



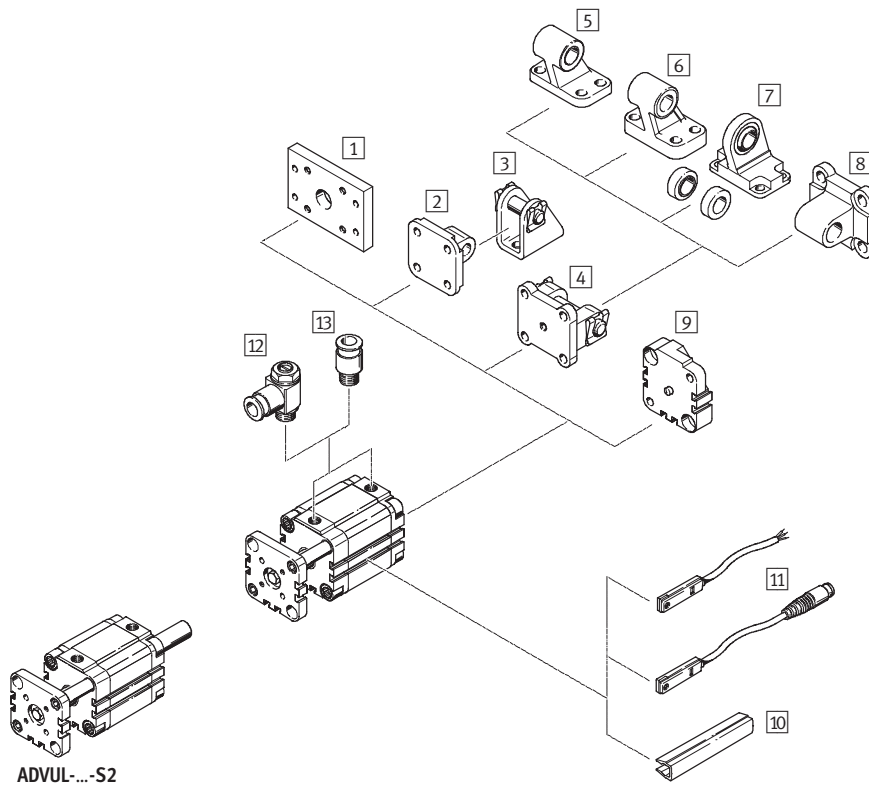
- Piston rod secured against rotation by means of guide rods and yoke plate
- Profile slots for proximity sensors
- Extensive range of accessories

Specified types in accordance with ATEX directive for potentially explosive atmospheres
➔ www.festo.com/en/ex

Compact cylinders ADVUL

Peripherals overview

FESTO



ADVUL-...-S2

Mounting attachments and accessories				
	Brief description	ADVUL		→ Page
			S2	
1	Flange mounting FUA	■	■	1 / 6.2-48
2	Swivel flange SUA for Ø 12 ... 25	■	–	1 / 6.2-49
3	Clevis foot LBN	■	–	1 / 6.2-51
4	Swivel flange SUA for Ø 32 ... 100	■	–	1 / 6.2-49
5	Clevis foot LN	■	–	1 / 6.2-51
6	Clevis foot LNG	■	–	1 / 6.2-51
7	Clevis foot LSN	■	–	1 / 6.2-51
8	Swivel flange SNCL	■	–	1 / 6.2-51
9	Adapter kit DPVU	■	–	1 / 6.2-50
10	Slot cover ABP-5-S	■	■	1 / 6.2-52
11	Proximity sensor SME/SMT-8	■	■	1 / 6.2-52
12	One-way flow control valve GRLA	■	■	1 / 6.2-51
13	Push-in fitting QS	■	■	Volume 3

Compact cylinders ADVUL

Type codes

FESTO

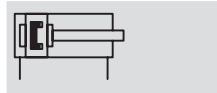
		ADVUL	–	50	–	80	–	P	–	A	–	S2
Type												
Double-acting												
ADVUL	Compact cylinder, secured against rotation by means of guide rods and yoke plate											
Piston Ø [mm]												
Stroke [mm]												
Cushioning												
P	Flexible cushioning rings/plates at both ends											
Position sensing												
A	For proximity sensing											
Variant												
S2	Through piston rod											
S6	Heat-resistant seals up to 120 °C											
CT	Free of copper, PTFE and silicone											

Compact cylinders ADVUL

Technical data

FESTO

Function



- Ø - Diameter
12 ... 100 mm

- | - Stroke length
1 ... 400 mm

- - www.festo.com/en/Spare_parts_service

Wearing parts kits, see
→ 1 / 6.2-47

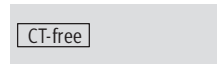
Variants



S2



S6



CT



ADVUL-...-P-A



ADVUL-...-P-A-S2

General technical data										
Piston Ø	12	16	20	25	32	40	50	63	80	100
Pneumatic connection	M5	M5	M5	M5	G $\frac{1}{8}$	G $\frac{1}{8}$	G $\frac{1}{8}$	G $\frac{1}{8}$	G $\frac{1}{8}$	G $\frac{1}{4}$
Operating medium	Filtered compressed air, lubricated or unlubricated									
Constructional design	Piston									
	Piston rod									
	Cylinder barrel									
Cushioning	Flexible cushioning rings/plates at both ends									
Position sensing	For proximity sensing									
Type of mounting	Via through-holes									
	With female thread									
	Via accessories									
Mounting position	Any									

