

- Electromechanical linear axis with piston rod
- Standard port pattern to ISO 15552
- Linear drive with lead screw or ball screw
- Axial or parallel motor interface
- Comprehensive range of accessories from the DNC modular system

Electric cylinders DNCE, with piston rod

Key features

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Key features at a glance

General information

The electric cylinder DNCE is a mechanical linear axis with piston rod. The drive component consists of an electrically driven spindle, which converts the rotation of the motor into the linear motion of the piston rod.

The mechanical interfaces are largely compatible with the standard cylinder DNC.

Features

- Choice of spindle type:
 - with lead screw (LS)
 - with ball screw (BS)
- Electric piston rod cylinder with lead screw is self-retarding
- Compact dimensions

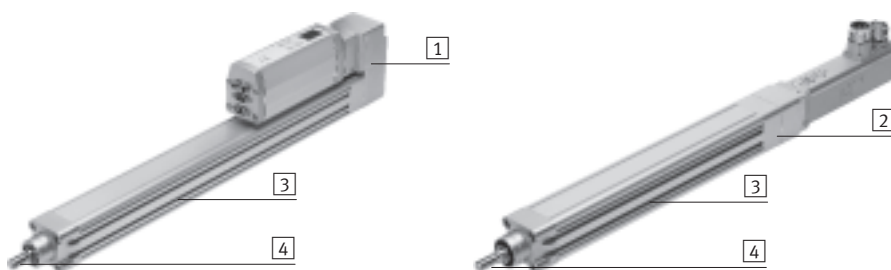
Range of applications

- Electric cylinder with lead screw
 - For applications with slow feed speeds
- Electric cylinder with ball screw
 - For applications with high feed speeds and high running performance

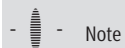
Entire system consists of electric cylinder, motor and motor mounting kit

Electric piston rod cylinder

→ 5 / 2.1-12



- 1 Parallel kit
- 2 Axial kit
- 3 Slot for proximity sensor
- 4 Options:
 - linear drive with lead screw (LS)
 - linear drive with ball screw (BS)



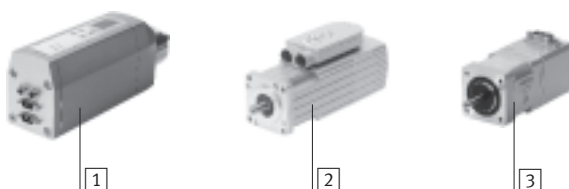
Note

The linear drive with lead screw is self-retarding, which means that slow movements cannot be excluded in the event of vibration.

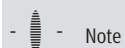
The entire system with intelligent motor unit MTR-DCI is self-locking.

Motor/motor unit

→ 5 / 2.1-23



- 1 Intelligent motor unit MTR-DCI
- 2 Servo motor EMMS-AS, MTR-AC
- 3 Stepper motor EMMS-ST, MTR-ST



Note

A range of specially adapted complete solutions is available for the electric

piston rod cylinder DNCE and the motors/motor units.

Motor mounting kit

→ 5 / 2.1-23

Axial kit

Parallel kit



There are complete kits for both parallel and axial motor attachment.

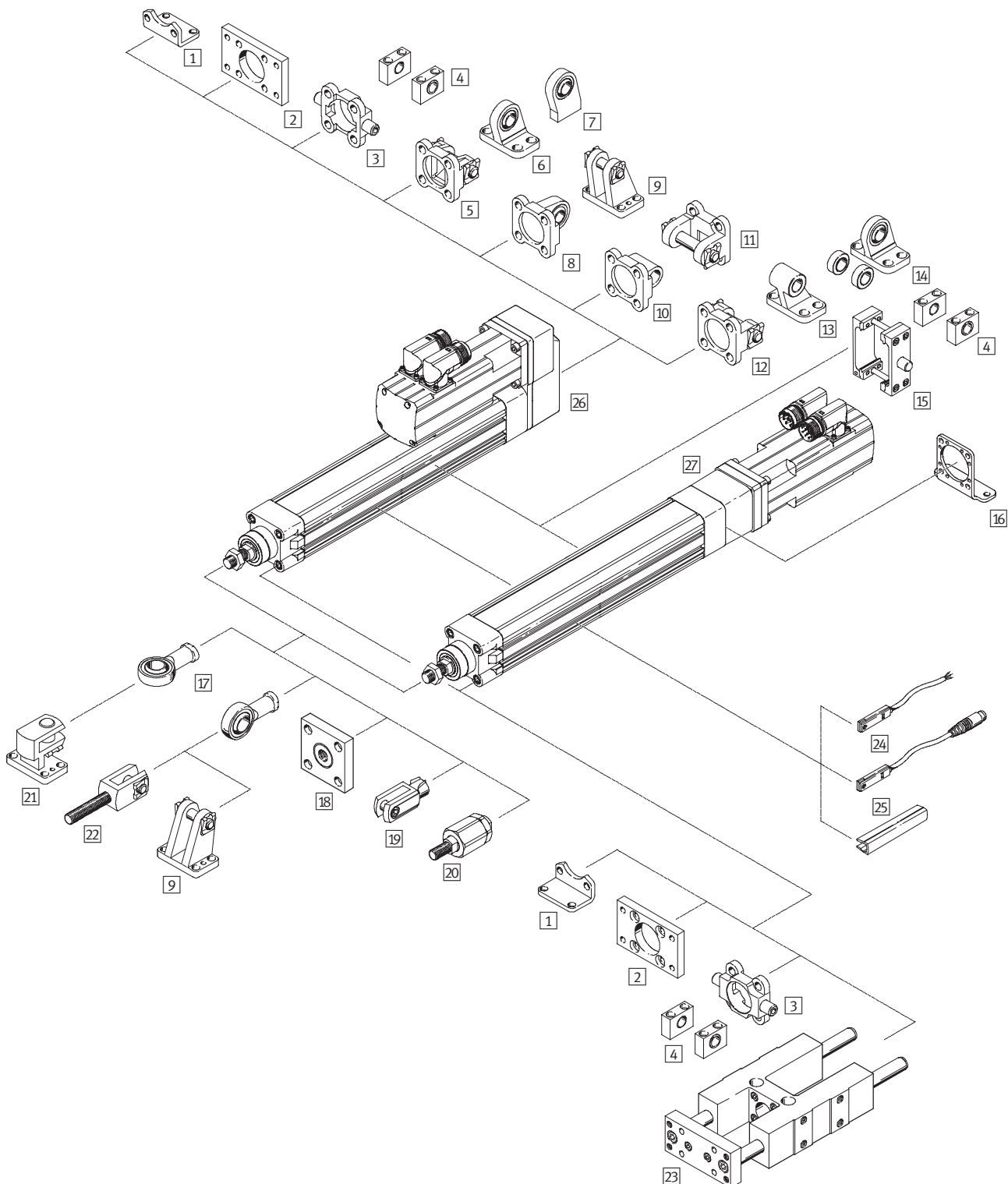
Electric cylinders DNCE, with piston rod

Type codes

		DNCE	–	32	–	100	–	LS	–	"1,5"P	–	Q
Type												
DNCE	Electric piston rod cylinder											
Size												
Stroke [mm]												
Drive function												
LS	Linear drive with lead screw											
BS	Linear drive with ball screw											
Spindle pitch [mm]												
Protection against rotation												
Q	Non-rotating piston rod											

Electric cylinders DNCE, with piston rod

Peripherals overview



Electric cylinders DNCE, with piston rod

Peripherals overview

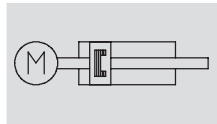
Mounting attachments and accessories		
	Brief description	→ Page
1	Foot mounting HNC/CRHNC – With parallel motor attachment for bearing and gear unit end caps – With axial motor attachment for bearing end caps	5 / 2.1-30
2	Flange mounting FNC/CRFNG – With parallel motor attachment for bearing and gear unit end caps – With axial motor attachment for bearing end caps	5 / 2.1-31
3	Trunnion flange ZNC/CRZNG – With parallel motor attachment for bearing and gear unit end caps – With axial motor attachment for bearing end caps	5 / 2.1-32
4	Trunnion support LNZG/CRLNZG For cylinders with trunnion mounting	5 / 2.1-33
5	Swivel flange SNC With parallel motor attachment	5 / 2.1-34
6	Clevis foot LSNG With parallel motor attachment, with spherical bearing	5 / 2.1-37
7	Clevis foot LSNSG With parallel motor attachment, weld-on, with spherical bearing	5 / 2.1-37
8	Swivel flange SNCS With parallel motor attachment, with spherical bearing	5 / 2.1-34
9	Clevis foot LBG With parallel motor attachment, with spherical bearing	5 / 2.1-37
10	Swivel flange SNCL With parallel motor attachment	5 / 2.1-35
11	Swivel flange SNCB/SNCB-...-R3 With parallel motor attachment, with spherical bearing	5 / 2.1-36
12	Swivel flange SNCB/SNCB-...-R3 With parallel motor attachment	5 / 2.1-36
13	Clevis foot LNG/CRLNG With parallel motor attachment	5 / 2.1-37
14	Clevis foot LSN With parallel motor attachment, with spherical bearing	5 / 2.1-37
15	Trunnion mounting kit ZNCM For mounting anywhere along the cylinder profile barrel. Cannot be mounted in the vicinity of the motor with parallel motor attachment	5 / 2.1-37
16	Foot mounting HNCE With axial motor attachment	5 / 2.1-29
17	Rod eye SGS/CRSGS With spherical bearing	5 / 2.1-38
18	Coupling piece KSZ To compensate for radial deviations	5 / 2.1-38
19	Rod clevis SG/CRSG Permits a swivelling movement of the cylinder in one plane	5 / 2.1-38
20	Self-aligning rod coupler FK To compensate for radial and angular deviations	5 / 2.1-38
21	Clevis foot LQG For rod eye SGS	5 / 2.1-38
22	Rod clevis SGA For swivel attachment of cylinders	5 / 2.1-38
23	Guide unit FENG For protecting standard cylinders against rotation at high torque loads	5 / 2.1-38
24	Proximity sensor SME/SMT-8 For position sensing. Can be integrated in sensor slot, thus no projecting parts	5 / 2.1-39
25	Slot cover ABP-5-S For protecting against the ingress of dirt	5 / 2.1-39
26	Parallel kit EAMM-U For parallel motor attachment	5 / 2.1-23
27	Axial kit EAMM-A For axial motor attachment	5 / 2.1-23

Electric cylinders DNCE, with piston rod

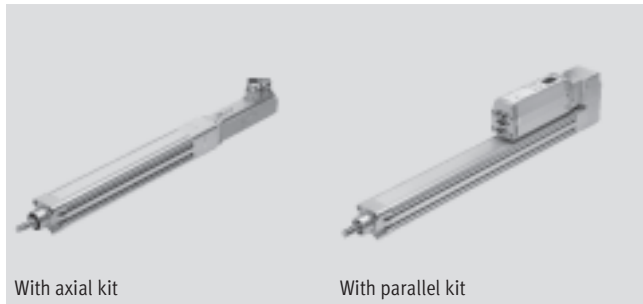
Technical data

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Function



- Ø - Size
32 ... 63
- I - Stroke length
1 ... 800 mm
- T - [www.festo.com/en/
Spare_parts_service](http://www.festo.com/en/Spare_parts_service)



General technical data				
Size	32	40	63	
Constructional design	LS	With lead screw		
	BS	With ball screw		
Piston rod thread	M10x1.25	M12x1.25	M16x1.5	
Working stroke	1 ... 400	1 ... 600	1 ... 800	
Variant	Non-rotating piston rod			
Protection against torsion/guide	Plain bearing guide			
Stroke reserve [mm]	0			
Max. angle of rotation at the piston rod [°]	±0.30	±0.25	±0.20	
Impact energy (E) at the end positions [J]	0.0001 $E = 0.5 \times m \times v^2$	0.0002 $E = 0.5 \times m \times v^2$	0.0004 $E = 0.5 \times m \times v^2$	
Duty cycle ¹⁾ [%]	100			
Position sensing	Via proximity sensor			
Type of mounting	Via female threads			
	Via accessories			
Mounting position	Any			

1) In the case of the variant with lead screw (LS), the duty cycle depends on the speed

