

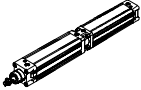
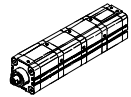


- Force multiplication
- Variant with heat-resistant seals for temperatures up to 150 °C
- Profile slots for proximity sensors

# Tandem cylinders

Product range overview



Function	Version	Type	Piston $\varnothing$ [mm]	Stroke [mm]	Position sensing A
Double-acting	Max. 2 cylinders				
		DNCT	32, 40, 50	2 ... 500	■
			63, 80, 100, 125	3 ... 500	
	Max. 4 cylinders				
		ADVUT	2x 25, 3x 25, 4x 25	1 ... 150	■
			2x 40, 3x 40, 4x 40	1 ... 150	
2x 63, 3x 63, 4x 63			1 ... 150		
2x 100, 3x 100, 4x 100			1 ... 150		

By connecting 2, 3 or 4 cylinders with the same piston diameter and stroke in series, the force in the advance stroke (thrust) can be doubled, tripled or quadrupled in comparison to a standard cylinder.

## Special features

### DNCT

- The DNCT has adjustable end position cushioning.
- Like the thrust, the force in the return stroke is double that of a single cylinder with corresponding piston diameter.

### ADVUT

- In the ADVUT, the internal distribution of compressed air means that only 2 connections are required to pressurise all cylinders.
- The force in the return stroke corresponds to that of a single cylinder with corresponding piston diameter.

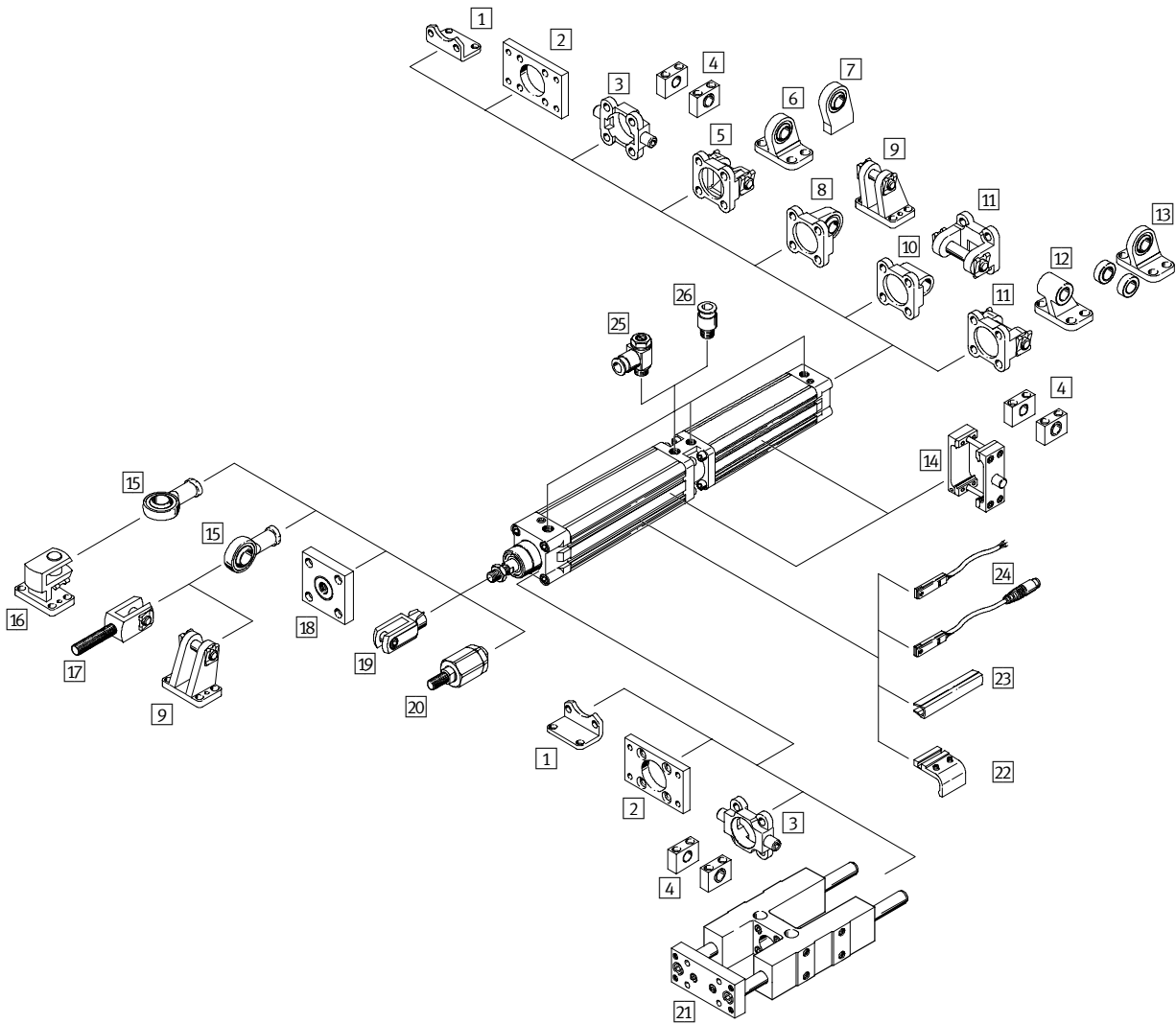
# Tandem cylinders

Product range overview

Type	Piston rod		Cushioning		Heat resistant up to 150 °C S6	→ Page
	With female thread	With male thread	Non-adjustable P	Adjustable PPV		
<b>Max. 2 cylinders</b>						
DNCT	-	■	-	■	■	1 / 5.7-4
<b>Max. 4 cylinders</b>						
ADVUT	■	■	■	-	■	1 / 5.7-20

# Tandem cylinders DNCT, standard port pattern

Peripherals overview



Special-function drives  
Tandem/high-power cylinders

5.7

# Tandem cylinders DNCT, standard port pattern

Peripherals overview

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Mounting attachments and accessories		
	Brief description	→ Page
1	Foot mounting HNC	For bearing and end caps 1 / 5.7-10
2	Flange mounting FNC	For bearing or end caps 1 / 5.7-10
3	Trunnion flange ZNCF	For bearing or end caps 1 / 5.7-11
4	Trunnion support LNZG	– 1 / 5.7-13
5	Swivel flange SNC	For end caps 1 / 5.7-13
6	Clevis foot LSNG	With spherical bearing 1 / 5.7-16
7	Clevis foot LSNSG	Weld-on, with spherical bearing 1 / 5.7-16
8	Swivel flange SNCS	With spherical bearing for end caps 1 / 5.7-14
9	Clevis foot LBG	– 1 / 5.7-16
10	Swivel flange SNCL	For end caps 1 / 5.7-15
11	Swivel flange SNCB	For end caps 1 / 5.7-14
12	Clevis foot LNG	– 1 / 5.7-16
13	Clevis foot LSN	With spherical bearing 1 / 5.7-16
14	Trunnion mounting kit ZNCM	For mounting anywhere on the cylinder profile barrel 1 / 5.7-12
15	Rod eye SGS	With spherical bearing 1 / 5.7-17
16	Right-angle clevis foot LQG	– 1 / 5.7-16
17	Rod clevis SGA	With male thread 1 / 5.7-17
18	Coupling piece KSG	For compensating radial deviations 1 / 5.7-17
19	Rod clevis SG	Permits a swivelling movement of the cylinder in one plane 1 / 5.7-17
20	Self-aligning rod coupler FK	For compensating radial and angular deviations 1 / 5.7-17
21	Guide unit FENG	For protecting standard cylinders from torsion at high torque loads 1 / 5.7-18
22	Mounting kit SMB-8-FENG	For proximity sensor SMT-8 when attaching to cylinders in combination with guide unit FENG 1 / 5.7-18
23	Slot cover ABP-5-S	To protect the sensor cable and keep dirt out of the sensor slots 1 / 5.7-19
24	Proximity sensor SME/SMT-8	Can be integrated in the cylinder profile barrel 1 / 5.7-19
25	One-way flow control valve GRLA	To regulate speed 1 / 5.7-17
26	Push-in fitting QS	For connecting compressed air tubing with standard external diameters to CETOP RP 54 P Volume 3

# Tandem cylinders DNCT, standard port pattern

Type codes



DNCT - 40 - 80 - PPV - A - S6

Type	
Double-acting	
DNCT	Tandem cylinder

Piston $\varnothing$ [mm]	
40	

Stroke [mm]	
80	

Cushioning	
PPV	Adjustable at both ends

Position sensing	
A	With proximity sensor

Variant	
S6	Heat-resistant up to 150°C

Special-function drives  
Tandem/high-power cylinders

5.7

# Tandem cylinders DNCT, standard port pattern

FESTO

Technical data

## Function



- - Diameter  
32 ... 125 mm

- - Stroke length  
Ø 32 ... 50:  
2 ... 500 mm

Ø 63 ... 125:  
3 ... 500 mm

- - [www.festo.com/en/  
Spare\\_parts\\_service](http://www.festo.com/en/Spare_parts_service)

## Variants



S6

Based on standard

■ DIN ISO 6431

■ VDMA 24 562



DIN



General technical data							
Piston Ø	32	40	50	63	80	100	125
Pneumatic connection	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{1}{4}$	G $\frac{3}{8}$	G $\frac{3}{8}$	G $\frac{1}{2}$	G $\frac{1}{2}$
Piston rod thread	M10x1.25	M12x1.25	M16x1.5	M16x1.5	M20x1.5	M20x1.5	M27x2
Constructional design	Piston						
	Piston rod						
	Cylinder barrel						
Cushioning	Adjustable at both ends						
Cushioning length [mm]	20	20	22	22	32	32	42
Position sensing	With proximity sensor						
Type of mounting	With female thread						
	Via accessories						
Mounting position	Any						

Operating conditions							
Piston Ø	32	40	50	63	80	100	125
Operating medium	Filtered compressed air, lubricated or unlubricated						
Operating pressure [bar]	0.6 ... 10						

Ambient conditions		
Variant	Basic version	S6
Ambient temperature <sup>1)</sup> [°C]	-20 ... +80	-20 ... +150
Corrosion resistance class CRC <sup>2)</sup>	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.