Operating pressure [bar]										
Piston Ø	12	16	20	25	32	40	50	63	80	100
Piston rod at one end	1.2 ... 10		1.0 ... 10							
Through piston rod S2	1.5 ... 10				1.0 ... 10					

Ambient conditions			
Compact cylinder	Basic version	S6	CT
Ambient temperature ¹⁾ [°C]	-20 ... +80	0 ... +120	-5 ... +60
Corrosion resistance class CRC ²⁾	2	2	2

1) Note operating range of proximity sensors

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

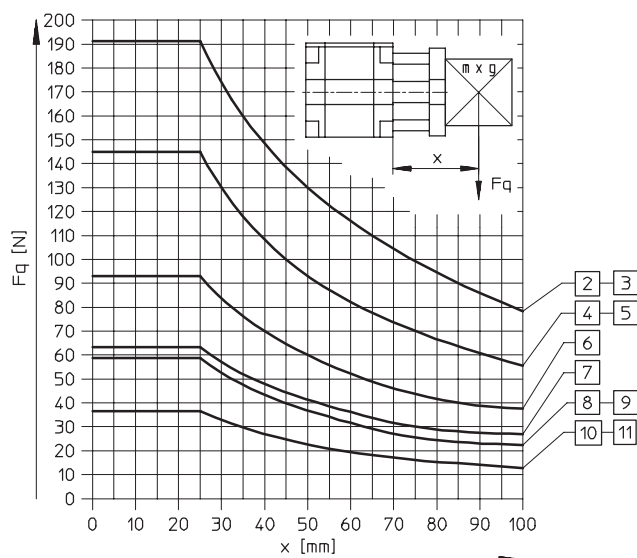
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating agents

Technical data

Forces [N] and impact energy [J]											
Piston Ø		12	16	20	25	32	40	50	63	80	100
Theoretical force at 6 bar, advancing		68	121	188	295	483	754	1 178	1 870	3 016	4 712
	S2	51	90	141	247	415	686	1 057	1 750	2 827	4 418
Theoretical force at 6 bar, retracting		51	90	141	247	415	686	1 057	1 750	2 827	4 418
	S2	51	90	141	247	415	686	1 057	1 750	2 827	4 418
Max. impact energy at end positions		0.09	0.10	0.14	0.10	0.40	0.52	0.64	0.70	0.75	1.00

Max. lateral force F_q as a function of projection x

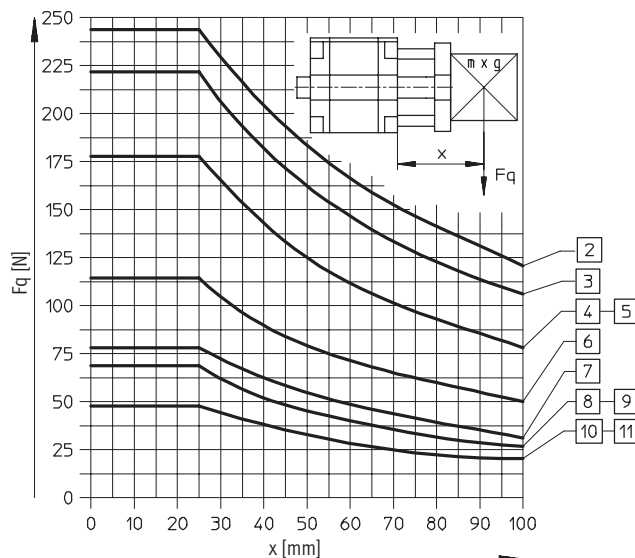
Piston rod at one end



- | | |
|----------|----------|
| 2 | Ø 100 mm |
| 3 | Ø 80 mm |
| 4 | Ø 63 mm |

- | | |
|----------|---------|
| 5 | Ø 50 mm |
| 6 | Ø 40 mm |
| 7 | Ø 32 mm |

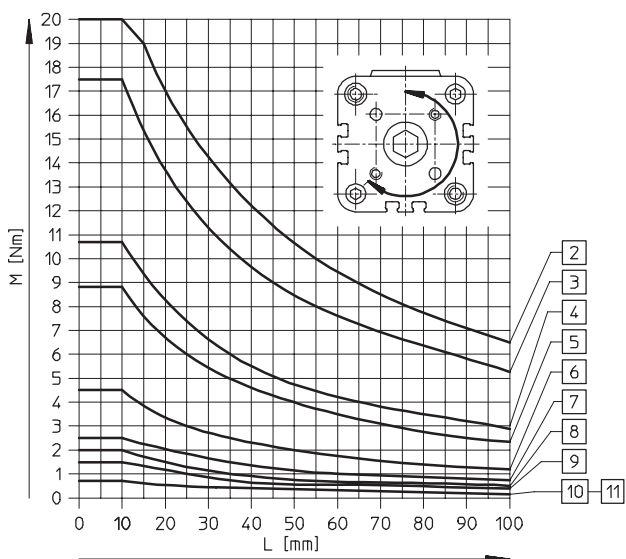
Through piston rod



- | | |
|-----------|---------|
| 8 | Ø 25 mm |
| 9 | Ø 20 mm |
| 10 | Ø 16 mm |

- 11 $\varnothing 12 \text{ mm}$

Torque M in relation to stroke length L



- | | |
|---|----------|
| 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 |
| 9 | Ø 20 mm |
| 10 | Ø 16 mm |
| 11 | Ø 12 mm |

