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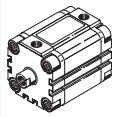
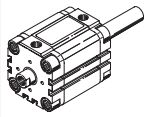
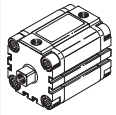
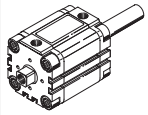
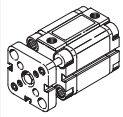
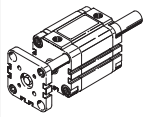
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Compact cylinder ADVU/AEVU



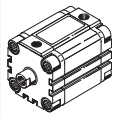
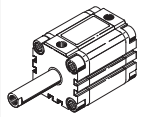
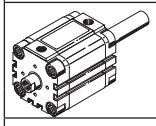
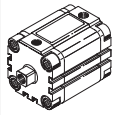
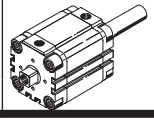
Product range overview

Function	Version	Type	Piston ⌀ [mm]	Stroke [mm]		Position sensing
Double-acting	**Basic version**					
		**ADVU** Piston rod at one end	12, 16	5, 10, 15, 20, 25, 30, 40	1 ... 200	
			20, 25	5, 10, 15, 20, 25, 30, 40, 50	1 ... 200	
			32, 40	5, 10, 15, 20, 25, 30, 40, 50, 60, 80	1 ... 300	■
			50, 63	10, 15, 20, 25, 30, 40, 50, 60, 80	1 ... 300	
			80, 100, 125	10, 15, 20, 25, 30, 40, 50, 60, 80	1 ... 400	
		**ADVU-...-S2** Through piston rod	12, 16, 20, 25	–	1 ... 200	
			32, 40, 50, 63	–	1 ... 300	■
			80, 100, 125	–	1 ... 400	
	Protected against rotation with square piston rod					
		**ADVULQ** Piston rod at one end	12, 16	5, 10, 15, 20, 25, 30, 40	1 ... 200	
			20, 25	5, 10, 15, 20, 25, 30, 40, 50	1 ... 200	
			32, 40	5, 10, 15, 20, 25, 30, 40, 50, 60, 80	1 ... 300	■
			50, 63	10, 15, 20, 25, 30, 40, 50, 60, 80	1 ... 300	
			80, 100	10, 15, 20, 25, 30, 40, 50, 60, 80	1 ... 400	
		**ADVULQ-...-S2** Through piston rod	12, 16, 20, 25	–	1 ... 200	
			32, 40, 50, 63	–	1 ... 300	■
			80, 100	–	1 ... 400	
	Non-rotating with yoke					
		**ADVUL** Piston rod at one end	12, 16	5, 10, 15, 20, 25, 30, 40	1 ... 200	
			20, 25	5, 10, 15, 20, 25, 30, 40, 50	1 ... 200	
			32, 40	5, 10, 15, 20, 25, 30, 40, 50, 60, 80	1 ... 300	■
			50, 63	10, 15, 20, 25, 30, 40, 50, 60, 80	1 ... 300	
			80, 100	10, 15, 20, 25, 30, 40, 50, 60, 80	1 ... 400	
		**ADVUL-...-S2** Through piston rod	12, 16, 20, 25	–	1 ... 200	
			32, 40, 50, 63	–	1 ... 300	■
			80, 100	–	1 ... 400	

Product range overview

Type	Piston rod		S20	S6	R3	→ Page/Internet
	With female thread	With male thread	Hollow piston rod	Heat-resistant up to 120°C	Increased corrosion protection	
Basic version						
ADVU Piston rod at one end	■	■	–	■	■	11
ADVU-...-S2 Through piston rod	■	■	■ Ø 12 ... 100	■ Ø 12 ... 100	–	11
Protected against rotation with square piston rod						
ADVULQ Piston rod at one end	■	■	–	■	–	22
ADVULQ-...-S2 Through piston rod	■	■	■ Ø 16 ... 100	■	–	22
Non-rotating with yoke						
ADVUL Piston rod at one end	■	–	–	■	–	22
ADVUL-...-S2 Through piston rod	■	–	–	–	–	22

Product range overview

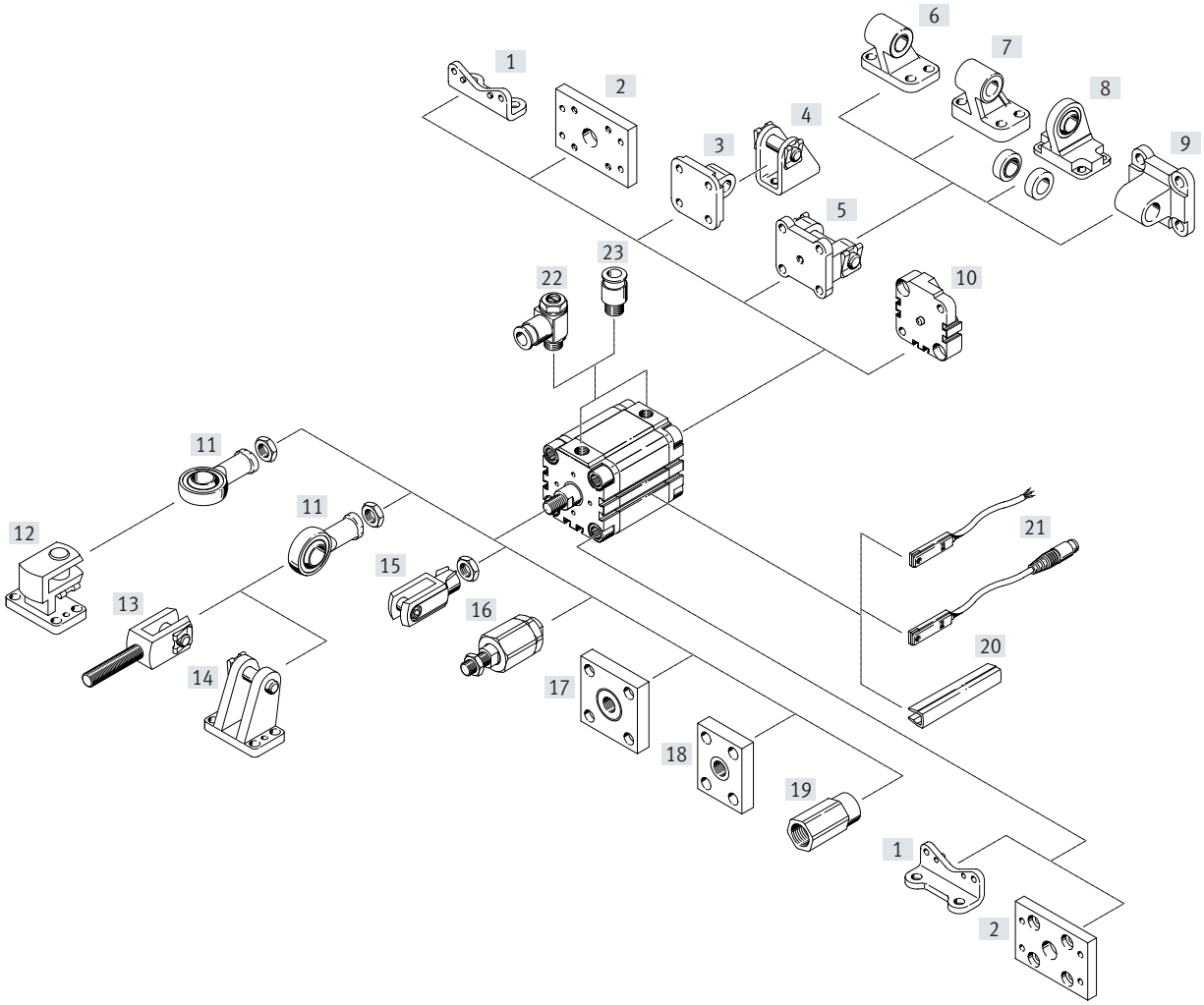
Function	Version	Type	Piston ⌀ [mm]	Stroke [mm]		Position sensing
Single-acting	**Basic version**					
		**AEVU** Piston rod at one end Pushing	12	5, 10	1 ... 10	■
			16, 20, 25, 32, 40	5, 10, 15, 20, 25	1 ... 25	
			50, 63, 80, 100	10, 15, 20, 25	1 ... 25	
		**AEVUZ** Piston rod at one end Pulling	12	5, 10	1 ... 10	■
			16, 20, 25, 32, 40	5, 10, 15, 20, 25	1 ... 25	
			50, 63, 80, 100	10, 15, 20, 25	1 ... 25	
		**AEVU-...-S2** Through piston rod Pushing	12	–	1 ... 10	■
			16, 20, 25, 32, 40, 50, 63, 80, 100	–	1 ... 25	
	Protected against rotation with square piston rod					
		**AEVULQ** Piston rod at one end Pushing	16, 20, 25, 32, 40	5, 10, 15, 20, 25	1 ... 25	■
			50, 63, 80, 100	10, 15, 20, 25	1 ... 25	
		**AEVULQ-...-S2** Through piston rod Pushing	16, 20, 25, 32, 40, 50, 63, 80, 100	–	1 ... 25	■

Product range overview

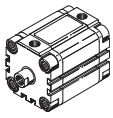
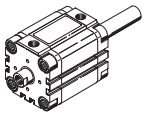
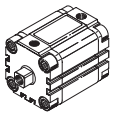
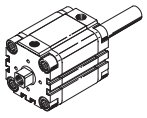
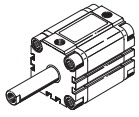
Type	Piston rod		S20	S6	R3	→ Page/Internet
	With female thread	With male thread	Hollow piston rod	Heat-resistant up to 120°C	Increased corrosion protection	
Basic version						
AEVU Piston rod at one end Pushing	■	■	–	■	–	33
AEVUZ Piston rod at one end Pulling	■	■	–	■	–	33
AEVU-...-S2 Through piston rod Pushing	■	■	■	■	–	33
Protected against rotation with square piston rod						
AEVULQ Piston rod at one end Pushing	■	■	–	–	–	43
AEVULQ-...-S2 Through piston rod Pushing	■	■	–	–	–	43

Peripherals overview

Piston ⌀ 12 ... 100 mm



Variants

ADVU AEVU(Z)	S2/S20	ADVULQ AEVULQ	S2/S20
			
			

Peripherals overview

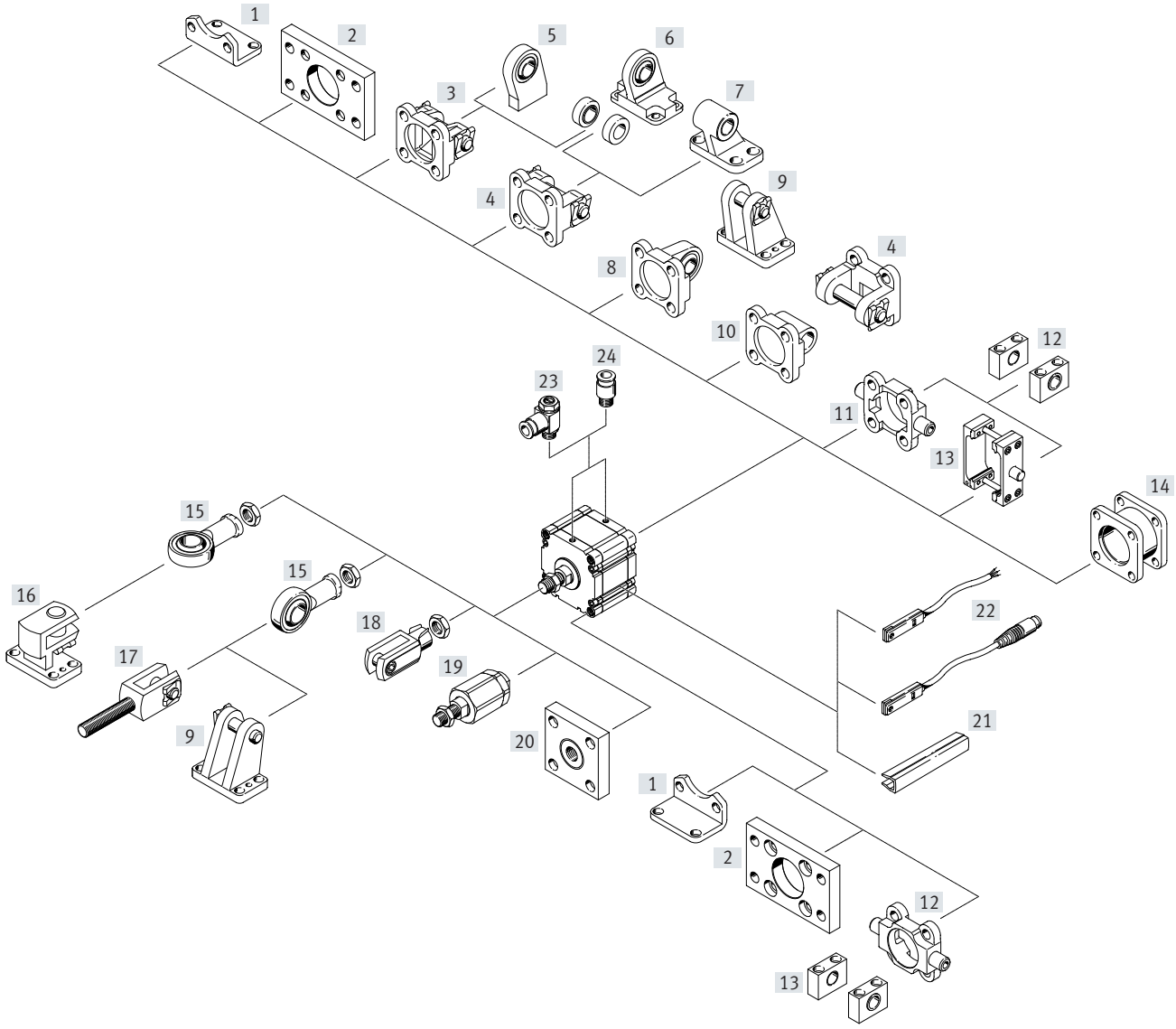
Mounting attachments and accessories

		Description	ADVU AEVU(Z)		ADVULQ AEVULQ		→ Page/Internet
				S2/S20		S2/S20	
[1]	Foot mounting HUA/HUA-...-R3	For bearing and end caps	■	■	■	■	49
[2]	Flange mounting FUA	For bearing or end caps	■	■	■	■	50
[3]	Swivel flange SUA/SUA-...-R3 for Ø 12 ... 25	For end caps	■	–	■	–	51
[4]	Clevis foot LBN/CRLBN	–	■	–	■	–	56
[5]	Swivel flange SUA/SUA-...-R3 for Ø 32 ... 100	For end caps	■	–	■	–	51
[6]	Clevis foot LN	–	■	–	■	–	56
[7]	Clevis foot LNG/CRLNG	–	■	–	■	–	56
[8]	Clevis foot LSN	With spherical bearing	■	–	■	–	56
[9]	Swivel flange SNCL	–	■	–	■	–	56
[10]	Mounting kit DPVU	For connecting two cylinders with the same piston diameter to form a multi-position cylinder	■	–	■	–	55
[11]	Rod eye SGS/CRSGS	With spherical bearing	■	■	–	–	58
[12]	Right-angle clevis foot LQG	–	■	■	–	–	56
[13]	Rod clevis SGA	With male thread	■	■	–	–	58
[14]	Clevis foot LBG/LBG-...-R3	–	■	■	–	–	56
[15]	Rod clevis SG/CRSG	Permits a swivelling movement of the cylinder in one plane	■	■	■	■	58
[16]	Self-aligning rod coupler FK/CRFK	To compensate for radial and angular deviations	■	■	–	–	58
[17]	Coupling piece KSG	To compensate for radial deviations	■	■	–	–	58
[18]	Coupling piece KSZ	For cylinders with a non-rotating piston rod to compensate for radial deviations	–	–	■	■	58
[19]	Adapter AD	For suction cup	–	■ S20	–	■ S20	58
[20]	Slot cover ABP-5-S	For protecting the sensor cables and the sensor slots from contamination	■	■	■	■	60
[21]	Proximity switch SME/SMT-8	Can be integrated in the cylinder profile barrel	■	■	■	■	60
[22]	One-way flow control valve GRLA/GRLZ	For regulating speed	■	■	■	■	59
[23]	Push-in fitting QS	For connecting tubing with standard O.D.	■	■	■	■	qs

1) Only in combination with end cap

Peripherals overview

Piston ⌀ 125 mm



Peripherals overview

Mounting attachments and accessories

		Description	ADVU		→ Page/Internet
				S2	
[1]	Foot mounting HNC/CRHNC	For bearing and end caps	■	■	49
[2]	Flange mounting FNC	For bearing or end caps	■	■	50
[3]	Swivel flange SNC	For end caps	■	–	52
[4]	Swivel flange SNCB/SNCB-...-R3	For end caps	■	–	52
[5]	Clevis foot LSNSG	Weld-on, with spherical bearing	■	–	56
[6]	Clevis foot LSN	With spherical bearing	■	–	56
[7]	Clevis foot LN	–	■	–	56
[8]	Swivel flange SNCS/SNCS-...-R3	With spherical bearing for end caps	■	–	53
[9]	Clevis foot LBG/LBG-...-R3	–	■	■	56
[10]	Swivel flange SNCL	For end caps	■	–	53
[11]	Trunnion flange ZNCF	For bearing or end caps	■	■	54
[12]	Trunnion support LNZG/CRLNZG	–	■	■	56
[13]	Trunnion mounting kit DAMT	For mounting anywhere along the cylinder profile barrel	■	■	54
[14]	Mounting kit DPNC	For connecting two cylinders with the same piston diameter to form a multi-position cylinder	■	■	55
[15]	Rod eye SGS/CRSGS	With spherical bearing	■	■	58
[16]	Right-angle clevis foot LQG	–	■	■	56
[17]	Rod clevis SGA	With male thread	■	■	58
[18]	Rod clevis SG/CRSG	Permits a swivelling movement of the cylinder in one plane	■	■	58
[19]	Self-aligning rod coupler FK/CRFK	To compensate for radial and angular deviations	■	■	58
[20]	Coupling piece KSG	To compensate for radial deviations	■	■	58
[21]	Slot cover ABP-5-S	For protecting the sensor cables and the sensor slots from contamination	■	■	60
[22]	Proximity switch SME/SMT-8	Can be integrated in the cylinder profile barrel	■	■	60
[23]	One-way flow control valve GRLA/GRLZ	For regulating speed	■	■	59
[24]	Push-in fitting QS	For connecting tubing with standard O.D.	■	■	qs

Type codes

001	Series	
ADVU	Compact cylinder, double-acting	
ADVULQ	Compact cylinder, double-acting, square piston rod	
AEVU	Compact cylinder, single-acting	
AEVUZ	Compact cylinder, single-acting, pulling	
AEVULQ	Compact cylinder, single-acting, square piston rod	

002	Piston diameter [mm]	
12	12	
16	16	
20	20	
25	25	
32	32	
40	40	
50	50	
63	63	
80	80	
100	100	
125	125	

003	Stroke range [mm]	
...	1 ... 400	

004	Piston rod thread type	
	Female thread	
A	Male thread	

005	Cushioning	
P	Elastic cushioning rings/plates on both sides	

006	Position sensing	
A	For proximity sensor	

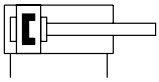
007	Piston rod type	
	At one end	
S2	Through piston rod	
S20	Through, hollow piston rod	

008	Temperature range	
	Standard	
S6	Heat-resistant seals max. 120 °C	

009	Corrosion protection	
	Standard	
R3	High corrosion protection	

Datasheet – Double-acting, basic version

Function

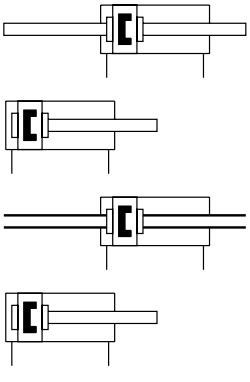


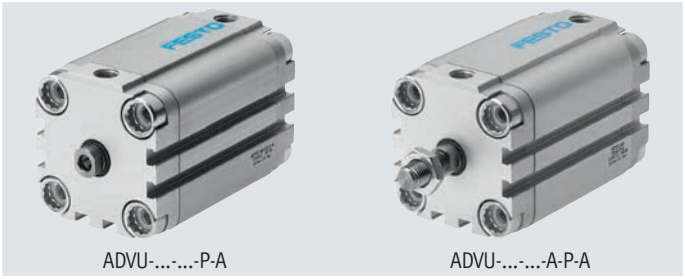
Diameter
12 ... 125 mm

Stroke length
1 ... 400 mm

www.festo.com
Sets of wearing parts
➔ page 21

Variants







General technical data												
Piston ø		12	16	20	25	32	40	50	63	80	100	125
Pneumatic connection		M5	M5	M5	M5	G1/8	G1/8	G1/8	G1/8	G1/8	G1/4	G1/4
Piston rod end	Female thread	M3	M4	M5	M5	M6	M6	M8	M8	M10	M12	M16
	Male thread	M6	M8	M10x1.25				M12x1.25		M16x1.5	M20x1.5	M27x2
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]										
Note on the operating/ pilot medium		Lubricated operation possible (required for further operation)										
Design		Piston										
		Piston rod										
Cushioning		Elastic cushioning rings/plates at both ends										
Position sensing		Via proximity switch										
Type of mounting		With through-hole										–
		With female thread										
		Via accessories										
Mounting position		Any										

Note: This product conforms to ISO 1179-1 and ISO 228-1

Operating pressure												
Piston ø		12	16	20	25	32	40	50	63	80	100	125
Piston rod at one end	[MPa]	0.12 ... 1		0.1 ... 1		0.08 ... 1			0.06 ... 1			0.05 ... 1
	[bar]	1.2 ... 10		1 ... 10		0.8 ... 10			0.6 ... 10			0.5 ... 10
	[psi]	17.4 ... 145		14.5 ... 145		11.6 ... 145			8.7 ... 145			7.3 ... 145
Through piston rod S2/S20	[MPa]	0.15 ... 1	0.13 ... 1	0.12 ... 1		0.1 ... 1			0.08 ... 1			–
	[bar]	1.5 ... 10	1.3 ... 10	1.2 ... 10		1 ... 10			0.8 ... 10			–
	[psi]	21.8 ... 145	18.9 ... 145	17.4 ... 145		14.5 ... 145			11.6 ... 145			–

Environmental conditions				
Compact cylinder		Basic version	S6	R3
Ambient temperature[1]	[°C]	–20 ... +80	0 ... +120	–20 ... +80
CRC[2]		2	2	3

1) Note operating range of proximity switches

2) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with the normal surrounding industrial environment.
Corrosion resistance class CRC 3 to Festo standard FN 940070
High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional surface requirements that are in direct contact with the normal surrounding industrial environment.

