 769	SGA-M20x1,5
<b>Rod clevis SG</b>				<b>Self-aligning rod coupler FK</b>			
	10	6 532	SG-M4		10	6 528	FK-M4
	12	–	–		12	30 984	FK-M5
	16	3 110	SG-M6		16	2 061	FK-M6
	20	3 111	SG-M8		20	2 062	FK-M8
	25				25		
	32	6 144	SG-M10x1,25		32	6 140	FK-M10x1,25
	40				40		
	50	6 145	SG-M12x1,25		50	6 141	FK-M12x1,25
	63				63		
	80	6 146	SG-M16x1,5		80	6 142	FK-M16x1,5
100	6 147	SG-M20x1,5	100	6 143	FK-M20x1,5		
<b>Coupling piece KSG</b>							
	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				



# Short-stroke cylinders ADVC/AEVC

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	
<b>N/O contact</b>							
	Insertable in the slot from above, flush with cylinder profile, short design	PNP	Cable, 3-wire	2.5	574335	SMT-8M-A-PS-24V-E-2,5-OE	
			Plug M8x1, 3-pin	0.3	574334	SMT-8M-A-PS-24V-E-0,3-M8D	
			Plug M12x1, 3-pin	0.3	574337	SMT-8M-A-PS-24V-E-0,3-M12	
		NPN	Cable, 3-wire	2.5	574338	SMT-8M-A-NS-24V-E-2,5-OE	
			Plug M8x1, 3-pin	0.3	574339	SMT-8M-A-NS-24V-E-0,3-M8D	
<b>N/C contact</b>							
	Insertable in the slot from above, flush with cylinder profile, short design	PNP	Cable, 3-wire	7.5	574340	SMT-8M-A-PO-24V-E-7,5-OE	


Ordering data – Proximity sensors for T-slot, magnetic reed						Technical data → Internet: sme	
	Type of mounting	Switch output	Electrical connection	Cable length [m]	Part No.	Type	
<b>N/O contact</b>							
	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, 2-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	
<b>N/C contact</b>							
	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



# Short-stroke cylinders ADVC/AEVC

Accessories

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 from above	PNP	Plug M8x1, 3-pin, in-line	0,3	<b>551 375</b>	<b>SMT-10M-PS-24V-E-0,3-L-M8D</b>	
			Cable, 3-wire, in-line	2,5	<b>551 373</b>	<b>SMT-10M-PS-24V-E-2,5-L-OE</b>	

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	<b>173 212</b>	<b>SME-10-SL-LED-24</b>	
			Cable, 3-wire, in-line	2,5	<b>173 210</b>	<b>SME-10-KL-LED-24</b>	

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	<b>541 333</b>	<b>NEBU-M8G3-K-2.5-LE3</b>	
			5	<b>541 334</b>	<b>NEBU-M8G3-K-5-LE3</b>	
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2,5	<b>541 338</b>	<b>NEBU-M8W3-K-2.5-LE3</b>	
			5	<b>541 341</b>	<b>NEBU-M8W3-K-5-LE3</b>	

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	<b>175 041</b>	<b>GRLA-M3-QS-3</b>			
		M5		3	<b>193 137</b>	<b>GRLA-M5-QS-3-D</b>		
	4			<b>193 138</b>	<b>GRLA-M5-QS-4-D</b>			
	6			<b>193 139</b>	<b>GRLA-M5-QS-6-D</b>			
	G1/8			3	<b>193 142</b>	<b>GRLA-1/8-QS-3-D</b>		
				4	<b>193 143</b>	<b>GRLA-1/8-QS-4-D</b>		
				6	<b>193 144</b>	<b>GRLA-1/8-QS-6-D</b>		
		8		<b>193 145</b>	<b>GRLA-1/8-QS-8-D</b>			
	G1/4	6		<b>193 146</b>	<b>GRLA-1/4-QS-6-D</b>			
		8		<b>193 147</b>	<b>GRLA-1/4-QS-8-D</b>			
		10		<b>193 148</b>	<b>GRLA-1/4-QS-10-D</b>			
		For supply air						
		M3		3	Metal design	<b>175 043</b>	<b>GRLZ-M3-QS-3</b>	
				M5		3	<b>193 153</b>	<b>GRLZ-M5-QS-3-D</b>
4		<b>193 154</b>	<b>GRLZ-M5-QS-4-D</b>					
6		<b>193 155</b>	<b>GRLZ-M5-QS-6-D</b>					
G1/8		3	<b>193 156</b>			<b>GRLZ-1/8-QS-3-D</b>		
		4	<b>193 157</b>	<b>GRLZ-1/8-QS-4-D</b>				
		6	<b>193 158</b>	<b>GRLZ-1/8-QS-6-D</b>				
		8	<b>193 159</b>	<b>GRLZ-1/8-QS-8-D</b>				