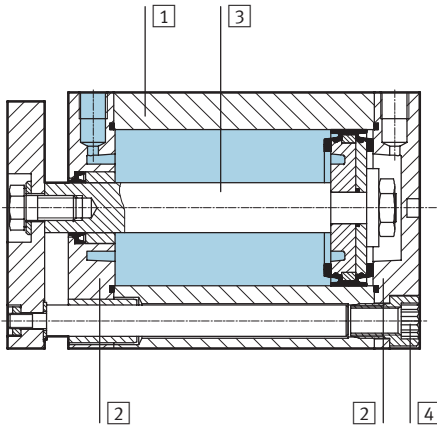
Compact cylinders ADVUL

Technical data

FESTO

Materials

Sectional view



Compact cylinder		Basic version	S6	CT
1	Cylinder barrel	Wrought aluminium alloy	Wrought aluminium alloy	Wrought aluminium alloy
2	Bearing and end cap	Wrought aluminium alloy	Wrought aluminium alloy	Wrought aluminium alloy
3	Piston rod	High-alloy stainless steel	High-alloy stainless steel	High-alloy stainless steel
		High-alloy steel	High-alloy steel	High-alloy steel
4	Flange screws	High-alloy stainless steel	High-alloy stainless steel	High-alloy stainless steel
		Tempered steel	Tempered steel	Tempered steel
–	Seals	Polyurethane, nitrile rubber	Fluorocautchouc	Polyurethane, nitrile rubber

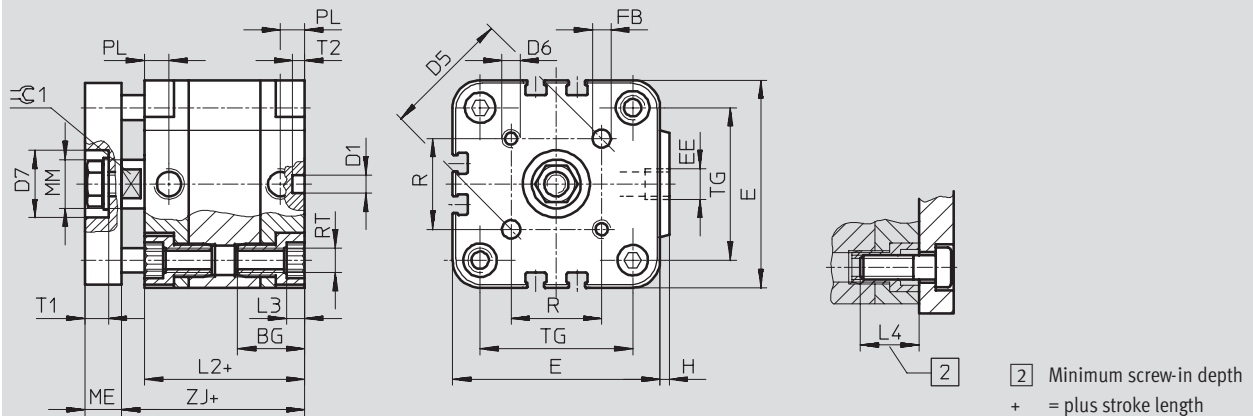
Compact cylinders ADVUL

Technical data

FESTO

Dimensions – Basic cylinders

Download CAD data → www.festo.com/en/engineering



Ø [mm]	BG ¹⁾	D1 Ø H9	D5	D6	D7 Ø H9	E	EE	FB Ø H8	H	L2	L3
12	18.5	6	14	M3	–	29	M5	3	1	38	3
16	18.5	6	14	M3	–	29	M5	3	1	38	3
20	18.5	6	17	M4	–	36	M5	4	1.5	38	4
25	18.5	6	22	M5	14	40	M5	5	1.5	39.5	4
32	21.5	6	28	M5	17	50	G $\frac{1}{8}$	5	2	44.5	5
40	21.5	6	33	M5	17	60	G $\frac{1}{8}$	5	2.5	45.5	5
50	22	6	42	M6	22	68	G $\frac{1}{8}$	6	3	45.5	6
63	24.5	8	50	M6	22	87	G $\frac{1}{8}$	6	4	50	8
80	27.5	8	65	M8	28	107	G $\frac{1}{8}$	8	4	56	8
100	32.5	8	80	M10	30	128	G $\frac{1}{4}$	10	5	66.5	8