Datasheet – Double-acting, basic version

Forces [N] and impact energy [J]												
Piston ø		12	16	20	25	32	40	50	63	80	100	125
Theoretical force at 0.6 MPa (6 bar, 87 psi), advancing		68	121	188	295	483	754	1178	1870	3016	4712	7363
	S2/S20	51	90	141	247	415	686	1057	1750	2827	4418	6881
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting		51	90	141	247	415	686	1057	1750	2827	4418	6881
	S2/S20	51	90	141	247	415	686	1057	1750	2827	4418	6881
Max. impact energy in the end positions		0.07	0.10	0.14	0.30	0.40	0.52	0.64	0.70	0.75	1.00	3.3
	S20	0.01	0.01	0.01	0.01	0.04	0.05	0.06	0.07	0.08	0.10	0.40

Maximum permissible mass:

$$v = \sqrt{\frac{2 \cdot E}{m_1 + m_2}}$$

Permissible impact velocity:

$$m_2 = \frac{2 \cdot E}{v^2} - m_1$$

v Permissible impact velocity
E Max. impact energy
m_1 Moving mass (drive)
m_2 Moving payload

Note

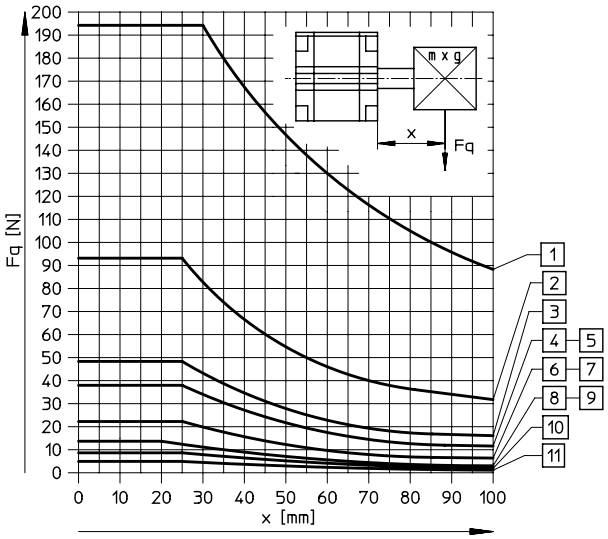
These specifications represent the maximum values that can be achieved. The maximum permissible impact energy must be observed.

Note

ProPneu engineering software
➔ www.festo.com

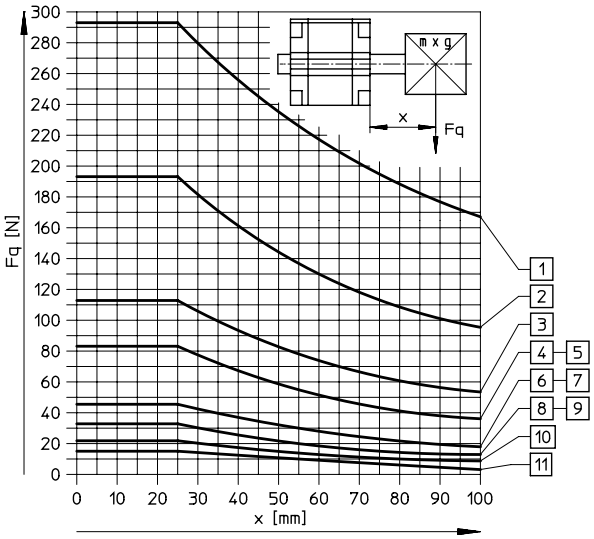
Max. lateral force Fq as a function of projection x

Piston rod at one end



[1] ø 125 mm
[2] ø 100 mm
[3] ø 80 mm
[4] ø 63 mm
[5] ø 50 mm
[6] ø 40 mm
[7] ø 32 mm
[8] ø 25 mm

Through piston rod



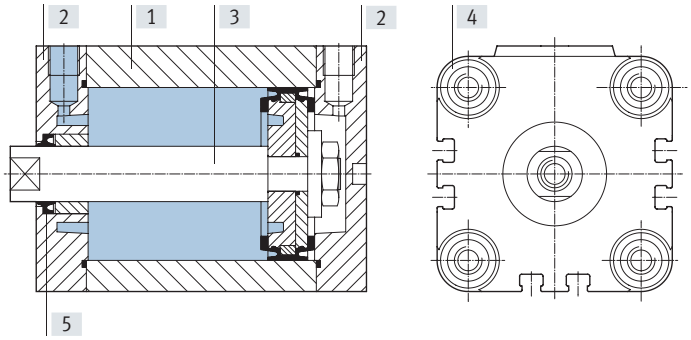
[9] ø 20 mm
[10] ø 16 mm
[11] ø 12 mm

Datasheet – Double-acting, basic version

Weight [g]											
Piston ø	12	16	20	25	32	40	50	63	80	100	125
Product weight with 0 mm stroke	87	89	149	180	300	433	560	1059	1772	2797	3426
Additional weight per 10 mm stroke	15	15	23	28	40	59	72	107	168	177	168
Moving mass with 0 mm stroke	8	12	20	26	49	63	112	134	307	614	1317
Additional mass per 10 mm stroke	2	4	6	6	9	9	16	16	25	38	63

Materials

Sectional view

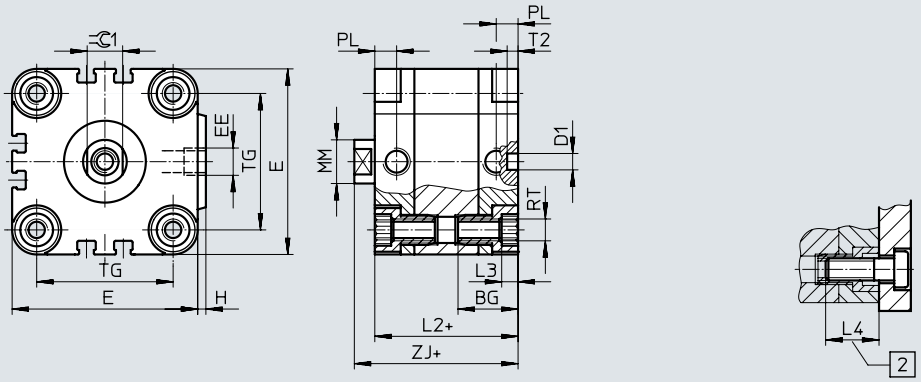


Compact cylinder			Basic version	S6	R3
[1]	Cylinder barrel		Wrought aluminium alloy	Wrought aluminium alloy	Wrought aluminium alloy
[2]	Cover		Wrought aluminium alloy	Wrought aluminium alloy	Wrought aluminium alloy
[3]	Piston rod	ø 12 ... 32	High-alloy stainless steel	High-alloy stainless steel	High-alloy stainless steel
		ø 40 ... 125	High-alloy steel	High-alloy steel	High-alloy stainless steel
[4]	Flange screws	ø 12 ... 16	High-alloy stainless steel	High-alloy stainless steel	High-alloy stainless steel
		ø 20 ... 125	Galvanised steel	Galvanised steel	High-alloy stainless steel
[5]	Dynamic seals		Polyurethane	Fluoro rubber	Polyurethane

Datasheet – Double-acting, basic version

Dimensions – Basic cylinder Download CAD data ➔ www.festo.com

Piston ø 12 ... 100 mm

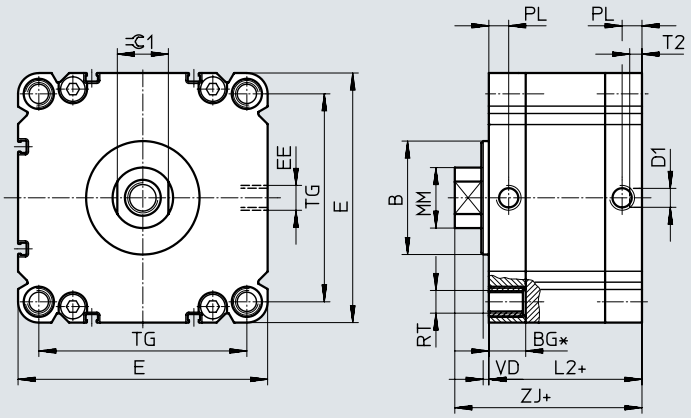


Note

To mount from above with piston diameter 12 and 16 mm, only use 2 diagonal screws or use non-magnetic screws.

+ = plus stroke length
[2] Minimum screw-in depth

Piston ø 125 mm



Note

* Minimum screw-in depth 18mm. Cannot be screwed through with socket head screw.

+ = plus stroke length

ø [mm]	B d11	BG	D1 ø H9	E	EE	H	L2	L3	L4	MM ø	PL	RT	T2 –0.2	TG	VD	ZJ	⊂1 h13
12	–	18.5	6	29	M5	1	38	3	16	6	8	M4	4	18	–	42.5	5
16	–	18.5	6	29	M5	1	38	3	16	8	8	M4	4	18	–	42.5	7
20	–	18.5	6	36	M5	1.5	38	4	18	10	8	M5	4	22	–	42.5	9
25	–	18.5	6	40	M5	1.5	39.5	4	18	10	8	M5	4	26	–	45	9
32	–	21.5	6	50	G1/8	2	44.5	5	20	12	8	M6	4	32	–	50.5	10
40	–	21.5	6	60	G1/8	2.5	45.5	5	20	12	8	M6	4	42	–	52	10
50	–	22	6	68	G1/8	3	45.5	6	20	16	8	M8	4	50	–	53	13
63	–	24.5	8	87	G1/8	4	50	8	25	16	8	M10	4	62	–	57.5	13
80	–	27.5	8	107	G1/8	4	56	8	25	20	8.5	M10	4	82	–	64	17
100	–	32.5	8	128	G1/4	5	66.5	8	25	25	10.5	M10	4	103	–	76.5	22
125	60	19.5	10	132	G1/4	–	81	–	18	32	10.5	M12	6	110	4	99	27

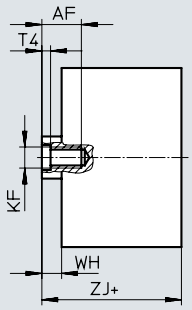
Note

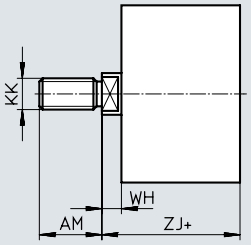
This product conforms to ISO 1179-1 and ISO 228-1

Datasheet – Double-acting, basic version

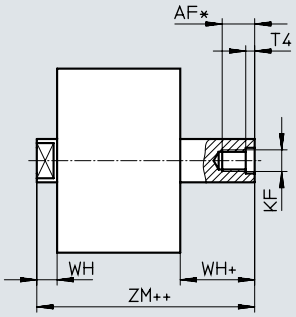
Dimensions – Variants Download CAD data ➔ www.festo.com

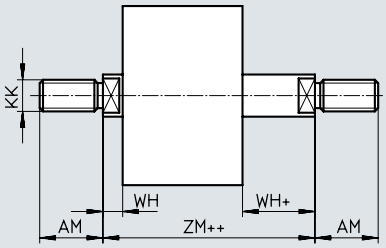
Basic version



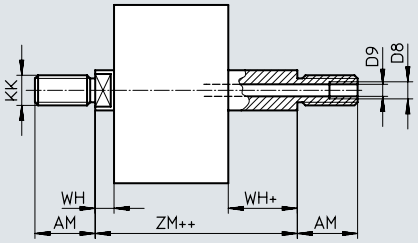


S2 – Through piston rod





S20 – Through, hollow piston rod



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

ø [mm]	AF	AM	D8	D9 ø	KF	KK	T4	WH	ZJ	ZM
12	8	16	–	2.3	M3	M6	1.5	4.5	42.5	47
16	10	20	–	3.2	M4	M8	1.5	4.5	42.5	47
20[2]	12	22	–	3.8	M5	M10x1.25	2	4.5	42.5	47
25[2]	12	22	–	3.8	M5	M10x1.25	2	5.5	45	50.5
32[2]	14	22	–	4.5	M6	M10x1.25	2.6	6	50.5	56.5
40[2]	14	22	–	4.5	M6	M10x1.25	2.6	6.5	52	58.5
50[2]	16	24	–	6	M8	M12x1.25	3.3	7.5	53	60.5
63[2]	16	24	–	6	M8	M12x1.25	3.3	7.5	57.5	65
80[2]	20[1]	32	G1/8	8	M10	M16x1.5	4.7	8	64	72
100[2]	24[1]	40	G1/4	11.7	M12	M20x1.5	6.1	10	76.5	86.5
125[2]	25[1]	54	–	–	M16	M27x2	7	18	99	117

1) With a stroke < 5 mm, the maximum screw-in depth is reduced by 5 mm
2) Nut for piston rod thread included in the scope of delivery

Datasheet – Double-acting, basic version

Ordering data – Basic design

Piston ø	Stroke	Piston rod with female thread		Piston rod with male thread	
[mm]	[mm]	Part no.	Type	Part no.	Type
12	5	156500	ADVU-12-5-P-A	156586	ADVU-12-5-A-P-A
	10	156501	ADVU-12-10-P-A	156587	ADVU-12-10-A-P-A
	15	156502	ADVU-12-15-P-A	156588	ADVU-12-15-A-P-A
	20	156503	ADVU-12-20-P-A	156589	ADVU-12-20-A-P-A
	25	156504	ADVU-12-25-P-A	156590	ADVU-12-25-A-P-A
	30	156505	ADVU-12-30-P-A	156591	ADVU-12-30-A-P-A
	40	156506	ADVU-12-40-P-A	156592	ADVU-12-40-A-P-A
16	5	156507	ADVU-16-5-P-A	156593	ADVU-16-5-A-P-A
	10	156508	ADVU-16-10-P-A	156594	ADVU-16-10-A-P-A
	15	156509	ADVU-16-15-P-A	156595	ADVU-16-15-A-P-A
	20	156510	ADVU-16-20-P-A	156596	ADVU-16-20-A-P-A
	25	156511	ADVU-16-25-P-A	156597	ADVU-16-25-A-P-A
	30	156512	ADVU-16-30-P-A	156598	ADVU-16-30-A-P-A
	40	156513	ADVU-16-40-P-A	156599	ADVU-16-40-A-P-A
20	5	156514	ADVU-20-5-P-A	156600	ADVU-20-5-A-P-A
	10	156515	ADVU-20-10-P-A	156601	ADVU-20-10-A-P-A
	15	156516	ADVU-20-15-P-A	156602	ADVU-20-15-A-P-A
	20	156517	ADVU-20-20-P-A	156603	ADVU-20-20-A-P-A
	25	156518	ADVU-20-25-P-A	156604	ADVU-20-25-A-P-A
	30	156519	ADVU-20-30-P-A	156605	ADVU-20-30-A-P-A
	40	156520	ADVU-20-40-P-A	156606	ADVU-20-40-A-P-A
	50	156521	ADVU-20-50-P-A	156607	ADVU-20-50-A-P-A
25	5	156522	ADVU-25-5-P-A	156608	ADVU-25-5-A-P-A
	10	156523	ADVU-25-10-P-A	156609	ADVU-25-10-A-P-A
	15	156524	ADVU-25-15-P-A	156610	ADVU-25-15-A-P-A
	20	156525	ADVU-25-20-P-A	156611	ADVU-25-20-A-P-A
	25	156526	ADVU-25-25-P-A	156612	ADVU-25-25-A-P-A
	30	156527	ADVU-25-30-P-A	156613	ADVU-25-30-A-P-A
	40	156528	ADVU-25-40-P-A	156614	ADVU-25-40-A-P-A
	50	156529	ADVU-25-50-P-A	156615	ADVU-25-50-A-P-A
32	5	156530	ADVU-32-5-P-A	156616	ADVU-32-5-A-P-A
	10	156531	ADVU-32-10-P-A	156617	ADVU-32-10-A-P-A
	15	156532	ADVU-32-15-P-A	156618	ADVU-32-15-A-P-A
	20	156533	ADVU-32-20-P-A	156619	ADVU-32-20-A-P-A
	25	156534	ADVU-32-25-P-A	156620	ADVU-32-25-A-P-A
	30	156535	ADVU-32-30-P-A	156621	ADVU-32-30-A-P-A
	40	156536	ADVU-32-40-P-A	156622	ADVU-32-40-A-P-A
	50	156537	ADVU-32-50-P-A	156623	ADVU-32-50-A-P-A
	60	156538	ADVU-32-60-P-A	156624	ADVU-32-60-A-P-A
	80	156539	ADVU-32-80-P-A	156625	ADVU-32-80-A-P-A

Datasheet – Double-acting, basic version

Ordering data – Basic design

Piston ø	Stroke	Piston rod with female thread		Piston rod with male thread	
[mm]	[mm]	Part no.	Type	Part no.	Type
40	5	156540	ADVU-40-5-P-A	156626	ADVU-40-5-A-P-A
	10	156541	ADVU-40-10-P-A	156627	ADVU-40-10-A-P-A
	15	156542	ADVU-40-15-P-A	156628	ADVU-40-15-A-P-A
	20	156543	ADVU-40-20-P-A	156629	ADVU-40-20-A-P-A
	25	156544	ADVU-40-25-P-A	156630	ADVU-40-25-A-P-A
	30	156545	ADVU-40-30-P-A	156631	ADVU-40-30-A-P-A
	40	156546	ADVU-40-40-P-A	156632	ADVU-40-40-A-P-A
	50	156547	ADVU-40-50-P-A	156633	ADVU-40-50-A-P-A
	60	156548	ADVU-40-60-P-A	156634	ADVU-40-60-A-P-A
	80	156549	ADVU-40-80-P-A	156635	ADVU-40-80-A-P-A
50	10	156550	ADVU-50-10-P-A	156636	ADVU-50-10-A-P-A
	15	156551	ADVU-50-15-P-A	156637	ADVU-50-15-A-P-A
	20	156552	ADVU-50-20-P-A	156638	ADVU-50-20-A-P-A
	25	156553	ADVU-50-25-P-A	156639	ADVU-50-25-A-P-A
	30	156554	ADVU-50-30-P-A	156640	ADVU-50-30-A-P-A
	40	156555	ADVU-50-40-P-A	156641	ADVU-50-40-A-P-A
	50	156556	ADVU-50-50-P-A	156642	ADVU-50-50-A-P-A
	60	156557	ADVU-50-60-P-A	156643	ADVU-50-60-A-P-A
	80	156558	ADVU-50-80-P-A	156644	ADVU-50-80-A-P-A
63	10	156559	ADVU-63-10-P-A	156645	ADVU-63-10-A-P-A
	15	156560	ADVU-63-15-P-A	156646	ADVU-63-15-A-P-A
	20	156561	ADVU-63-20-P-A	156647	ADVU-63-20-A-P-A
	25	156562	ADVU-63-25-P-A	156648	ADVU-63-25-A-P-A
	30	156563	ADVU-63-30-P-A	156649	ADVU-63-30-A-P-A
	40	156564	ADVU-63-40-P-A	156650	ADVU-63-40-A-P-A
	50	156565	ADVU-63-50-P-A	156651	ADVU-63-50-A-P-A
	60	156566	ADVU-63-60-P-A	156652	ADVU-63-60-A-P-A
	80	156567	ADVU-63-80-P-A	156653	ADVU-63-80-A-P-A
80	10	156568	ADVU-80-10-P-A	156654	ADVU-80-10-A-P-A
	15	156569	ADVU-80-15-P-A	156655	ADVU-80-15-A-P-A
	20	156570	ADVU-80-20-P-A	156656	ADVU-80-20-A-P-A
	25	156571	ADVU-80-25-P-A	156657	ADVU-80-25-A-P-A
	30	156572	ADVU-80-30-P-A	156658	ADVU-80-30-A-P-A
	40	156573	ADVU-80-40-P-A	156659	ADVU-80-40-A-P-A
	50	156574	ADVU-80-50-P-A	156660	ADVU-80-50-A-P-A
	60	156575	ADVU-80-60-P-A	156661	ADVU-80-60-A-P-A
	80	156576	ADVU-80-80-P-A	156662	ADVU-80-80-A-P-A
100	10	156577	ADVU-100-10-P-A	156663	ADVU-100-10-A-P-A
	15	156578	ADVU-100-15-P-A	156664	ADVU-100-15-A-P-A
	20	156579	ADVU-100-20-P-A	156665	ADVU-100-20-A-P-A
	25	156580	ADVU-100-25-P-A	156666	ADVU-100-25-A-P-A
	30	156581	ADVU-100-30-P-A	156667	ADVU-100-30-A-P-A
	40	156582	ADVU-100-40-P-A	156668	ADVU-100-40-A-P-A
	50	156583	ADVU-100-50-P-A	156669	ADVU-100-50-A-P-A
	60	156584	ADVU-100-60-P-A	156670	ADVU-100-60-A-P-A
	80	156585	ADVU-100-80-P-A	156671	ADVU-100-80-A-P-A