Mechanical data									
Size	32	40	63						
Spindle design	LS-"1,5"P	BS-"3"P	BS-"10"P	LS-"2,5"P	BS-"5"P	BS-"12,7"P	LS-"4"P	BS-"10"P	BS-"20"P
Spindle pitch [mm/rev.]	1.5	3	10	2.5	5	12.7	4	10	20
Spindle diameter [mm]	9	10	10	12.5	12	12.7	20	20	20
Max. static axial force [N]	600	600	600	1,400	1,400	1,400	3,700	3,700	3,700
Max. feed force $F_x^{1)}$ [N]	300	300	350	600	525	800	1,000	2,500	1,625
Continuous feed force ¹⁾ [N]	300	240	280	600	420	640	1,000	2,000	1,300
Max. driving torque ²⁾ [Nm]	0.4	0.4	0.8	1.15	0.9	1.9	3	4.9	5.9
No-load driving torque with axial kit ³⁾ [Nm]	0.08	0.08	0.08	0.12	0.12	0.12	0.3	0.2	0.2
No-load driving torque with parallel kit ³⁾ [Nm]	0.13	0.13	0.13	0.22	0.22	0.22	0.6	0.5	0.5
Continuous driving torque [Nm]	0.4	0.3	0.6	1.15	0.8	1.6	3	4.1	4.8
Max. radial force on drive shaft [N]	120	120	120	260	260	260	300	300	300
Max. speed [m/s]	0.06	0.15	0.5	0.07	0.25	0.64	0.07	0.5	1.0
Max. rotational speed	2,400	3,000	3,000	1,650	3,000	3,000	1,050	3,000	3,000
Max. acceleration [m/s ²]	1	6	6	1	6	6	1	6	6
Reversing backlash ⁴⁾ [mm]	0.2	0.05	0.05	0.2	0.05	0.05	0.2	0.05	0.05
Repetition accuracy [mm]	±0.07	±0.02	±0.02	±0.07	±0.02	±0.02	±0.07	±0.02	±0.02

1) The feed force in the case of the variant with lead screw (LS) depends on the speed → 5 / 2.1-15

The feed force in the case of the variant with ball screw (BS) → 5 / 2.1-13

2) The driving torque in the case of the variant with lead screw (LS) depends on the rotational speed → 5 / 2.1-16

3) Measured at a speed of 200 rpm

4) In new condition

Electric cylinders DNCE, with piston rod

Technical data

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Operating and environmental conditions		
Ambient temperature ¹⁾²⁾	[°C]	0 ... 50
Storage temperature	[°C]	-25 ... +60
Protection class ²⁾		IP40
Relative air humidity	[%]	0 ... 95

- 1) Note operating range of proximity sensors and motors
2) Higher protection class and other ambient conditions on request

Weight [g]									
Size	32			40			63		
Spindle design	LS-"1,5"P	BS-"3"P	BS-"10"P	LS-"2,5"P	BS-"5"P	BS-"12,7"P	LS-"4"P	BS-"10"P	BS-"20"P
Basic weight with 0 mm stroke	720	750	770	1,210	1,270	1,350	2,790	3,010	3,010
Additional weight per 10 mm stroke	32.4	33	33.6	46.1	45.5	46.7	79.8	81.2	81.2
Moving load with 0 mm stroke	150	170	200	250	310	380	600	810	810
Moving load per 10 mm stroke	6.9	6.9	6.9	8.9	8.9	8.9	12.8	12.8	12.8

Mass moment of inertia										
Size	32			40			63			
Spindle design	LS-"1,5"P	BS-"3"P	BS-"10"P	LS-"2,5"P	BS-"5"P	BS-"12,7"P	LS-"4"P	BS-"10"P	BS-"20"P	
J ₀ with 0 mm stroke	[kg cm ²]	0.0433	0.0439	0.0446	0.1316	0.1304	0.1337	0.7565	0.7626	0.7624
j _H per metre stroke	[kg cm ² /m]	0.0361	0.0476	0.0595	0.1341	0.1163	0.1572	0.8176	0.9090	0.9103
j _L per kg working load	[kg cm ² /Kg]	0.0006	0.0023	0.0253	0.0016	0.0063	0.0409	0.0041	0.0253	0.1013

The mass moment of inertia J_A of the electric cylinder is calculated as follows:

$$J_A = J_0 + j_H \times \text{working stroke [m]} + j_L \times m_{\text{working load [kg]}}$$

Calculation of the feed force F_{xm} for the electric cylinder DNCE with ball screw (BS)

The peak feed force value must not exceed the maximum feed force within a movement cycle. In the case of vertical operation, the peak value is generally

achieved during the acceleration phase of the upwards stroke. If the maximum feed force is exceeded, this can increase wear and thus shorten

the service life of the ball screw. The maximum speed must likewise not be exceeded.

$$F_x \leq F_{x\max.}$$

and

$$v_x \leq v_{x\max.}$$

Mean feed force (to DIN 69 051-4)

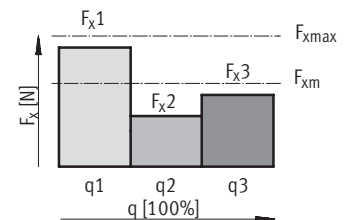
During operation, the continuous feed force may be briefly exceeded up to the maximum feed force. The

continuous feed force must, however, be adhered to when averaged over a movement cycle.

$$F_{xm} \leq F_{xdauer}$$

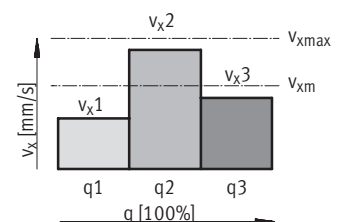
$$F_{xm} = \sqrt[3]{\sum F_x^3 \times \frac{v_x}{v_{xm}} \times \frac{q}{100}} =$$

$$F_{xm} = \sqrt[3]{F_{x1}^3 \times \frac{v_{x1}}{v_{xm}} \times \frac{q_1}{100} + F_{x2}^3 \times \frac{v_{x2}}{v_{xm}} \times \frac{q_2}{100} + F_{x3}^3 \times \frac{v_{x3}}{v_{xm}} \times \frac{q_3}{100} + \dots}$$



Mean feed speed (to DIN 69 051-4)

$$v_{xm} = \sum v_x \times \frac{q}{100} = v_{x1} \times \frac{q_1}{100} + v_{x2} \times \frac{q_2}{100} + v_{x3} \times \frac{q_3}{100} + \dots$$



F _x	Feed force	v _x	Feed speed
F _{xm}	Mean feed force	v _{xm}	Mean feed speed
F _{xmax.}	Max. feed force	v _{xmax.}	Max. feed speed
F _{xcont.}	Continuous feed force		
q	Time		

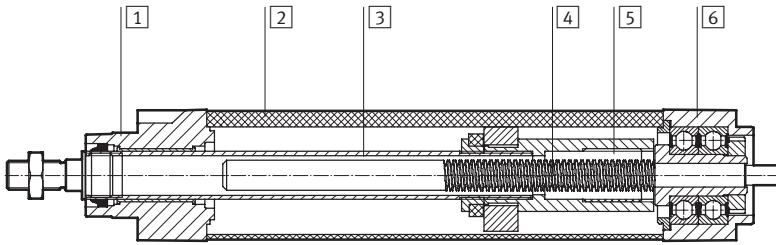
Electric cylinders DNCE, with piston rod

Technical data

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Materials

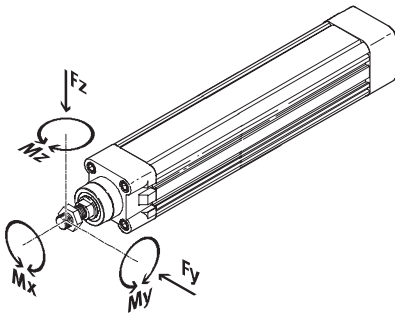
Sectional view



Electric cylinder

1	Bearing cap	Die-cast aluminium, painted
2	Cylinder barrel	Wrought aluminium alloy, smooth anodised
3	Piston rod	High-alloy stainless steel
4	Spindle	Steel
5	Spindle nut for LS Spindle nut for BS	Polyacetate Steel
6	Drive cover	Die-cast aluminium, painted

Maximum permissible loads on the piston rod



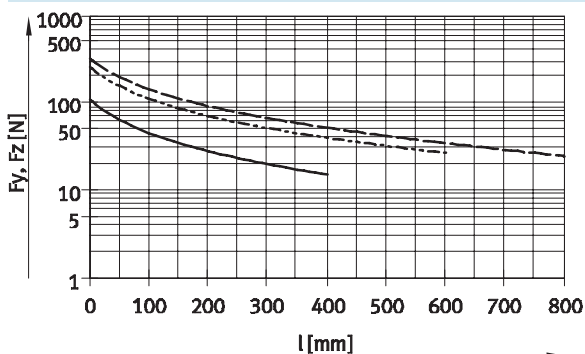
If there are two or more forces and torques simultaneously acting upon the piston rod, the following equations must be satisfied:

$$\frac{|F_y|}{F_{y_{\max}}} + \frac{|F_z|}{F_{z_{\max}}} + \frac{|M_y|}{M_{y_{\max}}} + \frac{|M_z|}{M_{z_{\max}}} \leq 1$$

$$|F_x| \leq F_{x_{\max}}$$

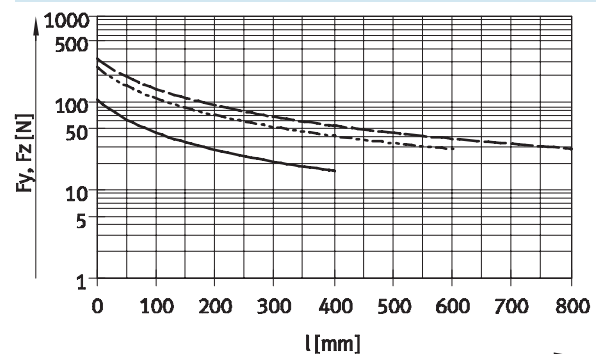
$$|M_x| \leq M_{x_{\max}}$$

Maximum permissible lateral forces $F_{y_{\max}}$ and $F_{z_{\max}}$ on the piston rod
Horizontal mounting position



— DNCE-32-LS/BS
- - - DNCE-40-LS/BS
- · - DNCE-63-LS/BS

Vertical mounting position



— DNCE-32-LS/BS
- - - DNCE-40-LS/BS
- · - DNCE-63-LS/BS



Engineering Tool
PositioningDrives
www.festo.com/en/engineering

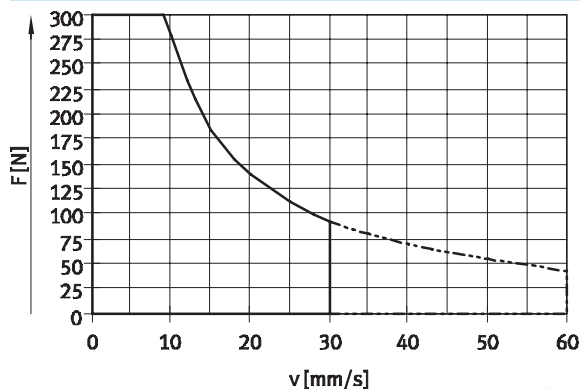
Size	32	40	63
Maximum permissible forces and torques			
$F_{x_{\max}}$ (static) [N]	600	1,400	3,700
$M_{x_{\max}}$ [Nm]	1	1	1.5
$M_{y_{\max}}, M_{z_{\max}}$ [Nm]	8	20	27

Electric cylinders DNCE, with piston rod

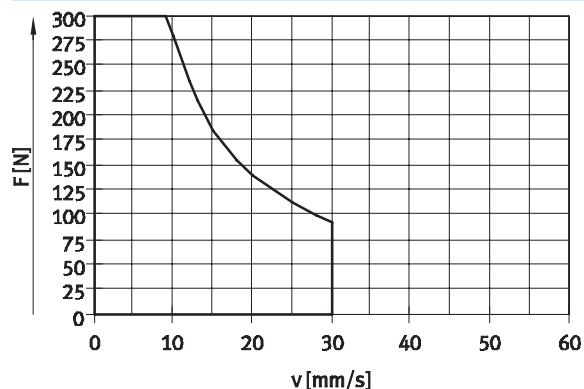
Technical data

Feed force F as a function of speed v

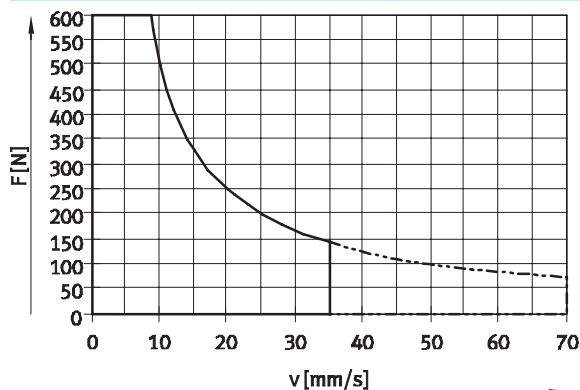
DNCE-32-1...299-LS-...