Forces [N] and impact energy [J]							
Piston Ø	32	40	50	63	80	100	125
Theoretical force at 6 bar, advancing	898	1,387	2,168	3,552	5,737	9,130	14,244
Theoretical force at 6 bar, retracting	830	1,266	1,980	3,364	5,442	8,836	13,762
Max. impact energy at end positions	0.1	0.2	0.2	0.5	0.9	1.2	5

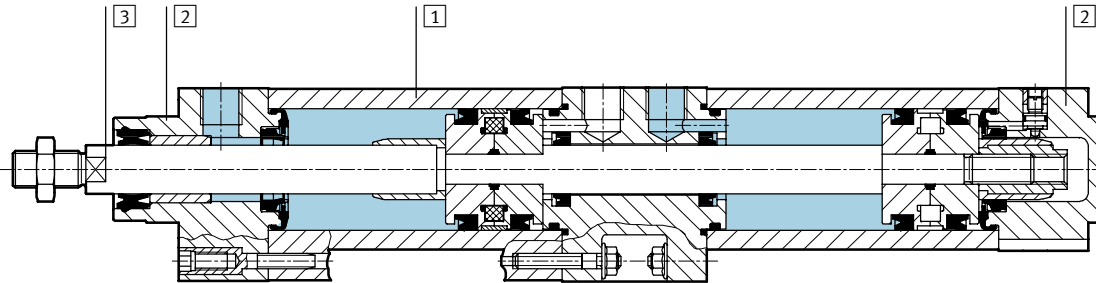
# Tandem cylinders DNCT, standard port pattern

Technical data



## Materials

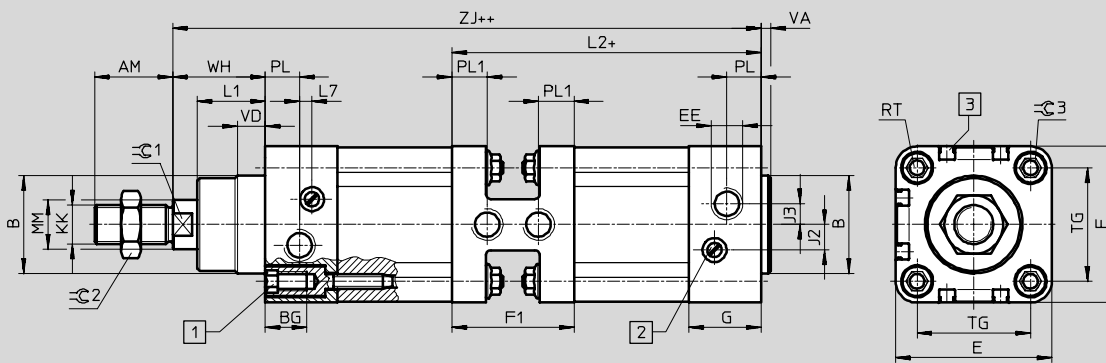
Sectional view



Variant	Basic version	S6
1 Cylinder barrel	Wrought aluminium alloy, smooth anodised	Wrought aluminium alloy, smooth anodised
2 Bearing and end cap	Die-cast aluminium	Die-cast aluminium
3 Piston rod	High-alloy steel	High-alloy steel
- Seals	Polyurethane, nitrile rubber	Fluorocarbon rubber

## Dimensions

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



- 1 Socket head screw with female thread for mounting attachments
- 2 Regulating screw for adjustable end position cushioning
- 3 Sensor slot for proximity sensor
- + = plus stroke length
- ++ = plus 2x stroke length

∅	AM	B	BG	E	EE	F1	G	J2	J3	KK	L1	L2	L7
[mm]		∅ d11											
32	22	30	16	45.5	G $\frac{3}{8}$	35	25.1	6	5.2	M10x1.25	18	104.2	3.3
40	24	35	16	54	G $\frac{1}{4}$	47.6	29.6	8	6	M12x1.25	21.5	123.5	3.6
50	32	40	17	64	G $\frac{1}{4}$	50	29.6	10.4	8.5	M16x1.5	28	126.7	5.1
63	32	45	17	75	G $\frac{3}{8}$	64.4	35.6	12.4	10	M16x1.5	28.5	150	6.6
80	40	45	17	93	G $\frac{3}{8}$	68	35.9	12.5	8	M20x1.5	34.7	161.7	10.5
100	40	55	17	110	G $\frac{1}{2}$	75	38.8	12	10	M20x1.5	38.2	178.1	8
125	54	60	22	134	G $\frac{1}{2}$	70	44.7	13	8	M27x2	46	188.5	14



∅	MM	PL	PL1	RT	TG	VA	VD	WH	ZJ	∅C1	∅C2	∅C3
[mm]	∅ f8											
32	12	15.1	9	M6	32.5	4	10	26.2 ±0.7	199.6 ±0.7	10	16	6
40	16	14	13.3	M6	38	4	10.5	30 +0.7/-0.9	229.4 +0.7/-0.9	13	18	6
50	20	14	14.5	M8	46.5	4	11.5	37.7 +0.7/-0.9	241.1 +0.7/-0.9	17	24	8
63	20	17	17.2	M8	56.5	4	15	38.2 +0.7/-0.9	273.9 +0.7/-0.9	17	24	8
80	25	16.4	19	M10	72	4	15.7	46.2 +0.7/-1.4	301.6 +0.7/-1.4	22	30	6
100	25	18.8	21	M10	89	4	19.2	50.1 +0.7/-1.4	331.3 +0.7/-1.4	22	30	6
125	32	18	18.5	M12	110	6	20.5	65.3 +0.7/-1.4	372.3 +0.7/-1.4	27	36	8



# Tandem cylinders DNCT, standard port pattern

FESTO

Technical data

Ordering data				
Type	Piston Ø [mm]	Stroke [mm]	Part No.	Type
Basic version				
	32	2 ... 500	<b>191 106</b>	DNCT-32-...-PPV-A
	40	2 ... 500	<b>191 107</b>	DNCT-40-...-PPV-A
	50	2 ... 500	<b>191 108</b>	DNCT-50-...-PPV-A
	63	3 ... 500	<b>191 109</b>	DNCT-63-...-PPV-A
	80	3 ... 500	<b>191 110</b>	DNCT-80-...-PPV-A
	100	3 ... 500	<b>191 111</b>	DNCT-100-...-PPV-A
	125	3 ... 500	<b>191 112</b>	DNCT-125-...-PPV-A
S6 – Heat-resistant seals up to 150 °C				
	32	2 ... 500	<b>191 210</b>	DNCT-32-...-PPV-A-S6
	40	2 ... 500	<b>191 211</b>	DNCT-40-...-PPV-A-S6
	50	2 ... 500	<b>191 212</b>	DNCT-50-...-PPV-A-S6
	63	3 ... 500	<b>191 213</b>	DNCT-63-...-PPV-A-S6
	80	3 ... 500	<b>191 214</b>	DNCT-80-...-PPV-A-S6
	100	3 ... 500	<b>191 215</b>	DNCT-100-...-PPV-A-S6
	125	3 ... 500	<b>191 216</b>	DNCT-125-...-PPV-A-S6

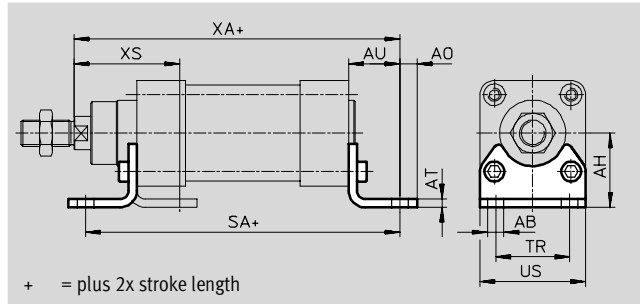
# Tandem cylinders DNCT, standard port pattern

Accessories



## Foot mounting HNC

Material:  
Galvanised steel  
Free of copper, PTFE and silicone

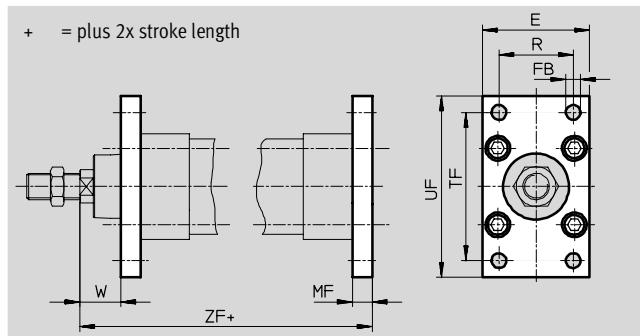


Dimensions and ordering data														
For $\varnothing$	AB	AH	AO	AT	AU	SA	TR	US	XA	XS	CRC <sup>1)</sup>	Weight	Part No.	Type
[mm]	$\varnothing$											[g]		
32	7	32	6.5	4	24	221.4	32	45	223.6	45	2	135	174 369	HNC-32
40	10	36	9	4	28	255.4	36	54	257.4	53	2	180	174 370	HNC-40
50	10	45	9.5	5	32	267.4	45	64	273.1	62	2	325	174 371	HNC-50
63	10	50	12.5	5	32	299.7	50	75	305.9	63	2	405	174 372	HNC-63
80	12	63	15	6	41	337.4	63	93	342.6	81	2	820	174 373	HNC-80
100	14.5	71	17.5	6	41	363.2	75	110	372.3	86	2	1 000	174 374	HNC-100
125	16.5	90	22	8	45	397	90	131	417.3	102	2	1 840	174 375	HNC-125

