

Electric cylinders DNCE, with spindle drive



Electric cylinders DNCE, with spindle drive

Key features

At a glance

General

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

linear motion of the piston rod. The mechanical interfaces are largely compatible with the standard cylinder DNC.

Properties

- Choice of spindle type:
 - With lead screw (LS)
 - With ball screw (BS)
 - Electric cylinder with lead screw spindle is self-retarding
 - Compact dimensions
- Optional:
- Protection class IP65
 - High corrosion protection
 - NSF-H1 lubricant for the food industry

Range of applications

- Lead screw spindle
 - For applications with slow feed speeds
- Ball screw spindle
 - For applications with high feed speeds and high running performance

-  - Note

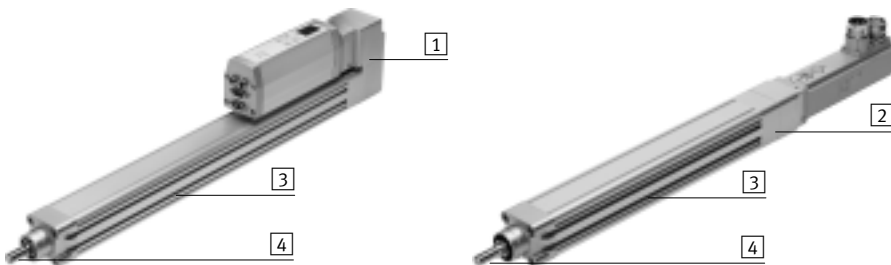
The electric cylinder is of limited suitability for the food industry.

Further information www.festo.com/sp → User documentation.

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

Electric cylinder

→ 6



- 1** Parallel kit
- 2** Axial kit
- 3** Slot for proximity sensor
- 4** Choice of spindle type:
 - With lead screw spindle (LS)
 - With ball screw spindle (BS)

-  - Note

The lead screw spindle 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

→ 18



- 1** Motor unit MTR-DCI
- 2** Servo motor EMME-AS, EMMS-AS
- 3** Stepper motor EMMS-ST

-  - Note

A range of specially adapted complete solutions is available for the electric cylinder DNCE and the motors/motor units.

Motor mounting kit

→ 18

Axial kit

Parallel kit



A range of complete kits is available for both parallel and axial motor mounting.

Electric cylinders DNCE, with spindle drive

Key features and type codes

Longer service life with bellows kit EADB

→ 27



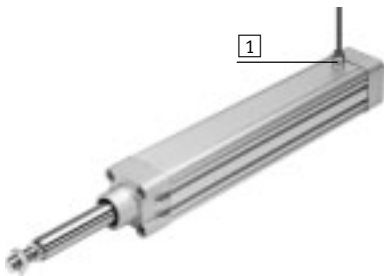
The protective bellows kit is a leak-free system. To prevent unwanted media from being drawn in, the supply and exhaust air must be ducted via a pressure compensation hole in the connection part **1**.

The kit protects the piston rod, seal and bearings against a wide variety of media, for example:

- Dust
- Chippings
- Oil
- Grease
- Fuel

Use in dusty or wet environments thanks to protection to IP65 (feature P5)

→ 17



The electric cylinder to IP65 fulfills the specifications to IEC 60 529.

Air is exchanged between the interior of the cylinder and the environment via a pressure compensation hole **1** in the cylinder barrel. This prevents negative pressure or excess pressure in the interior of the cylinder.

It also prevents unwanted media being drawn in.

Protection to IP65 can only be selected in combination with DNCE-...-BS (ball screw spindle).