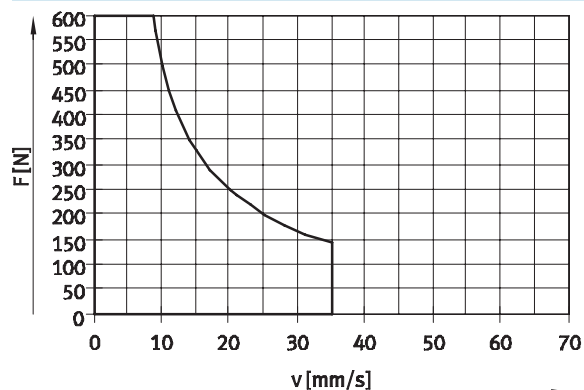
DNCE-32-300...400-LS-...



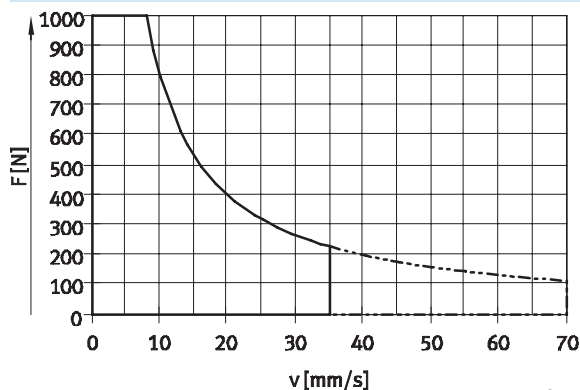
DNCE-40-1...299-LS-...



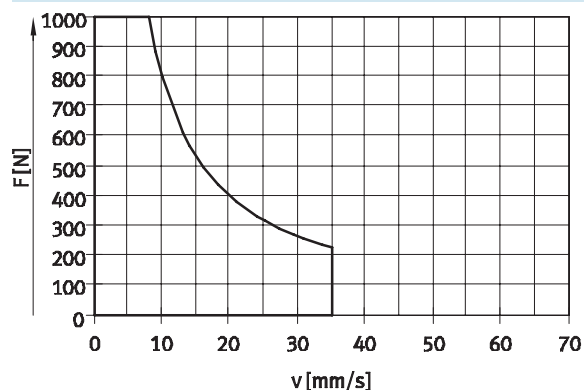
DNCE-40-300...600-LS-...



DNCE-63-1...419-LS-...



DNCE-63-420...800-LS-...



- Recommended operating range
- - - Permissible operating range
(duty cycle < 50% recommended)

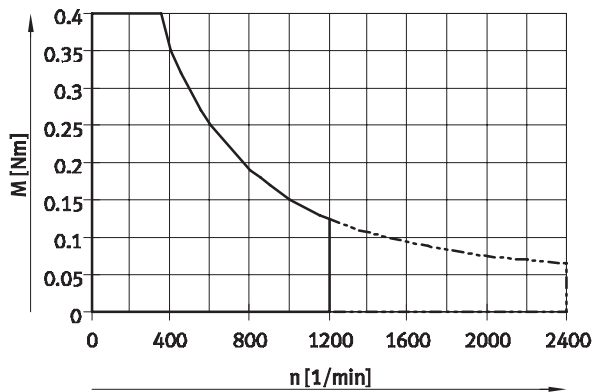
Electric cylinders DNCE, with piston rod

Technical data

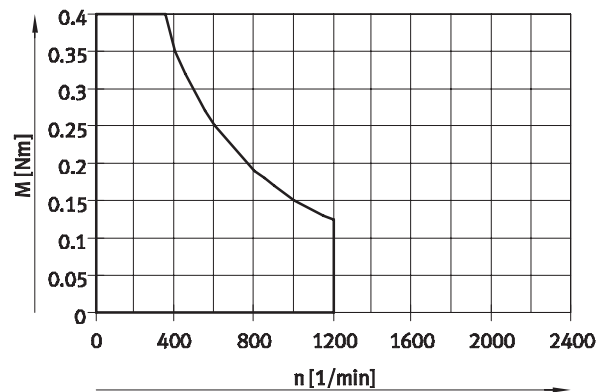
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Driving torque M as a function of rotational speed n

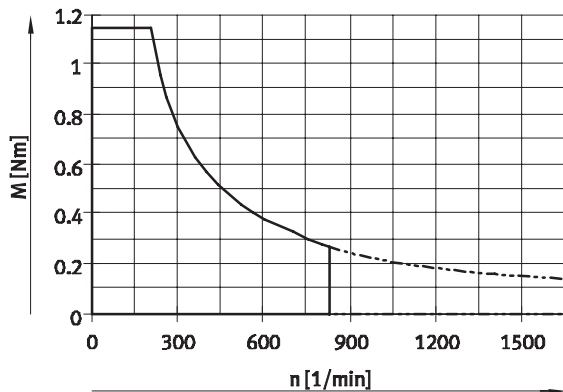
DNCE-32-1...299-LS-...



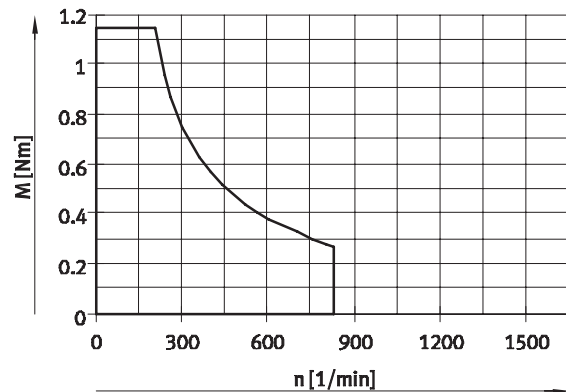
DNCE-32-300...400-LS-...



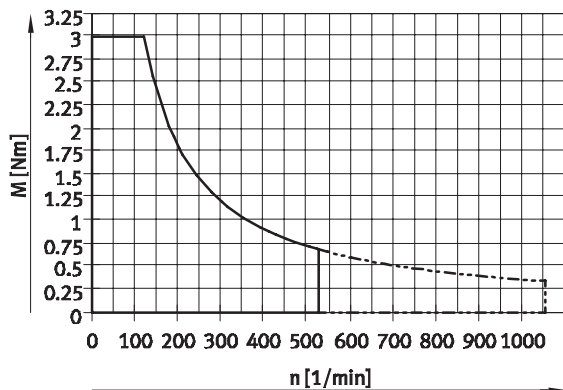
DNCE-40-1...299-LS-...



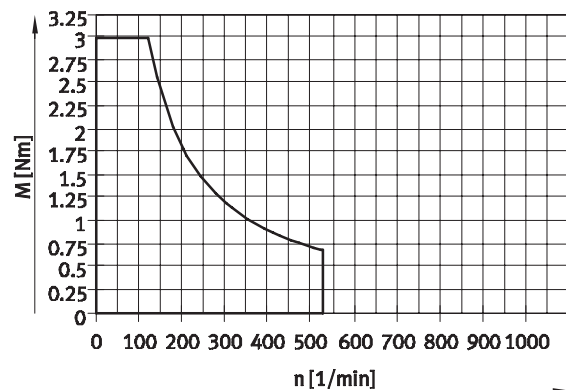
DNCE-40-300...600-LS-...



DNCE-63-1...419-LS-...



DNCE-63-420...800-LS-...



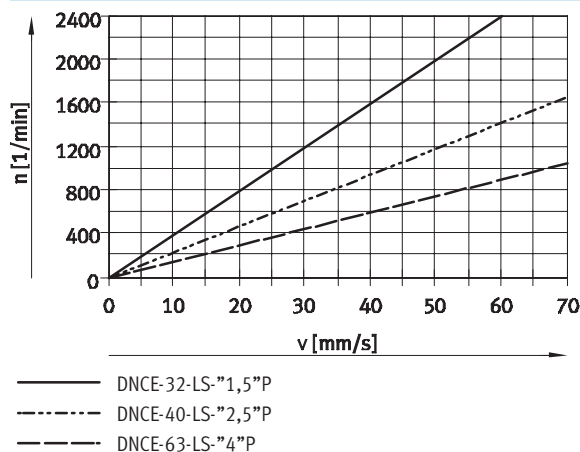
- Recommended operating range
- - - Permissible operating range
(duty cycle < 50% recommended)

Electric cylinders DNCE, with piston rod

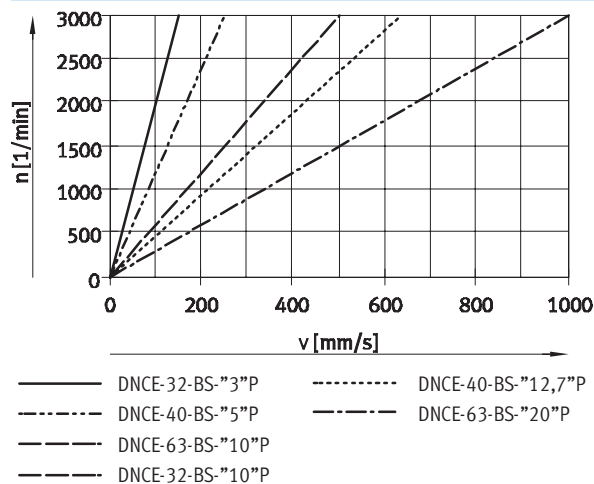
Technical data

Rotational speed n as a function of speed v

DNCE-...-LS-...



DNCE-...-BS-...



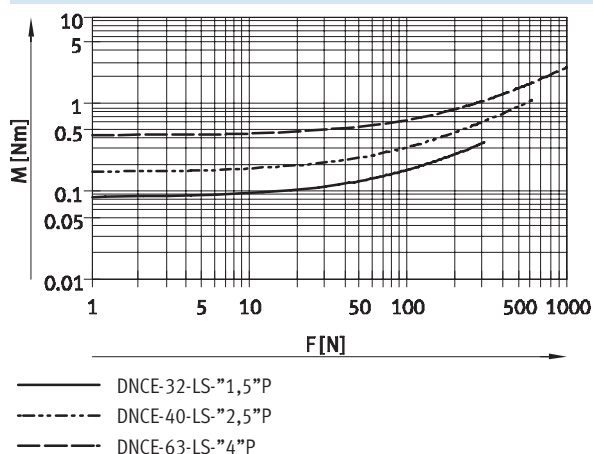
Driving torque M as a function of feed force F



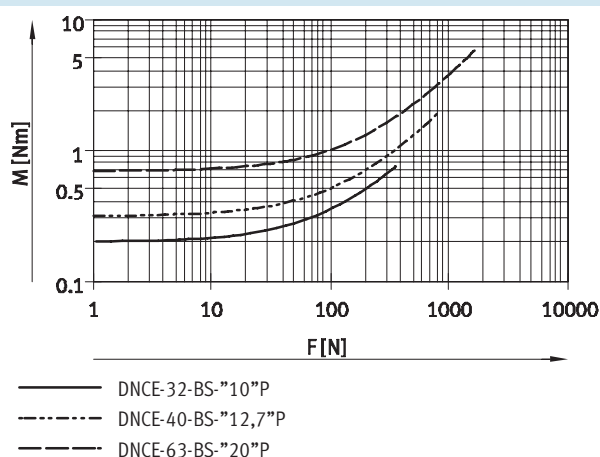
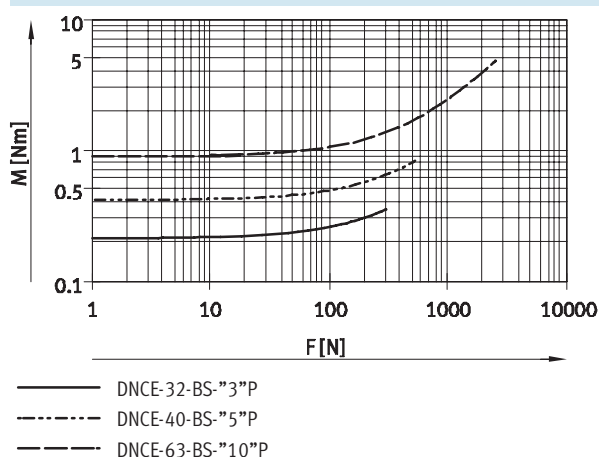
Note

The values take the friction torques of the electric cylinder into account.