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

## Flange mounting FNC

Material:  
Galvanised steel  
Free of copper, PTFE and silicone



Dimensions and ordering data												
For $\varnothing$	E	FB	MF	R	TF	UF	W	ZF	CRC <sup>1)</sup>	Weight	Part No.	Type
[mm]		$\varnothing$ H13								[g]		
32	45	7	10	32	64	80	16	209.6	2	240	174 376	FNC-32
40	54	9	10	36	72	90	20	239.4	2	280	174 377	FNC-40
50	65	9	12	45	90	110	25	253.1	2	520	174 378	FNC-50
63	75	9	12	50	100	120	25	285.9	2	690	174 379	FNC-63
80	93	12	16	63	126	150	30	317.6	2	1 650	174 380	FNC-80
100	110	14	16	75	150	175	35	347.3	2	2 400	174 381	FNC-100
125	132	16	20	90	180	210	45	392.3	2	3 750	174 382	FNC-125

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

Core Range

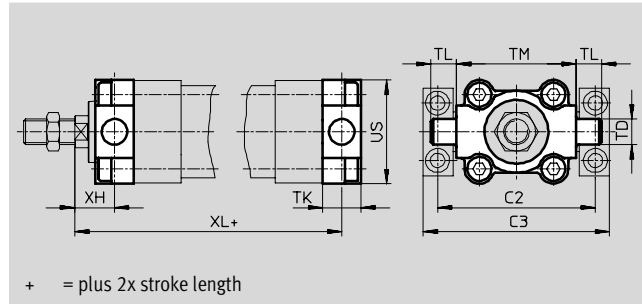
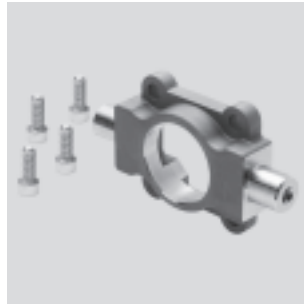
# Tandem cylinders DNCT, standard port pattern



Accessories

## Trunnion flange ZNCF

Material:  
Corrosion resistant cast steel  
Free of copper, PTFE and silicone



Dimensions and ordering data													
For Ø	C2	C3	TD	TK	TL	TM	US	XH	XL	CRC <sup>1)</sup>	Weight	Part No.	Type
[mm]			Ø e9								[g]		
32	71	86	12	16	12	50	45	18	207.6	2	130	174 411	ZNCF-32
40	87	105	16	20	16	63	54	20	239.4	2	240	174 412	ZNCF-40
50	99	117	16	24	16	75	64	25	253.1	2	390	174 413	ZNCF-50
63	116	136	20	24	20	90	75	25	285.9	2	600	174 414	ZNCF-63
80	136	156	20	28	20	110	93	32	315.6	2	1 150	174 415	ZNCF-80
100	164	189	25	38	25	132	110	32	350.3	2	2 030	174 416	ZNCF-100
125	192	217	25	50	25	160	131	40	397.3	2	3 490	174 417	ZNCF-125

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

# Tandem cylinders DNCT, standard port pattern

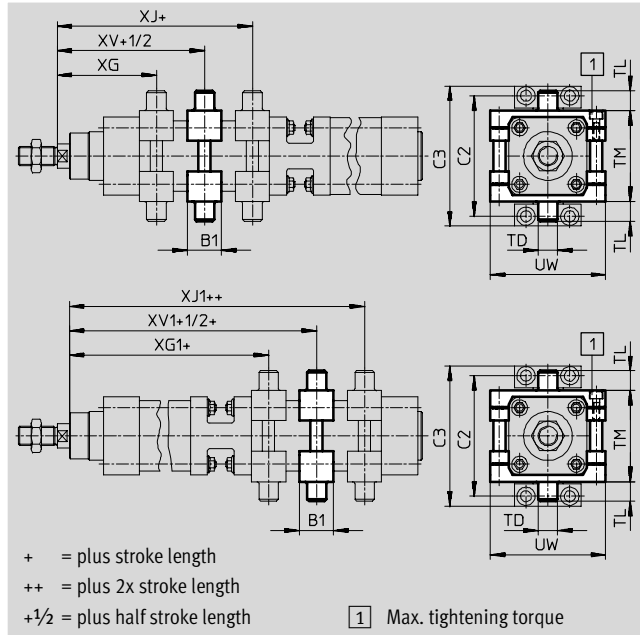
Accessories



## Trunnion mounting kit ZNCM

The mounting kit can be attached at any position along the profile barrel of the cylinder.

Material:  
Tempered steel



### Dimensions and ordering data

For Ø	B1	C2	C3	TD	TL	TM	UW	XG	XG1
[mm]				Ø e9					
32	30	71	86	12	12	50	65	66.3	145.4
40	32	87	105	16	16	63	75	75.6	169.5
50	34	99	117	16	16	75	95	84.3	181.4
63	41	116	136	20	20	90	105	94.3	208.8
80	44	136	156	20	20	110	130	104.1	229.9
100	48	164	189	25	25	132	145	112.9	252.2
125	50	192	217	25	25	160	175	135	278.8

For Ø	XJ	XJ1	XV	XV1	Max. tightening torque	CRC <sup>1)</sup>	Weight	Part No.	Type
[mm]					[Nm]		[g]		
32	80.4	159.5	73.4	152.5	4+1	2	210	163 525	ZNCM-32
40	89.9	183.8	82.8	176.7	8+1	2	385	163 526	ZNCM-40
50	97.4	194.5	90.9	188	8+2	2	595	163 527	ZNCM-50
63	103.4	217.8	98.9	213.3	18+2	2	890	163 528	ZNCM-63
80	117.9	243.7	111	236.8	28+2	2	1 450	163 529	ZNCM-80
100	129.2	268.5	121.1	260.4	28+2	2	2 045	163 530	ZNCM-100
125	158.8	302.6	146.9	290.7	40+2	2	2 940	163 531	ZNCM-125

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

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

Core Range

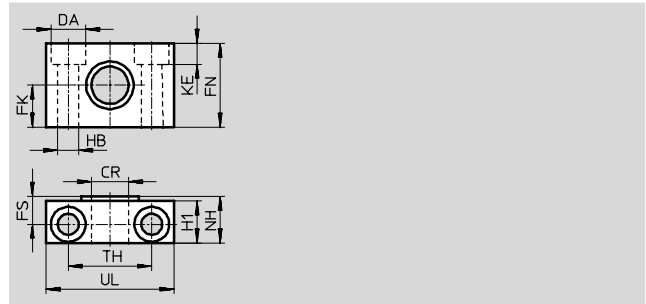
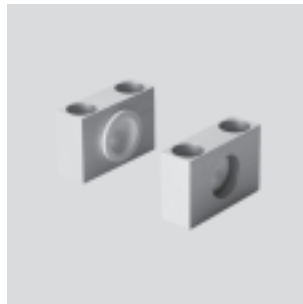
# Tandem cylinders DNCT, standard port pattern



Accessories

## Trunnion support LNZG

Material:  
Galvanised steel  
Free of copper, PTFE and silicone



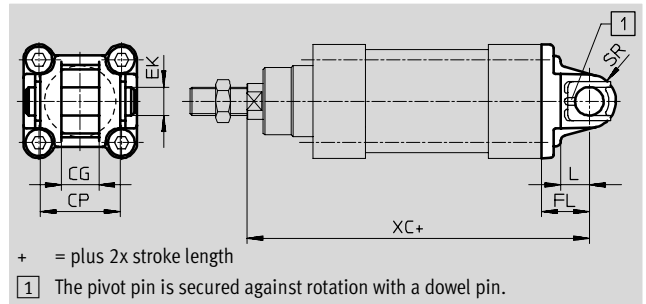
Dimensions and ordering data														Weight	Part No.	Type
For Ø	CR	DA	FK	FN	FS	H1	HB	KE	NH	TH	UL	CRC <sup>1)</sup>	Weight	Part No.	Type	
[mm]	Ø D11	Ø H13	Ø ±0.1				Ø H13			±0.2			[g]			
32	12	11	15	30	10.5	15	6.6	6.8	18	32	46	2	125	32 959	LNZG-32	
40, 50	16	15	18	36	12	18	9	9	21	36	55	2	400	32 960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

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

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

## Swivel flange SNC

Material:  
Wrought aluminium alloy



Dimensions and ordering data										Weight	Part No.	Type
For Ø	CG	CP	EK	FL	L	SR	XC	CRC <sup>1)</sup>	Weight	Part No.	Type	
[mm]	H14	d12	Ø	±0.2					[g]			
32	14	34	10	22	13	10	221.6	2	90	174 383	SNC-32	
40	16	40	12	25	16	12	254.4	2	120	174 384	SNC-40	
50	21	45	16	27	16	16	268.1	2	240	174 385	SNC-50	
63	21	51	16	32	21	16	305.9	2	320	174 386	SNC-63	
80	25	65	20	36	22	20	337.6	2	625	174 387	SNC-80	
100	25	75	20	41	27	20	372.3	2	830	174 388	SNC-100	
125	37	97	30	50	30	30	422.3	2	1 785	174 389	SNC-125	

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

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

Core Range

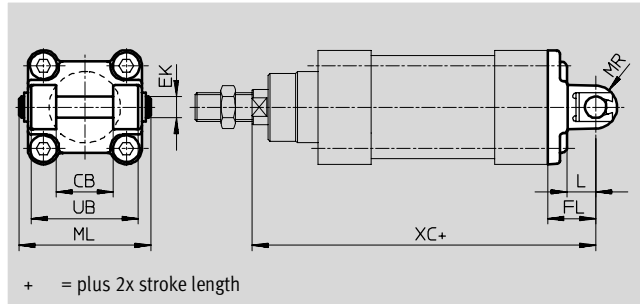
# Tandem cylinders DNCT, standard port pattern