Type codes

DNCE – 32 – 100 – BS – "10"P – Q-P5

| Type | |
|------|-------------------|
| DNCE | Electric cylinder |

| Size | |
|------|----|
| 32 | 32 |

| Stroke [mm] | |
|-------------|-----|
| 100 | 100 |

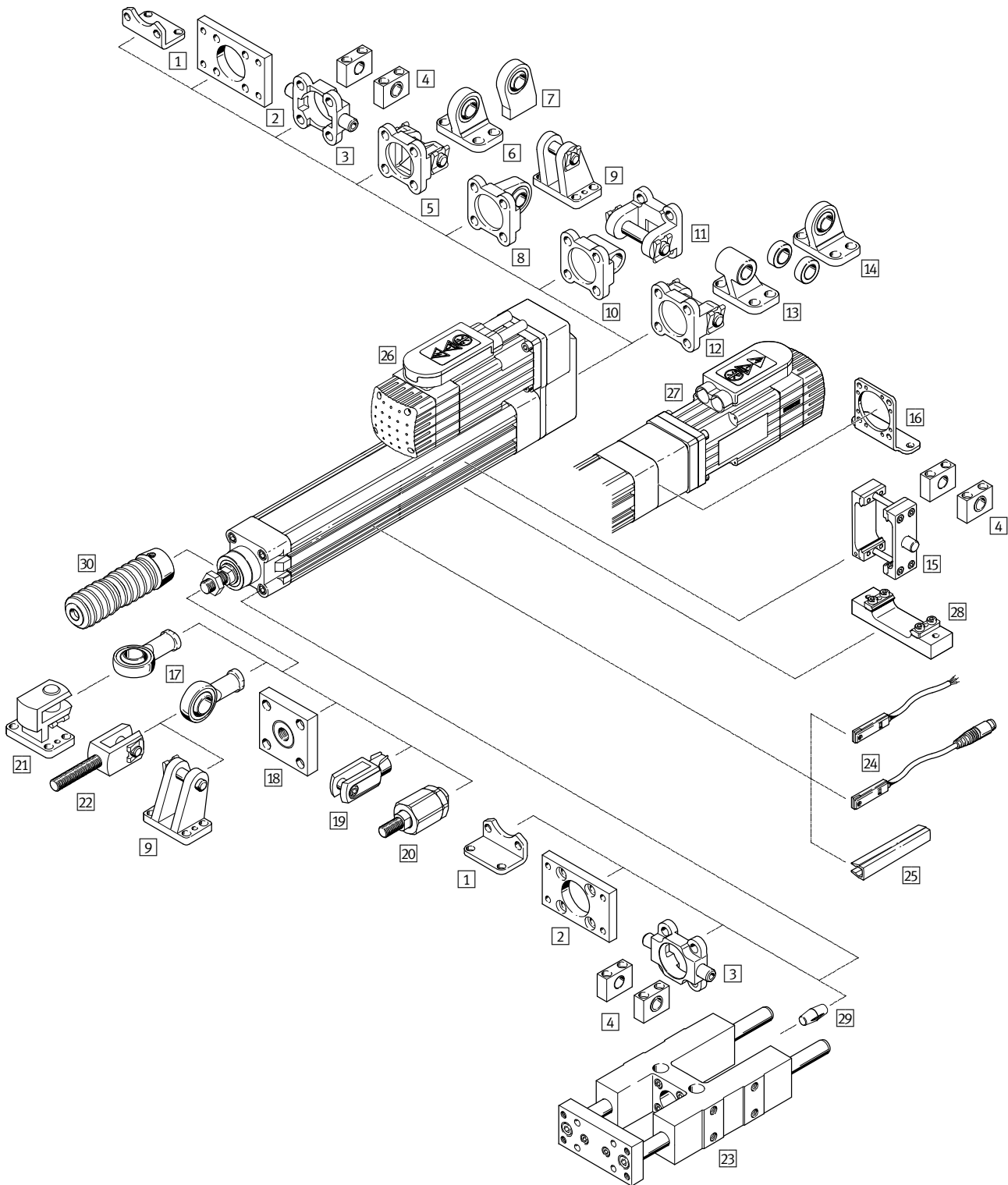
| Drive function | |
|----------------|--------------------|
| LS | Lead screw spindle |
| BS | Ball screw spindle |

| Spindle pitch [mm] | |
|--------------------|-------|
| "10"P | "10"P |

| Variant | |
|---------|---|
| Q | Non-rotating piston rod |
| K8 | Extended piston rod |
| K3 | Female piston rod thread |
| P5 | Protection class IP65 |
| R3 | High corrosion protection |
| FG | Lubrication approved for use in food applications |

Electric cylinders DNCE, with spindle drive

Peripherals overview



| Mounting attachments and accessories | | |
|--------------------------------------|-------------------------------|--|
| | Description | → Page/Internet |
| 1 | Foot mounting HNC/CRHNC | For mounting the cylinder 32 |
| 2 | Flange mounting FNC/CRFNG | - Cannot be used on the bearing cap in combination with bellows kit EADB 33 |
| 3 | Trunnion flange ZNCF/CRZNG | - Cannot be used on the bearing cap in combination with bellows kit EADB 34 |

Electric cylinders DNCE, with spindle drive

Peripherals overview

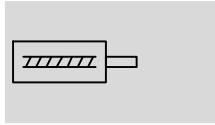
| Mounting attachments and accessories | | |
|--------------------------------------|--------------------------------------|--|
| | Description | → Page/Internet |
| 4 | Trunnion support LNZG/CRLNZG | For cylinders with trunnion mounting 35 |
| 5 | Swivel flange SNC | With parallel motor mounting 36 |
| 6 | Clevis foot LSNG | With parallel motor mounting, with spherical bearing 40 |
| 7 | Clevis foot LSNSG | With parallel motor mounting, weld-on, with spherical bearing 40 |
| 8 | Swivel flange SNCS | With parallel motor mounting, with spherical bearing 37 |
| 9 | Clevis foot LBG | With parallel motor mounting, with spherical bearing 40 |
| 10 | Swivel flange SNCL | With parallel motor mounting 38 |
| 11 | Swivel flange SNCB/SNCB-...-R3 | With parallel motor mounting, with spherical bearing 39 |
| 12 | Swivel flange SNCB/SNCB-...-R3 | With parallel motor mounting 39 |
| 13 | Clevis foot LNG/CRLNG | With parallel motor mounting 40 |
| 14 | Clevis foot LSN | With parallel motor mounting, with spherical bearing 40 |
| 15 | Trunnion mounting kit DAMT | For mounting anywhere along the cylinder profile barrel. Cannot be mounted in the vicinity of the motor with parallel motor mounting 40 |
| 16 | Foot mounting HNCE | – With axial motor mounting – Cannot be used in combination with the axial kit EAMM-A-...-S1 (protection class IP65) 30 |
| 17 | Rod eye SGS/CRSGS | With spherical bearing 41 |
| 18 | Coupling piece KSZ | To compensate for radial deviations 41 |
| 19 | Rod clevis SG/CRSG | Permits a swivelling movement of the cylinder in one plane 41 |
| 20 | Self-aligning rod coupler FK/CRFK | For compensating radial and angular deviations 41 |
| 21 | Right-angle clevis foot LQG | For rod eye SGS 41 |
| 22 | Rod clevis SGA | For swivel mounting of cylinders 41 |
| 23 | Guide unit FENG | – For protecting electric cylinders against rotation at high torque loads – Cannot be used in combination with bellows kit EADB 41 |
| 24 | Proximity sensor SME/SMT-8 | For position sensing. Can be integrated in the sensor slot, thus avoiding projecting parts 42 |
| 25 | Slot cover ABP-5-S | For protecting against the ingress of dirt 42 |
| 26 | Parallel kit EAMM-U | For parallel motor mounting 18 |
| 27 | Axial kit EAMM-A | For axial motor mounting 18 |
| 28 | Profile mounting EAHF | – For mounting the electric cylinder via the profile – Cannot be mounted in the vicinity of the motor in combination with the parallel kit EAMM-U 31 |
| 29 | Compensating element EADC | Compensates the play between the piston rod of the electric cylinder DNCE and the yoke plate of the guide unit FENG 42 |
| 30 | Bellows kit EADB | – Protects the cylinder (piston rod, seal and bearings) against a wide range of media and thus prevents premature wear – The kit can only be used in combination with an extended piston rod (K8) 27 |