DNCE-...-LS-...



DNCE-...-BS-...

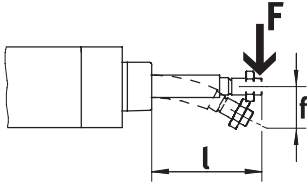


Electric cylinders DNCE, with piston rod

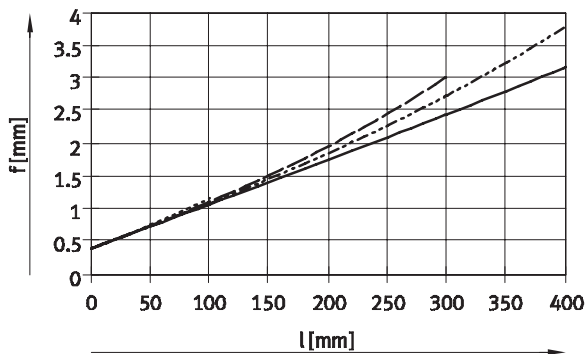
Technical data

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Piston rod displacement f as a function of stroke length l

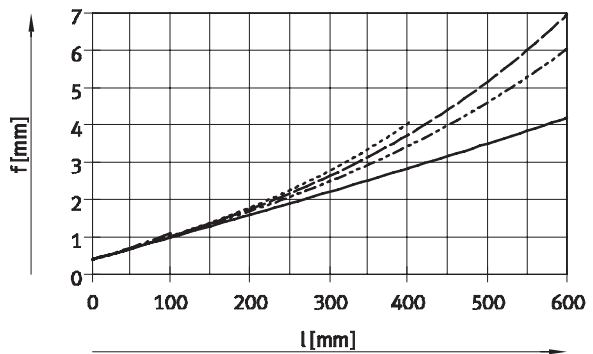


DNCE-32-...



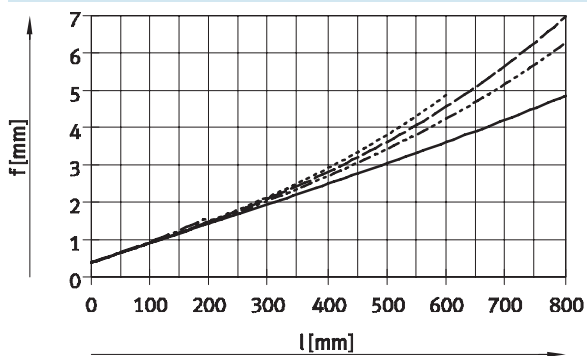
- Lateral force $F = 0$ N
- - - Lateral force $F = 10$ N
- · - Lateral force $F = 20$ N
- · · Lateral force $F = 45$ N

DNCE-40-...



- Lateral force $F = 0$ N
- - - Lateral force $F = 20$ N
- · - Lateral force $F = 30$ N
- · · Lateral force $F = 40$ N
- · · Lateral force $F = 115$ N

DNCE-63-...



- Lateral force = 0 N
- - - Lateral force = 20 N
- · - Lateral force = 30 N
- · · Lateral force = 40 N
- · · Lateral force = 95 N

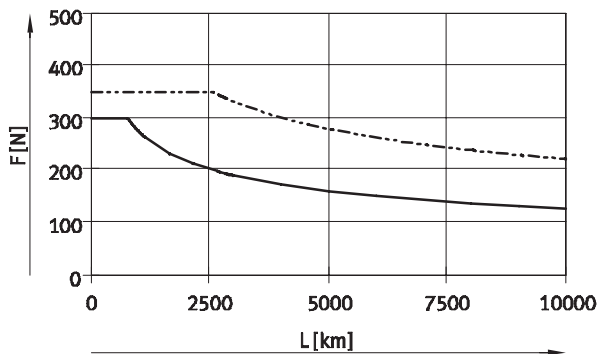
Electric cylinders DNCE, with piston rod

Technical data

FESTO

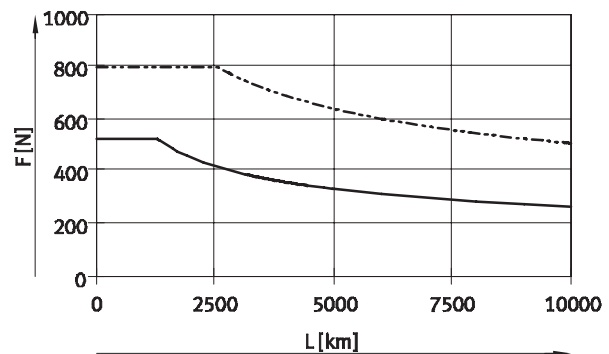
Running performance L as a function of mean feed force F (to DIN 69 051-4)

DNCE-32-...-BS-...



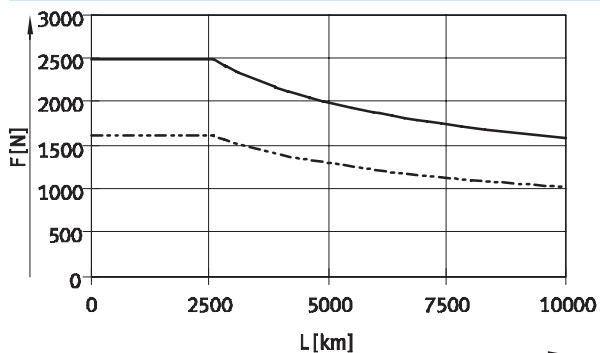
— DNCE-32-BS-''3''P
- - - DNCE-32-BS-''10''P

DNCE-40-...-BS-...



— DNCE-40-BS-''5''P
- - - DNCE-40-BS-''12,5''P

DNCE-63-...-BS-...



— DNCE-63-BS-''10''P
- - - DNCE-63-BS-''20''P

Note

- The data on running performance is based on empirically determined and theoretically calculated data. The running performance attainable in practice may deviate from the indicated curves if the parameters are different.
- Characteristic for DNCE-63-BS-''10''P applies to a mean speed of 1,500 rpm.
- Characteristic for all other DNCE-...-BS applies to a maximum speed of 3,000 rpm.

Electric cylinders DNCE, with piston rod

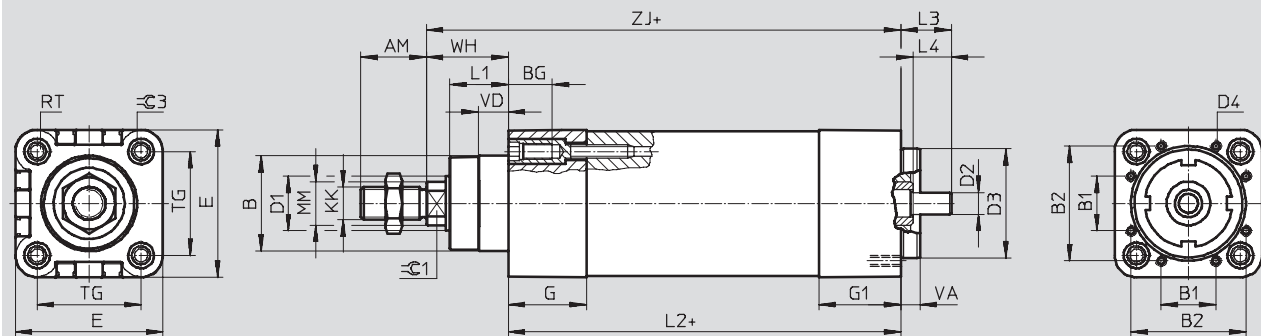
Technical data

FESTO

Dimensions

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

Electric cylinder DNCE



+ = plus stroke length

Size	AM	B Ø d11	B1	B2	BG	D1 Ø h9	D2 Ø h6	D3 Ø f7	D4	E	G	G1	KK
[mm]													
32	22	30	19	32	16	16	6	32	M3	45.5	24	26	M10x1.25
40	24	35	20	42	16	20	8	40	M4	54	28.5	30	M12x1.25
63	32	45	31	62	17	28	12	60	M5	75.5	34	36	M16x1.5

Size	L1	L2	L3	L4	MM	RT	TG	VA	VD	WH	ZJ ±1	⌀1	⌀3
[mm]													
32	18	122	15.9	8	12	M6	32.5	7	10	26	148	10	6
40	21.5	146.5	18.4	14	16	M6	38	7	10.5	30	176.5	13	6
63	28.5	177	23.5	17	20	M8	56.5	9	15	37	214	17	8


Electric cylinders DNCE, with piston rod

Technical data

Ordering data – DNCE-32							
Stroke [mm]	Part No.	Type		Stroke [mm]	Part No.	Type	
Ball screw drive with spindle pitch 3 mm				Lead screw drive with spindle pitch 1.5 mm			
100	543 115	DNCE-32-100-BS-”3”P-Q		100	543 111	DNCE-32-100-LS-”1,5”P-Q	
200	543 116	DNCE-32-200-BS-”3”P-Q		200	543 112	DNCE-32-200-LS-”1,5”P-Q	
300	543 117	DNCE-32-300-BS-”3”P-Q		300	543 113	DNCE-32-300-LS-”1,5”P-Q	
400	543 118	DNCE-32-400-BS-”3”P-Q		400	543 114	DNCE-32-400-LS-”1,5”P-Q	
Ball screw drive with spindle pitch 10 mm							
100	543 119	DNCE-32-100-BS-”10”P-Q					
200	543 120	DNCE-32-200-BS-”10”P-Q					
300	543 121	DNCE-32-300-BS-”10”P-Q					
400	543 122	DNCE-32-400-BS-”10”P-Q					

Ordering data – DNCE-40							
Stroke [mm]	Part No.	Type		Stroke [mm]	Part No.	Type	
Ball screw drive with spindle pitch 5 mm				Lead screw drive with spindle pitch 2.5 mm			
100	543 127	DNCE-40-100-BS-”5”P-Q		100	543 123	DNCE-40-100-LS-”2,5”P-Q	
200	543 128	DNCE-40-200-BS-”5”P-Q		200	543 124	DNCE-40-200-LS-”2,5”P-Q	
300	555 466	DNCE-40-300-BS-”5”P-Q		300	555 465	DNCE-40-300-LS-”2,5”P-Q	
400	543 129	DNCE-40-400-BS-”5”P-Q		400	543 125	DNCE-40-400-LS-”2,5”P-Q	
600	543 130	DNCE-40-600-BS-”5”P-Q		600	543 126	DNCE-40-600-LS-”2,5”P-Q	
Ball screw drive with spindle pitch 12.7 mm							
100	543 131	DNCE-40-100-BS-”12,7”P-Q					
200	543 132	DNCE-40-200-BS-”12,7”P-Q					
300	555 467	DNCE-40-300-BS-”12,7”P-Q					
400	543 133	DNCE-40-400-BS-”12,7”P-Q					
600	543 134	DNCE-40-600-BS-”12,7”P-Q					

Ordering data – DNCE-63							
Stroke [mm]	Part No.	Type		Stroke [mm]	Part No.	Type	
Ball screw drive with spindle pitch 10 mm				Lead screw drive with spindle pitch 4 mm			
100	555 470	DNCE-63-100-BS-”10”P-Q		100	555 468	DNCE-63-100-LS-”4”P-Q	
200	543 139	DNCE-63-200-BS-”10”P-Q		200	543 135	DNCE-63-200-LS-”4”P-Q	
300	555 471	DNCE-63-300-BS-”10”P-Q		300	555 469	DNCE-63-300-LS-”4”P-Q	
400	543 140	DNCE-63-400-BS-”10”P-Q		400	543 136	DNCE-63-400-LS-”4”P-Q	
600	543 141	DNCE-63-600-BS-”10”P-Q		600	543 137	DNCE-63-600-LS-”4”P-Q	
800	543 142	DNCE-63-800-BS-”10”P-Q		800	543 138	DNCE-63-800-LS-”4”P-Q	
Ball screw drive with spindle pitch 20 mm							
100	555 472	DNCE-63-100-BS-”20”P-Q					
200	543 143	DNCE-63-200-BS-”20”P-Q					
300	555 473	DNCE-63-300-BS-”20”P-Q					
400	543 144	DNCE-63-400-BS-”20”P-Q					
600	543 145	DNCE-63-600-BS-”20”P-Q					
800	543 146	DNCE-63-800-BS-”20”P-Q					