Datasheet – Double-acting, basic version

Ordering data – Basic design

Piston ø	Stroke	Piston rod with female thread			Piston rod with male thread	
[mm]	[mm]	Part no.	Type		Part no.	Type
125	10	**175750**	**ADVU-125-10-P-A**		**175762**	**ADVU-125-10-A-P-A**
	15	**175751**	**ADVU-125-15-P-A**		**175763**	**ADVU-125-15-A-P-A**
	20	**175752**	**ADVU-125-20-P-A**		**175764**	**ADVU-125-20-A-P-A**
	25	**175753**	**ADVU-125-25-P-A**		**175765**	**ADVU-125-25-A-P-A**
	30	**175754**	**ADVU-125-30-P-A**		**175766**	**ADVU-125-30-A-P-A**
	40	**175755**	**ADVU-125-40-P-A**		**175767**	**ADVU-125-40-A-P-A**
	50	**175756**	**ADVU-125-50-P-A**		**175768**	**ADVU-125-50-A-P-A**
	60	**175757**	**ADVU-125-60-P-A**		**175769**	**ADVU-125-60-A-P-A**
	80	**175758**	**ADVU-125-80-P-A**		**175770**	**ADVU-125-80-A-P-A**

Datasheet – Double-acting, basic version

Ordering data – Variants

Piston ø [mm]	Stroke [mm]	Piston rod with female thread			Piston rod with male thread	
		Part no.	Type		Part no.	Type
Variable stroke						
12	1 … 200	**156000**	**ADVU-12-...-P-A**		**156040**	**ADVU-12-...-A-P-A**
16	1 … 200	**156001**	**ADVU-16-...-P-A**		**156041**	**ADVU-16-...-A-P-A**
20	1 … 200	**156002**	**ADVU-20-...-P-A**		**156042**	**ADVU-20-...-A-P-A**
25	1 … 200	**156003**	**ADVU-25-...-P-A**		**156043**	**ADVU-25-...-A-P-A**
32	1 … 300	**156004**	**ADVU-32-...-P-A**		**156044**	**ADVU-32-...-A-P-A**
40	1 … 300	**156005**	**ADVU-40-...-P-A**		**156045**	**ADVU-40-...-A-P-A**
50	1 … 300	**156006**	**ADVU-50-...-P-A**		**156046**	**ADVU-50-...-A-P-A**
63	1 … 300	**156007**	**ADVU-63-...-P-A**		**156047**	**ADVU-63-...-A-P-A**
80	1 … 400	**156008**	**ADVU-80-...-P-A**		**156048**	**ADVU-80-...-A-P-A**
100	1 … 400	**156009**	**ADVU-100-...-P-A**		**156049**	**ADVU-100-...-A-P-A**
125	1 … 400	**175759**	**ADVU-125-...-P-A**		**175771**	**ADVU-125-...-A-P-A**
S2 – Through piston rod						
12	1 … 200	**156010**	**ADVU-12-...-P-A-S2**		**156050**	**ADVU-12-...-A-P-A-S2**
16	1 … 200	**156011**	**ADVU-16-...-P-A-S2**		**156051**	**ADVU-16-...-A-P-A-S2**
20	1 … 200	**156012**	**ADVU-20-...-P-A-S2**		**156052**	**ADVU-20-...-A-P-A-S2**
25	1 … 200	**156013**	**ADVU-25-...-P-A-S2**		**156053**	**ADVU-25-...-A-P-A-S2**
32	1 … 300	**156014**	**ADVU-32-...-P-A-S2**		**156054**	**ADVU-32-...-A-P-A-S2**
40	1 … 300	**156015**	**ADVU-40-...-P-A-S2**		**156055**	**ADVU-40-...-A-P-A-S2**
50	1 … 300	**156016**	**ADVU-50-...-P-A-S2**		**156056**	**ADVU-50-...-A-P-A-S2**
63	1 … 300	**156017**	**ADVU-63-...-P-A-S2**		**156057**	**ADVU-63-...-A-P-A-S2**
80	1 … 400	**156018**	**ADVU-80-...-P-A-S2**		**156058**	**ADVU-80-...-A-P-A-S2**
100	1 … 400	**156019**	**ADVU-100-...-P-A-S2**		**156059**	**ADVU-100-...-A-P-A-S2**
125	1 … 400	**175760**	**ADVU-125-...-P-A-S2**		**175772**	**ADVU-125-...-A-P-A-S2**
S6 – Heat-resistant up to 120 °C						
12	1 … 200	**156030**	**ADVU-12-...-P-A-S6**		**156090**	**ADVU-12-...-A-P-A-S6**
16	1 … 200	**156031**	**ADVU-16-...-P-A-S6**		**156091**	**ADVU-16-...-A-P-A-S6**
20	1 … 200	**156032**	**ADVU-20-...-P-A-S6**		**156092**	**ADVU-20-...-A-P-A-S6**
25	1 … 200	**156033**	**ADVU-25-...-P-A-S6**		**156093**	**ADVU-25-...-A-P-A-S6**
32	1 … 300	**156034**	**ADVU-32-...-P-A-S6**		**156094**	**ADVU-32-...-A-P-A-S6**
40	1 … 300	**156035**	**ADVU-40-...-P-A-S6**		**156095**	**ADVU-40-...-A-P-A-S6**
50	1 … 300	**156036**	**ADVU-50-...-P-A-S6**		**156096**	**ADVU-50-...-A-P-A-S6**
63	1 … 300	**156037**	**ADVU-63-...-P-A-S6**		**156097**	**ADVU-63-...-A-P-A-S6**
80	1 … 400	**156038**	**ADVU-80-...-P-A-S6**		**156098**	**ADVU-80-...-A-P-A-S6**
100	1 … 400	**156039**	**ADVU-100-...-P-A-S6**		**156099**	**ADVU-100-...-A-P-A-S6**
125	1 … 400	**175761**	**ADVU-125-...-P-A-S6**		**175773**	**ADVU-125-...-A-P-A-S6**

Datasheet – Double-acting, basic version

Ordering data – Variants

Piston ø [mm]	Stroke [mm]	Piston rod with female thread			Piston rod with male thread	
		Part no.	Type		Part no.	Type
S20 – Through, hollow piston rod						
12	1 … 200	–			**156060**	**ADVU-12-…-A-P-A-S20**
16	1 … 200				**156061**	**ADVU-16-…-A-P-A-S20**
20	1 … 200				**156062**	**ADVU-20-…-A-P-A-S20**
25	1 … 200				**156063**	**ADVU-25-…-A-P-A-S20**
32	1 … 300				**156064**	**ADVU-32-…-A-P-A-S20**
40	1 … 300				**156065**	**ADVU-40-…-A-P-A-S20**
50	1 … 300				**156066**	**ADVU-50-…-A-P-A-S20**
63	1 … 300				**156067**	**ADVU-63-…-A-P-A-S20**
80	1 … 400				**156068**	**ADVU-80-…-A-P-A-S20**
100	1 … 400				**156069**	**ADVU-100-…-A-P-A-S20**
R3 – Increased corrosion protection						
12	1 … 200	**176840**	**ADVU-12-…-P-A-R3**		**176851**	**ADVU-12-…-A-P-A-R3**
16	1 … 200	**176841**	**ADVU-16-…-P-A-R3**		**176852**	**ADVU-16-…-A-P-A-R3**
20	1 … 200	**176842**	**ADVU-20-…-P-A-R3**		**176853**	**ADVU-20-…-A-P-A-R3**
25	1 … 200	**176843**	**ADVU-25-…-P-A-R3**		**176854**	**ADVU-25-…-A-P-A-R3**
32	1 … 300	**176844**	**ADVU-32-…-P-A-R3**		**176855**	**ADVU-32-…-A-P-A-R3**
40	1 … 300	**176845**	**ADVU-40-…-P-A-R3**		**176856**	**ADVU-40-…-A-P-A-R3**
50	1 … 300	**176846**	**ADVU-50-…-P-A-R3**		**176857**	**ADVU-50-…-A-P-A-R3**
63	1 … 300	**176847**	**ADVU-63-…-P-A-R3**		**176858**	**ADVU-63-…-A-P-A-R3**
80	1 … 400	**176848**	**ADVU-80-…-P-A-R3**		**176859**	**ADVU-80-…-A-P-A-R3**
100	1 … 400	**176849**	**ADVU-100-…-P-A-R3**		**176860**	**ADVU-100-…-A-P-A-R3**
125	1 … 400	**176850**	**ADVU-125-…-P-A-R3**		**176861**	**ADVU-125-…-A-P-A-R3**

Datasheet – Double-acting, basic version

Ordering data – Sets of wearing parts

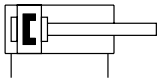
	Part no.	Type	Part no.	Type
Piston ∅	**Basic version**		**S6 – Heat-resistant up to 120 °C**	
32	**121119**	**ADVU-32-...-(A)-P-A**[1]	**383563**	**ADVU-32-...-(A)-P-A-S6**[1]
40	**121120**	**ADVU-40-...-(A)-P-A**[1]	**383564**	**ADVU-40-...-(A)-P-A-S6**[1]
50	**121121**	**ADVU-50-...-(A)-P-A**[1]	**383565**	**ADVU-50-...-(A)-P-A-S6**[1]
63	**121122**	**ADVU-63-...-(A)-P-A**[1]	**383566**	**ADVU-63-...-(A)-P-A-S6**[1]
80	**121123**	**ADVU-80-...-(A)-P-A**[1]	**383567**	**ADVU-80-...-(A)-P-A-S6**[1]
100	**121124**	**ADVU-100-...-(A)-P-A**[1]	**383568**	**ADVU-100-...-(A)-P-A-S6**[1]
125	**380423**	**ADVU-125-...-(A)-P-A**[1]	**383569**	**ADVU-125-...-(A)-P-A-S6**[1]

1) Assembly grease included in the scope of delivery

2) Assembly grease not included in scope of delivery. If required, please order separately using part no. 329 555 (20 ml)

Datasheet – Double-acting, protected against rotation with square piston rod

Function

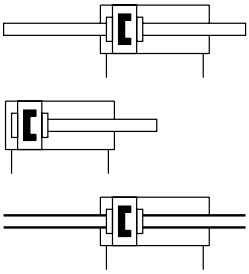


Diameter
12 ... 100 mm

Stroke length
1 ... 400 mm

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Variants



S2

S6

S20



ADVULQ-...-...-P-A



ADVULQ-...-...-P-A-S2

General technical data											
Piston ø		12	16	20	25	32	40	50	63	80	100
Pneumatic connection		M5	M5	M5	M5	G1/8	G1/8	G1/8	G1/8	G1/8	G1/4
Piston rod end	Female thread	M3	M4	M5	M5	M6	M6	M8	M8	M10	M12
	Male thread	M6	M8	M10x1.25				M12x1.25		M16x1.5	M20x1.5
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]									
Note on the operating/ pilot medium		Lubricated operation possible (required for further operation)									
Design		Piston									
		Piston rod									
Cushioning		Elastic cushioning rings/plates at both ends									
Position sensing		Via proximity switch									
Type of mounting		With through-hole									
		With female thread									
		Via accessories									
Mounting position		Any									

Note

This product conforms to ISO 1179-1 and ISO 228-1

Operating pressure											
Piston ø		12	16	20	25	32	40	50	63	80	100
Piston rod at one end	[MPa]	0.15 ... 0.1		0.1 ... 0.1							
	[bar]	1.5 ... 10		1 ... 10							
	[psi]	21.8 ... 145		14.5 ... 145							
Through piston rod S2	[MPa]	0.15 ... 0.1			0.12 ... 0.1				0.1 ... 0.1		
	[bar]	1.5 ... 10			1.2 ... 10				1 ... 10		
	[psi]	21.8 ... 145			17.4 ... 145				14.5 ... 145		

Environmental conditions			
Compact cylinder		Basic version	S6
Ambient temperature[1]	[°C]	–20 ... +80	0 ... +120
Corrosion resistance class CRC[2]		2	2

1) Note operating range of proximity switches

2) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with the normal surrounding industrial environment.

Datasheet – Double-acting, protected against rotation with square piston rod

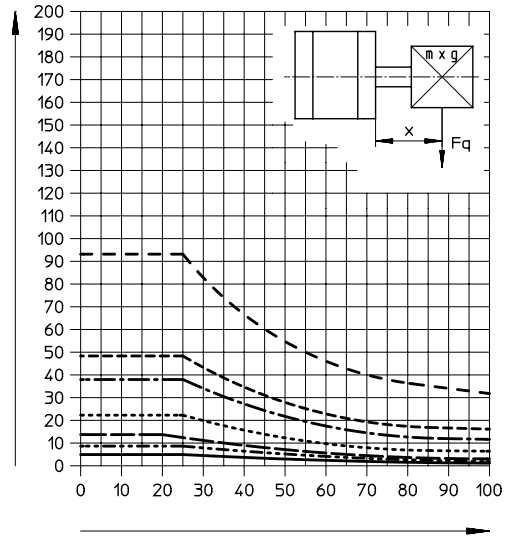
Forces [N] and impact energy [J]											
Piston ø		12	16	20	25	32	40	50	63	80	100
Theoretical force at 0.6 MPa (6 bar, 87 psi), advancing		68	121	188	295	483	754	1178	1870	3016	4712
	S2/S20	51	90	141	247	415	686	1057	1750	2827	4418
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting		51	90	141	247	415	686	1057	1750	2827	4418
	S2/S20	51	90	141	247	415	686	1057	1750	2827	4418
Max. impact energy in the end positions		0.07	0.10	0.14	0.30	0.40	0.52	0.64	0.70	0.75	1.00
	S20	0.01	0.01	0.01	0.01	0.04	0.05	0.06	0.07	0.08	0.10

Technical data – Square piston rod											
Piston ø		12	16	20	25	32	40	50	63	80	100
Max. torque on the piston rod[1]	[Nm]	0.10	0.20	0.45	0.45	0.80	0.80	1.10	1.10	1.50	3.00
Max. torsional backlash of the piston rod	[°]	±1.0	±0.9	±0.8	±0.8	±0.6	±0.6	±0.5	±0.5	±0.4	±0.4
Piston rod distortion	[°/50 mm]	0.40	0.30	0.25	0.25	0.20	0.20	0.15	0.15	0.15	0.09

1) The max. torque must not be exceeded even when attaching mounting components to the piston rod

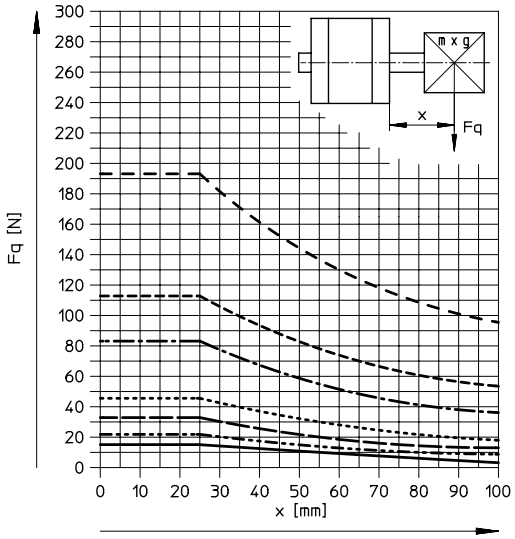
Max. lateral force Fq as a function of projection x

Piston rod at one end



Ø 12
Ø 16
Ø 20/25
Ø 32/40
Ø 50/63
Ø 80
Ø 100

Through piston rod



Ø 12
Ø 16
Ø 20/25
Ø 32/40
Ø 50/63
Ø 80
Ø 100

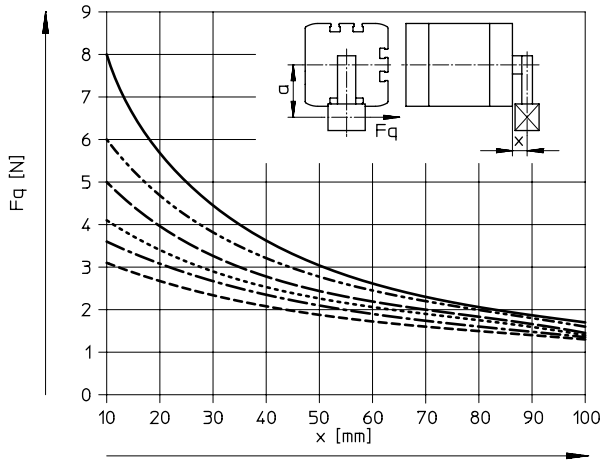
Datasheet – Double-acting, protected against rotation with square piston rod

Max. lateral load Fq as a function of projection x and lever arm a

Q – Square piston rod

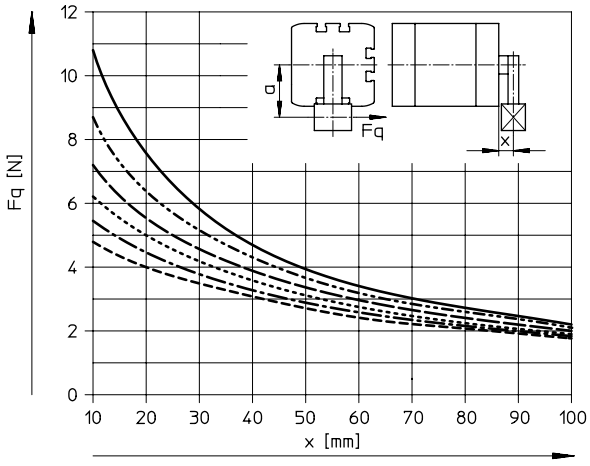
Through piston rod

Ø 12



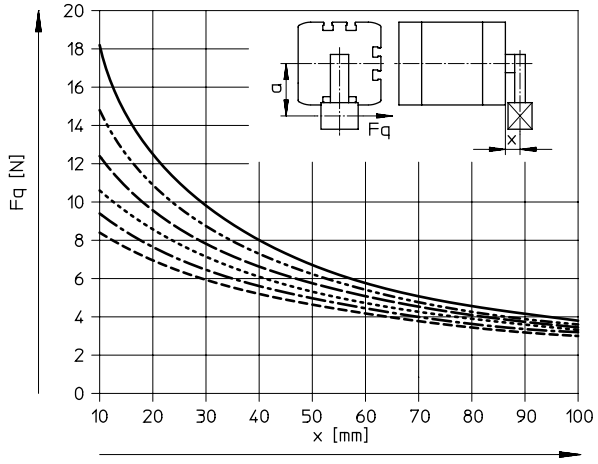
- a = 5 mm
- a = 10 mm
- a = 15 mm
- a = 20 mm
- a = 25 mm
- a = 30 mm

Ø 16



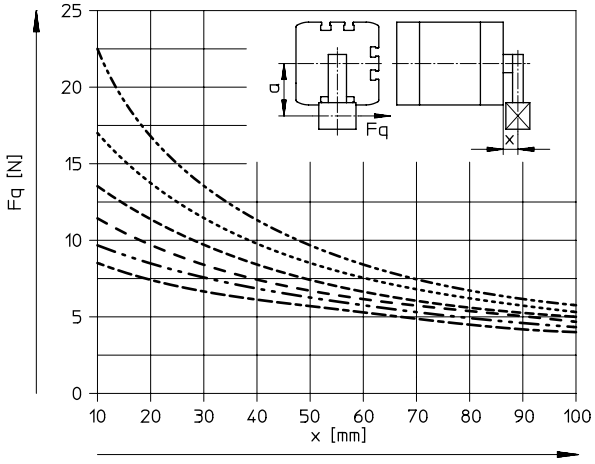
- a = 5 mm
- a = 10 mm
- a = 15 mm
- a = 20 mm
- a = 25 mm
- a = 30 mm

Ø 20/25



- a = 5 mm
- a = 10 mm
- a = 15 mm
- a = 20 mm
- a = 25 mm
- a = 30 mm

Ø 32/40

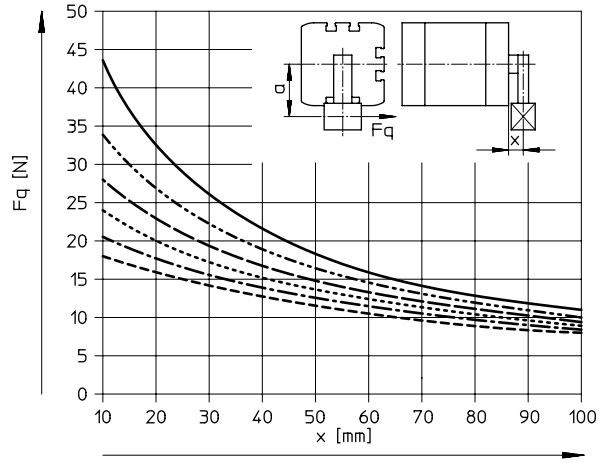


- a = 10 mm
- a = 20 mm
- a = 30 mm
- a = 40 mm
- a = 50 mm
- a = 60 mm

Datasheet – Double-acting, protected against rotation with square piston rod

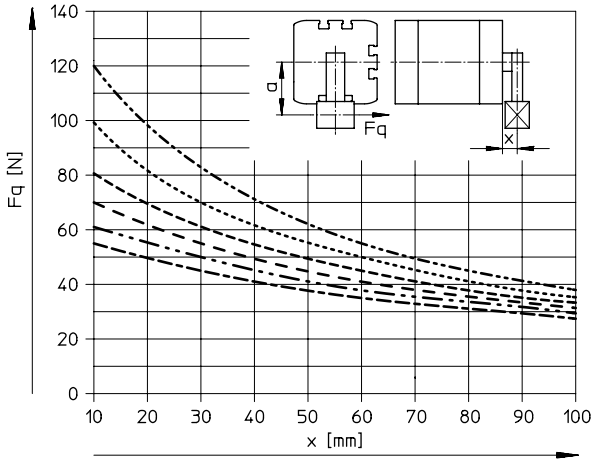
Max. lateral load Fq as a function of projection x and lever arm a