Accessories



## Swivel flange SNCB

Material:  
Wrought aluminium alloy  
Free of copper, PTFE and silicone

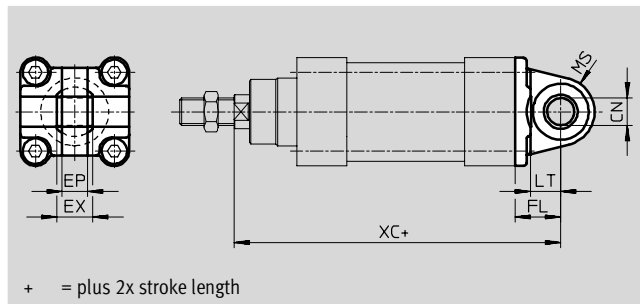
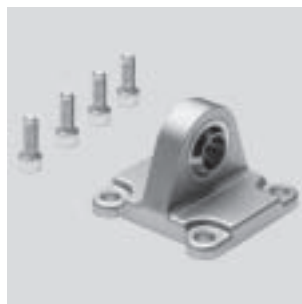


Dimensions and ordering data												
For $\varnothing$	CB	EK	FL	L	ML	MR	UB	XC	CRC <sup>1)</sup>	Weight	Part No.	Type
[mm]	H14	$\varnothing$ e8	$\pm 0.2$				h14			[g]		
32	26	10	22	13	55	10	45	221.6	2	100	174 390	SNCB-32
40	28	12	25	16	63	12	52	254.4	2	150	174 391	SNCB-40
50	32	12	27	16	71	12	60	268.1	2	225	174 392	SNCB-50
63	40	16	32	21	83	16	70	305.9	2	365	174 393	SNCB-63
80	50	16	36	22	103	16	90	337.6	2	610	174 394	SNCB-80
100	60	20	41	27	127	20	110	372.3	2	925	174 395	SNCB-100
125	70	25	50	30	148	25	130	422.3	2	1 785	174 396	SNCB-125

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

## Swivel flange SNCS

Material:  
Wrought aluminium alloy



Dimensions and ordering data											
For $\varnothing$	CN	EP	EX	FL	LT	MS	XC	CRC <sup>1)</sup>	Weight	Part No.	Type
[mm]	$\varnothing$	-0.2		$\pm 0.2$					[g]		
32	10	10.5	14	22	13	15	221.6	2	85	174 397	SNCS-32
40	12	12	16	25	16	17	254.4	2	125	174 398	SNCS-40
50	16	15	21	27	18	20	268.1	2	210	174 399	SNCS-50
63	16	15	21	32	21	22	305.9	2	280	174 400	SNCS-63
80	20	18	25	36	22	27	337.6	2	540	174 401	SNCS-80
100	20	18	25	41	27	29	372.3	2	700	174 402	SNCS-100
125	30	25	37	50	30	39	422.3	2	1 410	174 403	SNCS-125

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

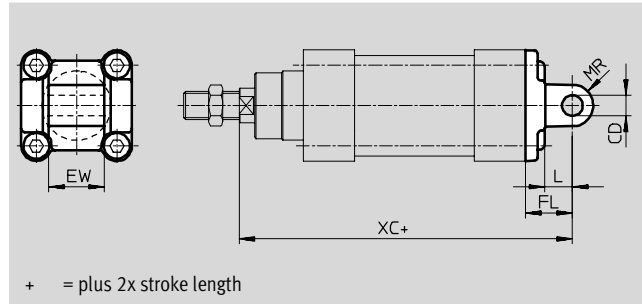
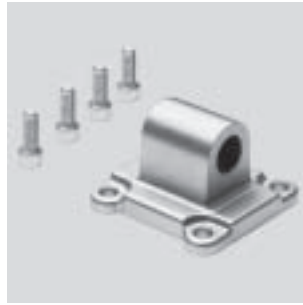
Core Range

# Tandem cylinders DNCT, standard port pattern

Accessories

## Swivel flange SNCL

Material:  
Wrought aluminium alloy  
Free of copper, PTFE and silicone



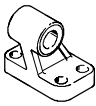
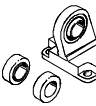
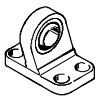

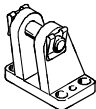
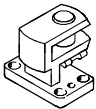
Dimensions and ordering data										
For $\varnothing$	CD $\varnothing$	EW	FL	L	MR	XC	CRC <sup>1)</sup>	Weight	Part No.	Type
[mm]		h14	$\pm 0.2$					[g]		
32	10	26	22	13	10	221.6	2	75	174 404	SNCL-32
40	12	28	25	16	12	254.4	2	100	174 405	SNCL-40
50	12	32	27	16	12	268.1	2	160	174 406	SNCL-50
63	16	40	32	21	16	305.9	2	250	174 407	SNCL-63
80	16	50	36	22	16	337.6	2	405	174 408	SNCL-80
100	20	60	41	27	20	372.3	2	655	174 409	SNCL-100
125	25	70	50	30	25	422.3	2	1 245	174 410	SNCL-125

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

# Tandem cylinders DNCT, standard port pattern

Accessories

FESTO

Ordering data – Mounting attachments				Technical data → 1 / 10.1-2			
Designation	For Ø	Part No.	Type	Designation	For Ø	Part No.	Type
<b>Clevis foot LNG</b>				<b>Clevis foot LSN</b>			
	32	33 890	LNG-32		32	5 561	LSN-32
	40	33 891	LNG-40		40	5 562	LSN-40
	50	33 892	LNG-50		50	5 563	LSN-50
	63	33 893	LNG-63		63	5 564	LSN-63
	80	33 894	LNG-80		80	5 565	LSN-80
	100	33 895	LNG-100		100	5 566	LSN-100
	125	33 896	LNG-125		125	6 987	LSN-125
<b>Clevis foot LSNG</b>				<b>Clevis foot LSNSG</b>			
	32	31 740	LSNG-32		32	31 747	LSNSG-32
	40	31 741	LSNG-40		40	31 748	LSNSG-40
	50	31 742	LSNG-50		50	31 749	LSNSG-50
	63	31 743	LSNG-63		63	31 750	LSNSG-63
	80	31 744	LSNG-80		80	31 751	LSNSG-80
	100	31 745	LSNG-100		100	31 752	LSNSG-100
	125	31 746	LSNG-125		125	31 753	LSNSG-125
<b>Clevis foot LBG</b>				<b>Right-angle clevis foot LQG</b>			
	32	31 761	LBG-32		32	31 768	LQG-32
	40	31 762	LBG-40		40	31 769	LQG-40
	50	31 763	LBG-50		50	31 770	LQG-50
	63	31 764	LBG-63		63	31 771	LQG-63
	80	31 765	LBG-80		80	31 772	LQG-80
	100	31 766	LBG-100		100	31 773	LQG-100
	125	31 767	LBG-125		125	31 774	LQG-125

Special-function drives  
Tandem/high-power cylinders

5.7





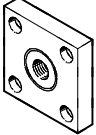
 Core Range




# Tandem cylinders DNCT, standard port pattern

Accessories

FESTO

Ordering data – Piston rod attachments				Data sheets → 1 / 10.3-2			
Designation	For Ø	Part No.	Type	Designation	For Ø	Part No.	Type
<b>Rod eye SGS</b>				<b>Rod clevis SGA</b>			
	32	9 261	SGS-M10x1,25		32	32 954	SGA-M10x1,25
	40	9 262	SGS-M12x1,25		40	10 767	SGA-M12x1,25
	50	9 263	SGS-M16x1,5		50	10 768	SGA-M16x1,5
	63				63		
	80	9 264	SGS-M20x1,5		80	10 769	SGA-M20x1,5
	100				100		
	125	10 774	SGS-M27x2		125	10 770	SGA-M27x2
<b>Rod clevis SG</b>				<b>Self-aligning rod coupler FK</b>			
	32	6 144	SG-M10x1,25		32	6 140	FK-M10x1,25
	40	6 145	SG-M12x1,25		40	6 141	FK-M12x1,25
	50	6 146	SG-M16x1,5		50	6 142	FK-M16x1,5
	63				63		
	80	6 147	SG-M20x1,5		80	6 143	FK-M20x1,5
	100				100		
	125	14 987	SG-M27x2-B		125	10 485	FK-M27x2
<b>Coupling piece KSG</b>							
	32	32 963	KSG-M10x1,25				
	40	32 964	KSG-M12x1,25				
	50	32 965	KSG-M16x1,5				
	63						
	80	32 966	KSG-M20x1,5				
	100						
	125	32 967	KSG-M27x2				

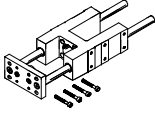
Ordering data – One-way flow control valves				Data sheets → Volume 2	
	Connection		Material	Part No.	Type
	Thread	For tubing O.D.			
	G $\frac{1}{8}$	3	Metal design	193 142	GRLA- $\frac{1}{8}$ -QS-3-D
		4		193 143	GRLA- $\frac{1}{8}$ -QS-4-D
		6		193 144	GRLA- $\frac{1}{8}$ -QS-6-D
		8		193 145	GRLA- $\frac{1}{8}$ -QS-8-D
	G $\frac{1}{4}$	6		193 146	GRLA- $\frac{1}{4}$ -QS-6-D
		8		193 147	GRLA- $\frac{1}{4}$ -QS-8-D
		10		193 148	GRLA- $\frac{1}{4}$ -QS-10-D
	G $\frac{3}{8}$	6		193 149	GRLA- $\frac{3}{8}$ -QS-6-D
		8		193 150	GRLA- $\frac{3}{8}$ -QS-8-D
		10		193 151	GRLA- $\frac{3}{8}$ -QS-10-D
	G $\frac{1}{2}$	12		193 152	GRLA- $\frac{1}{2}$ -QS-12-D

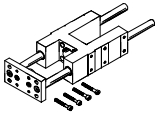
 Core Range

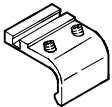
# Tandem cylinders DNCT, standard port pattern