Ø [mm]	L4	ME	MM Ø	PL	R	RT	T1 +0.2	T2 –0.2	TG	≈C1 h13
12	16	6	6	8	9.9	M4	–	4	18	5
16	16	6	8	8	9.9	M4	–	4	18	7
20	18	8	10	8	12	M5	–	4	22	9
25	18	8	10	8	15.6	M5	4.8	4	26	9
32	20	10	12	8	19.8	M6	6.1	4	32	10
40	20	10	12	8	23.3	M6	6.1	4	42	10
50	20	12	16	8	29.7	M8	7.6	4	50	13
63	25	12	16	8	35.4	M10	7.6	4	62	13
80	25	14	20	8.5	46	M10	8.7	4	82	17
100	25	14	25	10.5	56.6	M10	10.3	4	103	22

1) Do not exceed screw-in depth

Drives with linear guides
Rod guides

6.2

Compact cylinders ADVUL

Technical data

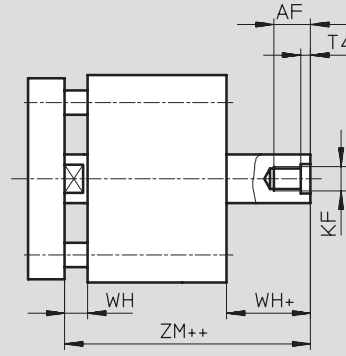
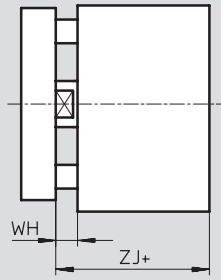
FESTO

Dimensions – Variants

Download CAD data → www.festo.com/en/engineering

Piston rod at one end

Through piston rod



Ø	AF	KF	T4	WH	ZJ	ZM
[mm]						
12	8	M3	1.5	4.5	42.5	47
16	10	M4	1.5	4.5	42.5	47
20	12	M5	2	4.5	42.5	47
25	12	M5	2	5.5	45	50.5
32	14	M6	2.6	6	50.5	56.5
40	14	M6	2.6	6.5	52	58.5
50	16	M8	3.3	7.5	53	60.5
63	16	M8	3.3	7.5	57.5	65
80	20 ¹⁾	M10	4.7	8	64	72
100	24 ¹⁾	M12	6.1	10	76.5	86.5

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

Compact cylinders ADVUL

Technical data

FESTO

Ordering data – Basic version						
Type	Stroke [mm]	Part No.	Type	Stroke [mm]	Part No.	Type
	Piston Ø 12 mm			Piston Ø 16 mm		
	5	156 844	ADVUL-12-5-P-A	5	156 851	ADVUL-16-5-P-A
	10	156 845	ADVUL-12-10-P-A	10	156 852	ADVUL-16-10-P-A
	15	156 846	ADVUL-12-15-P-A	15	156 853	ADVUL-16-15-P-A
	20	156 847	ADVUL-12-20-P-A	20	156 854	ADVUL-16-20-P-A
	25	156 848	ADVUL-12-25-P-A	25	156 855	ADVUL-16-25-P-A
	30	156 849	ADVUL-12-30-P-A	30	156 856	ADVUL-16-30-P-A
	40	156 850	ADVUL-12-40-P-A	40	156 857	ADVUL-16-40-P-A
	Piston Ø 20 mm			Piston Ø 25 mm		
	5	156 858	ADVUL-20-5-P-A	5	156 866	ADVUL-25-5-P-A
	10	156 859	ADVUL-20-10-P-A	10	156 867	ADVUL-25-10-P-A
	15	156 860	ADVUL-20-15-P-A	15	156 868	ADVUL-25-15-P-A
	20	156 861	ADVUL-20-20-P-A	20	156 869	ADVUL-25-20-P-A
	25	156 862	ADVUL-20-25-P-A	25	156 870	ADVUL-25-25-P-A
	30	156 863	ADVUL-20-30-P-A	30	156 871	ADVUL-25-30-P-A
	40	156 864	ADVUL-20-40-P-A	40	156 872	ADVUL-25-40-P-A
	50	156 865	ADVUL-20-50-P-A	50	156 873	ADVUL-25-50-P-A
	Piston Ø 32 mm			Piston Ø 40 mm		
	5	156 874	ADVUL-32-5-P-A	5	156 884	ADVUL-40-5-P-A
	10	156 875	ADVUL-32-10-P-A	10	156 885	ADVUL-40-10-P-A
	15	156 876	ADVUL-32-15-P-A	15	156 886	ADVUL-40-15-P-A
	20	156 877	ADVUL-32-20-P-A	20	156 887	ADVUL-40-20-P-A
	25	156 878	ADVUL-32-25-P-A	25	156 888	ADVUL-40-25-P-A
	30	156 879	ADVUL-32-30-P-A	30	156 889	ADVUL-40-30-P-A
	40	156 880	ADVUL-32-40-P-A	40	156 890	ADVUL-40-40-P-A
	50	156 881	ADVUL-32-50-P-A	50	156 891	ADVUL-40-50-P-A
	60	156 882	ADVUL-32-60-P-A	60	156 892	ADVUL-40-60-P-A
	80	156 883	ADVUL-32-80-P-A	80	156 893	ADVUL-40-80-P-A
	Piston Ø 50 mm			Piston Ø 63 mm		
	10	156 894	ADVUL-50-10-P-A	10	156 903	ADVUL-63-10-P-A
	15	156 895	ADVUL-50-15-P-A	15	156 904	ADVUL-63-15-P-A
	20	156 896	ADVUL-50-20-P-A	20	156 905	ADVUL-63-20-P-A
	25	156 897	ADVUL-50-25-P-A	25	156 906	ADVUL-63-25-P-A
	30	156 898	ADVUL-50-30-P-A	30	156 907	ADVUL-63-30-P-A
	40	156 899	ADVUL-50-40-P-A	40	156 908	ADVUL-63-40-P-A
	50	156 900	ADVUL-50-50-P-A	50	156 909	ADVUL-63-50-P-A
	60	156 901	ADVUL-50-60-P-A	60	156 910	ADVUL-63-60-P-A
	80	156 902	ADVUL-50-80-P-A	80	156 911	ADVUL-63-80-P-A
	Piston Ø 80 mm			Piston Ø 100 mm		
	10	156 912	ADVUL-80-10-P-A	10	156 921	ADVUL-100-10-P-A
	15	156 913	ADVUL-80-15-P-A	15	156 922	ADVUL-100-15-P-A
	20	156 914	ADVUL-80-20-P-A	20	156 923	ADVUL-100-20-P-A
	25	156 915	ADVUL-80-25-P-A	25	156 924	ADVUL-100-25-P-A
	30	156 916	ADVUL-80-30-P-A	30	156 925	ADVUL-100-30-P-A
	40	156 917	ADVUL-80-40-P-A	40	156 926	ADVUL-100-40-P-A
	50	156 918	ADVUL-80-50-P-A	50	156 927	ADVUL-100-50-P-A
	60	156 919	ADVUL-80-60-P-A	60	156 928	ADVUL-100-60-P-A
	80	156 920	ADVUL-80-80-P-A	80	156 929	ADVUL-100-80-P-A