Ø 50/63



- a = 10 mm
- a = 20 mm
- a = 30 mm
- a = 40 mm
- a = 50 mm
- a = 60 mm

Ø 80/100



- a = 10 mm
- a = 20 mm
- a = 30 mm
- a = 40 mm
- a = 50 mm
- a = 60 mm

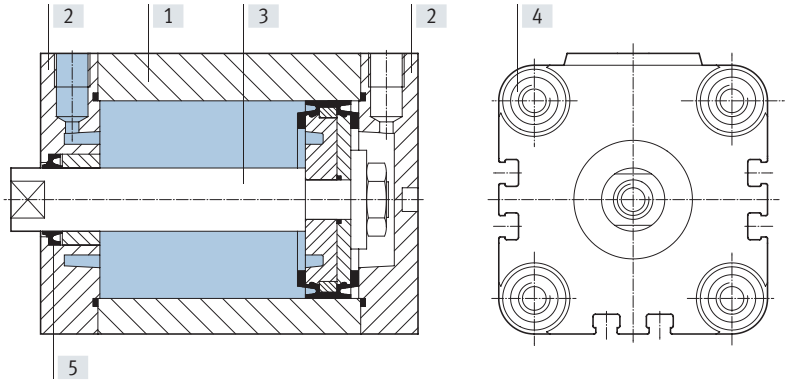
Weight [g]

Piston Ø	12	16	20	25	32	40	50	63	80	100
Product weight with 0 mm stroke	87	89	149	180	300	433	560	1059	1772	2797
Additional weight per 10 mm stroke	15	15	23	28	40	59	72	107	168	177
Moving mass with 0 mm stroke	8	12	20	26	49	63	112	134	307	614
Additional mass per 10 mm stroke	2	4	6	6	9	9	16	16	25	38

Datasheet – Double-acting, protected against rotation with square piston rod

Materials

Sectional view

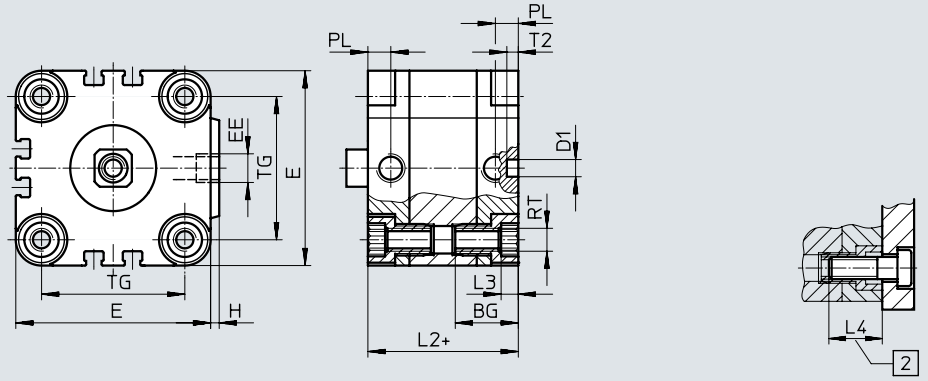


Compact cylinder			Basic version	S6
[1]	Cylinder barrel		Wrought aluminium alloy	Wrought aluminium alloy
[2]	Cover		Wrought aluminium alloy	Wrought aluminium alloy
[3]	Piston rod	Ø 12 ... 32	High-alloy stainless steel	High-alloy stainless steel
		Ø 40 ... 100	High-alloy steel	High-alloy steel
[4]	Flange screws	Ø 12 ... 16	High-alloy stainless steel	High-alloy stainless steel
		Ø 20 ... 100	Galvanised steel	Galvanised steel
[5]	Dynamic seals		Polyurethane	Fluoro rubber

Datasheet – Double-acting, protected against rotation with square piston rod

Dimensions – Basic cylinder

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Note

To mount from above with piston diameter 12 and 16 mm, only use 2 diagonal screws or use non-magnetic screws.

+ = plus stroke length
[2] Minimum screw-in depth

ø [mm]	BG	D1 ø H9	E	EE	H	L2	L3	L4	PL	RT	T2 –0.2	TG
12	18.5	6	29	M5	1	38	3	16	8	M4	4	18
16	18.5	6	29	M5	1	38	3	16	8	M4	4	18
20	18.5	6	36	M5	1.5	38	4	18	8	M5	4	22
25	18.5	6	40	M5	1.5	39.5	4	18	8	M5	4	26
32	21.5	6	50	G1/8	2	44.5	5	20	8	M6	4	32
40	21.5	6	60	G1/8	2.5	45.5	5	20	8	M6	4	42
50	22	6	68	G1/8	3	45.5	6	20	8	M8	4	50
63	24.5	8	87	G1/8	4	50	8	25	8	M10	4	62
80	27.5	8	107	G1/8	4	56	8	25	8.5	M10	4	82
100	32.5	8	128	G1/4	5	66.5	8	25	10.5	M10	4	103

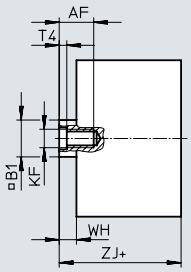
Note

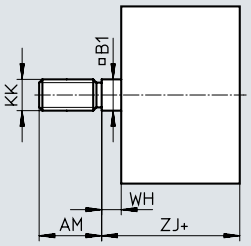
This product conforms to ISO 1179-1 and ISO 228-1

Datasheet – Double-acting, protected against rotation with square piston rod

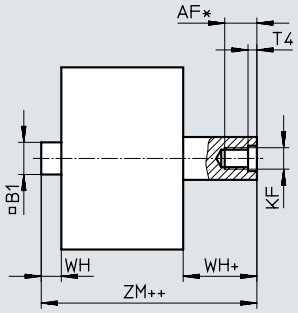
Dimensions – Variants Download CAD data ➔ www.festo.com

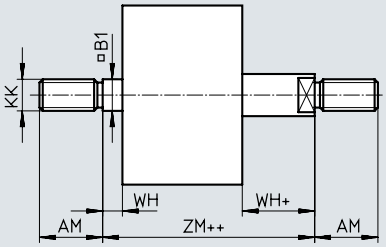
Basic version



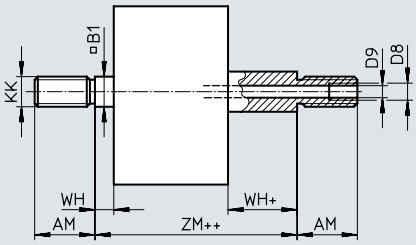


S2 – Through piston rod





S20 – Through, hollow piston rod



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

ø [mm]	AF	AM	B1 □	D8	D9 ø	KF	KK	T4	WH	ZJ	ZM
12	8	16	5.5	–	2.3	M3	M6	1.5	4.5	42.5	47
16	10	20	7	–	3.2	M4	M8	1.5	4.5	42.5	47
20[2]	12	22	9	–	3.8	M5	M10x1.25	2	4.5	42.5	47
25[2]	12	22	9	–	3.8	M5	M10x1.25	2	5.5	45	50.5
32[2]	14	22	10	–	4.5	M6	M10x1.25	2.6	6	50.5	56.5
40[2]	14	22	10	–	4.5	M6	M10x1.25	2.6	6.5	52	58.5
50[2]	16	24	12	–	6	M8	M12x1.25	3.3	7.5	53	60.5
63[2]	16	24	12	–	6	M8	M12x1.25	3.3	7.5	57.5	65
80[2]	20[1]	32	16	G1/8	8	M10	M16x1.5	4.7	8	64	72
100[2]	24[1]	40	20	G1/4	11.7	M12	M20x1.5	6.1	10	76.5	86.5

1) With a stroke < 5 mm, the maximum screw-in depth is reduced by 5 mm
2) Nut for piston rod thread included in the scope of delivery

Datasheet – Double-acting, protected against rotation with square piston rod

Ordering data – Basic design

Piston ø	Stroke	Piston rod with female thread		Piston rod with male thread	
[mm]	[mm]	Part no.	Type	Part no.	Type
12	5	156672	ADVULQ-12-5-P-A	156758	ADVULQ-12-5-A-P-A
	10	156673	ADVULQ-12-10-P-A	156759	ADVULQ-12-10-A-P-A
	15	156674	ADVULQ-12-15-P-A	156760	ADVULQ-12-15-A-P-A
	20	156675	ADVULQ-12-20-P-A	156761	ADVULQ-12-20-A-P-A
	25	156676	ADVULQ-12-25-P-A	156762	ADVULQ-12-25-A-P-A
	30	156677	ADVULQ-12-30-P-A	156763	ADVULQ-12-30-A-P-A
	40	156678	ADVULQ-12-40-P-A	156764	ADVULQ-12-40-A-P-A
16	5	156679	ADVULQ-16-5-P-A	156765	ADVULQ-16-5-A-P-A
	10	156680	ADVULQ-16-10-P-A	156766	ADVULQ-16-10-A-P-A
	15	156681	ADVULQ-16-15-P-A	156767	ADVULQ-16-15-A-P-A
	20	156682	ADVULQ-16-20-P-A	156768	ADVULQ-16-20-A-P-A
	25	156683	ADVULQ-16-25-P-A	156769	ADVULQ-16-25-A-P-A
	30	156684	ADVULQ-16-30-P-A	156770	ADVULQ-16-30-A-P-A
	40	156685	ADVULQ-16-40-P-A	156771	ADVULQ-16-40-A-P-A
20	5	156686	ADVULQ-20-5-P-A	156772	ADVULQ-20-5-A-P-A
	10	156687	ADVULQ-20-10-P-A	156773	ADVULQ-20-10-A-P-A
	15	156688	ADVULQ-20-15-P-A	156774	ADVULQ-20-15-A-P-A
	20	156689	ADVULQ-20-20-P-A	156775	ADVULQ-20-20-A-P-A
	25	156690	ADVULQ-20-25-P-A	156776	ADVULQ-20-25-A-P-A
	30	156691	ADVULQ-20-30-P-A	156777	ADVULQ-20-30-A-P-A
	40	156692	ADVULQ-20-40-P-A	156778	ADVULQ-20-40-A-P-A
	50	156693	ADVULQ-20-50-P-A	156779	ADVULQ-20-50-A-P-A
25	5	156694	ADVULQ-25-5-P-A	156780	ADVULQ-25-5-A-P-A
	10	156695	ADVULQ-25-10-P-A	156781	ADVULQ-25-10-A-P-A
	15	156696	ADVULQ-25-15-P-A	156782	ADVULQ-25-15-A-P-A
	20	156697	ADVULQ-25-20-P-A	156783	ADVULQ-25-20-A-P-A
	25	156698	ADVULQ-25-25-P-A	156784	ADVULQ-25-25-A-P-A
	30	156699	ADVULQ-25-30-P-A	156785	ADVULQ-25-30-A-P-A
	40	156700	ADVULQ-25-40-P-A	156786	ADVULQ-25-40-A-P-A
	50	156701	ADVULQ-25-50-P-A	156787	ADVULQ-25-50-A-P-A
32	5	156702	ADVULQ-32-5-P-A	156788	ADVULQ-32-5-A-P-A
	10	156703	ADVULQ-32-10-P-A	156789	ADVULQ-32-10-A-P-A
	15	156704	ADVULQ-32-15-P-A	156790	ADVULQ-32-15-A-P-A
	20	156705	ADVULQ-32-20-P-A	156791	ADVULQ-32-20-A-P-A
	25	156706	ADVULQ-32-25-P-A	156792	ADVULQ-32-25-A-P-A
	30	156707	ADVULQ-32-30-P-A	156793	ADVULQ-32-30-A-P-A
	40	156708	ADVULQ-32-40-P-A	156794	ADVULQ-32-40-A-P-A
	50	156709	ADVULQ-32-50-P-A	156795	ADVULQ-32-50-A-P-A
	60	156710	ADVULQ-32-60-P-A	156796	ADVULQ-32-60-A-P-A
	80	156711	ADVULQ-32-80-P-A	156797	ADVULQ-32-80-A-P-A

Datasheet – Double-acting, protected against rotation with square piston rod

Ordering data – Basic design

Piston ø	Stroke	Piston rod with female thread		Piston rod with male thread	
[mm]	[mm]	Part no.	Type	Part no.	Type
40	5	156712	ADVULQ-40-5-P-A	156798	ADVULQ-40-5-A-P-A
	10	156713	ADVULQ-40-10-P-A	156799	ADVULQ-40-10-A-P-A
	15	156714	ADVULQ-40-15-P-A	156800	ADVULQ-40-15-A-P-A
	20	156715	ADVULQ-40-20-P-A	156801	ADVULQ-40-20-A-P-A
	25	156716	ADVULQ-40-25-P-A	156802	ADVULQ-40-25-A-P-A
	30	156717	ADVULQ-40-30-P-A	156803	ADVULQ-40-30-A-P-A
	40	156718	ADVULQ-40-40-P-A	156804	ADVULQ-40-40-A-P-A
	50	156719	ADVULQ-40-50-P-A	156805	ADVULQ-40-50-A-P-A
	60	156720	ADVULQ-40-60-P-A	156806	ADVULQ-40-60-A-P-A
	80	156721	ADVULQ-40-80-P-A	156807	ADVULQ-40-80-A-P-A
50	10	156722	ADVULQ-50-10-P-A	156808	ADVULQ-50-10-A-P-A
	15	156723	ADVULQ-50-15-P-A	156809	ADVULQ-50-15-A-P-A
	20	156724	ADVULQ-50-20-P-A	156810	ADVULQ-50-20-A-P-A
	25	156725	ADVULQ-50-25-P-A	156811	ADVULQ-50-25-A-P-A
	30	156726	ADVULQ-50-30-P-A	156812	ADVULQ-50-30-A-P-A
	40	156727	ADVULQ-50-40-P-A	156813	ADVULQ-50-40-A-P-A
	50	156728	ADVULQ-50-50-P-A	156814	ADVULQ-50-50-A-P-A
	60	156729	ADVULQ-50-60-P-A	156815	ADVULQ-50-60-A-P-A
	80	156730	ADVULQ-50-80-P-A	156816	ADVULQ-50-80-A-P-A
63	10	156731	ADVULQ-63-10-P-A	156 817	ADVULQ-63-10-A-P-A
	15	156732	ADVULQ-63-15-P-A	156 818	ADVULQ-63-15-A-P-A
	20	156733	ADVULQ-63-20-P-A	156 819	ADVULQ-63-20-A-P-A
	25	156734	ADVULQ-63-25-P-A	156 820	ADVULQ-63-25-A-P-A
	30	156735	ADVULQ-63-30-P-A	156 821	ADVULQ-63-30-A-P-A
	40	156736	ADVULQ-63-40-P-A	156 822	ADVULQ-63-40-A-P-A
	50	156737	ADVULQ-63-50-P-A	156 823	ADVULQ-63-50-A-P-A
	60	156738	ADVULQ-63-60-P-A	156 824	ADVULQ-63-60-A-P-A
	80	156739	ADVULQ-63-80-P-A	156 825	ADVULQ-63-80-A-P-A
80	10	156740	ADVULQ-80-10-P-A	156826	ADVULQ-80-10-A-P-A
	15	156741	ADVULQ-80-15-P-A	156827	ADVULQ-80-15-A-P-A
	20	156742	ADVULQ-80-20-P-A	156828	ADVULQ-80-20-A-P-A
	25	156743	ADVULQ-80-25-P-A	156829	ADVULQ-80-25-A-P-A
	30	156744	ADVULQ-80-30-P-A	156830	ADVULQ-80-30-A-P-A
	40	156745	ADVULQ-80-40-P-A	156831	ADVULQ-80-40-A-P-A
	50	156746	ADVULQ-80-50-P-A	156832	ADVULQ-80-50-A-P-A
	60	156747	ADVULQ-80-60-P-A	156833	ADVULQ-80-60-A-P-A
	80	156748	ADVULQ-80-80-P-A	156834	ADVULQ-80-80-A-P-A
100	10	156749	ADVULQ-100-10-P-A	156835	ADVULQ-100-10-A-P-A
	15	156750	ADVULQ-100-15-P-A	156836	ADVULQ-100-15-A-P-A
	20	156751	ADVULQ-100-20-P-A	156837	ADVULQ-100-20-A-P-A
	25	156752	ADVULQ-100-25-P-A	156838	ADVULQ-100-25-A-P-A
	30	156753	ADVULQ-100-30-P-A	156839	ADVULQ-100-30-A-P-A
	40	156754	ADVULQ-100-40-P-A	156840	ADVULQ-100-40-A-P-A
	50	156755	ADVULQ-100-50-P-A	156841	ADVULQ-100-50-A-P-A
	60	156756	ADVULQ-100-60-P-A	156842	ADVULQ-100-60-A-P-A
	80	156757	ADVULQ-100-80-P-A	156843	ADVULQ-100-80-A-P-A

Datasheet – Double-acting, protected against rotation with square piston rod

Ordering data – Basic design						
Piston ø	Stroke	Piston rod with female thread			Piston rod with male thread	
[mm]	[mm]	Part no.	Type		Part no.	Type
S2 – Through piston rod						
12	1 … 200	**156100**	**ADVULQ-12-...-P-A**		**156140**	**ADVULQ-12-...-A-P-A**
16	1 … 200	**156101**	**ADVULQ-16-...-P-A**		**156141**	**ADVULQ-16-...-A-P-A**
20	1 … 200	**156102**	**ADVULQ-20-...-P-A**		**156142**	**ADVULQ-20-...-A-P-A**
25	1 … 200	**156103**	**ADVULQ-25-...-P-A**		**156143**	**ADVULQ-25-...-A-P-A**
32	1 … 300	**156104**	**ADVULQ-32-...-P-A**		**156144**	**ADVULQ-32-...-A-P-A**
40	1 … 300	**156105**	**ADVULQ-40-...-P-A**		**156145**	**ADVULQ-40-...-A-P-A**
50	1 … 300	**156106**	**ADVULQ-50-...-P-A**		**156146**	**ADVULQ-50-...-A-P-A**
63	1 … 300	**156107**	**ADVULQ-63-...-P-A**		**156147**	**ADVULQ-63-...-A-P-A**
80	1 … 400	**156108**	**ADVULQ-80-...-P-A**		**156148**	**ADVULQ-80-...-A-P-A**
100	1 … 400	**156109**	**ADVULQ-100-...-P-A**		**156149**	**ADVULQ-100-...-A-P-A**
S2 – Through piston rod						
12	1 … 200	**156110**	**ADVULQ-12-...-P-A-S2**		**156150**	**ADVULQ-12-...-A-P-A-S2**
16	1 … 200	**156111**	**ADVULQ-16-...-P-A-S2**		**156151**	**ADVULQ-16-...-A-P-A-S2**
20	1 … 200	**156112**	**ADVULQ-20-...-P-A-S2**		**156152**	**ADVULQ-20-...-A-P-A-S2**
25	1 … 200	**156113**	**ADVULQ-25-...-P-A-S2**		**156153**	**ADVULQ-25-...-A-P-A-S2**
32	1 … 300	**156114**	**ADVULQ-32-...-P-A-S2**		**156154**	**ADVULQ-32-...-A-P-A-S2**
40	1 … 300	**156115**	**ADVULQ-40-...-P-A-S2**		**156155**	**ADVULQ-40-...-A-P-A-S2**
50	1 … 300	**156116**	**ADVULQ-50-...-P-A-S2**		**156156**	**ADVULQ-50-...-A-P-A-S2**
63	1 … 300	**156117**	**ADVULQ-63-...-P-A-S2**		**156157**	**ADVULQ-63-...-A-P-A-S2**
80	1 … 400	**156118**	**ADVULQ-80-...-P-A-S2**		**156158**	**ADVULQ-80-...-A-P-A-S2**
100	1 … 400	**156119**	**ADVULQ-100-...-P-A-S2**		**156159**	**ADVULQ-100-...-A-P-A-S2**
S6 – Heat-resistant up to 120 °C						
12	1 … 200	**156130**	**ADVULQ-12-...-P-A-S6**		**156190**	**ADVULQ-12-...-A-P-A-S6**
16	1 … 200	**156131**	**ADVULQ-16-...-P-A-S6**		**156191**	**ADVULQ-16-...-A-P-A-S6**
20	1 … 200	**156132**	**ADVULQ-20-...-P-A-S6**		**156192**	**ADVULQ-20-...-A-P-A-S6**
25	1 … 200	**156133**	**ADVULQ-25-...-P-A-S6**		**156193**	**ADVULQ-25-...-A-P-A-S6**
32	1 … 300	**156134**	**ADVULQ-32-...-P-A-S6**		**156194**	**ADVULQ-32-...-A-P-A-S6**
40	1 … 300	**156135**	**ADVULQ-40-...-P-A-S6**		**156195**	**ADVULQ-40-...-A-P-A-S6**
50	1 … 300	**156136**	**ADVULQ-50-...-P-A-S6**		**156196**	**ADVULQ-50-...-A-P-A-S6**
63	1 … 300	**156137**	**ADVULQ-63-...-P-A-S6**		**156197**	**ADVULQ-63-...-A-P-A-S6**
80	1 … 400	**156138**	**ADVULQ-80-...-P-A-S6**		**156198**	**ADVULQ-80-...-A-P-A-S6**
100	1 … 400	**156139**	**ADVULQ-100-...-P-A-S6**		**156199**	**ADVULQ-100-...-A-P-A-S6**