Electric cylinders DNCE, with spindle drive

Technical data

FESTO

Function



-  - Size
32 ... 63
-  - Stroke length
1 ... 800 mm
-  - www.festo.com



With axial kit

With parallel kit

| General technical data | | 32 | | 40 | | 63 | |
|--|------|--------------------------------------|--|--------------------------------------|--|--------------------------------------|--|
| Design | | With lead screw spindle (LS) | | With ball screw spindle (BS) | | | |
| Piston rod thread | | Male thread | | M12x1.25 | | M16x1.5 | |
| | | Female thread | | M8 | | M10 | |
| Working stroke | [mm] | 1 ... 400 | | 1 ... 600 | | 1 ... 800 | |
| Variant | | Non-rotating piston rod | | | | | |
| Protection against rotation/guide | | Plain-bearing guide | | | | | |
| Stroke reserve | [mm] | 0 | | | | | |
| Max. torsion angle of the piston rod | [°] | ±0.30 | | ±0.25 | | ±0.20 | |
| Impact energy (E) in 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 thread | | | | | |
| | | Via accessories | | | | | |
| Mounting position | | Any | | | | | |

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

| Mechanical data | | 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. stat. axial force | [N] | 600 | 600 | 600 | 1400 | 1400 | 1400 | 3700 | 3700 | 3700 |
| Max. feed force $F_x^{1)}$ | [N] | 300 | 300 | 350 | 600 | 525 | 800 | 1000 | 2500 | 1625 |
| Continuous feed force ¹⁾ | [N] | 300 | 240 | 280 | 600 | 420 | 640 | 1000 | 2000 | 1300 |
| Max. driving torque ²⁾ | [Nm] | 0.4 | 0.4 | 0.8 | 1.15 | 0.9 | 1.9 | 3 | 4.9 | 5.9 |
| Max. radial force ³⁾ | [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 | [rpm] | 2400 | 3000 | 3000 | 1650 | 3000 | 3000 | 1050 | 3000 | 3000 |
| 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) In the case of the variant with lead screw spindle (LS), the feed force depends on the speed → 10
The feed force in the case of the variant with ball screw spindle (BS) → 8

2) In the case of the variant with lead screw spindle (LS), the driving torque depends on the rotational speed → 11

3) At the drive shaft

4) In new condition

Electric cylinders DNCE, with spindle drive

Technical data

| 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 | |
| No-load driving torque | | | | | | | | | | |
| With axial kit ¹⁾ | | | | | | | | | | |
| DNCE-... | [Nm] | 0.08 | 0.08 | 0.08 | 0.12 | 0.12 | 0.12 | 0.3 | 0.2 | 0.2 |
| DNCE-...-P5 | [Nm] | - | 0.12 | 0.12 | - | 0.18 | 0.18 | - | 0.3 | 0.3 |
| With parallel kit ¹⁾ | | | | | | | | | | |
| DNCE-... | [Nm] | 0.13 | 0.13 | 0.13 | 0.22 | 0.22 | 0.22 | 0.6 | 0.5 | 0.5 |
| DNCE-...-P5 | [Nm] | - | 0.17 | 0.17 | 0.17 | 0.28 | 0.28 | - | 0.6 | 0.6 |
| Continuous driving torque | [Nm] | 0.4 | 0.3 | 0.6 | 1.15 | 0.8 | 1.6 | 3 | 4.1 | 4.8 |

1) Measured at a speed of 200 rpm

| Operating and environmental conditions | |
|--|--|
| Ambient temperature ¹⁾ | [°C] 0 ... 50 |
| Storage temperature | [°C] -25 ... +60 |
| Protection class to IEC 60529 | |
| DNCE-... | IP40 |
| DNCE-...-P5 | IP65 |
| Relative air humidity | [%] 0 ... 95 |
| Food-safe ²⁾ | See supplementary material information |
| Corrosion resistance class CRC ³⁾ | |
| DNCE-...-R3 | 3 |

1) Note operating range of proximity sensors and motors

2) Additional information www.festo.com/sp → Certificates.