Note
 Variable strokes can be ordered via
 the modular product system
 → 5 / 2.1-22

Electric cylinders DNCE, with piston rod

Ordering data – Modular products

FESTO

M Mandatory data						
Module No.	Function	Size	Stroke	Drive type	Spindle pitch	Protection against rotation
555 488	DNCE	32	1 ... 800	LS BS	" ... "P	Q
555 489		40				
555 490		63				
Order example						
555 489	DNCE	- 40	- 550	- LS	- "2,5"P	- Q

Ordering table						
Size	32	40	63	Condi- tions	Code	Enter code
M Module No.	555 488	555 489	555 490			
Function	Electric piston rod cylinder				DNCE	DNCE
Size	32	40	63		"...	
Stroke [mm]	100				"-..."	
	200					
	300					
	400					
	- 600					
	- 800					
	1 ... 400	1 ... 600	1 ... 800	[1]		
Drive type	Lead screw spindle				-LS	
	Ball screw spindle				-BS	
Spindle pitch [mm]	1.5	-	-	[2]	"- ... "P	
	- 2.5	-	-	[2]		
	3	-	-	[3]		
	- 4	-	-	[2]		
	- 5	-	-	[3]		
	10	-	10	[3]		
	- 12.7	-	-	[3]		
	- 20	-	-	[3]		
Protection against rotation	Non-rotating piston rod				-Q	-Q

[1] ... Additional stroke lengths upon request

[2] "1,5"P, "2,5"P, "4"P

Only with drive type LS

[3] "3"P, "5"P, "10"P, "12,7"P, "20"P

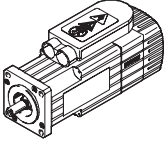
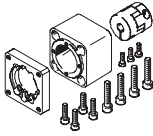



Only with drive type BS

Transfer order code

	DNCE	-		-		-		-		-	Q
--	------	---	--	---	--	---	--	---	--	---	---

Electric cylinders DNCE, with piston rod

Accessories

Permissible axis/motor combinations with axial kit				
Motor/motor unit	Axial kit	Axial kit consisting of:		
		Motor flange	Coupling	Coupling housing
				
Type	Part No. Type	Part No. Type	Part No. Type	Part No. Type
DNCE-32				
With servo motor				
EMMS-AS-40-...	543 147	552 163	543 420	552 155
MTR-AC-40-3S-...	EAMM-A-D32-40A	EAMF-A-28B-40A	KSE-16-20-D06-D06	EAMK-A-D32-28B
EMMS-AS-55-...	550 979	529 942	551 003	551 006
MTR-AC-55-3S-...	EAMM-A-D32-55A	MTR-FL44-AC55	KSE-30-32-D06-D09	EAMK-A-D32-44
With stepper motor				
EMMS-ST-42-...	543 148	552 164	543 419	552 155
MTR-ST-42-48S-...	EAMM-A-D32-42A	EAMF-A-28B-42A	KSE-16-20-D05-D06	EAMK-A-D32-28B
EMMS-ST-57-...	550 980	530 081	551 002	551 006
MTR-ST-57-48S-...	EAMM-A-D32-57A	MTR-FL44-ST57	KSE-30-32-D06-D06.35	EAMK-A-D32-44
With intelligent motor unit				
MTR-DCI-32S-...	543 149 EAMM-A-D32-32B	–	543 420 KSE-16-20-D06-D06	552 156 EAMK-A-D32-32B
DNCE-40				
With servo motor				
EMMS-AS-55-...	543 153	529 942	543 423	552 157
MTR-AC-55-3S-...	EAMM-A-D40-55A	MTR-FL44-AC55	KSE-30-32-D08-D09	EAMK-A-D40-44
EMMS-AS-70-...	550 981	529 943	551 004	552 157
MTR-AC-70-3S-...	EAMM-A-D40-70A	MTR-FL44-AC70	KSE-30-32-D08-D11	EAMK-A-D40-44
With stepper motor				
EMMS-ST-57-...	543 154	530 081	543 421	552 157
MTR-ST-57-48S-...	EAMM-A-D40-57A	MTR-FL44-ST57	KSE-30-32-D06.35-D08	EAMK-A-D40-44
EMMS-ST-87-...	550 982	530 082	551 004	552 157
MTR-ST-87-48S-...	EAMM-A-D40-87A	MTR-FL44-ST87	KSE-30-32-D08-D11	EAMK-A-D40-44
With intelligent motor unit				
MTR-DCI-42S-...-G7	543 155 EAMM-A-D40-42B	–	543 422 KSE-30-32-D08-D08	522 158 EAMK-A-D40-42B
MTR-DCI-42S-...-G14	543 156 EAMM-A-D40-42C	–	543 422 KSE-30-32-D08-D08	522 159 EAMK-A-D40-42C

Note

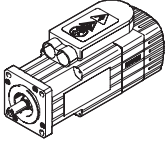
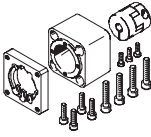



The performance data for the electric cylinder can only be determined in combination with the respective motor.

The maximum feed force of the electric cylinder may not be achieved in all circumstances.
The Positioning Drives design tool is recommended for correct sizing of components.

Electric cylinders DNCE, with piston rod

Accessories

FESTO

Permissible axis/motor combinations with axial kit				
Motor/motor unit	Axial kit	Axial kit consisting of:		
		Motor flange	Coupling	Coupling housing
				
Type	Part No. Type	Part No. Type	Part No. Type	Part No. Type
DNCE-63				
With servo motor				
EMMS-AS-70-...	543 161	529 945	543 424	552 160
MTR-AC-70-3S-...	EAMM-A-D60-70A	MTR-FL64-AC70	KSE-42-50-D11-D12	EAMK-A-D60-64-L51
EMMS-AS-100-...	550 983	529 947	551 005	551 007
MTR-AC-100-...	EAMM-A-D60-100A	MTR-FL64-AC100	KSE-42-50-D12-D19	EAMK-A-D60-64-L61
With stepper motor				
EMMS-ST-87-...	543 162	530 082	543 424	552 160
MTR-ST-87-48S-...	EAMM-A-D60-87A	MTR-FL64-ST87	KSE-42-50-D11-D12	EAMK-A-D60-64-L51
With intelligent motor unit				
MTR-DCI-52S-...-G7	543 163 EAMM-A-D60-52B	—	533 709 KSE-42-50-D12-D12	552 161 EAMK-A-D60-52B
MTR-DCI-52S-...-G14	543 164 EAMM-A-D60-52C	—	533 709 KSE-42-50-D12-D12	552 162 EAMK-A-D60-52C

 Note

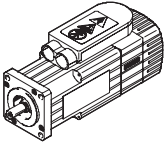
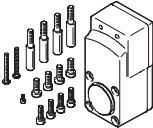
The performance data for the electric cylinder can only be determined in combination with the respective motor.


The maximum feed force of the electric cylinder may not be achieved in all circumstances.
The Positioning Drives design tool is recommended for correct sizing of components.

Electric cylinders DNCE, with piston rod

Accessories

FESTO

Permissible axis/motor combinations with parallel kit		
Motor/motor unit	Parallel kit	
		
Type	Part No.	Type
DNCE-32		
With servo motor		
EMMS-AS-40-...	543 150	EAMM-U-D32-40A
MTR-AC-40-3S-...		
With intelligent motor unit		
MTR-DCI-32S-...	543 152	EAMM-U-D32-32B
DNCE-40		
With servo motor		
EMMS-AS-55-...	543 157	EAMM-U-D40-55A
MTR-AC-55-3S-...		
With intelligent motor unit		
MTR-DCI-42S-G07	543 159	EAMM-U-D40-42B
MTR-DCI-42S-G14	543 160	EAMM-U-D40-42C
DNCE-63		
With servo motor		
EMMS-AS-70-...	543 165	EAMM-U-D60-70A
MTR-AC-70-3S-...		
With intelligent motor unit		
MTR-DCI-52S-G07	543 167	EAMM-U-D60-52B
MTR-DCI-52S-G14	543 168	EAMM-U-D60-52C

 Note		
The performance data for the electric cylinder can only be determined in combination with the respective motor.		The maximum feed force of the electric cylinder may not be achieved in all circumstances. The Positioning Drives design tool is recommended for correct sizing of components.

Electric cylinders DNCE, with piston rod

Accessories

FESTO

Axial kit EAMM-A-...

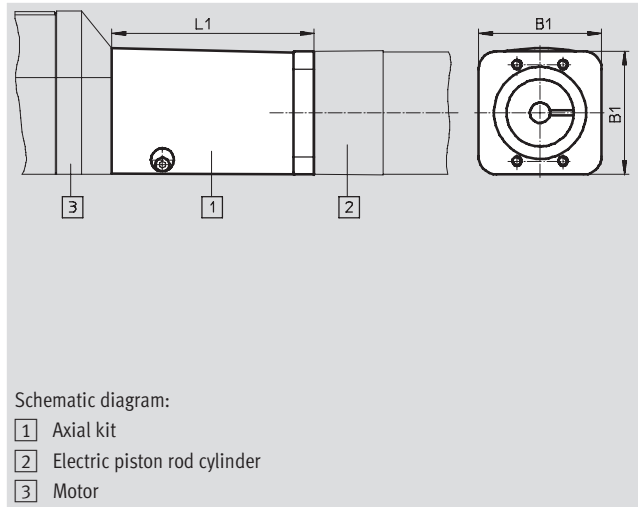
Material:

Coupling housing: Die-cast aluminium

Coupling hubs: Wrought aluminium alloy

Clamping component: High-alloy steel

Screws: Galvanised steel



General technical data												
EAMM-A-...		D32-					D40-					
		32B	40A	42A	55A	57A	42B	42C	55A	57A	70A	87A
Transferable torque	[Nm]	1.1	1.1	0.8	4	4	8	8	8	6	8	8
Mass moment of inertia	[kg mm ²]	0.3	0.3	0.3	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87
Max. speed	[r.p.m.]	10,000			8,000		8,000					
Mounting position		Any										

EAMM-A-...		D60-				
		52B	52C	70A	87A	100A
Transferable torque	[Nm]	14	14	12	12	14
Mass moment of inertia	[kg mm ²]	35.5	35.5	35.5	35.5	35.5
Max. speed	[r.p.m.]	6,000				
Mounting position		Any				

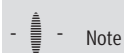
Operating and environmental conditions	
Ambient temperature	[°C] 0 ... 50
Storage temperature	[°C] -25 ... +60
Protection class ¹⁾	IP40
Relative air humidity	[%] 0 ... 95

1) Only with combined attachment of motor and axis

Electric cylinders DNCE, with piston rod

Accessories

Dimensions and ordering data					
Type	B1	L1	Weight [g]	Part No.	Type
EAMM-A-D32-32B	45	43	150	543 149	EAMM-A-D32-32B
EAMM-A-D32-40A		39.8	130	543 147	EAMM-A-D32-40A
EAMM-A-D32-42A		48	140	543 148	EAMM-A-D32-42A
EAMM-A-D32-55A	55	49.2	260	550 979	EAMM-A-D32-55A
EAMM-A-D32-57A	56.4	50.5	270	550 980	EAMM-A-D32-57A
EAMM-A-D40-42B	53.5	88	340	543 155	EAMM-A-D40-42B
EAMM-A-D40-42C		101	370	543 156	EAMM-A-D40-42C
EAMM-A-D40-55A		49.2	350	543 153	EAMM-A-D40-55A
EAMM-A-D40-57A		50.5	350	543 154	EAMM-A-D40-57A
EAMM-A-D40-70A	70	52	410	550 981	EAMM-A-D40-70A
EAMM-A-D40-87A	85.8	54	530	550 982	EAMM-A-D40-87A
EAMM-A-D60-52B	74	112	930	543 163	EAMM-A-D60-52B
EAMM-A-D60-52C		126	1,020	543 164	EAMM-A-D60-52C
EAMM-A-D60-70A		63.2	750	543 161	EAMM-A-D60-70A
EAMM-A-D60-87A		64.7	890	543 162	EAMM-A-D60-87A
EAMM-A-D60-100A	100	78.2	1,170	550 983	EAMM-A-D60-100A



Note

Permissible axis/motor combinations

➔ 5 / 2.1-23

Electric cylinders DNCE, with piston rod

Accessories

FESTO

Parallel kit EAMM-U-...