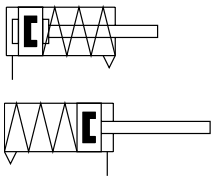
Datasheet – Double-acting, protected against rotation with square piston rod

Ordering data – Variants

Piston ø [mm]	Stroke [mm]	Piston rod with female thread		Piston rod with male thread	
		Part no.	Type	Part no.	Type
S20 – Through, hollow piston rod					
16	1 … 200	–		**156161**	**ADVULQ-16-…-A-P-A-S20**
20	1 … 200			**156162**	**ADVULQ-20-…-A-P-A-S20**
25	1 … 200			**156163**	**ADVULQ-25-…-A-P-A-S20**
32	1 … 300			**156164**	**ADVULQ-32-…-A-P-A-S20**
40	1 … 300			**156165**	**ADVULQ-40-…-A-P-A-S20**
50	1 … 300			**156166**	**ADVULQ-50-…-A-P-A-S20**
63	1 … 300			**156167**	**ADVULQ-63-…-A-P-A-S20**
80	1 … 400			**156168**	**ADVULQ-80-…-A-P-A-S20**
100	1 … 400			**156169**	**ADVULQ-100-…-A-P-A-S20**

Datasheet – Single-acting, basic version

Function

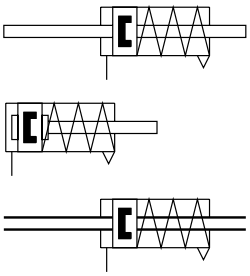


Diameter
12 ... 100 mm

Stroke length
1 ... 25 mm

www.festo.com
Sets of wearing parts
➔ page 42

Variants





AEVU-...-...-P-A

AEVU-...-...-A-P-A



AEVU-...-...-P-A-S2

AEVU-...-...-A-P-A-S20

General technical data											
Piston ø		12	16	20	25	32	40	50	63	80	100
Pneumatic connection		M5	M5	M5	M5	G1/8	G1/8	G1/8	G1/8	G1/8	G1/4
Piston rod end	Female thread	M3	M4	M5	M5	M6	M6	M8	M8	M10	M12
	Male thread	M6	M8	M10x1.25				M12x1.25		M16x1.5	M20x1.5
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]									
Note on the operating/ pilot medium		Lubricated operation possible (required for further operation)									
Design		Piston									
		Piston rod									
Cushioning		Elastic cushioning rings/plates at both ends									
Position sensing		Via proximity switch									
Type of mounting		With through-hole									
		With female thread									
		Via accessories									
Mounting position		Any									

Note

This product conforms to ISO 1179-1 and ISO 228-1

Operating pressure											
Piston ø		12	16	20	25	32	40	50	63	80	100
Pushing variant AEVU											
Piston rod at one end	[MPa]	0.15 ... 1	0.13 ... 1	0.1 ... 1		0.08 ... 1			0.06 ... 1		
	[bar]	1.5 ... 10	1.3 ... 10	1 ... 10		0.8 ... 10			0.6 ... 10		
	[psi]	21.8 ... 145	18.9 ... 145	14.5 ... 145		11.6 ... 145			8.7 ... 145		
Through piston rod S2/S20	[MPa]	0.17... 1	0.15 ... 1	0.14 ... 1		0.12 ... 1			0.1 ... 1		
	[bar]	1.7 ... 10	1.5 ... 10	1.4 ... 10		1.2 ... 10			1 ... 10		
	[psi]	24.7 ... 145	21.8 ... 145	20.3 ... 145		17.4 ... 145			14.5 ... 145		
Pulling variant AEVUZ											
Piston rod at one end	[MPa]	0.15 ... 1	0.13 ... 1	0.1 ... 1		0.08 ... 1					
	[bar]	1.5 ... 10	1.3 ... 10	1 ... 10		0.8 ... 10					
	[psi]	21.8 ... 145	18.9 ... 145	14.5 ... 145		11.6 ... 145					

Datasheet – Single-acting, basic version

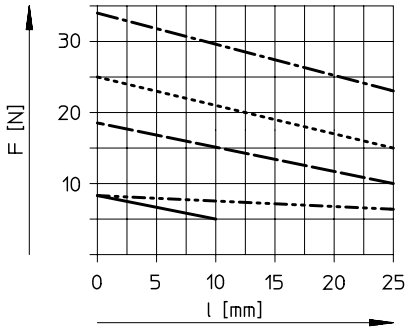
Environmental conditions			
Compact cylinder		Basic version	S6
Ambient temperature[1]	[°C]	–20 ... +80	0 ... +120
Corrosion resistance class CRC[2]		2	2

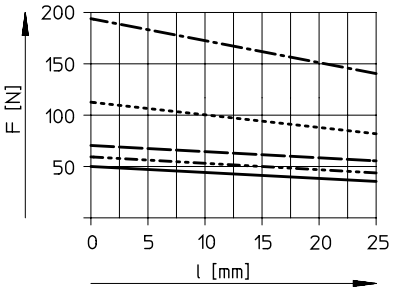
1) Note operating range of proximity switches

2) Corrosion resistance class 2 to Festo standard 940070
Components subject to moderate corrosion stress. External visible parts with primarily decorative surface requirements that are in direct contact with a normal industrial environment or media such as coolants or lubricating agents

Forces [N]											
Piston ø		12	16	20	25	32	40	50	63	80	100
Pushing variant AEVU											
Theoretical force at 0.6 MPa (6 bar, 87 psi), advancing		59	111	171	269	450	704	1121	1799	2902	4516
	S2/S20	42	81	123	221	382	636	999	1679	2733	4222
Pulling variant AEVUZ											
Theoretical force at 0.6 MPa (6 bar, 87 psi), advancing		42	81	123	221	382	636	999	1679	2733	4222

Spring return force F as a function of stroke l





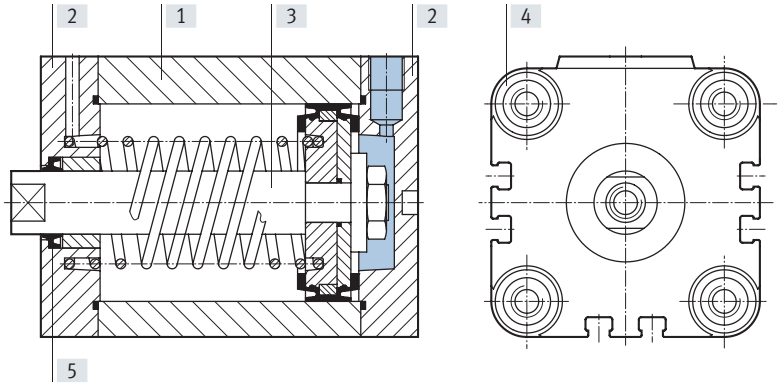
- AEVU/AEVUZ-12
- AEVU/AEVUZ-16
- AEVU/AEVUZ-20
- AEVU/AEVUZ-25
- AEVU/AEVUZ-32
- AEVU/AEVUZ-40
- AEVU/AEVUZ-50
- AEVU/AEVUZ-63
- AEVU/AEVUZ-80
- AEVU/AEVUZ-100

Weight [g]										
Piston ø	12	16	20	25	32	40	50	63	80	100
Product weight with 0 mm stroke	87	89	149	180	300	433	560	1059	1772	2797
Additional weight per 10 mm stroke	15	15	23	28	40	59	72	107	168	177
Moving mass with 0 mm stroke	8	12	20	26	49	63	112	134	307	614
Additional mass per 10 mm stroke	2	4	6	6	9	9	16	16	25	38

Datasheet – Single-acting, basic version

Materials

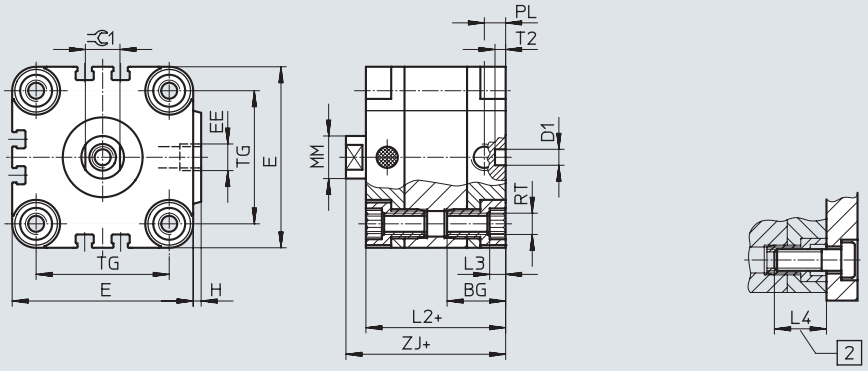
Sectional view



Compact cylinder			Basic version	S6
[1]	Cylinder barrel		Wrought aluminium alloy	Wrought aluminium alloy
[2]	Cover		Wrought aluminium alloy	Wrought aluminium alloy
[3]	Piston rod	ø 12 ... 32	High-alloy stainless steel	High-alloy stainless steel
		ø 40 ... 100	High-alloy steel	High-alloy steel
[4]	Flange screws	ø 12 ... 16	High-alloy stainless steel	High-alloy stainless steel
		ø 20 ... 100	Galvanised steel	Galvanised steel
[5]	Dynamic seals		Polyurethane	Fluoro rubber

Dimensions – Basic cylinder

Download CAD data ➔ www.festo.com



Note

To mount from above with piston diameter 12 and 16 mm, only use 2 diagonal screws or use non-magnetic screws.

+ = plus stroke length
[2] Minimum screw-in depth

ø [mm]	BG	D1 ø H9	E	EE	H	L2	L3	L4	MM ø	PL	RT	T2 –0.2	TG	ZJ	⌀C1 h13
12	18.5	6	29	M5	1	38	3	16	6	8	M4	4	18	42.5	5
16	18.5	6	29	M5	1	38	3	16	8	8	M4	4	18	42.5	7
20	18.5	6	36	M5	1.5	38	4	18	10	8	M5	4	22	42.5	9
25	18.5	6	40	M5	1.5	39.5	4	18	10	8	M5	4	26	45	9
32	21.5	6	50	G1/8	2	44.5	5	20	12	8	M6	4	32	50.5	10
40	21.5	6	60	G1/8	2.5	45.5	5	20	12	8	M6	4	42	52	10
50	22	6	68	G1/8	3	45.5	6	20	16	8	M8	4	50	53	13
63	24.5	8	87	G1/8	4	50	8	25	16	8	M10	4	62	57.5	13
80	27.5	8	107	G1/8	4	56	8	25	20	8.5	M10	4	82	64	17
100	32.5	8	128	G1/4	5	66.5	8	25	25	10.5	M10	4	103	76.5	22

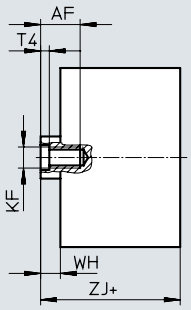
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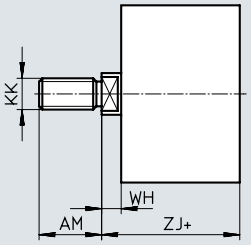
This product conforms to ISO 1179-1 and ISO 228-1

Datasheet – Single-acting, basic version

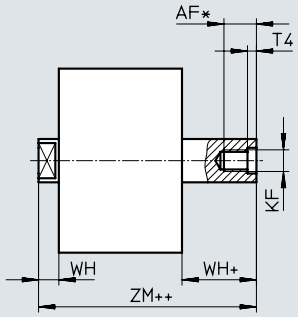
Dimensions – Pushing variants AEVU Download CAD data ➔ www.festo.com

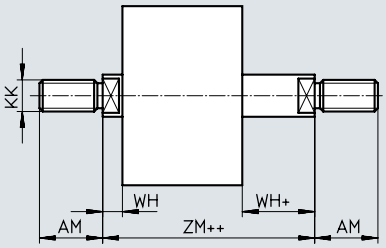
Basic version



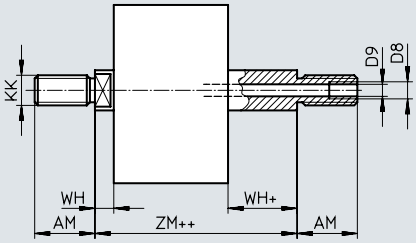


S2 – Through piston rod





S20 – Through, hollow piston rod



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

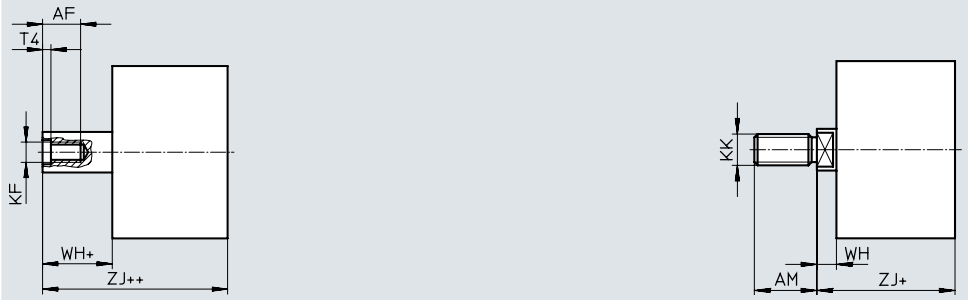
ø [mm]	AF	AM	D8	D9 ø	KF	KK	T4	WH	ZJ	ZM
12	8	16	–	2.3	M3	M6	1.5	4.5	42.5	47
16	10	20	–	3.2	M4	M8	1.5	4.5	42.5	47
20[2]	12	22	–	3.8	M5	M10x1.25	2	4.5	42.5	47
25[2]	12	22	–	3.8	M5	M10x1.25	2	5.5	45	50.5
32[2]	14	22	–	4.5	M6	M10x1.25	2.6	6	50.5	56.5
40[2]	14	22	–	4.5	M6	M10x1.25	2.6	6.5	52	58.5
50[2]	16	24	–	6	M8	M12x1.25	3.3	7.5	53	60.5
63[2]	16	24	–	6	M8	M12x1.25	3.3	7.5	57.5	65
80[2]	20[1]	32	G1/8	8	M10	M16x1.5	4.7	8	64	72
100[2]	24[1]	40	G1/4	11.7	M12	M20x1.5	6.1	10	76.5	86.5

1) With a stroke < 5 mm, the maximum screw-in depth is reduced by 5 mm
2) Nut for piston rod thread included in the scope of delivery

Datasheet – Single-acting, basic version

Dimensions – Pulling variants AEVUZ

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

ø [mm]	AF	AM	KF	KK	T4	WH	ZJ
12	8	16	M3	M6	1.5	4.5	42.5
16	10	20	M4	M8	1.5	4.5	42.5
20[1)]	12	22	M5	M10x1.25	2	4.5	42.5
25[1)]	12	22	M5	M10x1.25	2	5.5	45
32[1)]	14	22	M6	M10x1.25	2.6	6	50.5
40[1)]	14	22	M6	M10x1.25	2.6	6.5	52
50[1)]	16	24	M8	M12x1.25	3.3	7.5	53
63[1)]	16	24	M8	M12x1.25	3.3	7.5	57.5
80[1)]	20	32	M10	M16x1.5	4.7	8	64
100[1)]	24	40	M12	M20x1.5	6.1	10	76.5

1) Nut for piston rod thread included in the scope of delivery

Datasheet – Single-acting, basic version

Ordering data – Pushing variants, basic version, AEVU

Piston ø	Stroke	Piston rod with female thread		Piston rod with male thread	
[mm]	[mm]	Part no.	Type	Part no.	Type
12	5	156930	AEVU-12-5-P-A	156976	AEVU-12-5-A-P-A
	10	156931	AEVU-12-10-P-A	156977	AEVU-12-10-A-P-A
16	5	156935	AEVU-16-5-P-A	156981	AEVU-16-5-A-P-A
	10	156936	AEVU-16-10-P-A	156982	AEVU-16-10-A-P-A
	15	156937	AEVU-16-15-P-A	156983	AEVU-16-15-A-P-A
	20	156938	AEVU-16-20-P-A	156984	AEVU-16-20-A-P-A
	25	156939	AEVU-16-25-P-A	156985	AEVU-16-25-A-P-A
20	5	156940	AEVU-20-5-P-A	156986	AEVU-20-5-A-P-A
	10	156941	AEVU-20-10-P-A	156987	AEVU-20-10-A-P-A
	15	156942	AEVU-20-15-P-A	156988	AEVU-20-15-A-P-A
	20	156943	AEVU-20-20-P-A	156989	AEVU-20-20-A-P-A
	25	156944	AEVU-20-25-P-A	156990	AEVU-20-25-A-P-A
25	5	156945	AEVU-25-5-P-A	156991	AEVU-25-5-A-P-A
	10	156946	AEVU-25-10-P-A	156992	AEVU-25-10-A-P-A
	15	156947	AEVU-25-15-P-A	156993	AEVU-25-15-A-P-A
	20	156948	AEVU-25-20-P-A	156994	AEVU-25-20-A-P-A
	25	156949	AEVU-25-25-P-A	156995	AEVU-25-25-A-P-A
32	5	156950	AEVU-32-5-P-A	156996	AEVU-32-5-A-P-A
	10	156951	AEVU-32-10-P-A	156997	AEVU-32-10-A-P-A
	15	156952	AEVU-32-15-P-A	156998	AEVU-32-15-A-P-A
	20	156953	AEVU-32-20-P-A	156999	AEVU-32-20-A-P-A
	25	156954	AEVU-32-25-P-A	157000	AEVU-32-25-A-P-A
40	5	156955	AEVU-40-5-P-A	157001	AEVU-40-5-A-P-A
	10	156956	AEVU-40-10-P-A	157002	AEVU-40-10-A-P-A
	15	156957	AEVU-40-15-P-A	157003	AEVU-40-15-A-P-A
	20	156958	AEVU-40-20-P-A	157004	AEVU-40-20-A-P-A
	25	156959	AEVU-40-25-P-A	157005	AEVU-40-25-A-P-A
50	10	156960	AEVU-50-10-P-A	157006	AEVU-50-10-A-P-A
	15	156961	AEVU-50-15-P-A	157007	AEVU-50-15-A-P-A
	20	156962	AEVU-50-20-P-A	157008	AEVU-50-20-A-P-A
	25	156963	AEVU-50-25-P-A	157009	AEVU-50-25-A-P-A
63	10	156964	AEVU-63-10-P-A	157010	AEVU-63-10-A-P-A
	15	156965	AEVU-63-15-P-A	157011	AEVU-63-15-A-P-A
	20	156966	AEVU-63-20-P-A	157012	AEVU-63-20-A-P-A
	25	156967	AEVU-63-25-P-A	157013	AEVU-63-25-A-P-A
80	10	156968	AEVU-80-10-P-A	157014	AEVU-80-10-A-P-A
	15	156969	AEVU-80-15-P-A	157015	AEVU-80-15-A-P-A
	20	156970	AEVU-80-20-P-A	157016	AEVU-80-20-A-P-A
	25	156971	AEVU-80-25-P-A	157017	AEVU-80-25-A-P-A
100	10	156972	AEVU-100-10-P-A	157018	AEVU-100-10-A-P-A
	15	156973	AEVU-100-15-P-A	157019	AEVU-100-15-A-P-A
	20	156974	AEVU-100-20-P-A	157020	AEVU-100-20-A-P-A
	25	156975	AEVU-100-25-P-A	157021	AEVU-100-25-A-P-A