3) Corrosion resistance class CRC 3 to Festo standard FN 940070

High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional requirements for the surface and which are in direct contact with a normal industrial environment.

| 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 | 1210 | 1270 | 1350 | 2790 | 3010 | 3010 | |
| 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:

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

Electric cylinders DNCE, with spindle drive

Technical data



Calculation of the mean feed force F_{xm} for the electric cylinder DNCE with ball screw spindle (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 spindle. 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

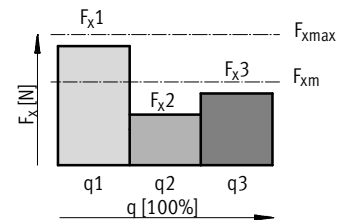
the maximum feed force. The continuous feed force must, however,

be adhered to when averaged over a movement cycle.

$$F_{xm} \leq F_{xcont}$$

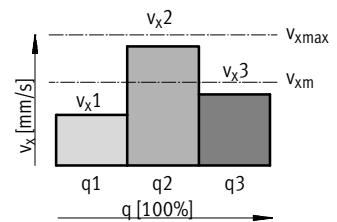
$$F_{xm} = \sqrt[3]{\sum F_x^3 \times \frac{v_x}{v_{xm}} \times \frac{q}{100}} =$$

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



Mean feed speed (to DIN 69 051-4)

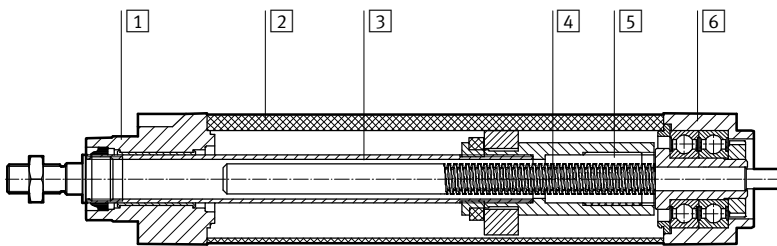
$$v_{xm} = \sum v_x \times \frac{q}{100} = v_{x1} \times \frac{q_1}{100} + v_{x2} \times \frac{q_2}{100} + v_{x3} \times \frac{q_3}{100} + \dots$$



| | | | |
|--------------|-----------------------|--------------|-----------------|
| F_x | Feed force | v_x | Feed speed |
| F_{xm} | Mean feed force | v_{xm} | Mean feed speed |
| $F_{x\max.}$ | Max. feed force | $v_{x\max.}$ | Max. feed speed |
| F_{xcont} | Continuous feed force | | |
| q | Time | | |

Materials

Sectional view

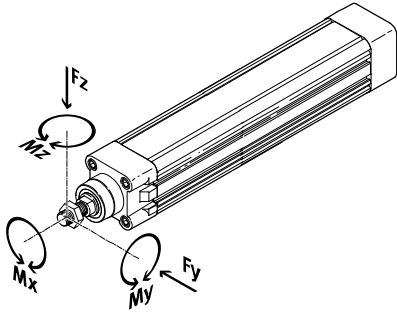


| Electric cylinder | |
|-------------------|--|
| 1 | Bearing cap Painted die-cast aluminium |
| 2 | Cylinder barrel Smooth anodised wrought aluminium alloy |
| 3 | Piston rod High-alloy stainless steel |
| 4 | Spindle Steel |
| 5 | Spindle nut for LS Polyacetal |
| | Spindle nut for BS Steel |
| 6 | Drive cover Painted die-cast aluminium |
| - | Note on materials RoHS-compliant Contains PWIS (paint-wetting impairment substances) |

Electric cylinders DNCE, with spindle drive

Technical data

Maximum permissible loads on the piston rod



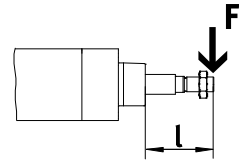
If there are two or more forces and torques simultaneously acting on the piston rod, the following equations must be satisfied:

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

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

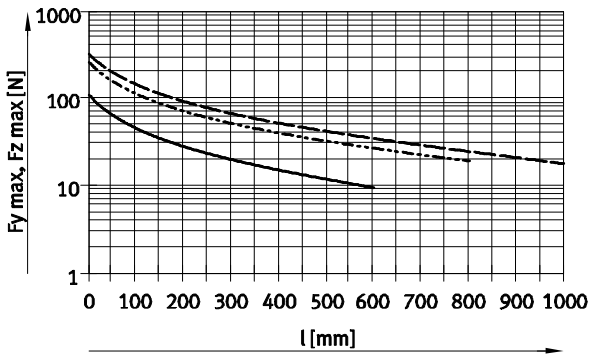
$$|M_x| \leq M_{x_{max}}$$

Definition of the stroke length l:
 l = Stroke + value of the piston rod extension K8

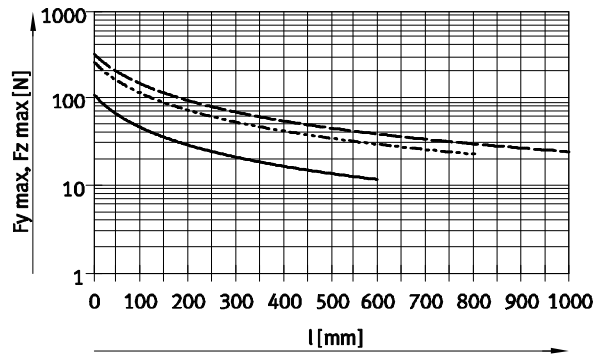


Maximum permissible lateral forces $F_{y_{max}}$ and $F_{z_{max}}$ on the piston rod as a function of stroke length l

Horizontal mounting position



Vertical mounting position



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

Note
 PositioningDrives
 sizing software
www.festo.com

| Size | 32 | 40 | 63 |
|--|-----|------|------|
| Maximum permissible forces and torques | | | |
| $F_{x_{max}}$ (static) [N] | 600 | 1400 | 3700 |
| $M_{x_{max}}$ [Nm] | 1 | 1 | 1.5 |
| $M_{y_{max}}, M_{z_{max}}$ [Nm] | 8 | 20 | 27 |