Material:

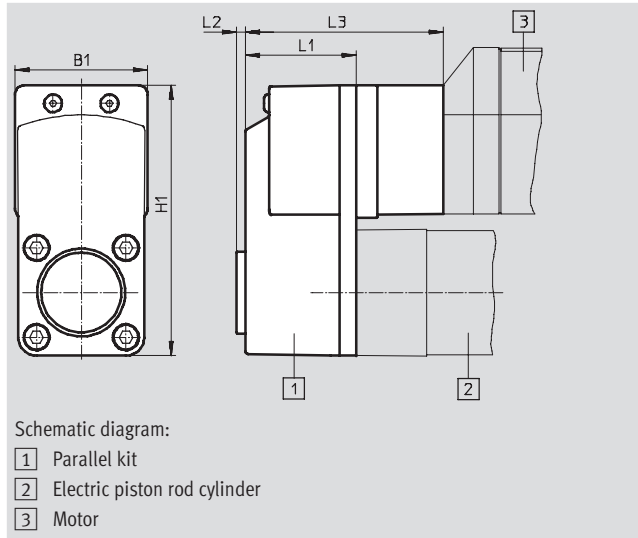
Coupling housing: Die-cast aluminium

Clamping component, clamping sleeve, toothed belt gearwheel:

High-alloy steel

Toothed belt: Polychloroprene

Screws: Galvanised steel



General technical data									
EAMM-U-...	D32-		D40-			D60-			
	32B	40A	42B	42C	55A	52B	52C	70A	
Transferable torque [Nm]	1	1	3	3	3	5.5	5.5	5.5	
No-load drive torque [Nm]	0.05	0.05	0.1	0.1	0.1	0.3	0.3	0.3	
Mass moment of inertia [kgmm ²]	2.931	2.931	10.016	10.016	10.016	70.5	70.5	70.5	
Max. speed [r.p.m.]	3,000								
Mounting position	Any								

Operating and environmental conditions		
Ambient temperature [°C]	0 ... 50	
Storage temperature [°C]	-25 ... +60	
Protection class ¹⁾	IP40	
Relative air humidity [%]	0 ... 95	

1) Only with combined attachment of motor and axis

Dimensions and ordering data									
Type	B1	H1	L1	L2	L3	Weight [g]	Part No.	Type	
EAMM-U-D32-32B	45.1	93.1	40	4	-	300	543 152	EAMM-U-D32-32B	
EAMM-U-D32-40A						300	543 150	EAMM-U-D32-40A	
EAMM-U-D40-42B	56.5	115	47	4	84	660	543 159	EAMM-U-D40-42B	
EAMM-U-D40-42C					97	690	543 160	EAMM-U-D40-42C	
EAMM-U-D40-55A					-	530	543 157	EAMM-U-D40-55A	
EAMM-U-D60-52B	86	162.6	58	4	106	1,530	543 167	EAMM-U-D60-52B	
EAMM-U-D60-52C					120	1,630	543 168	EAMM-U-D60-52C	
EAMM-U-D60-70A					-	1,170	543 165	EAMM-U-D60-70A	

 Note

Permissible axis/motor combinations

➔ 5 / 2.1-25

Electric cylinders DNCE, with piston rod

Accessories

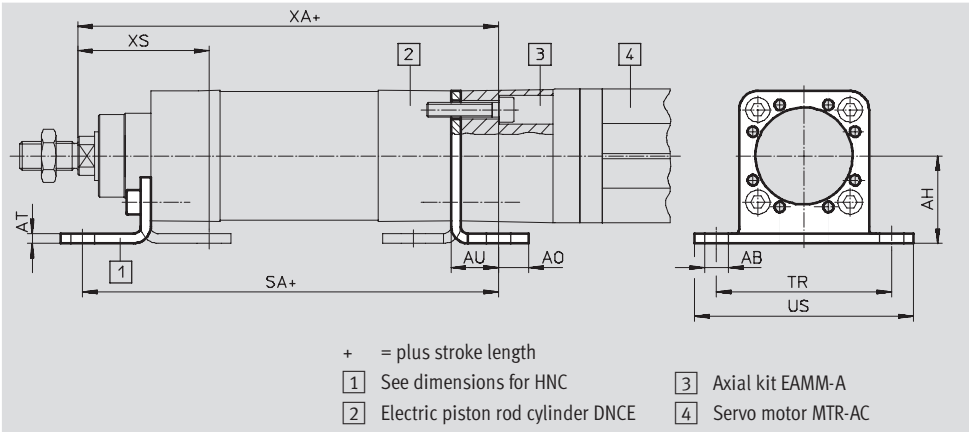
FESTO

Foot mounting HNCE, for axial motor attachment



Material:
Galvanised steel

Copper, PTFE and silicone-free



Dimensions and ordering data										
For size	AB Ø	AH	AO	AT	AU	SA	TR	US	XA	XS
[mm]										
32	7	32	10.5	4	17.5	163.5	58	71	165.5	46
40	10	36	12.5	4	19.5	194.5	72	90	196	54
63	10	50	15	5	23	232	92	110	237	64

For size	CRC ¹⁾	Weight	Part No.	Type
[mm]		[g]		
32	1	160	547 949	HNCE-32-AX
40	1	220	547 950	HNCE-40-AX
63	1	470	547 951	HNCE-63-AX

1) Corrosion resistance class 1 to Festo standard 940 070

Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers

Electric cylinders DNCE, with piston rod

Accessories

FESTO

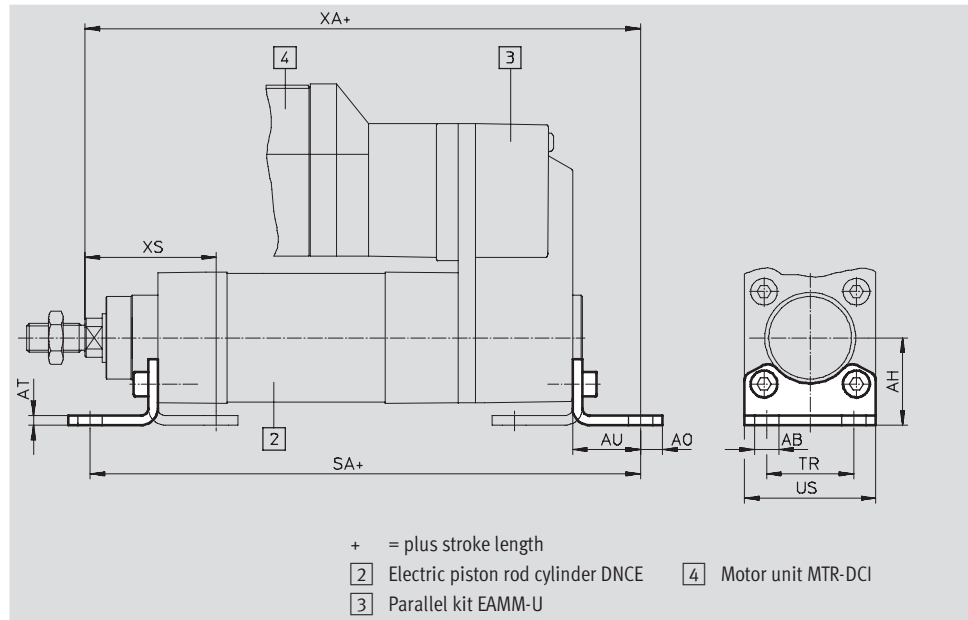
**Foot mounting HNC/CRHNC,
for parallel motor attachment**

Material:

HNC: Galvanised steel

CRHNC: High-alloy steel

Copper, PTFE and silicone-free



Dimensions and ordering data

For size	AB Ø	AH	AO	AT	AU	SA	TR	US	XA	XS
[mm]										
32	7	32	6.5	4	24	210	32	45	212	46
40	10	36	9	4	28	249.5	36	54	251.5	54
63	10	50	12.5	5	32	299	50	75	304	64

For size	Basic version				High corrosion protection			
	CRC ¹⁾	Weight [g]	Part No.	Type	CRC ¹⁾	Weight [g]	Part No.	Type
[mm]								
32	2	135	174 369	HNC-32	4	135	176 937	CRHNC-32
40	2	180	174 370	HNC-40	4	180	176 938	CRHNC-40
63	2	405	174 372	HNC-63	4	405	176 940	CRHNC-63

1) Corrosion resistance class 2 to Festo standard 940 070

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

Corrosion resistance class 4 to Festo standard 940 070

Components requiring higher corrosion resistance. Parts used with aggressive media, e.g. food or chemical industry. These applications should be supported with special tests with the media if required

Electric cylinders DNCE, with piston rod

Accessories

FESTO

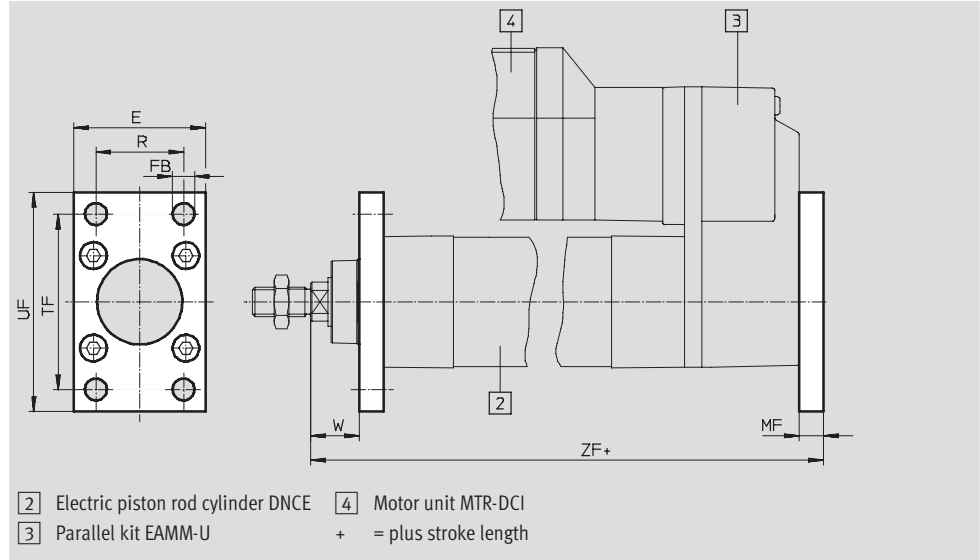
Flange mounting FNC/CRFNG

Material:

FNC: Galvanised steel

CRFNG: High-alloy steel

Copper, PTFE and silicone-free



Dimensions and ordering data

For size [mm]	E	FB Ø H13	MF	R	TF	UF	W	ZF
32	45	7	10	32	64	80	16	198
40	54	9	10	36	72	90	20	233.5
63	75	9	12	50	100	120	25	284

For size [mm]	Basic version				High corrosion protection			
	CRC ¹⁾	Weight [g]	Part No.	Type	CRC ¹⁾	Weight [g]	Part No.	Type
32	2	240	174 376	FNC-32	4	240	161 846	CRFNG-32
40	2	280	174 377	FNC-40	4	300	161 847	CRFNG-40
63	2	690	174 379	FNC-63	4	710	161 849	CRFNG-63

1) Corrosion resistance class 2 to Festo standard 940 070

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

Corrosion resistance class 4 to Festo standard 940 070

Components requiring higher corrosion resistance. Parts used with aggressive media, e.g. food or chemical industry. These applications should be supported with special tests with the media if required