Compact cylinders ADVUL

Technical data

FESTO

Ordering data – CT with fixed stroke						
Type	Stroke [mm]	Part No.	Type	Stroke [mm]	Part No.	Type
	Piston Ø 12 mm			Piston Ø 16 mm		
	5	183 383	ADVUL-12-5-P-A-CT	5	183 388	ADVUL-16-5-P-A-CT
	10	183 384	ADVUL-12-10-P-A-CT	10	183 389	ADVUL-16-10-P-A-CT
	15	183 385	ADVUL-12-15-P-A-CT	15	183 390	ADVUL-16-15-P-A-CT
	20	183 386	ADVUL-12-20-P-A-CT	20	183 391	ADVUL-16-20-P-A-CT
	Piston Ø 20 mm			Piston Ø 25 mm		
	5	183 393	ADVUL-20-5-P-A-CT	5	183 398	ADVUL-25-5-P-A-CT
	10	183 394	ADVUL-20-10-P-A-CT	10	183 399	ADVUL-25-10-P-A-CT
	15	183 395	ADVUL-20-15-P-A-CT	15	183 400	ADVUL-25-15-P-A-CT
	20	183 396	ADVUL-20-20-P-A-CT	20	183 401	ADVUL-25-20-P-A-CT
	Piston Ø 32 mm			Piston Ø 40 mm		
	5	183 403	ADVUL-32-5-P-A-CT	5	183 408	ADVUL-40-5-P-A-CT
	10	183 404	ADVUL-32-10-P-A-CT	10	183 409	ADVUL-40-10-P-A-CT
	15	183 405	ADVUL-32-15-P-A-CT	15	183 410	ADVUL-40-15-P-A-CT
	20	183 406	ADVUL-32-20-P-A-CT	20	183 411	ADVUL-40-20-P-A-CT

Ordering data – Variants				
Type	Piston Ø [mm]	Stroke [mm]	Part No.	Type
Variable stroke				
	12	1 ... 200	156 200	ADVUL-12-...-P-A
	16	1 ... 200	156 201	ADVUL-16-...-P-A
	20	1 ... 200	156 202	ADVUL-20-...-P-A
	25	1 ... 200	156 203	ADVUL-25-...-P-A
	32	1 ... 300	156 204	ADVUL-32-...-P-A
	40	1 ... 300	156 205	ADVUL-40-...-P-A
	50	1 ... 300	156 206	ADVUL-50-...-P-A
	63	1 ... 300	156 207	ADVUL-63-...-P-A
	80	1 ... 400	156 208	ADVUL-80-...-P-A
	100	1 ... 400	156 209	ADVUL-100-...-P-A
S2 – Through piston rod, variable stroke				
	12	1 ... 200	165 089	ADVUL-12-...-P-A-S2
	16	1 ... 200	165 090	ADVUL-16-...-P-A-S2
	20	1 ... 200	165 091	ADVUL-20-...-P-A-S2
	25	1 ... 200	165 092	ADVUL-25-...-P-A-S2
	32	1 ... 300	165 093	ADVUL-32-...-P-A-S2
	40	1 ... 300	165 094	ADVUL-40-...-P-A-S2
	50	1 ... 300	165 095	ADVUL-50-...-P-A-S2
	63	1 ... 300	165 096	ADVUL-63-...-P-A-S2
	80	1 ... 400	165 097	ADVUL-80-...-P-A-S2
	100	1 ... 400	165 098	ADVUL-100-...-P-A-S2