Datasheet – Single-acting, basic version

Ordering data – Pushing variants, AEVU

Piston ø	Stroke	Piston rod with female thread			Piston rod with male thread	
[mm]	[mm]	Part no.	Type		Part no.	Type
Variable stroke						
12	1 … 10	**156220**	**AEVU-12-…-P-A**		**156260**	**AEVU-12-…-A-P-A**
16	1 … 25	**156221**	**AEVU-16-…-P-A**		**156261**	**AEVU-16-…-A-P-A**
20	1 … 25	**156222**	**AEVU-20-…-P-A**		**156262**	**AEVU-20-…-A-P-A**
25	1 … 25	**156223**	**AEVU-25-…-P-A**		**156263**	**AEVU-25-…-A-P-A**
32	1 … 25	**156224**	**AEVU-32-…-P-A**		**156264**	**AEVU-32-…-A-P-A**
40	1 … 25	**156225**	**AEVU-40-…-P-A**		**156265**	**AEVU-40-…-A-P-A**
50	1 … 25	**156226**	**AEVU-50-…-P-A**		**156266**	**AEVU-50-…-A-P-A**
63	1 … 25	**156227**	**AEVU-63-…-P-A**		**156267**	**AEVU-63-…-A-P-A**
80	1 … 25	**156228**	**AEVU-80-…-P-A**		**156268**	**AEVU-80-…-A-P-A**
100	1 … 25	**156229**	**AEVU-100-…-P-A**		**156269**	**AEVU-100-…-A-P-A**
S2 – Through piston rod						
12	1 … 10	**156230**	**AEVU-12-…-P-A-S2**		**156270**	**AEVU-12-…-A-P-A-S2**
16	1 … 25	**156231**	**AEVU-16-…-P-A-S2**		**156271**	**AEVU-16-…-A-P-A-S2**
20	1 … 25	**156232**	**AEVU-20-…-P-A-S2**		**156272**	**AEVU-20-…-A-P-A-S2**
25	1 … 25	**156233**	**AEVU-25-…-P-A-S2**		**156273**	**AEVU-25-…-A-P-A-S2**
32	1 … 25	**156234**	**AEVU-32-…-P-A-S2**		**156274**	**AEVU-32-…-A-P-A-S2**
40	1 … 25	**156235**	**AEVU-40-…-P-A-S2**		**156275**	**AEVU-40-…-A-P-A-S2**
50	1 … 25	**156236**	**AEVU-50-…-P-A-S2**		**156276**	**AEVU-50-…-A-P-A-S2**
63	1 … 25	**156237**	**AEVU-63-…-P-A-S2**		**156277**	**AEVU-63-…-A-P-A-S2**
80	1 … 25	**156238**	**AEVU-80-…-P-A-S2**		**156278**	**AEVU-80-…-A-P-A-S2**
100	1 … 25	**156239**	**AEVU-100-…-P-A-S2**		**156279**	**AEVU-100-…-A-P-A-S2**
S6 – Heat-resistant up to 120 °C						
12	1 … 10	**156250**	**AEVU-12-…-P-A-S6**		**156310**	**AEVU-12-…-A-P-A-S6**
16	1 … 25	**156251**	**AEVU-16-…-P-A-S6**		**156311**	**AEVU-16-…-A-P-A-S6**
20	1 … 25	**156252**	**AEVU-20-…-P-A-S6**		**156312**	**AEVU-20-…-A-P-A-S6**
25	1 … 25	**156253**	**AEVU-25-…-P-A-S6**		**156313**	**AEVU-25-…-A-P-A-S6**
32	1 … 25	**156254**	**AEVU-32-…-P-A-S6**		**156314**	**AEVU-32-…-A-P-A-S6**
40	1 … 25	**156255**	**AEVU-40-…-P-A-S6**		**156315**	**AEVU-40-…-A-P-A-S6**
50	1 … 25	**156256**	**AEVU-50-…-P-A-S6**		**156316**	**AEVU-50-…-A-P-A-S6**
63	1 … 25	**156257**	**AEVU-63-…-P-A-S6**		**156317**	**AEVU-63-…-A-P-A-S6**
80	1 … 25	**156258**	**AEVU-80-…-P-A-S6**		**156318**	**AEVU-80-…-A-P-A-S6**
100	1 … 25	**156259**	**AEVU-100-…-P-A-S6**		**156319**	**AEVU-100-…-A-P-A-S6**

Datasheet – Single-acting, basic version

Ordering data – Pushing variants, AEVU

Piston ø [mm]	Stroke [mm]	Piston rod with female thread		Piston rod with male thread	
		Part no.	Type	Part no.	Type
S20 – Through, hollow piston rod					
12	1 ... 10	–		**156280**	**AEVU-12-...-A-P-A-S20**
16	1 ... 25			**156281**	**AEVU-16-...-A-P-A-S20**
20	1 ... 25			**156282**	**AEVU-20-...-A-P-A-S20**
25	1 ... 25			**156283**	**AEVU-25-...-A-P-A-S20**
32	1 ... 25			**156284**	**AEVU-32-...-A-P-A-S20**
40	1 ... 25			**156285**	**AEVU-40-...-A-P-A-S20**
50	1 ... 25			**156286**	**AEVU-50-...-A-P-A-S20**
63	1 ... 25			**156287**	**AEVU-63-...-A-P-A-S20**
80	1 ... 25			**156288**	**AEVU-80-...-A-P-A-S20**
100	1 ... 25			**156289**	**AEVU-100-...-A-P-A-S20**

Ordering data – Pulling variants, basic version, AEVUZ

Piston ø [mm]	Stroke [mm]	Piston rod with female thread		Piston rod with male thread	
		Part no.	Type	Part no.	Type
12	5	**157206**	**AEVUZ-12-5-P-A**	**157252**	**AEVUZ-12-5-A-P-A**
	10	**157207**	**AEVUZ-12-10-P-A**	**157253**	**AEVUZ-12-10-A-P-A**
16	5	**157211**	**AEVUZ-16-5-P-A**	**157257**	**AEVUZ-16-5-A-P-A**
	10	**157212**	**AEVUZ-16-10-P-A**	**157258**	**AEVUZ-16-10-A-P-A**
	15	**157213**	**AEVUZ-16-15-P-A**	**157259**	**AEVUZ-16-15-A-P-A**
	20	**157214**	**AEVUZ-16-20-P-A**	**157260**	**AEVUZ-16-20-A-P-A**
	25	**157215**	**AEVUZ-16-25-P-A**	**157261**	**AEVUZ-16-25-A-P-A**
20	5	**157216**	**AEVUZ-20-5-P-A**	**157262**	**AEVUZ-20-5-A-P-A**
	10	**157217**	**AEVUZ-20-10-P-A**	**157263**	**AEVUZ-20-10-A-P-A**
	15	**157218**	**AEVUZ-20-15-P-A**	**157264**	**AEVUZ-20-15-A-P-A**
	20	**157219**	**AEVUZ-20-20-P-A**	**157265**	**AEVUZ-20-20-A-P-A**
	25	**157220**	**AEVUZ-20-25-P-A**	**157266**	**AEVUZ-20-25-A-P-A**
25	5	**157221**	**AEVUZ-25-5-P-A**	**157267**	**AEVUZ-25-5-A-P-A**
	10	**157222**	**AEVUZ-25-10-P-A**	**157268**	**AEVUZ-25-10-A-P-A**
	15	**157223**	**AEVUZ-25-15-P-A**	**157269**	**AEVUZ-25-15-A-P-A**
	20	**157224**	**AEVUZ-25-20-P-A**	**157270**	**AEVUZ-25-20-A-P-A**
	25	**157225**	**AEVUZ-25-25-P-A**	**157271**	**AEVUZ-25-25-A-P-A**
32	5	**157226**	**AEVUZ-32-5-P-A**	**157272**	**AEVUZ-32-5-A-P-A**
	10	**157227**	**AEVUZ-32-10-P-A**	**157273**	**AEVUZ-32-10-A-P-A**
	15	**157228**	**AEVUZ-32-15-P-A**	**157274**	**AEVUZ-32-15-A-P-A**
	20	**157229**	**AEVUZ-32-20-P-A**	**157275**	**AEVUZ-32-20-A-P-A**
	25	**157230**	**AEVUZ-32-25-P-A**	**157276**	**AEVUZ-32-25-A-P-A**

Datasheet – Single-acting, basic version

Ordering data – Pulling variants, basic version, AEVUZ

Piston ø [mm]	Stroke [mm]	Piston rod with female thread		Piston rod with male thread	
		Part no.	Type	Part no.	Type
40	5	157231	AEVUZ-40-5-P-A	157277	AEVUZ-40-5-A-P-A
	10	157232	AEVUZ-40-10-P-A	157278	AEVUZ-40-10-A-P-A
	15	157233	AEVUZ-40-15-P-A	157279	AEVUZ-40-15-A-P-A
	20	157234	AEVUZ-40-20-P-A	157280	AEVUZ-40-20-A-P-A
	25	157235	AEVUZ-40-25-P-A	157281	AEVUZ-40-25-A-P-A
50	10	157236	AEVUZ-50-10-P-A	157282	AEVUZ-50-10-A-P-A
	15	157237	AEVUZ-50-15-P-A	157283	AEVUZ-50-15-A-P-A
	20	157238	AEVUZ-50-20-P-A	157284	AEVUZ-50-20-A-P-A
	25	157239	AEVUZ-50-25-P-A	157285	AEVUZ-50-25-A-P-A
63	10	157240	AEVUZ-63-10-P-A	157286	AEVUZ-63-10-A-P-A
	15	157241	AEVUZ-63-15-P-A	157287	AEVUZ-63-15-A-P-A
	20	157242	AEVUZ-63-20-P-A	157288	AEVUZ-63-20-A-P-A
	25	157243	AEVUZ-63-25-P-A	157289	AEVUZ-63-25-A-P-A
80	10	157244	AEVUZ-80-10-P-A	157290	AEVUZ-80-10-A-P-A
	15	157245	AEVUZ-80-15-P-A	157291	AEVUZ-80-15-A-P-A
	20	157246	AEVUZ-80-20-P-A	157292	AEVUZ-80-20-A-P-A
	25	157247	AEVUZ-80-25-P-A	157293	AEVUZ-80-25-A-P-A
100	10	157248	AEVUZ-100-10-P-A	157294	AEVUZ-100-10-A-P-A
	15	157249	AEVUZ-100-15-P-A	157295	AEVUZ-100-15-A-P-A
	20	157250	AEVUZ-100-20-P-A	157296	AEVUZ-100-20-A-P-A
	25	157251	AEVUZ-100-25-P-A	157297	AEVUZ-100-25-A-P-A

Ordering data – Pulling variants, AEVUZ

Piston ø [mm]	Stroke [mm]	Piston rod with female thread		Piston rod with male thread	
		Part no.	Type	Part no.	Type
Variable stroke					
12	1 ... 10	156460	AEVUZ-12-...-P-A	156480	AEVUZ-12-...-A-P-A
16	1 ... 25	156461	AEVUZ-16-...-P-A	156481	AEVUZ-16-...-A-P-A
20	1 ... 25	156462	AEVUZ-20-...-P-A	156482	AEVUZ-20-...-A-P-A
25	1 ... 25	156463	AEVUZ-25-...-P-A	156483	AEVUZ-25-...-A-P-A
32	1 ... 25	156464	AEVUZ-32-...-P-A	156484	AEVUZ-32-...-A-P-A
40	1 ... 25	156465	AEVUZ-40-...-P-A	156485	AEVUZ-40-...-A-P-A
50	1 ... 25	156466	AEVUZ-50-...-P-A	156486	AEVUZ-50-...-A-P-A
63	1 ... 25	156467	AEVUZ-63-...-P-A	156487	AEVUZ-63-...-A-P-A
80	1 ... 25	156468	AEVUZ-80-...-P-A	156488	AEVUZ-80-...-A-P-A
100	1 ... 25	156469	AEVUZ-100-...-P-A	156489	AEVUZ-100-...-A-P-A
S6 – Heat-resistant up to 120 °C					
12	1 ... 10	156470	AEVUZ-12-...-P-A-S6	156490	AEVUZ-12-...-A-P-A-S6
16	1 ... 25	156471	AEVUZ-16-...-P-A-S6	156491	AEVUZ-16-...-A-P-A-S6
20	1 ... 25	156472	AEVUZ-20-...-P-A-S6	156492	AEVUZ-20-...-A-P-A-S6
25	1 ... 25	156473	AEVUZ-25-...-P-A-S6	156493	AEVUZ-25-...-A-P-A-S6
32	1 ... 25	156474	AEVUZ-32-...-P-A-S6	156494	AEVUZ-32-...-A-P-A-S6
40	1 ... 25	156475	AEVUZ-40-...-P-A-S6	156495	AEVUZ-40-...-A-P-A-S6
50	1 ... 25	156476	AEVUZ-50-...-P-A-S6	156496	AEVUZ-50-...-A-P-A-S6
63	1 ... 25	156477	AEVUZ-63-...-P-A-S6	156497	AEVUZ-63-...-A-P-A-S6
80	1 ... 25	156478	AEVUZ-80-...-P-A-S6	156498	AEVUZ-80-...-A-P-A-S6
100	1 ... 25	156479	AEVUZ-100-...-P-A-S6	156499	AEVUZ-100-...-A-P-A-S6

Datasheet – Single-acting, basic version

Ordering data – Sets of wearing parts

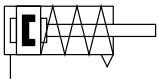
	Part no.	Type		Part no.	Type
Piston ⌀	**Basic version**			**S6 – Heat-resistant up to 120 °C**	
32	**121119**	**AEVU-32-...-(A)-P-A**[1]		**383563**	**AEVU-32-...-(A)-P-A-S6**[1]
40	**121120**	**AEVU-40-...-(A)-P-A**[1]		**383564**	**AEVU-40-...-(A)-P-A-S6**[1]
50	**121121**	**AEVU-50-...-(A)-P-A**[1]		**383565**	**AEVU-50-...-(A)-P-A-S6**[1]
63	**121122**	**AEVU-63-...-(A)-P-A**[1]		**383566**	**AEVU-63-...-(A)-P-A-S6**[1]
80	**121123**	**AEVU-80-...-(A)-P-A**[1]		**383567**	**AEVU-80-...-(A)-P-A-S6**[1]
100	**121124**	**AEVU-100-...-(A)-P-A**[1]		**383568**	**AEVU-100-...-(A)-P-A-S6**[1]

1) Assembly grease included in the scope of delivery

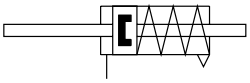
2) Assembly grease not included in scope of delivery. If required, please order separately using part no. 329 555 (20 ml)

Datasheet – Single-acting, protected against rotation with square piston rod

Function



Variants



S2

- Ø - Diameter
  16 ... 100 mm
- | - Stroke length
  1 ... 25 mm

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AEVULQ-...-...-P-A



AEVULQ-...-...-P-A-S2

General technical data										
Piston ø		16	20	25	32	40	50	63	80	100
Pneumatic connection		M5	M5	M5	G1/8	G1/8	G1/8	G1/8	G1/8	G1/4
Piston rod end	Female thread	M4	M5	M5	M6	M6	M8	M8	M10	M12
	Male thread	M8	M10x1.25				M12x1.25		M16x1.5	M20x1.5
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]								
Note on the operating/ pilot medium		Lubricated operation possible (required for further operation)								
Design		Piston								
		Piston rod								
Cushioning		Elastic cushioning rings/plates at both ends								
Position sensing		Via proximity switch								
Type of mounting		With through-hole								
		With female thread								
		Via accessories								
Mounting position		Any								

Note

This product conforms to ISO 1179-1 and ISO 228-1

Operating pressure										
Piston ø		16	20	25	32	40	50	63	80	100
Piston rod at one end	[MPa]	0.15 ... 1	0.1 ... 1							
	[bar]	1.5 ... 10	1 ... 10							
	[psi]	21.8 ... 145	14.5 ... 145							
Through piston rod S2	[MPa]	0.15 ... 1			0.12 ... 1			0.1 ... 1		
	[bar]	1.5 ... 10			1.2 ... 10			1 ... 10		
	[psi]	21.8 ... 145			17.4 ... 145			14.5 ... 145		

Environmental conditions		
Compact cylinder		Basic version
Ambient temperature[1]	[°C]	–20 ... +80
Corrosion resistance class CRC[2]		2

1) Note operating range of proximity switches

2) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with the normal surrounding industrial environment.

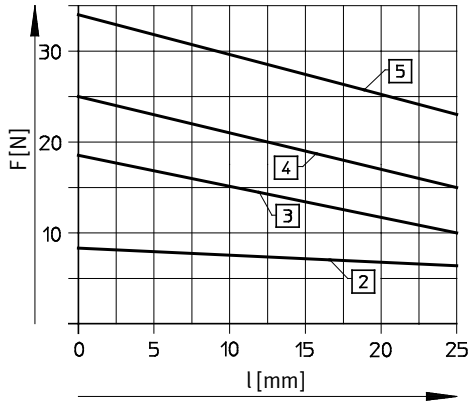
Datasheet – Single-acting, protected against rotation with square piston rod

Forces [N]										
Piston ø		16	20	25	32	40	50	63	80	100
Theoretical force at 0.6 MPa (6 bar, 87 psi), advancing		111	171	269	450	704	1121	1799	2902	4516
	S2	81	123	221	382	636	999	1679	2733	4222

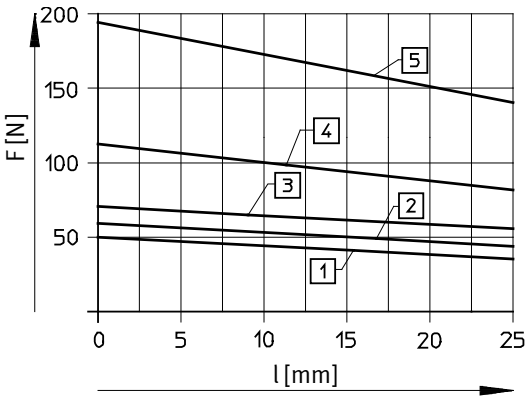
Technical data – Square piston rod										
Piston ø		16	20	25	32	40	50	63	80	100
Max. torque at the piston rod[1)]	[Nm]	0.20	0.45	0.45	0.80	0.80	1.10	1.10	1.50	3.00
Max. torsional backlash of piston rod	[°]	±0.9	±0.8	±0.8	±0.6	±0.6	±0.5	±0.5	±0.4	±0.4
Piston rod distortion	[°/50 mm]	0.30	0.25	0.25	0.20	0.20	0.15	0.15	0.15	0.09

1) The max. torque must not be exceeded even when attaching mounting components to the piston rod

Spring return force F as a function of stroke l



[2] ø 16
[3] ø 20
[4] ø 25
[5] ø 32



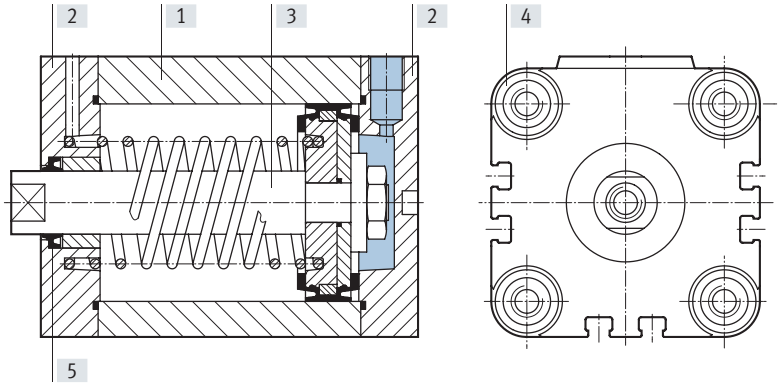
[1] ø 40
[2] ø 50
[3] ø 63
[4] ø 80
[5] ø 100

Weight [g]									
Piston ø	16	20	25	32	40	50	63	80	100
Product weight with 0 mm stroke	89	149	180	300	433	560	1059	1772	2797
Additional weight per 10 mm stroke	15	23	28	40	59	72	107	168	177
Moving mass with 0 mm stroke	12	20	26	49	63	112	134	307	614
Additional mass per 10 mm stroke	4	6	6	9	9	16	16	25	38

Datasheet – Single-acting, protected against rotation with square piston rod

Materials

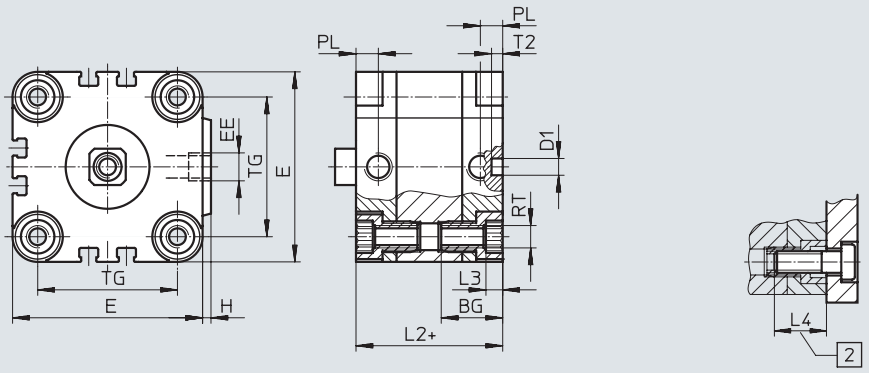
Sectional view



Compact cylinder			Basic version
[1]	Cylinder barrel		Wrought aluminium alloy
[2]	Cover		Wrought aluminium alloy
[3]	Piston rod	ø 16 ... 32	High-alloy stainless steel
		ø 40 ... 100	High-alloy steel
[4]	Flange screws	ø 16	High-alloy stainless steel
		ø 20 ... 100	Galvanised steel
[5]	Dynamic seals		Polyurethane

Dimensions – Basic cylinder

Download CAD data ➔ www.festo.com



Note

To mount from above with piston diameter 16 mm, only use 2 diagonal screws or use non-magnetic screws.