Accessories

FESTO

Ordering data – Guide units for fixed strokes (recirculating ball bearing guide only)				Data sheets → 1 / 10.4-2		
	Stroke [mm]	Part No.	Type	Stroke [mm]	Part No.	Type
	For Ø 32 mm			For Ø 40 mm		
	10 ... 50	34 493	FENG-32-50-KF	10 ... 50	34 499	FENG-40-50-KF
	10 ... 100	34 494	FENG-32-100-KF	10 ... 100	34 500	FENG-40-100-KF
	10 ... 160	34 495	FENG-32-160-KF	10 ... 160	34 501	FENG-40-160-KF
	10 ... 200	34 496	FENG-32-200-KF	10 ... 200	34 502	FENG-40-200-KF
	10 ... 250	150 289	FENG-32-250-KF	10 ... 250	34 503	FENG-40-250-KF
	10 ... 320	34 497	FENG-32-320-KF	10 ... 320	34 504	FENG-40-320-KF
	10 ... 400	150 290	FENG-32-400-KF	10 ... 400	150 291	FENG-40-400-KF
	10 ... 500	34 498	FENG-32-500-KF	10 ... 500	34 505	FENG-40-500-KF
	For Ø 50 mm			For Ø 63 mm		
	10 ... 50	34 506	FENG-50-50-KF	10 ... 50	34 513	FENG-63-50-KF
	10 ... 100	34 507	FENG-50-100-KF	10 ... 100	34 514	FENG-63-100-KF
	10 ... 160	34 508	FENG-50-160-KF	10 ... 160	34 515	FENG-63-160-KF
	10 ... 200	34 509	FENG-50-200-KF	10 ... 200	34 516	FENG-63-200-KF
	10 ... 250	34 510	FENG-50-250-KF	10 ... 250	34 517	FENG-63-250-KF
	10 ... 320	34 511	FENG-50-320-KF	10 ... 320	34 518	FENG-63-320-KF
	10 ... 400	150 292	FENG-50-400-KF	10 ... 400	34 519	FENG-63-400-KF
	10 ... 500	34 512	FENG-50-500-KF	10 ... 500	34 520	FENG-63-500-KF
	For Ø 80 mm			For Ø 100 mm		
	10 ... 50	34 521	FENG-80-50-KF	10 ... 50	34 529	FENG-100-50-KF
	10 ... 100	34 522	FENG-80-100-KF	10 ... 100	34 530	FENG-100-100-KF
	10 ... 160	34 523	FENG-80-160-KF	10 ... 160	34 531	FENG-100-160-KF
	10 ... 200	34 524	FENG-80-200-KF	10 ... 200	34 532	FENG-100-200-KF
	10 ... 250	34 525	FENG-80-250-KF	10 ... 250	34 533	FENG-100-250-KF
	10 ... 320	34 526	FENG-80-320-KF	10 ... 320	34 534	FENG-100-320-KF
	10 ... 400	34 527	FENG-80-400-KF	10 ... 400	34 535	FENG-100-400-KF
	10 ... 500	34 528	FENG-80-500-KF	10 ... 500	34 536	FENG-100-500-KF




Ordering data – Guide units for variable strokes					Data sheets → 1 / 10.4-2	
	For Ø [mm]	Stroke [mm]	With recirculating ball bearing guide		With plain bearing guide	
			Part No.	Type	Part No.	Type
	32	10 ... 500	34 487	FENG-32-...-KF	34 481	FENG-32-...
	40	10 ... 500	34 488	FENG-40-...-KF	34 482	FENG-40-...
	50	10 ... 500	34 489	FENG-50-...-KF	34 483	FENG-50-...
	63	10 ... 500	34 490	FENG-63-...-KF	34 484	FENG-63-...
	80	10 ... 500	34 491	FENG-80-...-KF	34 485	FENG-80-...
	100	10 ... 500	34 492	FENG-100-...-KF	34 486	FENG-100-...




Ordering data – Mounting kit for proximity sensors SMT-8				Data sheets → 1 / 10.2-40	
	For Ø [mm]	Part No.	Type		
	32	175 705	SMB-8-FENG-32/40		
	40				
	50	175 706	SMB-8-FENG-50/63		
	63				
	80	175 707	SMB-8-FENG-80/100		
	100				





Core Range

# Tandem cylinders DNCT, standard port pattern

Accessories

Ordering data – Proximity sensor for slot type 8, magneto-resistive							Data sheets → 1 / 10.2-13		
Mounting	Switch output	Electrical connection			Cable length [m]	Part No.	Type		
		Cable	M8 plug	M12 plug					
<b>NO contact</b>									
	Insertable from above	PNP	3-core	–	–	2.5	525 898	SMT-8F-PS-24V-K2,5-OE	☉
		NPN	3-core	–	–	–	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	–	3-pin	–	–	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	
<b>NC contact</b>									
	Insertable from above	PNP	3-core	–	–	7.5	525 911	SMT-8F-PO-24V-K7,5-OE	☉

Ordering data – Proximity sensor for slot type 8, magnetic reed						Data sheets → 1 / 10.2-16	
Mounting	Electrical connection		Cable length [m]	Part No.	Type		
	Cable	M8 plug					
<b>NO contact</b>							
	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	
<b>NC contact</b>							
	Insertable from above	3-core	–	7.5	525 906	SME-8F-DO-24V-K7,5-OE	☉

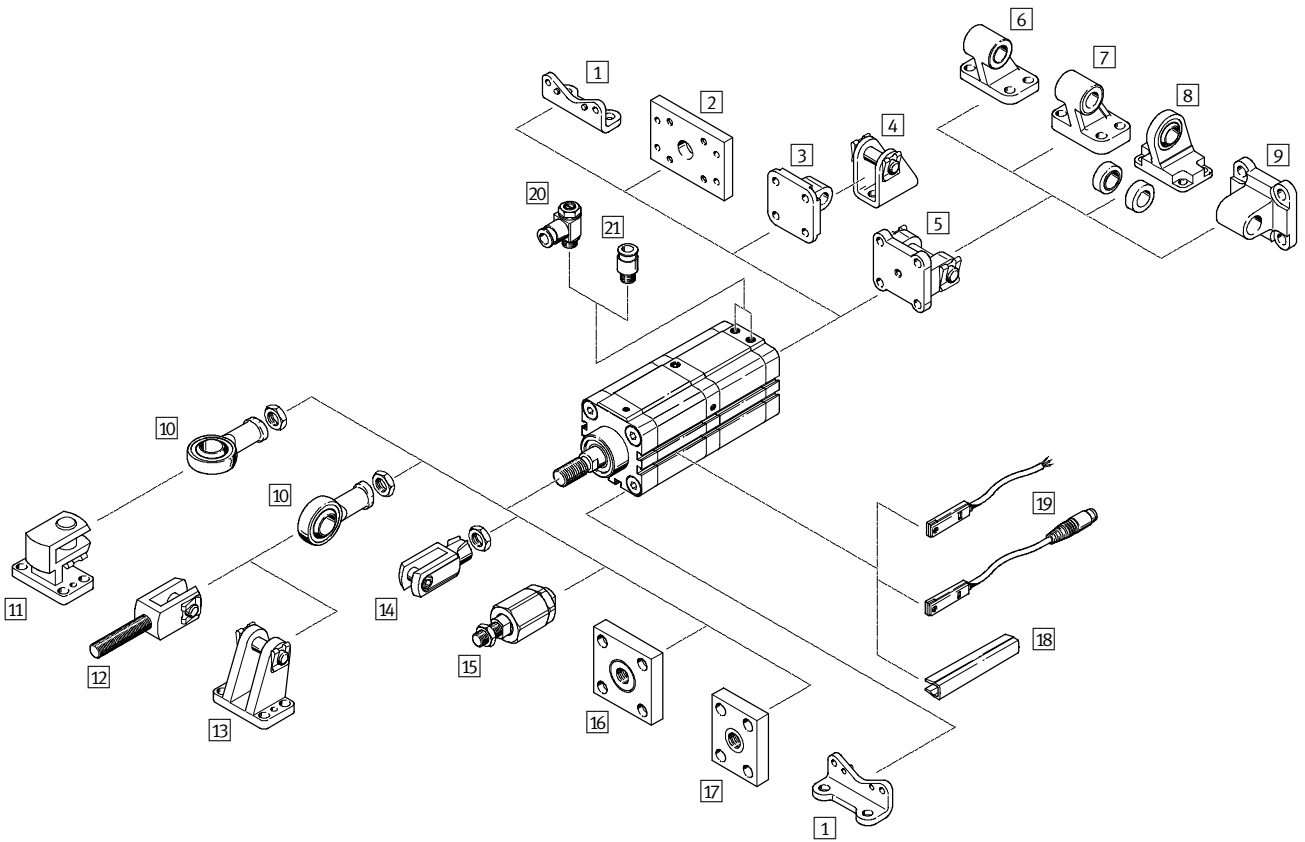
Ordering data – Plug sockets						Data sheets → 1 / 10.2-100	
Mounting	Switch output		Connection	Cable length [m]	Part No.	Type	
	PNP	NPN					
<b>Straight socket</b>							
	M8 union nut	■	■	3-pin	2.5	159 420	SIM-M8-3GD-2,5-PU
		■	■	3-pin	5	159 421	SIM-M8-3GD-5-PU
	M12 union nut	■	■	3-pin	2.5	159 428	SIM-M12-3GD-2,5-PU
		■	■	3-pin	5	159 429	SIM-M12-3GD-5-PU
<b>Angled socket</b>							
	M8 union nut	■	■	3-pin	2.5	159 422	SIM-M8-3WD-2,5-PU
		■	■	3-pin	5	159 423	SIM-M8-3WD-5-PU
	M12 union nut	■	■	3-pin	2.5	159 430	SIM-M12-3WD-2,5-PU
		■	■	3-pin	5	159 431	SIM-M12-3WD-5-PU