Compact cylinders ADVUL

Technical data

FESTO

Ordering data – Variants				
Type	Piston Ø [mm]	Stroke [mm]	Part No.	Type
S6 – Heat-resistant up to 120 °C, variable stroke				
	12	1 ... 200	156 210	ADVUL-12-...-P-A-S6
	16	1 ... 200	156 211	ADVUL-16-...-P-A-S6
	20	1 ... 200	156 212	ADVUL-20-...-P-A-S6
	25	1 ... 200	156 213	ADVUL-25-...-P-A-S6
	32	1 ... 300	156 214	ADVUL-32-...-P-A-S6
	40	1 ... 300	156 215	ADVUL-40-...-P-A-S6
	50	1 ... 300	156 216	ADVUL-50-...-P-A-S6
	63	1 ... 300	156 217	ADVUL-63-...-P-A-S6
	80	1 ... 400	156 218	ADVUL-80-...-P-A-S6
	100	1 ... 400	156 219	ADVUL-100-...-P-A-S6
CT – Free of copper, PTFE and silicone, variable stroke				
	12	1 ... 200	183 382	ADVUL-12-...-P-A-CT
	16	1 ... 200	183 387	ADVUL-16-...-P-A-CT
	20	1 ... 200	183 392	ADVUL-20-...-P-A-CT
	25	1 ... 200	183 397	ADVUL-25-...-P-A-CT
	32	1 ... 300	183 402	ADVUL-32-...-P-A-CT
	40	1 ... 300	183 407	ADVUL-40-...-P-A-CT

Ordering data – Wearing parts kits				
Piston Ø	Part No.	Type	Part No.	Type
		Basic version		S6 – Heat-resistant up to 120 °C
12	121 115	ADVUL-12-...-P-A ¹⁾	383 559	ADVUL-12-...-P-A-S6 ²⁾
16	121 116	ADVUL-16-...-P-A ¹⁾	383 560	ADVUL-16-...-P-A-S6 ²⁾
20	121 117	ADVUL-20-...-P-A ¹⁾	383 561	ADVUL-20-...-P-A-S6 ²⁾
25	121 118	ADVUL-25-...-P-A ¹⁾	383 562	ADVUL-25-...-P-A-S6 ²⁾
32	121 119	ADVUL-32-...-P-A ¹⁾	383 563	ADVUL-32-...-P-A-S6 ¹⁾
40	121 120	ADVUL-40-...-P-A ¹⁾	383 564	ADVUL-40-...-P-A-S6 ¹⁾
50	121 121	ADVUL-50-...-P-A ¹⁾	383 565	ADVUL-50-...-P-A-S6 ¹⁾
63	121 122	ADVUL-63-...-P-A ¹⁾	383 566	ADVUL-63-...-P-A-S6 ¹⁾
80	121 123	ADVUL-80-...-P-A ¹⁾	383 567	ADVUL-80-...-P-A-S6 ¹⁾
100	121 124	ADVUL-100-...-P-A ¹⁾	383 568	ADVUL-100-...-P-A-S6 ¹⁾

1) Assembly grease included in scope of delivery

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

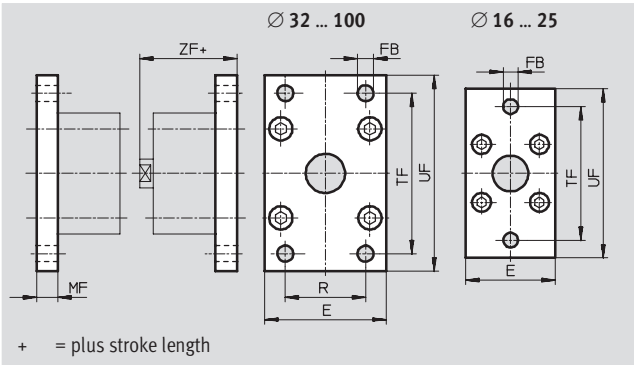
Compact cylinders ADVUL

Accessories



Flange mounting FUA

Material:
Clear anodised aluminium



Dimensions and ordering data										
For Ø	E	FB Ø	MF	R	TF	UF	ZF	CRC ¹⁾	Weight [g]	Part No. Type
[mm]										
12/16	29	5.5	10	–	43	55	52.5	2	48	157 299 FUA-12/16
20	36	6.6	10	–	55	70	52.5	2	72	157 300 FUA-20
25	40	6.6	10	–	60	76	55	2	87	157 301 FUA-25
32	50	7	10	32	65	80	60.5	2	117	157 302 FUA-32
40	60	9	10	36	82	102	62	2	180	157 303 FUA-40
50	68	9	12	45	90	110	65	2	266	157 304 FUA-50
63	87	9	15	50	110	130	72.5	2	550	157 305 FUA-63
80	107	12	15	63	135	160	76	2	745	157 306 FUA-80
100	128	14	15	75	163	190	91.5	2	1.035	157 307 FUA-100