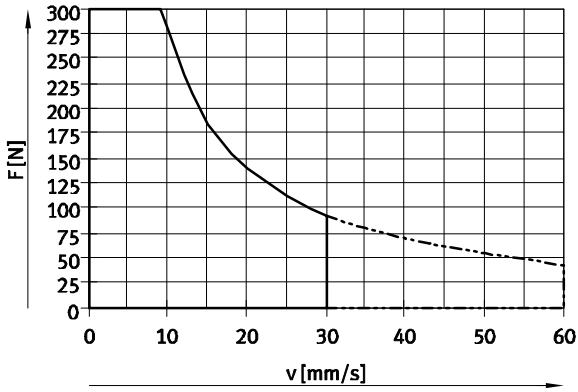
Electric cylinders DNCE, with spindle drive

Technical data

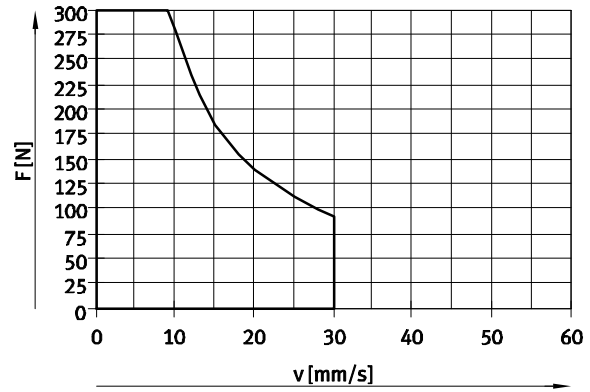


Feed force F as a function of speed v

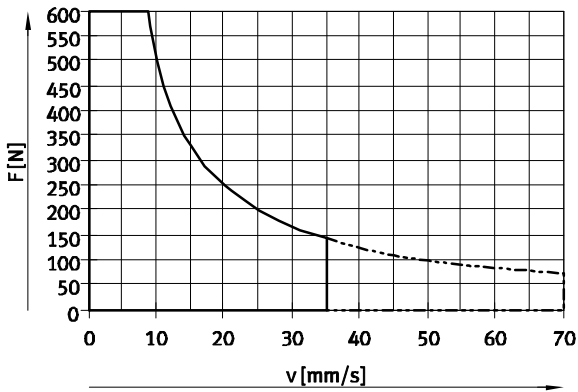
DNCE-32-1...299-LS-...



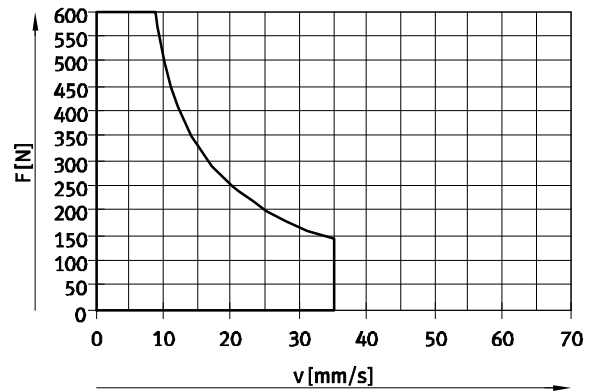
DNCE-32-300...400-LS-...



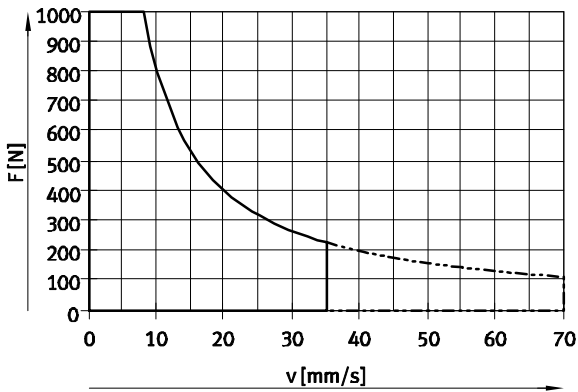
DNCE-40-1...299-LS-...



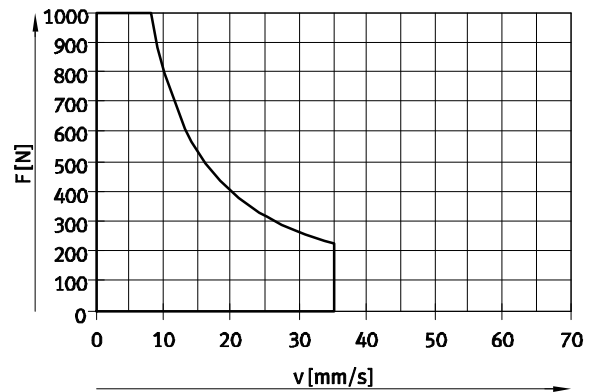
DNCE-40-300...600-LS-...