Electric cylinders DNCE, with piston rod

Accessories

FESTO

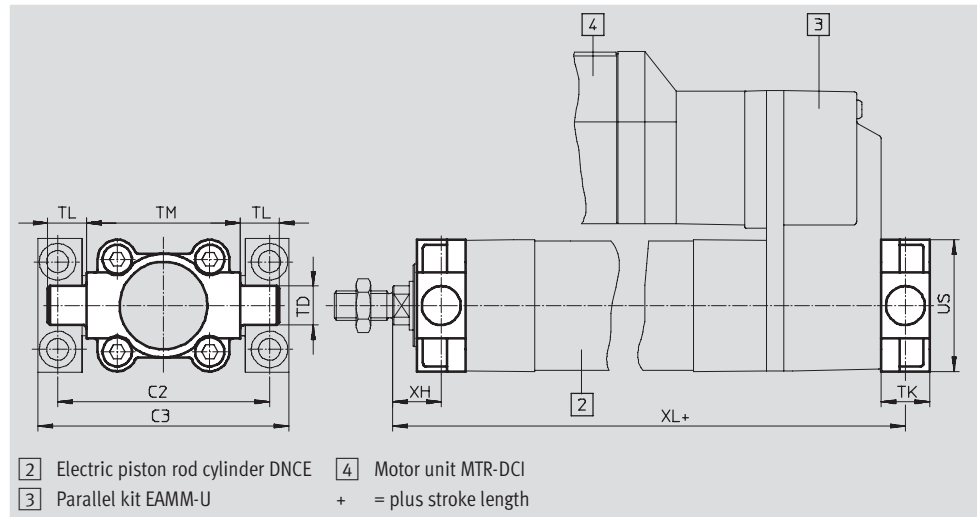
Trunnion flange ZNCF/CRZNG

Material:

ZNCF: Special steel casting

CRZNG: Electrolytically polished
special steel casting

Copper, PTFE and silicone-free



Dimensions and ordering data									
For size	C2	C3	TD Ø e9	TK	TL	TM	US	XH	XL
[mm]									
32	71	86	12	16	12	50	45	18	196
40	87	105	16	20	16	63	54	20	233.5
63	116	136	20	24	20	90	75	25	284

For size [mm]	Basic version				High corrosion protection			
	CRC ¹⁾	Weight [g]	Part No.	Type	CRC ¹⁾	Weight [g]	Part No.	Type
32	2	130	174 411	ZNCF-32	4	150	161 852	CRZNG-32
40	2	240	174 412	ZNCF-40	4	260	161 853	CRZNG-40
63	2	600	174 414	ZNCF-63	4	640	161 855	CRZNG-63

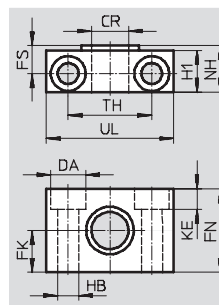
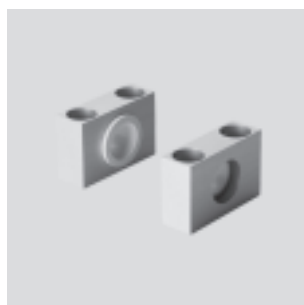
- 1) Corrosion resistance class 2 to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.
Corrosion resistance class 4 to Festo standard 940 070
Components requiring higher corrosion resistance. Parts used with aggressive media, e.g. food or chemical industry. These applications should be supported with special tests with the media if required

Electric cylinders DNCE, with piston rod

Accessories

Trunnion support LNZG

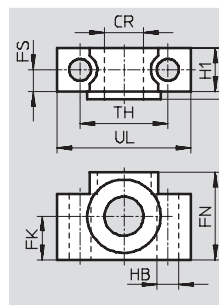
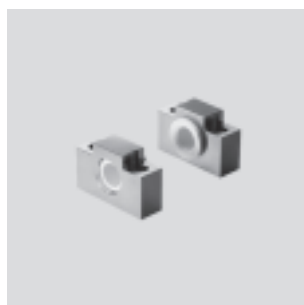
Material:
Trunnion support:
Anodised aluminium
Plain bearing: Polymer
Copper, PTFE and silicone-free



Dimensions and ordering data															
For size	CR	DA	FK	FN	FS	H1	HB	KE	NH	TH	UL	CRC ¹⁾	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	16	15	18	36	12	18	9	9	21	36	55	2	400	32 960	LNZG-40/50
63	20	18	20	40	13	20	11	11	23	42	65	2	480	32 961	LNZG-63/80

Trunnion support CRLNZG

Material:
High-alloy steel
Copper, PTFE and silicone-free



Dimensions and ordering data													
For size	CR Ø	FK Ø	FN	FS	H1	HB Ø	NH	TH	UL	CRC ¹⁾	Weight	Part No.	Type
[mm]	D11	±0.1				H13		±0.2			[g]		
32	12	15	30	10.5	15	6.6	18	32	46	4	200	161 874	CRLNZG-32
40	16	18	36	12	18	9	21	36	55	4	330	161 875	CRLNZG-40/50
63	20	20	40	13	20	11	23	42	65	4	440	161 876	CRLNZG-63/80

- 1) Corrosion resistance class 2 to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.
Corrosion resistance class 4 to Festo standard 940 070
Components requiring higher corrosion resistance. Parts used with aggressive media, e.g. food or chemical industry. These applications should be supported with special tests with the media if required

Electric cylinders DNCE, with piston rod

Accessories

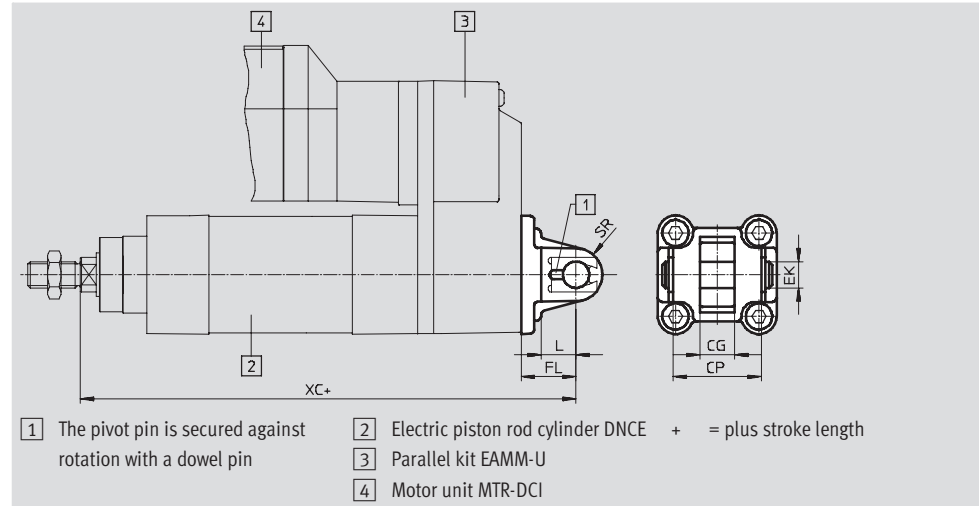
FESTO

Swivel flange SNC

Material:

Die-cast aluminium

Copper, PTFE and silicone-free



Dimensions and ordering data

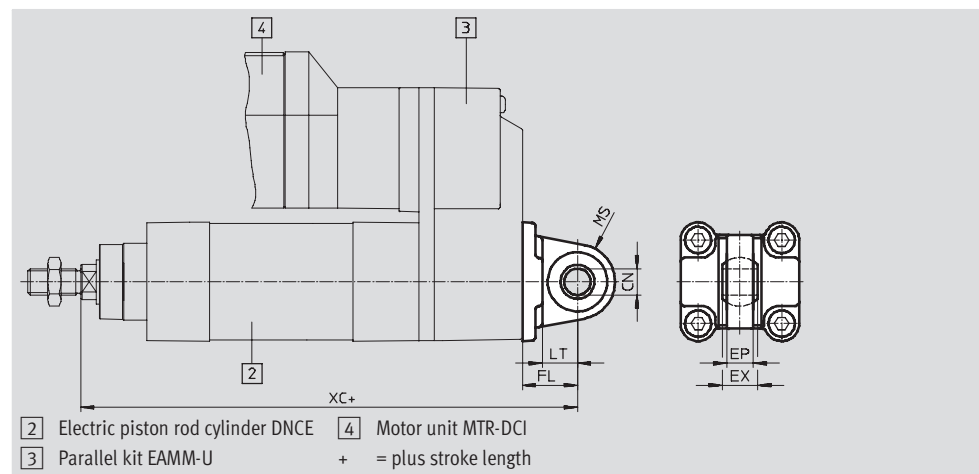
For size	CG	CP	EK Ø	FL	L	SR	XC	CRC ¹⁾	Weight	Part No.	Type
[mm]	H14	h14		±0.2					[g]		
32	14	34	10	22	13	10	210	2	90	174 383	SNC-32
40	16	40	12	25	16	12	248.5	2	120	174 384	SNC-40
63	21	51	16	32	21	16	304	2	320	174 386	SNC-63

Swivel flange SNCS

Material:

Die-cast aluminium

Copper, PTFE and silicone-free



Dimensions and ordering data

For size	CN Ø	EP	EX	FL	LT	MS	XC	CRC ¹⁾	Weight	Part No.	Type
[mm]	H7	+0.2		±0.2					[g]		
32	10	10.5	14	22	13	15	210	2	85	174 397	SNCS-32
40	12	12	16	25	16	17	248.5	2	125	174 398	SNCS-40
63	16	15	21	32	21	22	304	2	280	174 400	SNCS-63

1) Corrosion resistance class 2 to Festo standard 940 070

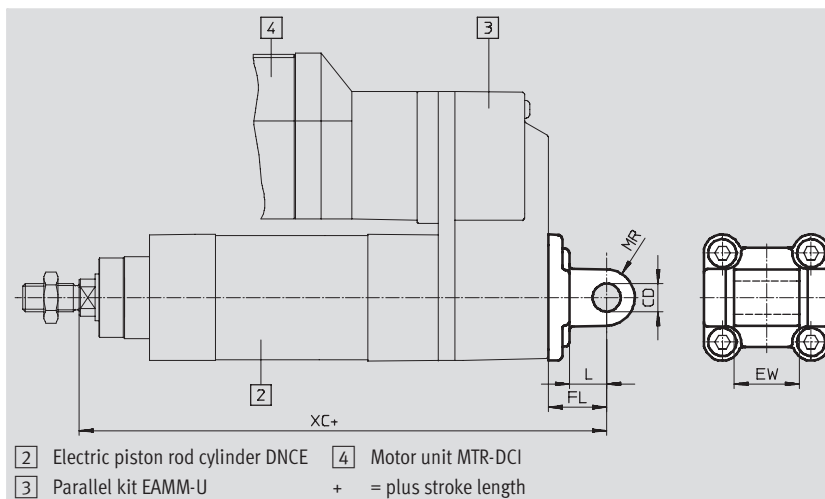
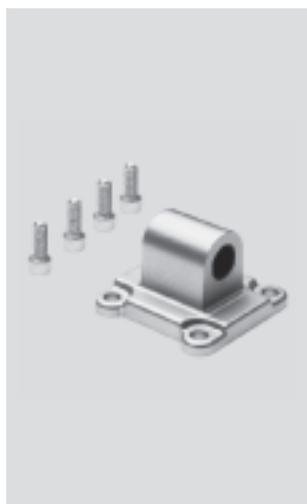
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents

Electric cylinders DNCE, with piston rod

Accessories

Swivel flange SNCL

Material:
Die-cast aluminium
Copper, PTFE and silicone-free



Dimensions and ordering data										
For size	CD	EW	FL	L	MR	XC	CRC ¹⁾	Weight	Part No.	Type
[mm]	Ø H9	h12	±0.2					[g]		
32	10	26	22	13	10	210	2	75	174 404	SNCL-32
40	12	28	25	16	12	248.5	2	100	174 405	SNCL-40
63	16	40	32	21	16	304	2	250	174 407	SNCL-63

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

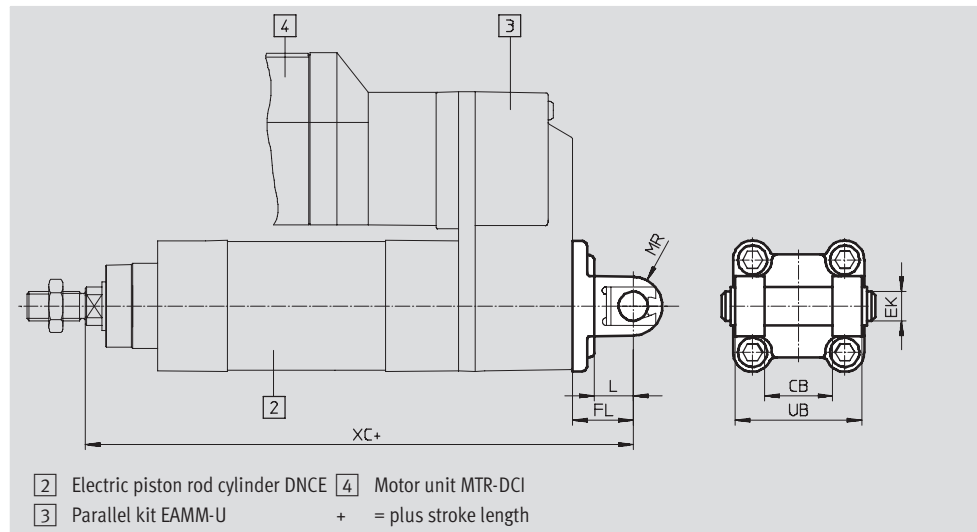
Electric cylinders DNCE, with piston rod