Ordering data – Slot cover for slot type 8			
Mounting	Length [m]	Part No.	Type
	Insertable from above	2x 0.5	151 680 ABP-5-S

■ Core Range

# Tandem cylinders ADVUT

Peripherals overview



Special-function drives  
Tandem/high-power cylinders

5.7

# Tandem cylinders ADVUT

Peripherals overview

FESTO

Mounting attachments and accessories					
	Brief description	Piston Ø 25 mm	Piston Ø 40, 63, 100 mm	→ Page	
1	Foot mounting HUA	For bearing and end caps	-	■	1 / 5.7-29
2	Flange mounting FUA	For end caps	■	■	1 / 5.7-30
3	Swivel flange SUA for Ø 25	For end caps	■	-	1 / 5.7-31
4	Clevis foot LBN	-	■	■	1 / 5.7-32
5	Swivel flange SUA for Ø 40, 63, 100	For end caps	-	■	1 / 5.7-31
6	Clevis foot LN	-	-	■	1 / 5.7-32
7	Clevis foot LNG	-	-	■	1 / 5.7-32
8	Clevis foot LSN	With spherical bearing	-	■	1 / 5.7-32
9	Swivel flange SNCL	-	-	■	1 / 5.7-32
10	Rod eye SGS	With spherical bearing	■	■	1 / 5.7-32
11	Right-angle clevis foot LQG	-	-	■	1 / 5.7-32
12	Rod clevis SGA	With male thread	■	■	1 / 5.7-32
13	Clevis foot LBG	-	-	■	1 / 5.7-32
14	Rod clevis SG	Permits a swivelling movement of the cylinder in one plane	■	■	1 / 5.7-32
15	Self-aligning rod coupler FK	For compensating radial and angular deviations	■	■	1 / 5.7-32
16	Coupling piece KSG	For compensating radial deviations	■	■	1 / 5.7-32
17	Coupling piece KSZ	For cylinders with a non-rotating piston rod to compensate for radial deviations	■	■	1 / 5.7-32
18	Slot cover ABP-5-S	To protect the sensor cable and keep dirt out of the sensor slots	■	■	1 / 5.7-33
19	Proximity sensor SME/SMT-8	Can be integrated in the cylinder profile barrel	■	■	1 / 5.7-33
20	One-way flow control valve GRLA	To regulate speed	■	■	1 / 5.7-34
21	Push-in fitting QS	For connecting compressed air tubing with standard external diameters to CETOP RP 54 P	■	■	Volume 3

# Tandem cylinders ADVUT

Type codes



ADVUT - 40 - 80 - A - P - A -

Type	
Double-acting	
ADVUT	Tandem cylinders

Piston $\varnothing$ [mm]
---------------------------

Stroke [mm]
-------------

Piston rod thread	
	Female thread
A	Male thread

Cushioning	
P	Non-adjustable at either end

Position sensing	
A	With proximity sensor

Variant	
S6	Heat-resistant up to 150°C

Special-function drives  
Tandem/high-power cylinders

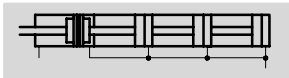
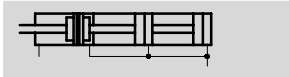
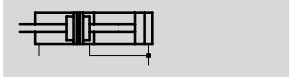
5.7

# Tandem cylinders ADVUT

Technical data

FESTO

## Function



## Variants



S6



- Diameter  
25, 40, 63, 100 mm
- Stroke length  
1 ... 150 mm
- [www.festo.com/en/  
Spare\\_parts\\_service](http://www.festo.com/en/Spare_parts_service)

General technical data					
Piston Ø		25	40	63	100
Pneumatic connection		M5	M5	G $\frac{1}{8}$	G $\frac{1}{4}$
End of piston rod	Female thread	M5	M8	M10	M12
	Male thread	M10x1.25	M12x1.25	M16x1.5	M20x1.5
Constructional design		Piston			
		Piston rod			
		Cylinder barrel			
Cushioning		Non-adjustable at either end			
Position sensing		With proximity sensor			
Type of mounting		With female thread			
		Via accessories			
Mounting position		Any			

Operating conditions					
Piston Ø		25	40	63	100
Operating medium		Filtered compressed air, lubricated or unlubricated			
Operating pressure [bar]	2 cylinders	1.1 ... 10		0.9 ... 10	
	3 cylinders	1.4 ... 10		1.2 ... 10	
	4 cylinders	1.7 ... 10		1.5 ... 10	

Ambient conditions		
Variant		Basic version
Ambient temperature <sup>1)</sup>	[°C]	-20 ... +80
Corrosion resistance class CRC <sup>2)</sup>		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.

# Tandem cylinders ADVUT

Technical data

FESTO

Forces [N] and impact energy [J]					
Piston Ø		25	40	63	100
Theoretical force at 6 bar, advancing <sup>1)</sup>	2 cylinders	542	1 387	3 552	9 130
	3 cylinders	789	2 020	5 234	13 548
	4 cylinders	1 037	2 653	6 916	17 966
Theoretical force at 6 bar, retracting		247	633	1 682	4 418
Max. impact energy at end positions		0.10	0.52	0.70	1.00

1) The force of the cylinders is only available up to 3 mm before the end position.

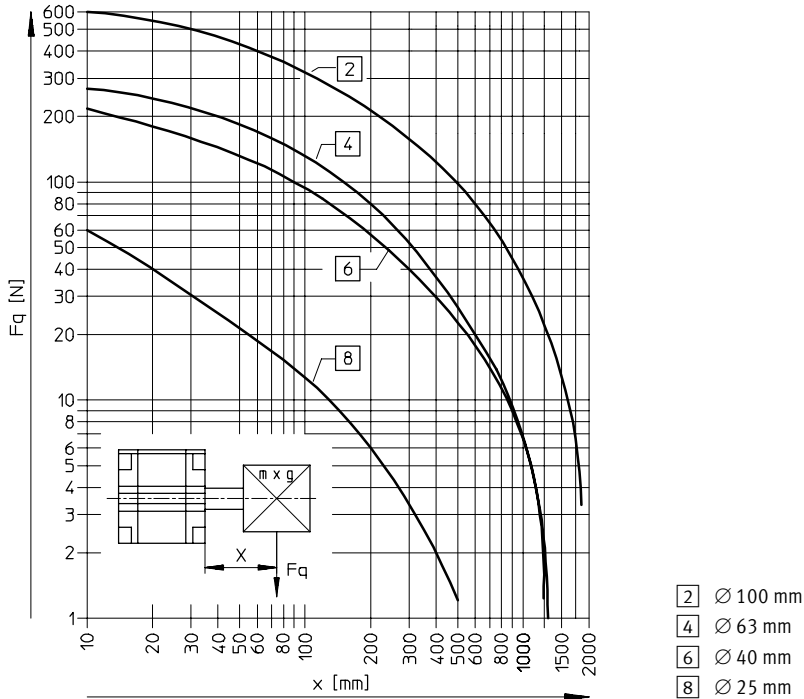
Weights [g]					
Piston Ø		25	40	63	100
<b>2 cylinders</b>					
Product weight at 0 mm stroke		375	825	1 200	5 250
Additional weight per 10 mm stroke		36	70	136	200
Moving load at 0 mm stroke		52	126	268	1 228
Additional load per 10 mm stroke		6	12	21	38
<b>3 cylinders</b>					
Product weight at 0 mm stroke		500	1 100	1 600	7 000
Additional weight per 10 mm stroke		36	69	134	200
Moving load at 0 mm stroke		78	189	402	1 842
Additional load per 10 mm stroke		6	11	19	38
<b>4 cylinders</b>					
Product weight at 0 mm stroke		625	1 375	2 000	8 750
Additional weight per 10 mm stroke		36	69	133	200
Moving load at 0 mm stroke		104	252	536	2 456
Additional load per 10 mm stroke		6	11	18	38



# Tandem cylinders ADVUT

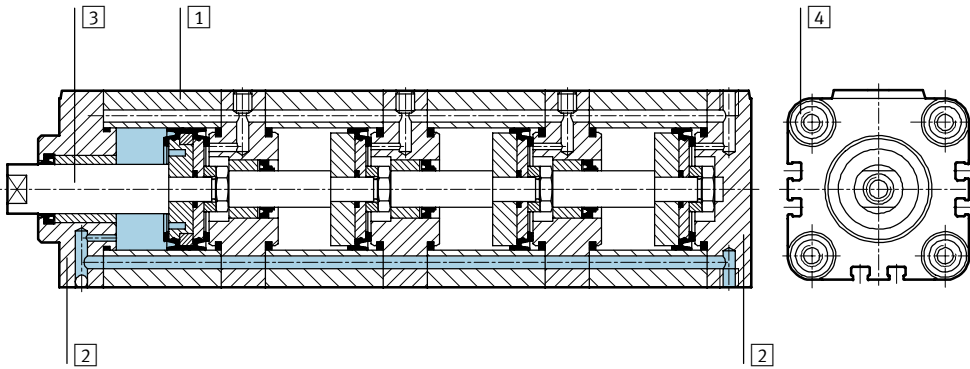
Technical data

## Max. lateral force $F_q$ as a function of projection $x$



## Materials

Sectional view



Variant	Basic version	S6
1 Cylinder barrel	Wrought aluminium alloy	Wrought aluminium alloy
2 Bearing and end cap	Wrought aluminium alloy	Wrought aluminium alloy
3 Piston rod	$\varnothing$ 25 High-alloy stainless steel $\varnothing$ 40, 63, 100 High-alloy steel	High-alloy stainless steel High-alloy steel
4 Flange screws	Tempered steel	Tempered steel
- Seals	Polyurethane, nitrile rubber	Fluorocarbon rubber