+ = plus stroke length
[2] Minimum screw-in depth

ø [mm]	BG	D1 ø H9	E	EE	H	L2	L3	L4	PL	RT	T2 –0.2	TG
16	18.5	6	29	M5	1	38	3	16	8	M4	4	18
20	18.5	6	36	M5	1.5	38	4	18	8	M5	4	22
25	18.5	6	40	M5	1.5	39.5	4	18	8	M5	4	26
32	21.5	6	50	G1/8	2	44.5	5	20	8	M6	4	32
40	21.5	6	60	G1/8	2.5	45.5	5	20	8	M6	4	42
50	22	6	68	G1/8	3	45.5	6	20	8	M8	4	50
63	24.5	8	87	G1/8	4	50	8	25	8	M10	4	62
80	27.5	8	107	G1/8	4	56	8	25	8.5	M10	4	82
100	32.5	8	128	G1/4	5	66.5	8	25	10.5	M10	4	103

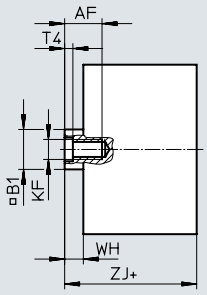
Note

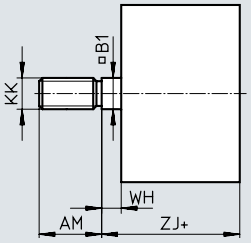
This product conforms to ISO 1179-1 and ISO 228-1

Datasheet – Single-acting, protected against rotation with square piston rod

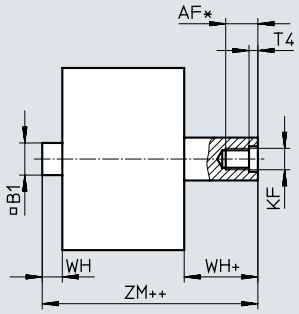
Dimensions Download CAD data ➔ www.festo.com

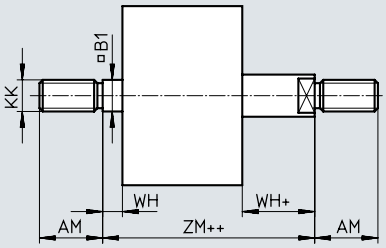
Basic version





S2 – Through piston rod





ø [mm]	AF	AM	B1 □	D8	D9 ø	KF	KK	T4	WH	ZJ	ZM
16	10	20	7	–	3.2	M4	M8	1.5	4.5	42.5	47
20[2]	12	22	9	–	3.8	M5	M10x1.25	2	4.5	42.5	47
25[2]	12	22	9	–	3.8	M5	M10x1.25	2	5.5	45	50.5
32[2]	14	22	10	–	4.5	M6	M10x1.25	2.6	6	50.5	56.5
40[2]	14	22	10	–	4.5	M6	M10x1.25	2.6	6.5	52	58.5
50[2]	16	24	12	–	6	M8	M12x1.25	3.3	7.5	53	60.5
63[2]	16	24	12	–	6	M8	M12x1.25	3.3	7.5	57.5	65
80[2]	20[1]	32	16	G1/8	8	M10	M16x1.5	4.7	8	64	72
100[2]	24[1]	40	20	G1/4	11.7	M12	M20x1.5	6.1	10	76.5	86.5

1) With a stroke < 5 mm, the maximum screw-in depth is reduced by 5 mm

2) Nut for piston rod thread included in the scope of delivery

Datasheet – Single-acting, protected against rotation with square piston rod

Ordering data – Basic version AEVULQ

Piston ø	Stroke	Piston rod with female thread		Piston rod with male thread	
[mm]	[mm]	Part no.	Type	Part no.	Type
16	5	157027	AEVULQ-16-5-P-A	157073	AEVULQ-16-5-A-P-A
	10	157028	AEVULQ-16-10-P-A	157074	AEVULQ-16-10-A-P-A
	15	157029	AEVULQ-16-15-P-A	157075	AEVULQ-16-15-A-P-A
	20	157030	AEVULQ-16-20-P-A	157076	AEVULQ-16-20-A-P-A
	25	157031	AEVULQ-16-25-P-A	157077	AEVULQ-16-25-A-P-A
20	5	157032	AEVULQ-20-5-P-A	157078	AEVULQ-20-5-A-P-A
	10	157033	AEVULQ-20-10-P-A	157079	AEVULQ-20-10-A-P-A
	15	157034	AEVULQ-20-15-P-A	157080	AEVULQ-20-15-A-P-A
	20	157035	AEVULQ-20-20-P-A	157081	AEVULQ-20-20-A-P-A
	25	157036	AEVULQ-20-25-P-A	157082	AEVULQ-20-25-A-P-A
25	5	157037	AEVULQ-25-5-P-A	157083	AEVULQ-25-5-A-P-A
	10	157038	AEVULQ-25-10-P-A	157084	AEVULQ-25-10-A-P-A
	15	157039	AEVULQ-25-15-P-A	157085	AEVULQ-25-15-A-P-A
	20	157040	AEVULQ-25-20-P-A	157086	AEVULQ-25-20-A-P-A
	25	157041	AEVULQ-25-25-P-A	157087	AEVULQ-25-25-A-P-A
32	5	157042	AEVULQ-32-5-P-A	157088	AEVULQ-32-5-A-P-A
	10	157043	AEVULQ-32-10-P-A	157089	AEVULQ-32-10-A-P-A
	15	157044	AEVULQ-32-15-P-A	157090	AEVULQ-32-15-A-P-A
	20	157045	AEVULQ-32-20-P-A	157091	AEVULQ-32-20-A-P-A
	25	157046	AEVULQ-32-25-P-A	157092	AEVULQ-32-25-A-P-A
40	5	157047	AEVULQ-40-5-P-A	157093	AEVULQ-40-5-A-P-A
	10	157048	AEVULQ-40-10-P-A	157094	AEVULQ-40-10-A-P-A
	15	157049	AEVULQ-40-15-P-A	157095	AEVULQ-40-15-A-P-A
	20	157050	AEVULQ-40-20-P-A	157096	AEVULQ-40-20-A-P-A
	25	157051	AEVULQ-40-25-P-A	157097	AEVULQ-40-25-A-P-A
50	10	157052	AEVULQ-50-10-P-A	157098	AEVULQ-50-10-A-P-A
	15	157053	AEVULQ-50-15-P-A	157099	AEVULQ-50-15-A-P-A
	20	157054	AEVULQ-50-20-P-A	157100	AEVULQ-50-20-A-P-A
	25	157055	AEVULQ-50-25-P-A	157101	AEVULQ-50-25-A-P-A
63	10	157056	AEVULQ-63-10-P-A	157102	AEVULQ-63-10-A-P-A
	15	157057	AEVULQ-63-15-P-A	157103	AEVULQ-63-15-A-P-A
	20	157058	AEVULQ-63-20-P-A	157104	AEVULQ-63-20-A-P-A
	25	157059	AEVULQ-63-25-P-A	157105	AEVULQ-63-25-A-P-A
80	10	157060	AEVULQ-80-10-P-A	157106	AEVULQ-80-10-A-P-A
	15	157061	AEVULQ-80-15-P-A	157107	AEVULQ-80-15-A-P-A
	20	157062	AEVULQ-80-20-P-A	157108	AEVULQ-80-20-A-P-A
	25	157063	AEVULQ-80-25-P-A	157109	AEVULQ-80-25-A-P-A
100	10	157064	AEVULQ-100-10-P-A	157110	AEVULQ-100-10-A-P-A
	15	157065	AEVULQ-100-15-P-A	157111	AEVULQ-100-15-A-P-A
	20	157066	AEVULQ-100-20-P-A	157112	AEVULQ-100-20-A-P-A
	25	157067	AEVULQ-100-25-P-A	157113	AEVULQ-100-25-A-P-A

Datasheet – Single-acting, protected against rotation with square piston rod

Ordering data – Variants AEVULQ

Piston ø [mm]	Stroke [mm]	Piston rod with female thread			Piston rod with male thread	
		Part no.	Type		Part no.	Type
Variable stroke						
16	1 … 25	**156321**	**AEVULQ-16-…-P-A**		**156361**	**AEVULQ-16-…-A-P-A**
20	1 … 25	**156322**	**AEVULQ-20-…-P-A**		**156362**	**AEVULQ-20-…-A-P-A**
25	1 … 25	**156323**	**AEVULQ-25-…-P-A**		**156363**	**AEVULQ-25-…-A-P-A**
32	1 … 25	**156324**	**AEVULQ-32-…-P-A**		**156364**	**AEVULQ-32-…-A-P-A**
40	1 … 25	**156325**	**AEVULQ-40-…-P-A**		**156365**	**AEVULQ-40-…-A-P-A**
50	1 … 25	**156326**	**AEVULQ-50-…-P-A**		**156366**	**AEVULQ-50-…-A-P-A**
63	1 … 25	**156327**	**AEVULQ-63-…-P-A**		**156367**	**AEVULQ-63-…-A-P-A**
80	1 … 25	**156328**	**AEVULQ-80-…-P-A**		**156368**	**AEVULQ-80-…-A-P-A**
100	1 … 25	**156329**	**AEVULQ-100-…-P-A**		**156369**	**AEVULQ-100-…-A-P-A**
S2 – Through piston rod						
16	1 … 25	**156331**	**AEVULQ-16-…-P-A-S2**		**156371**	**AEVULQ-16-…-A-P-A-S2**
20	1 … 25	**156332**	**AEVULQ-20-…-P-A-S2**		**156372**	**AEVULQ-20-…-A-P-A-S2**
25	1 … 25	**156333**	**AEVULQ-25-…-P-A-S2**		**156373**	**AEVULQ-25-…-A-P-A-S2**
32	1 … 25	**156334**	**AEVULQ-32-…-P-A-S2**		**156374**	**AEVULQ-32-…-A-P-A-S2**
40	1 … 25	**156335**	**AEVULQ-40-…-P-A-S2**		**156375**	**AEVULQ-40-…-A-P-A-S2**
50	1 … 25	**156336**	**AEVULQ-50-…-P-A-S2**		**156376**	**AEVULQ-50-…-A-P-A-S2**
63	1 … 25	**156337**	**AEVULQ-63-…-P-A-S2**		**156377**	**AEVULQ-63-…-A-P-A-S2**
80	1 … 25	**156338**	**AEVULQ-80-…-P-A-S2**		**156378**	**AEVULQ-80-…-A-P-A-S2**
100	1 … 25	**156339**	**AEVULQ-100-…-P-A-S2**		**156379**	**AEVULQ-100-…-A-P-A-S2**

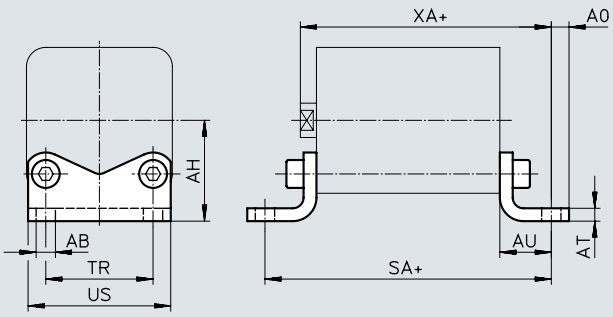
Accessories

Foot mounting HUA
For piston ⌀ 12 ... 100 mm

Foot mounting HNC
For piston ⌀ 125 mm
(not illustrated)

Material:
HUA/HNC: Galvanised steel
HUA-...-R3: Steel, silver protective coating
CRHNC: High-alloy stainless steel





\+ = plus stroke length

Dimensions and ordering data

For ⌀	AB ⌀	AH	AO	AT	AU	SA	TR	US	XA
12/16	5.5	22	4.75	3	13	64	18	27	55.5
20	6.6	27	6.25	4	16	70	22	34	58.5
25	6.6	29	6.25	4	16	71.5	26	38	61
32	6.6	34	8.25	5	18	80.5	32	48	68.5
40	9	40.5	8.25	5	20	85.5	42	58	72
50	9	47	8.25	6	24	93.5	50	66	77
63	11	56.5	11.75	6	27	104	62	85	84.5
80	11	68.5	11.75	8	30	116	82	105	94
100	13.5	81	11.75	8	33	132.5	103	126	109.5
125	16.5	90	22	8	45	171	90	131	144

For ⌀	Weight	Basic version			Weight	R3 – High corrosion protection		
	[g]	CRC[1]	Part no.	Type	[g]	CRC[1]	Part no.	Type
12/16	45	1	**157309**	**HUA-12/16**	45	3	**176873**	**HUA-12/16-R3**
20	88	1	**157310**	**HUA-20**	70	3	**176874**	**HUA-20-R3**
25	94	1	**157311**	**HUA-25**	76	3	**176875**	**HUA-25-R3**
32	171	1	**157312**	**HUA-32**	175	3	**176876**	**HUA-32-R3**
40	220	1	**157313**	**HUA-40**	224	3	**176877**	**HUA-40-R3**
50	344	1	**157314**	**HUA-50**	352	3	**176878**	**HUA-50-R3**
63	581	1	**157315**	**HUA-63**	593	3	**176879**	**HUA-63-R3**
80	878	1	**157316**	**HUA-80**	902	3	**176880**	**HUA-80-R3**
100	1117	1	**157317**	**HUA-100**	1128	3	**176881**	**HUA-100-R3**
		Basic version				**Corrosion resistant**		
125	1840	2	**174375**	**HNC-125**	1840	4	**176943**	**CRHNC-125**

1) Corrosion resistance class CRC 1 to Festo standard FN 940070
Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive trunnions).
Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with the normal surrounding industrial environment.
Corrosion resistance class CRC 3 to Festo standard FN 940070
High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional surface requirements that are in direct contact with the normal surrounding industrial environment.
Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, e.g. in the chemical or food industries. Such applications may need to be safeguarded with special tests (→ also FN 940082) using appropriate media.

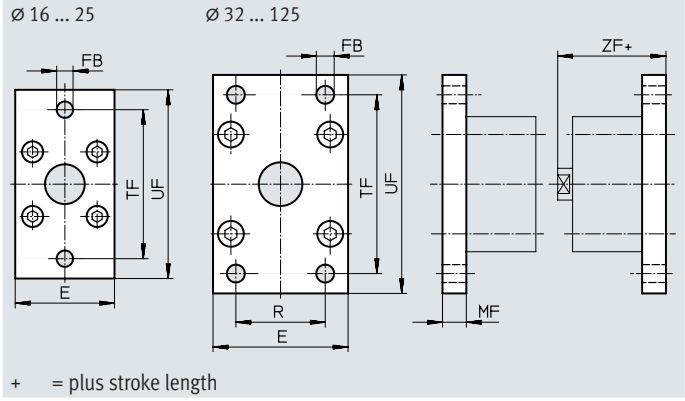
Accessories

Flange mounting FUA
For piston ⌀ 12 ... 100 mm

Flange mounting FNC
For piston ⌀ 125 mm
(not illustrated)

Material:
FUA: Wrought aluminium alloy
FNC: Galvanised steel
RoHS-compliant





Dimensions and ordering data

For ⌀	E	FB ⌀	MF	R	TF	UF
12/16	29	5.5	10	–	43	55
20	36	6.6	10	–	55	70
25	40	6.6	10	–	60	76
32	50	7	10	32	65	80
40	60	9	10	36	82	102
50	68	9	12	45	90	110
63	87	9	15	50	110	130
80	107	12	15	63	135	160
100	128	14	15	75	163	190
125	132	16	20	90	180	210

For ⌀	ZF	CRC[1)]	Weight [g]	Part no.	Type
12/16	52.5	2	48	**157299**	**FUA-12/16**
20	52.5	2	77	**157300**	**FUA-20**
25	55	2	91	**157301**	**FUA-25**
32	60.5	2	290	**157302**	**FUA-32**
40	62	2	449	**157303**	**FUA-40**
50	65	2	658	**157304**	**FUA-50**
63	72.5	2	1277	**157305**	**FUA-63**
80	76	2	1910	**157306**	**FUA-80**
100	91.5	2	2716	**157307**	**FUA-100**
125	119	1	3775	**174382**	**FNC-125**

1) Corrosion resistance class CRC 1 to Festo standard FN 940070
Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive trunnions).
Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with the normal surrounding industrial environment.

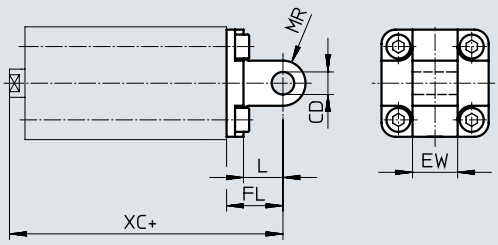
Accessories

Swivel flange SUA
For piston ⌀ 12 ... 25 mm

Material:
SUA: Anodised aluminium
SUA- ... -R3: Aluminium, silver protective coating



⌀ 12 ... 25 mm



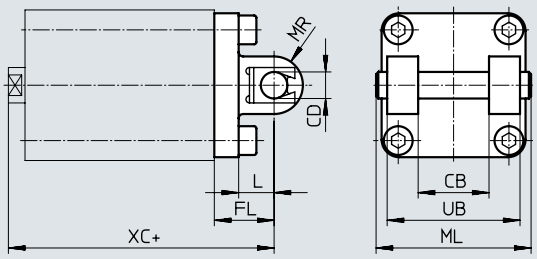
\+ = plus stroke length

For piston ⌀ 32 ... 100 mm

Material:
SUA: Anodised aluminium
SUA- ... -R3: Aluminium, silver protective coating



⌀ 32 ... 100 mm



\+ = plus stroke length

Dimensions and ordering data

For ⌀	CB	CD ⌀	EW	FL	L	ML	MR	UB	XC
12/16	–	6	12	16	10	–	6	–	58.5
20	–	8	16	20	14	–	8	–	62.5
25	–	8	16	20	14	–	8	–	65
32	26	10	–	22	13	54	10	45	72.5
40	28	12	–	25	16	62	12	52	77
50	32	12	–	27	16	70	12	60	80
63	40	16	–	32	21	82	16	70	89.5
80	50	16	–	36	23	102	16	90	100
100	60	20	–	41	26	126	20	110	117.5

For ⌀	Weight [g]	Basic version		Weight [g]	R3 – High corrosion protection	
		Part no.	Type		Part no.	Type
12/16	22	**157319**	**SUA-12/16**	22	**176883**	**SUA-12/16-R3**
20	41	**157320**	**SUA-20**	41	**176884**	**SUA-20-R3**
25	45	**157321**	**SUA-25**	45	**176885**	**SUA-25-R3**
32	137	**157322**	**SUA-32**	135	**176886**	**SUA-32-R3**
40	199	**157323**	**SUA-40**	194	**176887**	**SUA-40-R3**
50	287	**157324**	**SUA-50**	283	**176888**	**SUA-50-R3**
63	530	**157325**	**SUA-63**	527	**176889**	**SUA-63-R3**
80	763	**157326**	**SUA-80**	770	**176890**	**SUA-80-R3**
100	1283	**157327**	**SUA-100**	1234	**176891**	**SUA-100-R3**

Note

The maximum stroke length must not be exceeded when combining cylinders and swivel flanges.

For ⌀	Max. stroke length [mm]
12	50
16	50
20	50
25	50
32	100

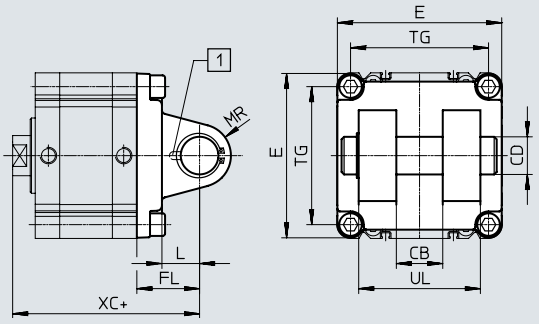
For ⌀	Max. stroke length [mm]
40	100
50	100
63	100
80	150
100	150

Accessories

Swivel flange SNC-125
For piston ⌀ 125 mm

Material:
Die-cast aluminium
RoHS-compliant





\+ = plus stroke length
[1] The pivot pin is secured against rotation with a spring pin.

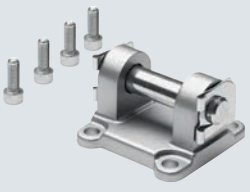
Ordering data

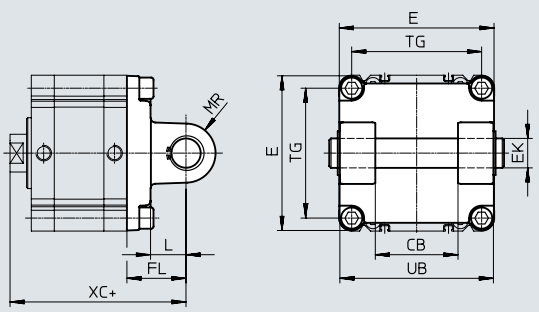
For ⌀	CB	CD ⌀	E	FL	L	MR	TG	UL	XC	CRC[1]	Weight	Basic version	
												Part no.	Type
	H14	H9	–0.8	±0.2				h14			[g]		
125	37	30	131	50	30	25	110	97	149	1	1740	**174389**	**SNC-125**

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

Swivel flange SNCB-125
For piston ⌀ 125 mm

Material:
SNCB-125: Die-cast aluminium
SNCB-125-R3: Die-cast aluminium with protective coating
RoHS-compliant





\+ = plus stroke length

Ordering data

For ⌀	CB	E	EK ⌀	FL	L	MR	TG	UB	XC
[mm]	H14	–0.8	H9/e8	±0.2		–0.5		h14	
125	70	131	25	50	30	25	110	130	149

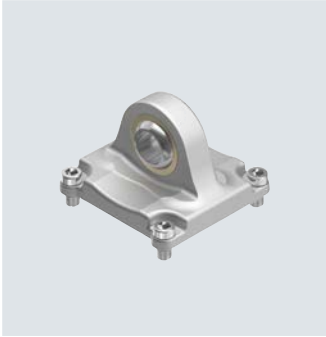
For ⌀	Basic version				R3 – High corrosion protection			
	CRC[1]	Weight	Part no.	Type	CRC[1]	Weight	Part no.	Type
[mm]		[g]				[g]		
125	1	1860	**174396**	**SNCB-125**	3	1776	**176950**	**SNCB-125-R3**

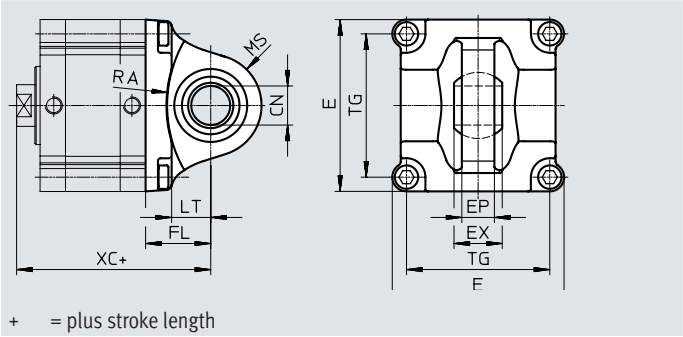
1) Corrosion resistance class CRC 1 to Festo standard FN 940070
Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive trunnions).
Corrosion resistance class CRC 3 to Festo standard FN 940070
High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional surface requirements that are in direct contact with the normal surrounding industrial environment.