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



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



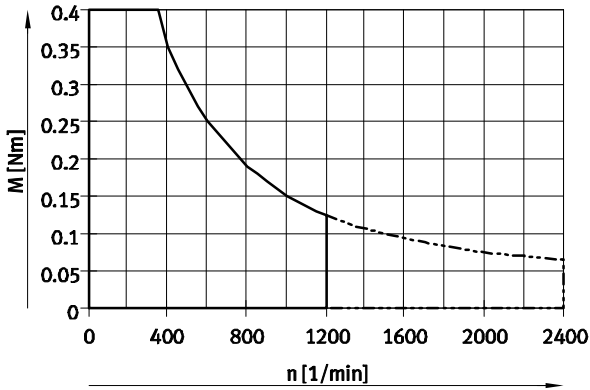
- Recommended operating range
- - - Permissible operating range
(duty cycle < 50% recommended)

Electric cylinders DNCE, with spindle drive

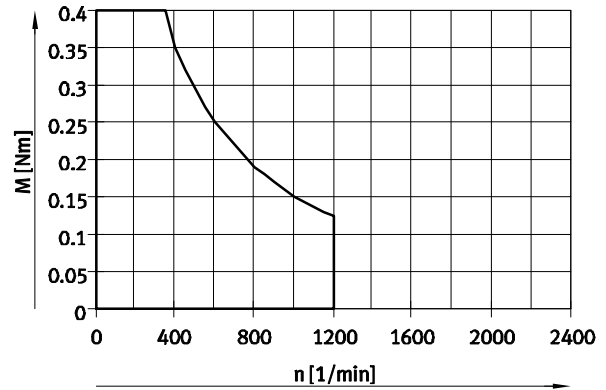
Technical data

Driving torque M as a function of rotational speed n

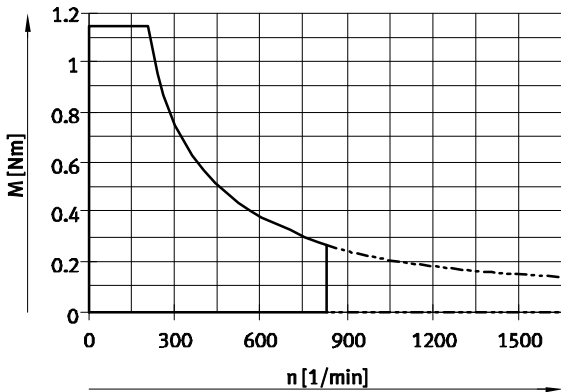
DNCE-32-1...299-LS-...



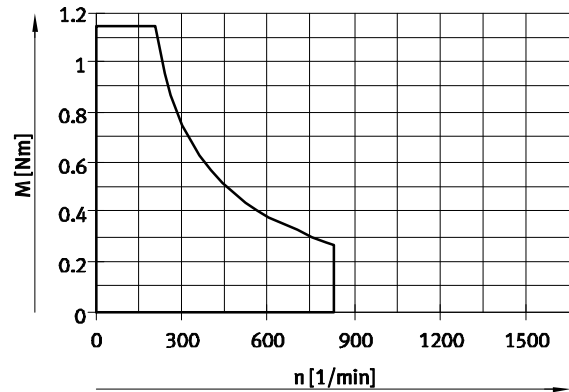
DNCE-32-300...400-LS-...



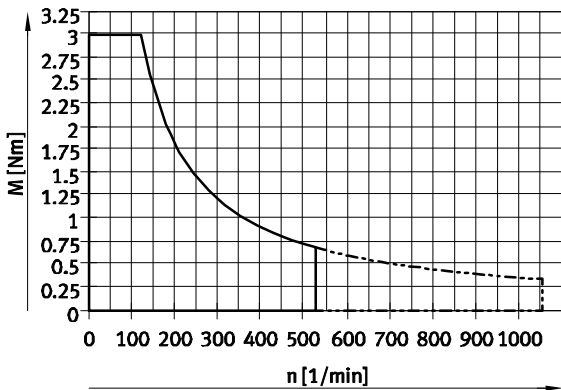
DNCE-40-1...299-LS-...



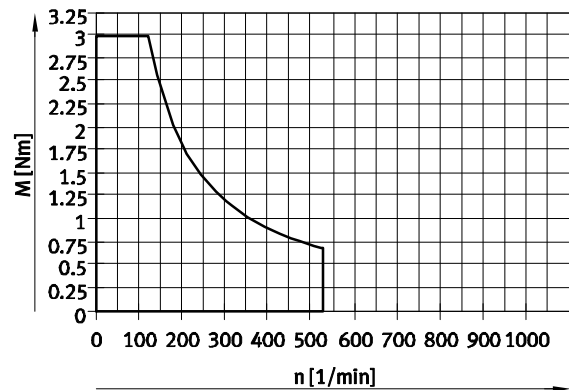
DNCE-40-300...600-LS-...



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



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



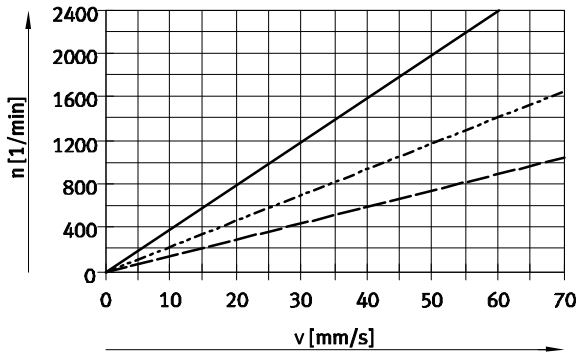
- Recommended operating range
- - - Permissible operating range
(duty cycle < 50% recommended)

Electric cylinders DNCE, with spindle drive

Technical data

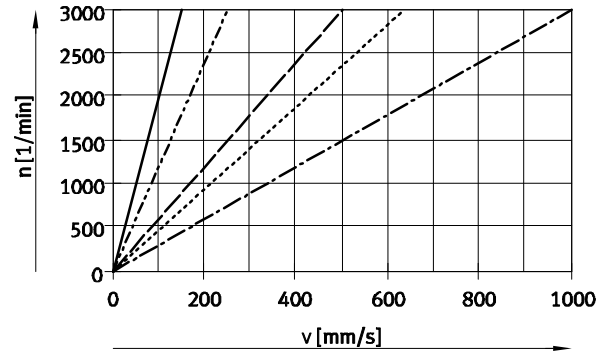
Rotational speed n as a function of speed v

DNCE-...-LS-...