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

Compact cylinders ADVUL

Accessories

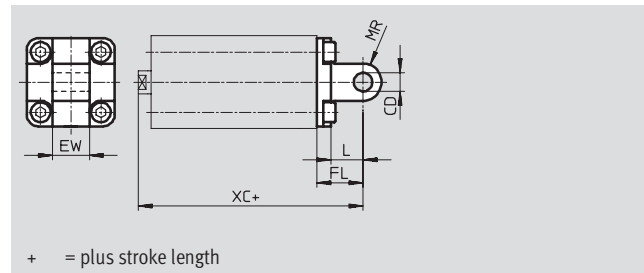
FESTO

Swivel flange SUA for piston Ø 12 ... 25 mm

Material:
Anodised aluminium
Free of copper, PTFE and silicone



Ø 12 ... 25 mm

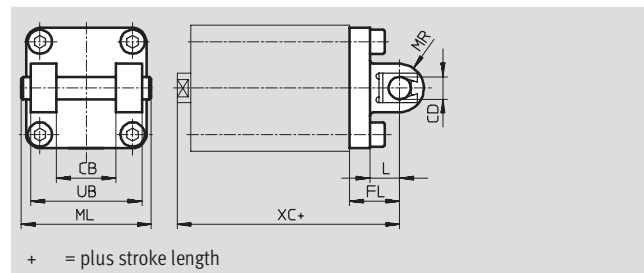


for piston Ø 32 ... 100 mm

Material:
Anodised aluminium
Free of copper, PTFE and silicone



Ø 32 ... 100 mm



Dimensions and ordering data											
For Ø	CB	CD	EW	FL	L	ML	MR	UB	XC	Weight	Part No. Type
[mm]		Ø								[g]	
12/16	–	6	12	16	10	–	6	–	58.5	43	157 319 SUA-12/16
20	–	8	16	20	14	–	8	–	62.5	78	157 320 SUA-20
25	–	8	16	20	14	–	8	–	64	86	157 321 SUA-25
32	26	10	–	22	13	54	10	45	72.5	208	157 322 SUA-32
40	28	12	–	25	16	62	12	52	77	320	157 323 SUA-40
50	32	12	–	27	16	70	12	60	80	437	157 324 SUA-50
63	40	16	–	32	21	82	16	70	89.5	760	157 325 SUA-63
80	50	16	–	36	23	102	16	90	100	1 190	157 326 SUA-80
100	60	20	–	41	26	126	20	110	117.5	1 900	157 327 SUA-100

 **Note**
The maximum stroke length may not be exceeded when combining cylinders and swivel flanges.

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

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

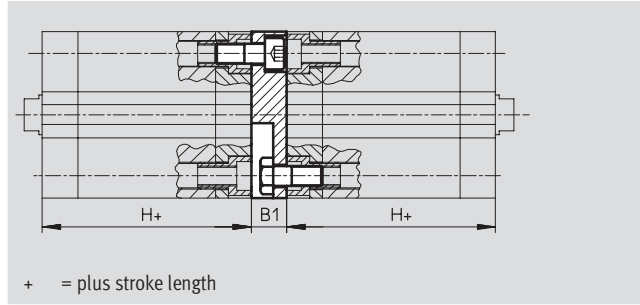
Compact cylinders ADVUL

Accessories

FESTO

Adapter kit DPVU

Material:
Aluminium
Free of copper, PTFE and silicone



Dimensions and ordering data							
For Ø [mm]	B1	H	Max. overall stroke length [mm]	CRC ¹⁾	Weight [g]	Part No.	Type
12/16	12.5	38	400	2	22	161 194	DPVU-12/16
20	12.5	38	400	2	36	161 195	DPVU-20
25	13	39.5	400	2	44	161 196	DPVU-25
32	14.5	44.5	600	2	90	161 197	DPVU-32
40	14.5	45.5	600	2	137	161 198	DPVU-40
50	14.5	45.5	600	2	177	161 199	DPVU-50
63	14.5	50	600	2	308	161 200	DPVU-63
80	16.5	56	800	2	495	161 201	DPVU-80
100	19.5	66.5	800	2	859	161 202	DPVU-100

 - Note
The maximum overall stroke length may not be exceeded when combining cylinders and the multi-position adapter kit.

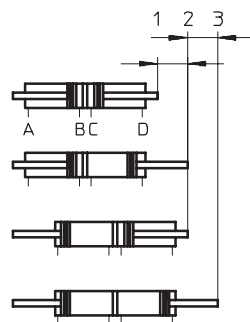
1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating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

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

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

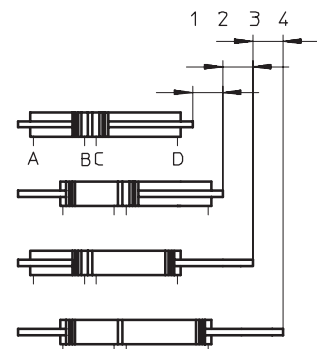
Implementing 3 positions

Two cylinders with identical stroke length must be connected to this end.



Implementing 4 positions

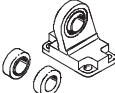
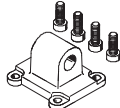
Two cylinders with different stroke lengths must be connected to this end.