Accessories

FESTO

Swivel flange SNCB/SNCB-...-R3

Material:
SNCB: Die-cast aluminium
SNCB-...-R3: Die-cast aluminium with
protective coating, high corrosion
protection
Copper, PTFE and silicone-free



Dimensions and ordering data

For size	CB	EK	FL	L	MR	UB	XC
[mm]	H14	Ø e8	±0.2			h14	
32	26	10	22	13	10	45	210
40	28	12	25	16	12	52	248.5
63	40	16	32	21	16	70	304

For size	Basic version				Variant R3 – High corrosion protection			
	CRC ¹⁾	Weight [g]	Part No.	Type	CRC ¹⁾	Weight [g]	Part No.	Type
[mm]								
32	2	100	174 390	SNCB-32	3	100	176 944	SNCB-32-R3
40	2	150	174 391	SNCB-40	3	150	176 945	SNCB-40-R3
63	2	365	174 393	SNCB-63	3	365	176 947	SNCB-63-R3

1) Corrosion resistance class 3 to Festo standard 940 070

Components requiring higher corrosion resistance. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface

Electric cylinders DNCE, with piston rod

Accessories

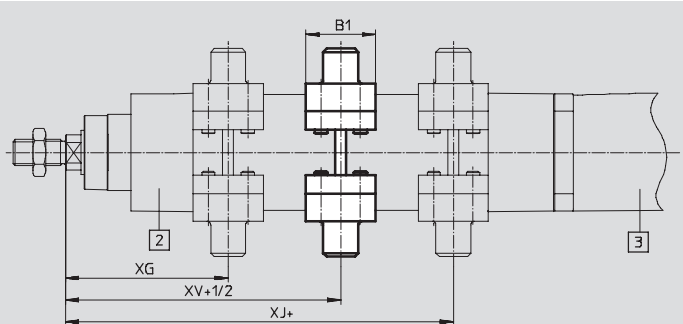
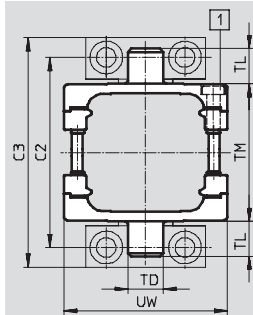
FESTO

Trunnion mounting kit ZNCM

Material:
Tempered steel

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

In combination with the parallel kit EAMM-U, the trunnion mounting kit cannot be mounted in the vicinity of the motor.



- 1 Max. tightening torque
2 Electric piston rod cylinder DNCE

- 3 Axial kit EAMM-A

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

Dimensions and ordering data

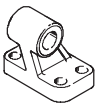
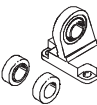
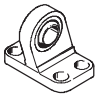

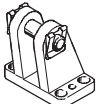
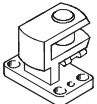
For size	B1	C2	C3	TD Ø e9	TL	TM	UW	XG
[mm]								
32	30	71	86	12	12	50	65	65
40	32	87	105	16	16	63	75	74.5
63	41	116	136	20	20	90	105	91.5

For size	XJ	XV	Max. tightening torque [Nm]	CRC ¹⁾	Weight [g]	Part No.	Type
[mm]							
32	107	86	4+1	2	210	163 525	ZNCM-32
40	130.5	102.5	8+1	2	385	163 526	ZNCM-40
63	157.5	124.5	18+2	2	890	163 528	ZNCM-63

1) Corrosion resistance class 2 to Festo standard 940 070

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

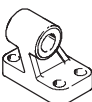
Ordering data – Mounting attachments





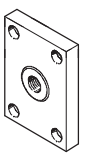
Designation	For size	Part No.	Type	Designation	For size	Part No.	Type
Clevis foot LNG				Clevis foot LSN			
	32	33 890	LNG-32		32	5 561	LSN-32
	40	33 891	LNG-40		40	5 562	LSN-40
	63	33 893	LNG-63		63	5 564	LSN-63
Clevis foot LSNG				Clevis foot LSNSG			
	32	31 740	LSNG-32		32	31 747	LSNSG-32
	40	31 741	LSNG-40		40	31 748	LSNSG-40
	63	31 743	LSNG-63		63	31 750	LSNSG-63
Clevis foot LBG				Right-angle clevis foot LQG			
	32	31 761	LBG-32		32	31 768	LQG-32
	40	31 762	LBG-40		40	31 769	LQG-40
	63	31 764	LBG-63		63	31 771	LQG-63



Electric cylinders DNCE, with piston rod

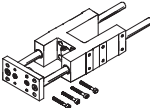
Accessories

FESTO

Ordering data – Mounting attachments, corrosion resistant			Technical data → 1 / 10.1-2	
Designation	For size	Part No.	Type	
Clevis foot CRLNG				
	32	161 840	CRLNG-32	
	40	161 841	CRLNG-40	
	63	161 843	CRLNG-63	

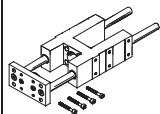
Ordering data – Piston-rod attachments				Technical data → 1 / 10.3-2			
Designation	For size	Part No.	Type	Designation	For size	Part No.	Type
Rod eye SGS				Rod clevis SGA			
	32	9 261	SGS-M10x1,25		32	32 954	SGA-M10x1,25
	40	9 262	SGS-M12x1,25		40	10 767	SGA-M12x1,25
	63	9 263	SGS-M16x1,5		63	10 768	SGA-M16x1,5
Rod clevis SG				Self-aligning rod coupler FK			
	32	6 144	SG-M10x1,25		32	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
Coupling piece KSZ							
	32	36 125	KSZ-M10x1,25				
	40	36 126	KSZ-M12x1,25				
	63	36 127	KSZ-M16x1,5				

Ordering data – Piston rod attachments, corrosion resistant				Technical data → 1 / 10.3-2			
Designation	For size	Part No.	Type	Designation	For size	Part No.	Type
Rod eye CRSGS				Rod clevis CRSG			
	32	195 582	CRSGS-M10x1,25		32	13 569	CRSG-M10x1,25
	40	195 583	CRSGS-M12x1,25		40	13 570	CRSG-M12x1,25
	63	195 584	CRSGS-M16x1,5		63	13 571	CRSG-M16x1,5

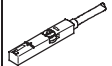
Ordering data – Guide units for fixed strokes (recirculating ball bearing guide only)				Technical data → 1 / 10.4-2		
	Stroke [mm]	Part No.	Type	Stroke [mm]	Part No.	Type
	For size 32			For size 40		
	10 ... 100	34 494	FENG-32-100-KF	10 ... 100	34 500	FENG-40-100-KF
	10 ... 200	34 496	FENG-32-200-KF	10 ... 200	34 502	FENG-40-200-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 size 63					
	10 ... 100	34 514	FENG-63-100-KF			
	10 ... 200	34 516	FENG-63-200-KF			
	10 ... 320	34 518	FENG-63-320-KF			
10 ... 400	34 519	FENG-63-400-KF				
10 ... 500	34 520	FENG-63-500-KF				

Electric cylinders DNCE, with piston rod

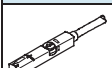
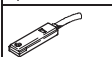
Accessories

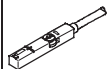
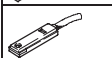
Ordering data – Guide units for variable strokes					Technical data → 1 / 10.4-2	
	For size [mm]	Stroke [mm]	With recirculating ball bearing guide		With plain-bearing guide	
			Part No.	Type	Part No.	Type
	32	10 ... 500	34 487	FENG-32-...-KF	34 481	FENG-32-...
	40	10 ... 500	34 488	FENG-40-...-KF	34 482	FENG-40-...
	63	10 ... 500	34 490	FENG-63-...-KF	34 484	FENG-63-...

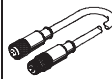
Permissible proximity sensors in combination with motor units MTR-DCI

Ordering data – Proximity sensor for T-slot, magneto-resistive					Technical data → www.festo.com/catalogue/sm	
	Type of mounting	Switch output	Electrical connection	Cable length [m]	Part No.	Type
N/O contact						
	Insertable in the slot from above, flush with cylinder profile	PNP	Plug M8x1, 3-pin	0.3	543 866	SMT-8M-PS-24V-K-0,3-M8D

Permissible proximity sensors in combination with servo motors MTR-AC, stepper motors MTR-ST or guide units FENG

Ordering data – Proximity sensor for T-slot, magneto-resistive					Technical data → www.festo.com/catalogue/sm	
	Type of mounting	Switch output	Electrical connection	Cable length [m]	Part No.	Type
N/O contact						
	Insertable in the slot from above, flush with cylinder profile	PNP	Cable, 3-wire	2.5	543 867	SMT-8M-PS-24V-K-2,5-OE
	Insertable in the slot lengthwise, flush with the cylinder profile	PNP	Cable, 3-wire	2.5	175 436	SMT-8-PS-K-LED-24-B

Ordering data – Proximity sensors for T-slot, magnetic reed					Technical data → www.festo.com/catalogue/sm	
	Type of mounting	Switch output	Electrical connection	Cable length [m]	Part No.	Type
N/O contact						
	Insertable in the slot from above, flush with cylinder profile	Contacting	Cable, 3-wire	2.5	543 862	SME-8M-DS-24V-K-2,5-OE
				5.0	543 863	SME-8M-DS-24V-K-5,0-OE
	Insertable in the slot lengthwise, flush with the cylinder profile	Contacting	Cable, 3-wire	2.5	150 855	SME-8-K-LED-24

Ordering data – Connecting cables				Technical data → 7 / 1.1-30	
	Mounting	Connection	Cable length [m]	Part No.	Type
Straight socket					
	Union nut M8, both ends	3-pin	0.5	175 488	KM8-M8-GSGD-0,5
			1	175 489	KM8-M8-GSGD-1
			2.5	165 610	KM8-M8-GSGD-2,5
			5	165 611	KM8-M8-GSGD-5

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

Product Range and Company Overview

A Complete Suite of Automation Services

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



Custom Automation Components
Complete custom engineered solutions



Custom Control Cabinets
Comprehensive engineering support
and on-site services



Complete Systems
Shipment, stocking and storage services

The Broadest Range of Automation Components

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



Electromechanical
Electromechanical actuators, motors,
controllers & drives



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



PLCs and I/O Devices
PLC's, operator interfaces, sensors
and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



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Festo North America

United States

Customer Resource Center

502 Earth City Expy., Suite 125
Earth City, MO 63045

For ordering assistance, or to find
your nearest Festo Distributor,

Call: 1.800.99.FESTO

Fax: 1.800.96.FESTO

Email: customer.service@us.festo.com

For technical support,

Call: 1.866.GO.FESTO

Fax: 1.800.96.FESTO

Email: product.support@us.festo.com

Headquarters

Festo Corporation
395 Moreland Road
P.O. Box 18023
Hauppauge, NY 11788
www.festo.com/us

Sales Offices

Appleton

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

Boston

120 Presidential Way, Suite 330
Woburn, MA 01801

Chicago

1441 East Business Center Drive
Mt. Prospect, IL 60056

Dallas

1825 Lakeway Drive, Suite 600
Lewisville, TX 75057

Detroit - Automotive Engineering Center

2601 Cambridge Court, Suite 320
Auburn Hills, MI 48326

New York

395 Moreland Road
Hauppauge, NY 11788

Silicon Valley

4935 Southfront Road, Suite F
Livermore, CA 94550

Design and Manufacturing Operations



East: 395 Moreland Road, Hauppauge, NY 11788



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



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

Mexico

Headquarters

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



Canada

Headquarters

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



Festo Worldwide

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