- DNCE-32-LS-1,5°P
- - - DNCE-40-LS-2,5°P
- · - DNCE-63-LS-4°P

DNCE-...-BS-...



- DNCE-32-BS-3°P
- - - DNCE-40-BS-5°P
- · - DNCE-63-BS-10°P
- - - DNCE-32-BS-10°P
- · - DNCE-40-BS-12,7°P
- · - DNCE-63-BS-20°P

Driving torque M as a function of feed force F

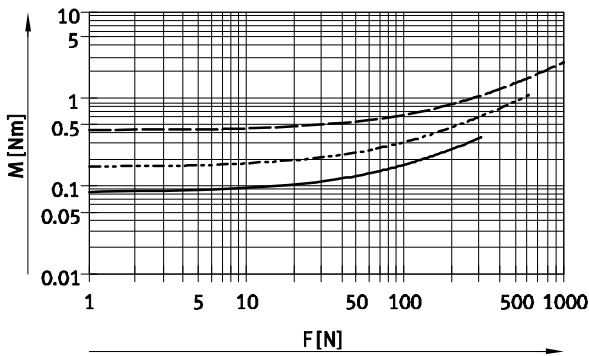


The frictional torques at room temperature are taken into consideration in the graphs.

The frictional torques with the DNCE-...-LS (lead screw spindle) increase at lower temperatures.

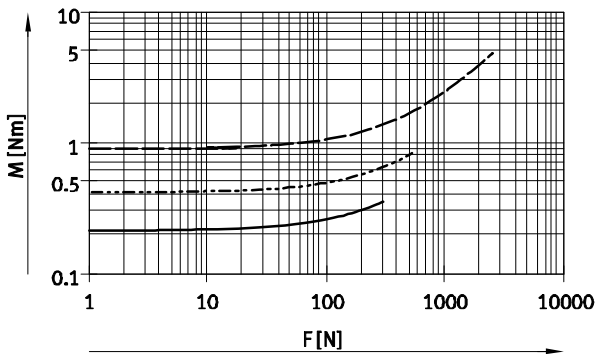
PositioningDrives sizing software
[→ www.festo.com](http://www.festo.com)

DNCE-...-LS-...

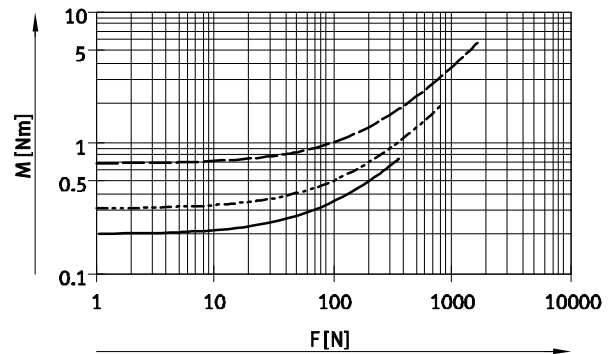


- DNCE-32-LS-1,5°P
- - - DNCE-40-LS-2,5°P
- · - DNCE-63-LS-4°P

DNCE-...-BS-...



- DNCE-32-BS-3°P
- - - DNCE-40-BS-5°P
- · - DNCE-63-BS-10°P

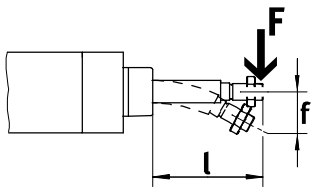


- DNCE-32-BS-10°P
- - - DNCE-40-BS-12,7°P
- · - DNCE-63-BS-20°P

Electric cylinders DNCE, with spindle drive

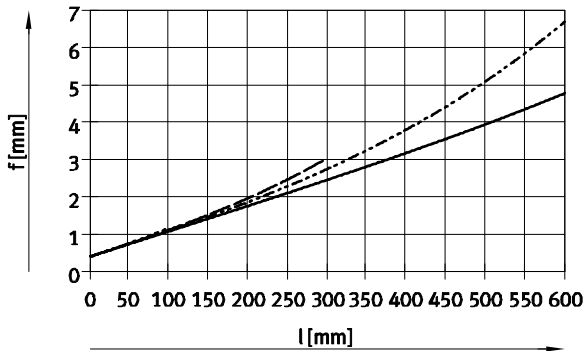
Technical data

Piston rod displacement f as a function of stroke length l



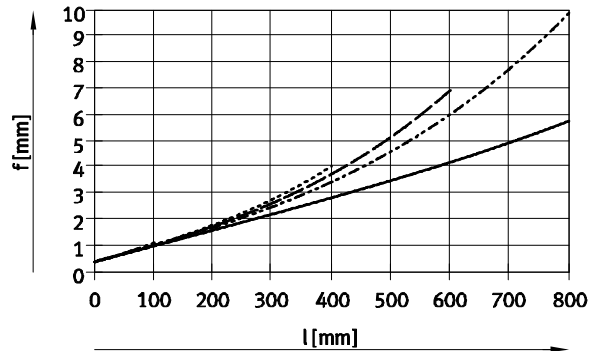
Definition of the stroke length l :
 $l = \text{Stroke} + \text{value of the piston rod extension K8}$

DNCE-32-...