Accessories

Swivel flange SNCS-125
For piston ⌀ 125 mm

Material:
SNCS-125: Wrought aluminium alloy
SNCS-125-R3: Wrought aluminium alloy with protective coating
RoHS-compliant





\+ = plus stroke length

Dimensions and ordering data

For ⌀	CN ⌀		E		EP	EX	FL
	ADVU-...	ADVU-...-R3	ADVU-...	ADVU-...-R3	±0.2		±0.2
125	30+0.018	30+0.021/–0.04	132+1/–0.7	132+1/–0.7	25	37	50

For ⌀	LT	MS		RA		TG	XC
		ADVU-...	ADVU-...-R3	ADVU-... +1	ADVU-...-R3 +1		
125	30	39±0.5	39±0.5	100	100	110	149

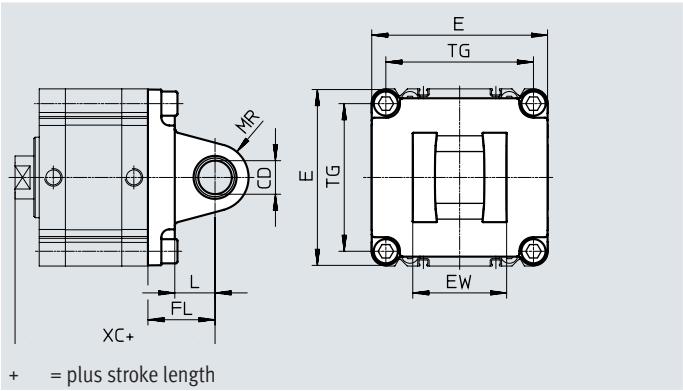
Basic version					R3 – High corrosion protection			
For ⌀	CRC[1]	Weight [g]	Part no.	Type	CRC[1]	Weight [g]	Part no.	Type
125	2	1369	**174403**	**SNCS-125**	3	1369	**2895926**	**SNCS-125-R3**

1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with the normal surrounding industrial environment.
Corrosion resistance class CRC 3 to Festo standard FN 940070
High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional surface requirements that are in direct contact with the normal surrounding industrial environment.

Swivel flange SNCL-125
For piston ⌀ 125 mm

Material:
Die-cast aluminium
RoHS-compliant





\+ = plus stroke length

Ordering data

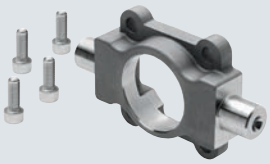
For ⌀	CD ⌀ H9	E –0.8	EW –0.2/–0.6	FL ±0.2	L	MR	TG	XC	CRC[1]	Weight [g]	Basic version Part no.	Basic version Type
125	25	131	70	50	30	25	110	149	1	1135	**174410**	**SNCL-125**

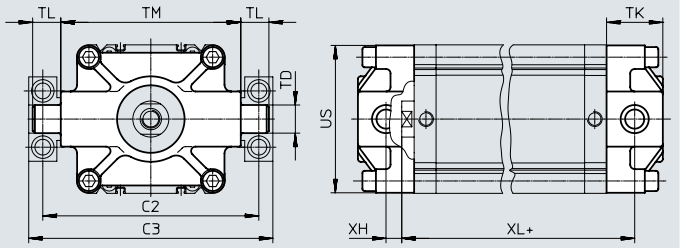
1) Corrosion resistance class CRC 1 to Festo standard FN 940070
Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive trunnions).

Accessories

Trunnion flange ZNCF-125
For piston ⌀ 125 mm

Material:
High-alloy stainless steel
RoHS-compliant





\+ = plus stroke length

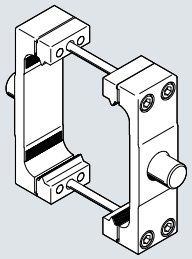
Ordering data

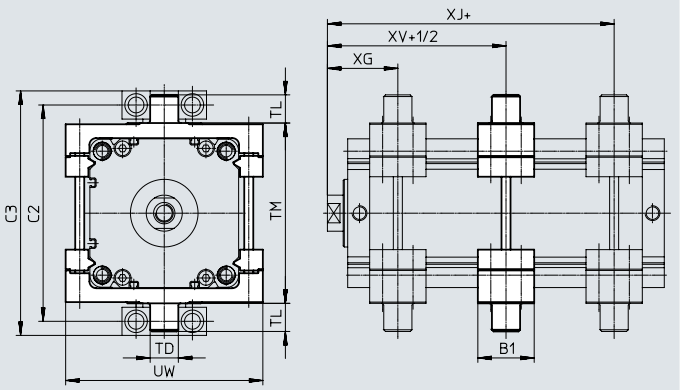
For ⌀	C2)	C3)	TD ⌀ e9	TK max.	TL +0.5/–0.7	TM h14	US	XH	XL	Weight [g]	Basic version Part no.	Type
125	192	217	25	50	24.5	160	131	14	124	3484	**174417**	**ZNCF-125**

Trunnion mounting kit
DAMT-V7-125-A
For piston ⌀ 125 mm

Material:
Galvanised steel
RoHS-compliant

Note
The trunnion mounting kit can be attached to the cylinder profile barrel at any position.





\+ = plus stroke length
\+ 1/2 = plus half stroke length

Ordering data

For ⌀	C1)	C2)	B1	TD ⌀ e9	TL	TM	UW	XG	XV	XJ	CRC[1)]	Weight [g]	Basic version Part no.	Type
125	217	192	50	25	25	160	175	62.5	58.5	54.5	1	3013	**163531**	**DAMT-V7-125-A**

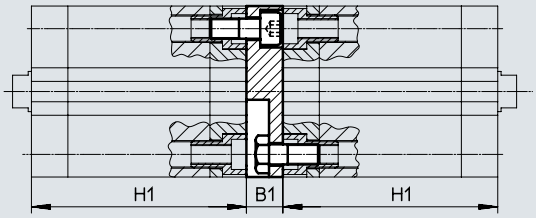
1) Corrosion resistance class CRC 1 to Festo standard FN 940070
Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive trunnions).

Accessories

Multi-position kit DPVU
For piston ⌀ 12 ... 100 mm

Material:
Wrought aluminium alloy
RoHS-compliant



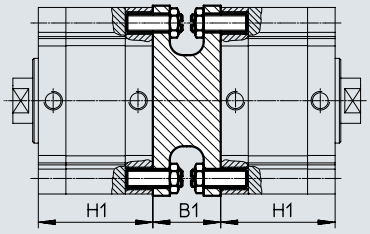


\+ = plus stroke length

Multi-position kit DPNC
For piston ⌀ 125 mm

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





\+ = plus stroke length

Dimensions and ordering data

For ⌀	B1	H	Max. overall stroke length [mm]	CRC[1]	Weight [g]	Part no.	Type
12/16	12.5	38	400	2	35	**161194**	**DPVU-12/16**
20	12.5	38			54	**161195**	**DPVU-20**
25	13	39.5			65	**161196**	**DPVU-25**
32	14.5	44.5	600		111	**161197**	**DPVU-32**
40	14.5	45.5			155	**161198**	**DPVU-40**
50	14.5	45.5			212	**161199**	**DPVU-50**
63	14.5	50			372	**161200**	**DPVU-63**
80	16.5	56	800		580	**161201**	**DPVU-80**
100	19.5	66.5			935	**161202**	**DPVU-100**
125	48	81	1000		2102	**174424**	**DPNC-125**

1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with the normal surrounding industrial environment.

Note
The maximum total stroke length must not be exceeded when combining cylinders and multi-position kits.

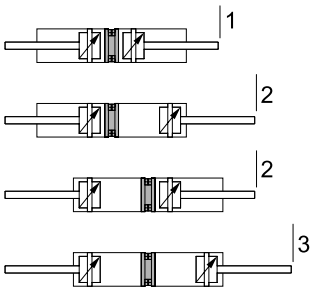
Connecting two cylinders with identical piston diameters to form a 3- or 4-position cylinder

A 3- or 4-position cylinder consists of two separate cylinders whose piston rods advance in opposite directions. This means that depending on actuation and stroke configuration, 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 connections to the cylinder must therefore be flexible.

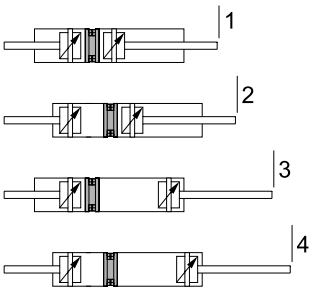
To achieve 3 positions

Two cylinders with the same stroke length must be connected to each other.



To achieve 4 positions

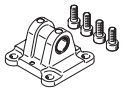
Two cylinders with different stroke lengths must be connected to each other.

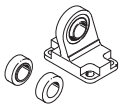
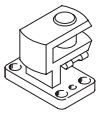


Accessories

Ordering data – Mounting components

Datasheets → Internet: clevis foot

Designation	For Ø	Part no.	Type
Clevis foot LBN			
	12	**6058**	**LBN-12/16**
	16	**6058**	**LBN-12/16**
	20	**6059**	**LBN-20/25**
	25	**6059**	**LBN-20/25**
Clevis foot LN			
	32	**5147**	**LN-32**
	40	**5148**	**LN-40**
	50	**5149**	**LN-50**
	63	**5150**	**LN-63**
	80	**5151**	**LN-80**
	100	**5152**	**LN-100**
	125	**9036**	**LN-125**
Clevis foot LBG			
	20, 25, 32, 40	**31761**	**LBG-32**
	50, 63	**31762**	**LBG-40**
	80	**31763**	**LBG-50**
		31764	**LBG-63**
	100	**31765**	**LBG-80**
		31766	**LBG-100**
	125	**31767**	**LBG-125**
Swivel flange SNCL			
	32	**174404**	**SNCL-32**
	40	**174405**	**SNCL-40**
	50	**174406**	**SNCL-50**
	63	**174407**	**SNCL-63**
	80	**174408**	**SNCL-80**
	100	**174409**	**SNCL-100**
	125	**174410**	**SNCL-125**

Designation	For Ø	Part no.	Type
Clevis foot LNG			
	32	**33890**	**LNG-32**
	40	**33891**	**LNG-40**
	50	**33892**	**LNG-50**
	63	**33893**	**LNG-63**
	80	**33894**	**LNG-80**
	100	**33895**	**LNG-100**
Clevis foot LSN			
	32	**5561**	**LSN-32**
	40	**5562**	**LSN-40**
	50	**5563**	**LSN-50**
	63	**5564**	**LSN-63**
	80	**5565**	**LSN-80**
	100	**5566**	**LSN-100**
	125	**6987**	**LSN-125**
Right-angle clevis foot LQG			
	20, 25, 32, 40	**31768**	**LQG-32**
	50, 63	**31769**	**LQG-40**
	80	**31770**	**LQG-50**
		31771	**LQG-63**
	100	**31772**	**LQG-80**
		31773	**LQG-100**
	125	**31774**	**LQG-125**
Clevis foot LSNSG			
	125	**31753**	**LSNSG-125**
Trunnion support LNZG			
	125	**32962**	**LNZG-100/125**

Accessories

Ordering data – Mounting components, corrosion and acid resistant

Datasheets → Internet: clevis foot

Designation	For Ø	Part no.	Type
Clevis foot CRLBN			
	12	**161862**	**CRLBN-12/16**
	16	**161862**	**CRLBN-12/16**
	20	**161863**	**CRLBN-20/25**
	25	**161863**	**CRLBN-20/25**
Trunnion support CRLNZG			
	125	**161877**	**CRLNZG-100/125**

Designation	For Ø	Part no.	Type
Clevis foot CRLNG			
	32	**161840**	**CRLNG-32**
	40	**161841**	**CRLNG-40**
	50	**161842**	**CRLNG-50**
	63	**161843**	**CRLNG-63**
	80	**161844**	**CRLNG-80**
	100	**161845**	**CRLNG-100**

Ordering data – Mounting components, R3 – high corrosion protection

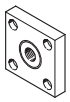
Datasheets → Internet: clevis foot

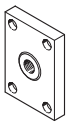
Designation	For Ø	Part no.	Type
Clevis foot LBG-R3			
	20, 25, 32, 40	**2078790**	**LBG-32-R3**
	50, 63	**2078792**	**LBG-40-R3**
	80	**2078794**	**LBG-50-R3**
		2078795	**LBG-63-R3**
	100	**2078797**	**LBG-80-R3**
		2078799	**LBG-100-R3**
	125	**2078837**	**LBG-125-R3**

Accessories

Ordering data – Piston rod attachments

Datasheets → Internet: piston rod attachment

Designation	For ø	Part no.	Type
Rod eye SGS			
	12	9254	SGS-M6
	16	9255	SGS-M8
	20	9261	SGS-M10x1.25
	25		
	32		
	40		
	50	9262	SGS-M12x1.25
	63		
	80	9263	SGS-M16x1.5
	100	9264	SGS-M20x1.5
	125	10774	SGS-M27x2
Rod clevis SG			
	12	3110	SG-M6
	16	3111	SG-M8
	20	6144	SG-M10x1.25
	25		
	32		
	40		
	50	6145	SG-M12x1.25
	63		
	80	6146	SG-M16x1.5
	100	6147	SG-M20x1.5
	125	14987	SG-M27x2-B
Coupling piece KSG			
	12	–	–
	16		
	20	32963	KSG-M10x1.25
	25		
	32		
	40		
	50	32964	KSG-M12x1.25
	63		
	80	32965	KSG-M16x1.5
	100	32966	KSG-M20x1.5
	125	32967	KSG-M27x2
Adapter AD			
	12	157328	AD-M6-M5
		157329	AD-M6-1/8
		157330	AD-M6-1/4
	16	157331	AD-M8-1/8
		157332	AD-M8-1/4
	20	157333	AD-M10x1.25-1/8
	25	157334	AD-M10x1.25-1/4
	32		
	40		
	50	160256	AD-M12x1.25-1/4
	63	160257	AD-M12x1.25-3/8

Designation	For ø	Part no.	Type
Rod clevis SGA			
	12	–	–
	16		
	20	32954	SGA-M10x1.25
	25		
	32		
	40		
	50	10767	SGA-M12x1.25
	63		
	80	10768	SGA-M16x1.5
	100	10769	SGA-M20x1.5
	125	10770	SGA-M27x2
Self-aligning rod coupler FK			
	12	2061	FK-M6
	16	2062	FK-M8
	20	6140	FK-M10x1.25
	25		
	32		
	40		
	50	6141	FK-M12x1.25
	63		
	80	6142	FK-M16x1.5
	100	6143	FK-M20x1.5
	125	10485	FK-M27x2
Coupling piece KSZ			
	12	36123	KSZ-M6
	16	36124	KSZ-M8
	20	36125	KSZ-M10x1.25
	25		
	32		
	40		
	50	36126	KSZ-M12x1.25
	63		
	80	36127	KSZ-M16x1.5
	100	36128	KSZ-M20x1.5
	125	–	–

Accessories

Ordering data – Piston-rod attachments, corrosion-resistant

Datasheets → Internet: piston rod attachment

Designation	For ⌀	Part no.	Type
Rod eye CRSGS			
	12	195580	CRSGS-M6
	16	195581	CRSGS-M8
	20	195582	CRSGS-M10x1.25
	25		
	32		
	40		
	50	195583	CRSGS-M12x1.25
	63		
	80	195584	CRSGS-M16x1.5
	100	195585	CRSGS-M20x1.5
	125	195586	CRSGS-M27x2
Self-aligning rod coupler CRFK			
	20	2305778	CRFK-M10x1.25
	25		
	32		
	40		
	50	2305779	CRFK-M12x1.25
	63		
	80	2490673	CRFK-M16x1.5
	100	2545677	CRFK-M20x1.5

Designation	For ⌀	Part no.	Type
Rod clevis CRSG			
	12	13567	CRSG-M6
	16	13568	CRSG-M8
	20	13569	CRSG-M10x1.25
	25		
	32		
	40		
	50	13570	CRSG-M12x1.25
	63		
	80	13571	CRSG-M16x1.5
	100	13572	CRSG-M20x1.5
	125	185361	CRSG-M27x2

Ordering data – One-way flow control valves

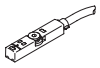
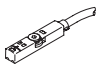
Datasheets → Internet: grl

	Port		Material	Part no.	Type
	Thread	For tubing O.D.			
For exhaust air					
	M5	3	Metal design	193137	GRLA-M5-QS-3-D
		4		193138	GRLA-M5-QS-4-D
		6		193139	GRLA-M5-QS-6-D
	G1/8	3		193142	GRLA-1/8-QS-3-D
		4		193143	GRLA-1/8-QS-4-D
		6		193144	GRLA-1/8-QS-6-D
		8		193145	GRLA-1/8-QS-8-D
	G1/4	6		193146	GRLA-1/4-QS-6-D
		8		193147	GRLA-1/4-QS-8-D
		10		193148	GRLA-1/4-QS-10-D
For supply air					
	M5	3	Metal design	193153	GRLZ-M5-QS-3-D
		4		193154	GRLZ-M5-QS-4-D
		6		193155	GRLZ-M5-QS-6-D
	G1/8	3		193156	GRLZ-1/8-QS-3-D
		4		193157	GRLZ-1/8-QS-4-D
		6		193158	GRLZ-1/8-QS-6-D
		8		193159	GRLZ-1/8-QS-8-D

Accessories

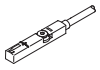
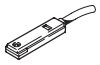
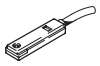
Ordering data – Proximity switch for T-slot, magneto-resistive

Datasheets → Internet: smt

	Type of mounting	Switching output	Electrical connection	Cable length [m]	Part no.	Type
N/O						
	Inserted in the slot from above, flush with the cylinder profile, short design	PNP	Cable, 3-core	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**
			1x M12 plug, 3-pin	0.3	**574337**	**SMT-8M-A-PS-24V-E-0.3-M12**
		NPN	Cable, 3-core	2.5	**574338**	**SMT-8M-A-NS-24V-E-2.5-OE**
			Plug M8x1, 3-pin	0.3	**574339**	**SMT-8M-A-NS-24V-E-0.3-M8D**
N/C						
	Inserted in the slot from above, flush with the cylinder profile, short design	PNP	Cable, 3-core	7.5	**574340**	**SMT-8M-A-PO-24V-E-7.5-OE**

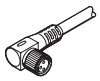
Ordering data – Proximity switch for T-slot, magnetic reed

Datasheets → Internet: sme

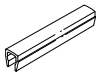
	Type of mounting	Switching output	Electrical connection	Cable length [m]	Part no.	Type
N/O						
	Inserted in the slot from above, flush with the cylinder profile	Contacting	Cable, 3-core	2.5	**543862**	**SME-8M-DS-24V-K-2.5-OE**
				5.0	**543863**	**SME-8M-DS-24V-K-5.0-OE**
			Cable, 2-core	2.5	**543872**	**SME-8M-ZS-24V-K-2.5-OE**
			Plug M8x1, 3-pin	0.3	**543861**	**SME-8M-DS-24V-K-0.3-M8D**
	Inserted in the slot lengthwise, flush with the cylinder profile	Contacting	Cable, 3-core	2.5	**150855**	**SME-8-K-LED-24**
			Plug M8x1, 3-pin	0.3	**150857**	**SME-8-S-LED-24**
N/C						
	Inserted in the slot lengthwise, flush with the cylinder profile	Contacting	Cable, 3-core	7.5	**160251**	**SME-8-O-K-LED-24**

Ordering data – Connecting cables

Datasheets → Internet: nebu

	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Type
	Straight socket, M8x1, 3-pin	Cable, open end, 3-core	2.5	**541333**	**NEBU-M8G3-K-2.5-LE3**
			5.0	**541334**	**NEBU-M8G3-K-5-LE3**
	Straight socket, M12x1, 5-pin	Cable, open end, 3-core	2.5	**541363**	**NEBU-M12G5-K-2.5-LE3**
			5.0	**541364**	**NEBU-M12G5-K-5-LE3**
	Angled socket, M8x1, 3-pin	Cable, open end, 3-core	2.5	**541338**	**NEBU-M8W3-K-2.5-LE3**
			5.0	**541341**	**NEBU-M8W3-K-5-LE3**
	Angled socket, M12x1, 5-pin	Cable, open end, 3-core	2.5	**541367**	**NEBU-M12W5-K-2.5-LE3**
			5.0	**541370**	**NEBU-M12W5-K-5-LE3**

Ordering data – Slot cover for T-slot

	Mounting	Length	Part no.	Type
	Insertable	2x 0.5 m	**151680**	**ABP-5-S**

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