# Tandem cylinders ADVUT

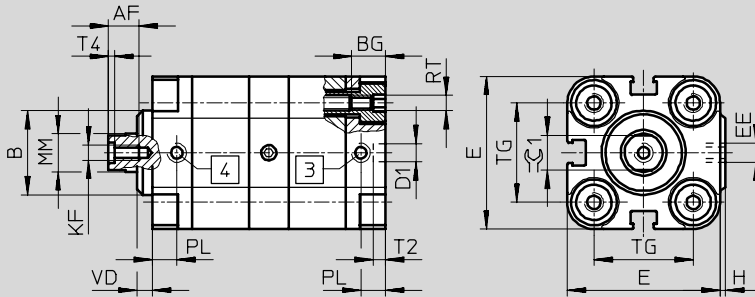
Technical data



## Dimensions – Basic cylinders

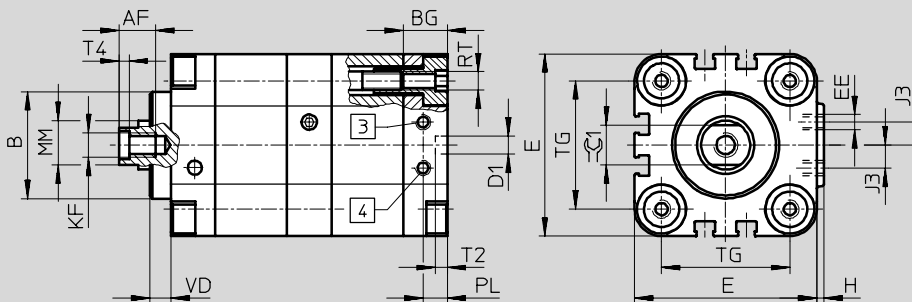
Download CAD data → [www.festo.com/en/engineering](http://www.festo.com/en/engineering)

Piston Ø 25 mm



- 3 Connection for cylinder advancing
- 4 Connection for cylinder retracting

Piston Ø 40, 63, 100 mm



- 3 Connection for cylinder advancing
- 4 Connection for cylinder retracting

Ø	AF	B	BG	D1	E	EE	H	J3	KF
[mm]		Ø		Ø H9					
25	10	22	19±0.5	6	40	M5	1.5	–	M5
40	12	35	22.2±0.5	6	60	M5	2.5	7.5	M8
63	16	42	26.5±0.5	8	87	G1/8	4	10.5	M10
100	20	55	33±0.5	8	128	G1/4	5	14.5	M12

Ø	MM	PL	RT	T2	T4	TG	VD	≈C1
[mm]	Ø			-0.2				h13
25	10	8	M5	4	2	26	4	9
40	16	8	M6	4	3.3	42	7	13
63	20	8	M10	4	4.7	62	11.5	17
100	25	10.5	M10	4	6.1	103	15	22

Special-function drives  
Tandem/high-power cylinders  
5.7

# Tandem cylinders ADVUT

Technical data

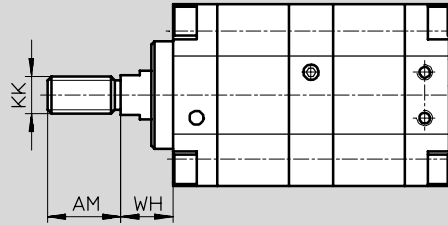
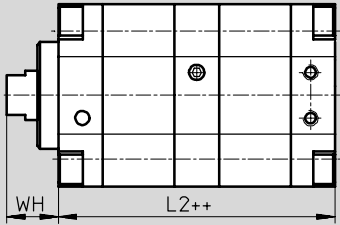


## Dimensions – Variants

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

### 2 cylinders

With male thread

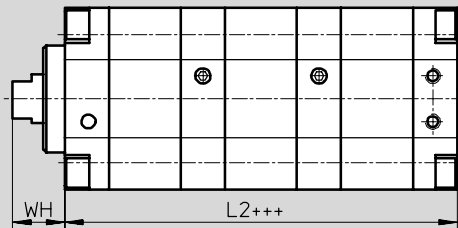


++ = plus 2x stroke length

- - Note

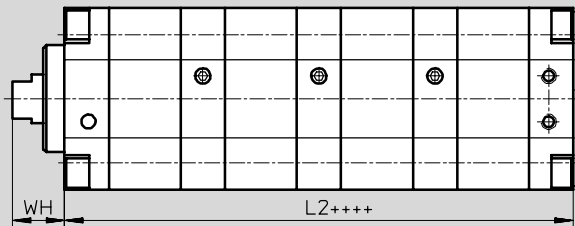
The piston rod with male thread is also available for the ADVUT variants comprising 3 or 4 cylinders.

### 3 cylinders



+++ = plus 3x stroke length

### 4 cylinders





++++ = plus 4x stroke length

∅ [mm]	AM	KK	L2			WH
			2 cylinders	3 cylinders	4 cylinders	
25	22	M10x1.25	78	110.5	143	11.5
40	24	M12x1.25	90.5	128.5	166.5	16.5
63	32	M16x1.5	100.5	143	185.5	21.5
100	40	M20x1.5	135.5	193.5	251.5	27

# Tandem cylinders ADVUT

Technical data

FESTO

Ordering data							
Type	Piston Ø [mm]	Stroke [mm]	Piston rod with female thread		Piston rod with male thread		
			Part No.	Type <sup>1)</sup>	Part No.	Type <sup>1)</sup>	
<b>Basic version</b>							
	2x 25	1 ... 150	161 138	ADVUT-25x2-...-P-A	197 265	ADVUT-25x2-...-A-P-A	
	3x 25	1 ... 150	161 139	ADVUT-25x3-...-P-A	197 266	ADVUT-25x3-...-A-P-A	
	4x 25	1 ... 150	161 140	ADVUT-25x4-...-P-A	197 267	ADVUT-25x4-...-A-P-A	
	2x 40	1 ... 150	159 491	ADVUT-40x2-...-P-A	197 268	ADVUT-40x2-...-A-P-A	
	3x 40	1 ... 150	159 492	ADVUT-40x3-...-P-A	197 269	ADVUT-40x3-...-A-P-A	
	4x 40	1 ... 150	159 493	ADVUT-40x4-...-P-A	197 270	ADVUT-40x4-...-A-P-A	
	2x 63	1 ... 150	161 141	ADVUT-63x2-...-P-A	197 271	ADVUT-63x2-...-A-P-A	
	3x 63	1 ... 150	161 142	ADVUT-63x3-...-P-A	197 272	ADVUT-63x3-...-A-P-A	
	4x 63	1 ... 150	161 143	ADVUT-63x4-...-P-A	197 273	ADVUT-63x4-...-A-P-A	
	2x 100	1 ... 150	161 144	ADVUT-100x2-...-P-A	197 274	ADVUT-100x2-...-A-P-A	
	3x 100	1 ... 150	161 145	ADVUT-100x3-...-P-A	197 275	ADVUT-100x3-...-A-P-A	
	4x 100	1 ... 150	161 146	ADVUT-100x4-...-P-A	197 276	ADVUT-100x4-...-A-P-A	
	<b>S6 – Heat-resistant up to 150 °C</b>						
		2x 25	1 ... 150	197 281	ADVUT-25x2-...-P-A-S6	197 297	ADVUT-25x2-...-A-P-A-S6
3x 25		1 ... 150	197 282	ADVUT-25x3-...-P-A-S6	197 298	ADVUT-25x3-...-A-P-A-S6	
4x 25		1 ... 150	197 283	ADVUT-25x4-...-P-A-S6	197 299	ADVUT-25x4-...-A-P-A-S6	
2x 40		1 ... 150	197 284	ADVUT-40x2-...-P-A-S6	197 300	ADVUT-40x2-...-A-P-A-S6	
3x 40		1 ... 150	197 285	ADVUT-40x3-...-P-A-S6	197 301	ADVUT-40x3-...-A-P-A-S6	
4x 40		1 ... 150	197 286	ADVUT-40x4-...-P-A-S6	197 302	ADVUT-40x4-...-A-P-A-S6	
2x 63		1 ... 150	197 287	ADVUT-63x2-...-P-A-S6	197 303	ADVUT-63x2-...-A-P-A-S6	
3x 63		1 ... 150	197 288	ADVUT-63x3-...-P-A-S6	197 304	ADVUT-63x3-...-A-P-A-S6	
4x 63		1 ... 150	197 289	ADVUT-63x4-...-P-A-S6	197 305	ADVUT-63x4-...-A-P-A-S6	
2x 100		1 ... 150	197 290	ADVUT-100x2-...-P-A-S6	197 306	ADVUT-100x2-...-A-P-A-S6	
3x 100		1 ... 150	197 291	ADVUT-100x3-...-P-A-S6	197 307	ADVUT-100x3-...-A-P-A-S6	
4x 100		1 ... 150	197 292	ADVUT-100x4-...-P-A-S6	197 308	ADVUT-100x4-...-A-P-A-S6	

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

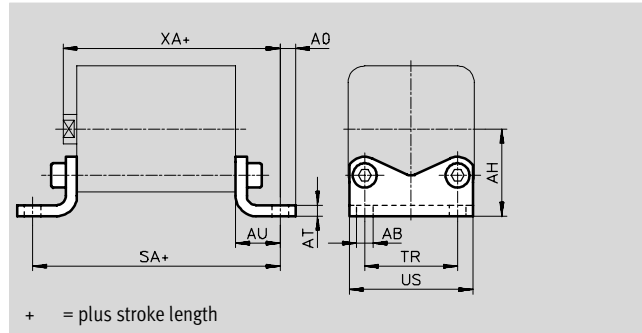
# Tandem cylinders ADVUT

Accessories



## Foot mounting HUA

Material:  
Galvanised steel  
Free of copper, PTFE and silicone



Dimensions and ordering data									
For $\varnothing$	AB $\varnothing$	AH	A0	AT	AU	SA			TR
						2 cylinders <sup>1)</sup>	3 cylinders <sup>2)</sup>	4 cylinders <sup>3)</sup>	
25	6,6	29	6,25	4	16	110	142,5	175	26
40	9	40,5	8,25	5	20	130,5	168,5	206,5	42
63	11	56.5	11.75	6	27	154.5	197	239.5	62
100	13.5	81	11.75	8	33	201.5	259.5	317.5	103

For $\varnothing$	US	XA			CRC <sup>4)</sup>	Weight [g]	Part No.	Type
		2 cylinders <sup>1)</sup>	3 cylinders <sup>2)</sup>	4 cylinders <sup>3)</sup>				
25	38	105,5	138	170,5	2	90	157 311	HUA-25
40	58	127	165	203	2	201	157 313	HUA-40
63	85	149	191.5	234	2	550	157 315	HUA-63
100	126	195.5	253.5	311.5	2	1 050	157 317	HUA-100

- 1) plus 2x stroke length
- 2) plus 3x stroke length
- 3) plus 4x stroke length
- 4) 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.