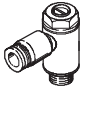


Compact cylinders ADVUL

Accessories

FESTO

Ordering data – Mounting attachments				Technical data→ 1 / 10.1-2			
Designation	For Ø	Part No.	Type	Designation	For Ø	Part No.	Type
Clevis foot LBN				Clevis foot LNG			
	12	6 058	LBN-12/16		32	33 890	LNG-32
	16	6 058	LBN-12/16		40	33 891	LNG-40
	20	6 059	LBN-20/25		50	33 892	LNG-50
	25	6 059	LBN-20/25		63	33 893	LNG-63
					80	33 894	LNG-80
			100		33 895	LNG-100	
Clevis foot LN				Clevis foot LSN			
	32	5 147	LN-32		32	5 561	LSN-32
	40	5 148	LN-40		40	5 562	LSN-40
	50	5 149	LN-50		50	5 563	LSN-50
	63	5 150	LN-63		63	5 564	LSN-63
	80	5 151	LN-80		80	5 565	LSN-80
	100	5 152	LN-100		100	5 566	LSN-100
Swivel flange SNCL							
	32	174 404	SNCL-32				
	40	174 405	SNCL-40				
	50	174 406	SNCL-50				
	63	174 407	SNCL-63				
	80	174 408	SNCL-80				
	100	174 409	SNCL-100				

Ordering data – One-way flow control valves				Technical data → Volume 2	
	Connection		Material	Part No.	Type
	Thread	For tubing O.D.			
	M5	3	Metal design	193 137	GRLA-M5-QS-3-D
		4		193 138	GRLA-M5-QS-4-D
		6		193 139	GRLA-M5-QS-6-D
	G ¹ / ₈	3		193 142	GRLA- ¹ / ₈ -QS-3-D
		4		193 143	GRLA- ¹ / ₈ -QS-4-D
		6		193 144	GRLA- ¹ / ₈ -QS-6-D
		8		193 145	GRLA- ¹ / ₈ -QS-8-D
	G ¹ / ₄	6		193 146	GRLA- ¹ / ₄ -QS-6-D
		8		193 147	GRLA- ¹ / ₄ -QS-8-D
		10		193 148	GRLA- ¹ / ₄ -QS-10-D

Compact cylinders ADVUL

Accessories

FESTO

Ordering data – Proximity sensor for T-slot, magneto-resistive							Technical data➔ 1 / 10.2-13	
	Mounting	Switch output	Electrical connection			Cable length [m]	Part No.	Type
			Cable	M8 plug	M12 plug			
NO contact								
	Insertable from above	PNP	3-core	–	–	2.5	525 898	SMT-8F-PS-24V-K2,5-OE
		NPN					525 909	SMT-8F-NS-24V-K2,5-OE
		–	2-core	–	–	2.5	525 908	SMT-8F-ZS-24V-K2,5-OE
		PNP	–	3-pin	–	0.3	525 899	SMT-8F-PS-24V-K0,3-M8D
		NPN					525 910	SMT-8F-NS-24V-K0,3-M8D
		PNP	–	–	3-pin	0.3	525 900	SMT-8F-PS-24V-K0,3-M12
	Insertable from end, flush with the cylinder profile	PNP	3-core	–	–	2.5	175 436	SMT-8-PS-K-LED-24-B
		–	–	3-pin	–	0.3	175 484	SMT-8-PS-S-LED-24-B
NC contact								
	Insertable from above	PNP	3-core	–	–	7.5	525 911	SMT-8F-PO-24V-K7,5-OE

Ordering data – Proximity sensor for T-slot, magnetic reed					Technical data➔ 1 / 10.2-18	
	Mounting	Electrical connection		Cable length [m]	Part No.	Type
		Cable	M8 plug			
NO contact						
	Insertable from above	3-core	–	2.5	525 895	SME-8F-DS-24V-K2,5-OE
			–	5.0	525 897	SME-8F-DS-24V-K5,0-OE
		2-core	–	2.5	525 907	SME-8F-ZS-24V-K2,5-OE
		–	3-pin	0.3	525 896	SME-8F-DS-24V-K0,3-M8D
	Insertable from end, flush with the cylinder profile	3-core	–	2.5	150 855	SME-8-K-LED-24
		–	3-pin	0.3	150 857	SME-8-S-LED-24
NC contact						
	Insertable from end, flush with the cylinder profile	3-wire	–	7.5	160 251	SME-8-O-K-LED-24

Ordering data – Plug sockets with cable							Technical data➔ 1 / 10.2-114	
	Mounting	Switch output		Connection	Cable length [m]	Part No.	Type	
		PNP	NPN					
Straight socket								
	M8 union nut			3-pin	2.5	159 420	SIM-M8-3GD-2,5-PU	
					5	159 421	SIM-M8-3GD-5-PU	
	M12 union nut			3-pin	2.5	159 428	SIM-M12-3GD-2,5-PU	
					5	159 429	SIM-M12-3GD-5-PU	
Angled socket								
	M8 union nut			3-pin	2.5	159 422	SIM-M8-3WD-2,5-PU	
					5	159 423	SIM-M8-3WD-5-PU	
	M12 union nut			3-pin	2.5	159 430	SIM-M12-3WD-2,5-PU	
					5	159 431	SIM-M12-3WD-5-PU	

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