Core Range

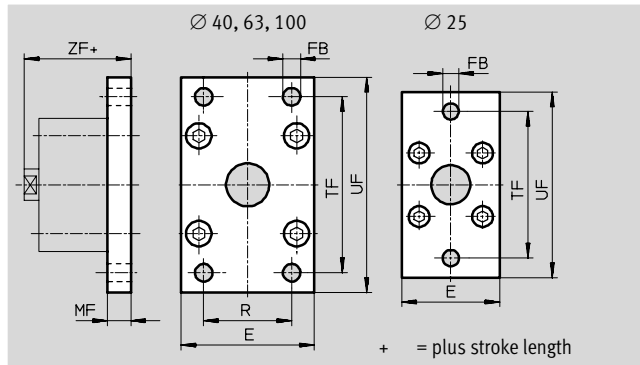
# Tandem cylinders ADVUT

Accessories



## Flange mounting FUA

Material:  
Clear anodised aluminium



Dimensions and ordering data													
For Ø	E	FB Ø	MF	R	TF	UF	ZF			CRC <sup>4)</sup>	Weight [g]	Part No.	Type
							2 cylinders <sup>1)</sup>	3 cylinders <sup>2)</sup>	4 cylinders <sup>3)</sup>				
25	40	6.6	10	–	60	76	99.5	132	164.5	2	87	157 301	FUA-25
40	60	9	10	36	82	102	117	155	193	2	180	157 303	FUA-40
63	87	9	15	50	110	130	137	179.5	222	2	550	157 305	FUA-63
100	128	14	15	75	163	190	177.5	235.5	293.5	2	1 035	157 307	FUA-100

- 1) plus 2x stroke length
- 2) plus 3x stroke length
- 3) plus 4x stroke length
- 4) 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.

Special-function drives  
Tandem/high-power cylinders

5.7

Core Range

# Tandem cylinders ADVUT

Accessories

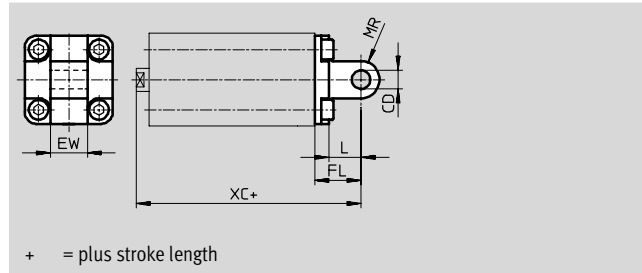


## Swivel flange SUA for piston $\varnothing$ 25 mm

Material:  
Anodised aluminium  
Free of copper, PTFE and silicone



$\varnothing$  25 mm

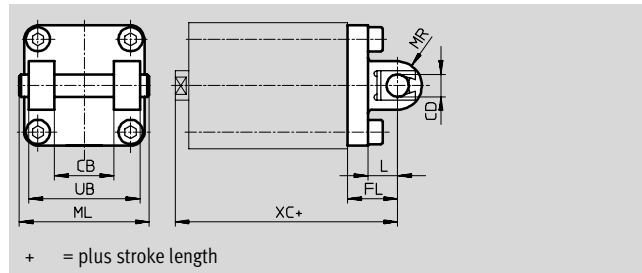


## for piston $\varnothing$ 40, 63, 100 mm

Material:  
Anodised aluminium  
Free of copper, PTFE and silicone



$\varnothing$  40, 63, 100 mm



Dimensions and ordering data								
For $\varnothing$	CB	CD $\varnothing$	EW	FL	L	ML	MR	UB
25	-	8	16	20	14	-	8	-
40	28	12	-	25	16	62	12	52
63	40	16	-	32	21	82	16	70
100	60	20	-	41	26	126	20	110

For $\varnothing$	XC			Weight [g]	Part No.	Type
	2 cylinders <sup>1)</sup>	3 cylinders <sup>2)</sup>	4 cylinders <sup>3)</sup>			
25	109.5	142	174.5	86	157 321	SUA-25
40	132	170	208	320	157 323	SUA-40
63	154	196.5	239	760	157 325	SUA-63
100	203.5	261.5	319.5	1 900	157 327	SUA-100

- 1) plus 2x stroke length
- 2) plus 3x stroke length
- 3) plus 4x stroke length

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

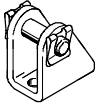
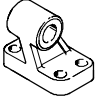
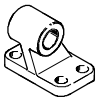
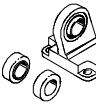
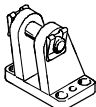
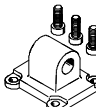
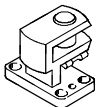
For $\varnothing$	Max. stroke length [mm]
25	50
40	100
63	100
100	150





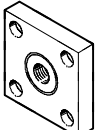
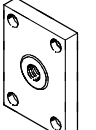
Core Range

# Tandem cylinders ADVUT

Accessories


FESTO

Ordering data – Mounting attachments				Technical data → 1 / 10.1-2			
Designation	For Ø	Part No.	Type	Designation	For Ø	Part No.	Type
<b>Clevis foot LBN</b>				<b>Clevis foot LNG</b>			
	25	6 059	LBN-20/25		40	33 891	LNG-40
	40	195 861	LBN-40		63	33 893	LNG-63
	63	195 862	LBN-50/63		100	33 895	LNG-100
<b>Clevis foot LN</b>				<b>Clevis foot LSN</b>			
	40	5 148	LN-40		40	5 562	LSN-40
	63	5 150	LN-63		63	5 564	LSN-63
	100	5 152	LN-100		100	5 566	LSN-100
<b>Clevis foot LBG</b>				<b>Swivel flange SNCL</b>			
	40	31 762	LBG-40		40	174 405	SNCL-40
	63	31 764	LBG-63		63	174 407	SNCL-63
	100	31 766	LBG-100		100	174 409	SNCL-100
<b>Right-angle clevis foot LQG</b>							
	40	31 769	LQG-40				
	63	31 771	LQG-63				
	100	31 773	LQG-100				

Ordering data – Piston rod attachments				Data sheets → 1 / 10.3-3			
Designation	For Ø	Part No.	Type	Designation	For Ø	Part No.	Type
<b>Rod eye SGS</b>				<b>Rod clevis SGA</b>			
	25	9 261	SGS-M10x1,25		25	32 954	SGA-M10x1,25
	40	9 262	SGS-M12x1,25		40	10 767	SGA-M12x1,25
	63	9 263	SGS-M16x1,5		63	10 768	SGA-M16x1,5
	100	9 264	SGS-M20x1,5		100	10 769	SGA-M20x1,5
<b>Rod clevis SG</b>				<b>Self-aligning rod coupler FK</b>			
	25	6 144	SG-M10x1,25		25	6 140	FK-M10x1,25
	40	6 145	SG-M12x1,25		40	6 141	FK-M12x1,25
	63	6 146	SG-M16x1,5		63	6 142	FK-M16x1,5
	100	6 147	SG-M20x1,5		100	6 143	FK-M20x1,5
<b>Coupling piece KSG</b>				<b>Coupling piece KSZ</b>			
	25	32 963	KSG-M10x1,25		25	36 125	KSZ-M10x1,25
	40	32 964	KSG-M12x1,25		40	36 126	KSZ-M12x1,25
	63	32 965	KSG-M16x1,5		63	36 127	KSZ-M16x1,5
	100	32 966	KSG-M20x1,5		100	36 128	KSZ-M20x1,5

Special-function drives  
Tandem/high-power cylinders

5.7




 Core Range










# Tandem cylinders ADVUT

Accessories

FESTO

Ordering data – Proximity sensor for slot type 8, magneto-resistive							Data sheets → 1 / 10.2-13		
	Mounting	Switch output	Electrical connection			Cable length [m]	Part No.	Type	
			Cable	M8 plug	M12 plug				
<b>NO contact</b>									
	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	
<b>NC contact</b>									
	Insertable from above	PNP	3-core	–	–	7.5	525 911	SMT-8F-PO-24V-K7,5-OE	☉

Ordering data – Proximity sensor for slot type 8, magnetic reed						Data sheets → 1 / 10.2-16	
	Mounting	Electrical connection		Cable length [m]	Part No.	Type	
		Cable	M8 plug				
<b>NO contact</b>							
	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	
<b>NC contact</b>							
	Insertable from above	3-core	–	7.5	525 906	SME-8F-DO-24V-K7,5-OE	☉

Ordering data – Plug sockets						Data sheets → 1 / 10.2-100	
	Mounting	Switch output		Connection	Cable length [m]	Part No.	Type
		PNP	NPN				
<b>Straight socket</b>							
	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
<b>Angled socket</b>							
	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 slot type 8			
	Mounting	Length [m]	Part No. Type
	Insertable from above	2x 0.5	151 680 ABP-5-S

■ Core Range

# Tandem cylinders ADVUT

Accessories

**FESTO**

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
	G1/8	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
	G1/4	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