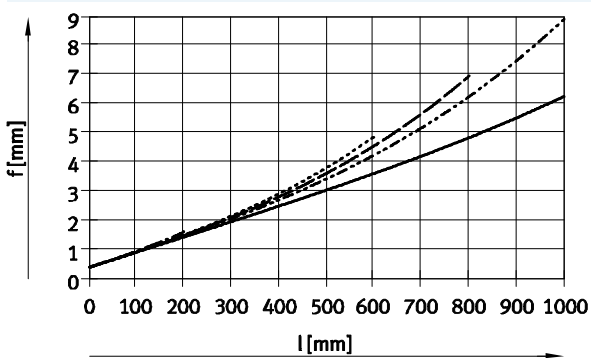
- Lateral force $F = 0$ N
- - - Lateral force $F = 10$ N
- · - Lateral force $F = 20$ N
- · · - Lateral force $F = 45$ N

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-...



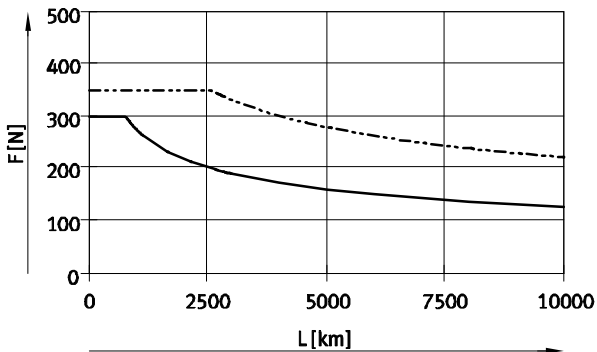
- Lateral force = 0 N
- - - Lateral force = 20 N
- · - Lateral force = 30 N
- · · - Lateral force = 40 N
- · · · Lateral force = 95 N

Electric cylinders DNCE, with spindle drive

Technical data

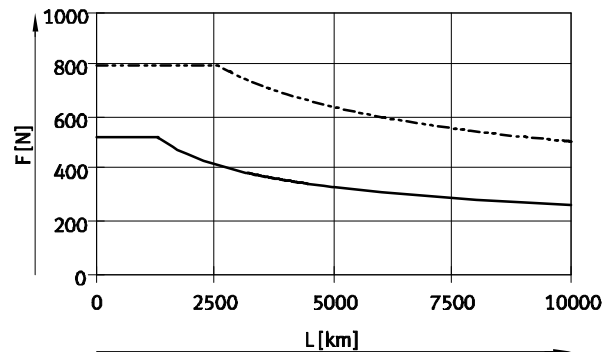
Mean feed force F as a function of running performance L (to DIN 69 051-4)

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



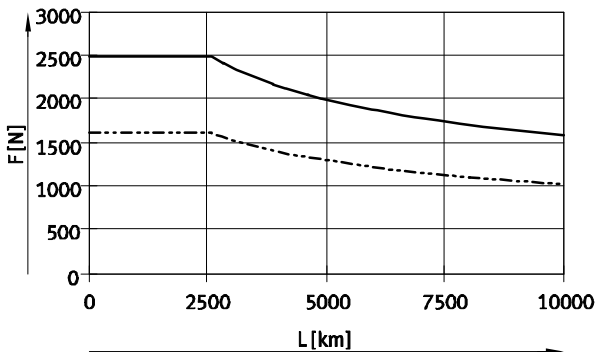
— DNCE-32-BS-3\"P
 - - - DNCE-32-BS-10\"P

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



— DNCE-40-BS-5\"P
 - - - DNCE-40-BS-12,7\"P

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



— DNCE-63-BS-10\"P
 - - - DNCE-63-BS-20\"P

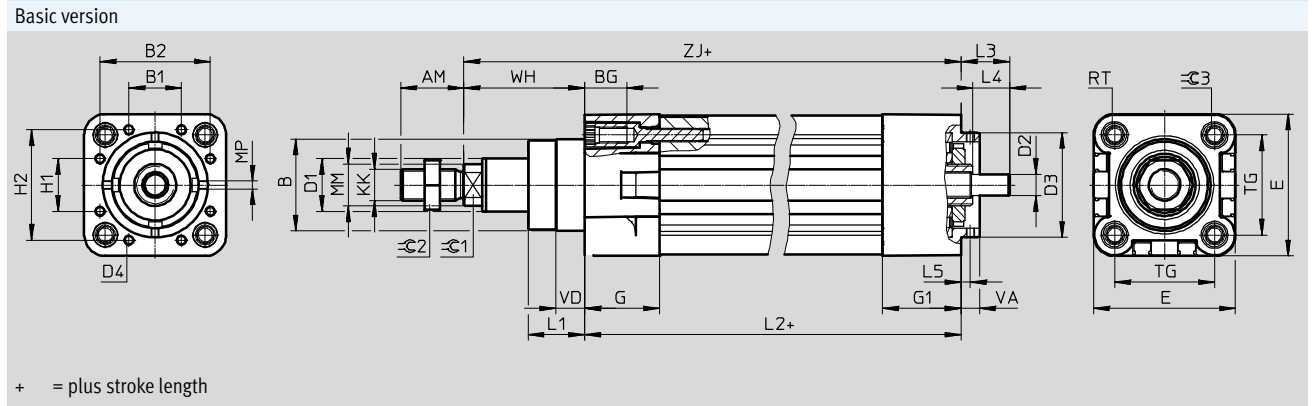
Note

- The specifications for running performance are based on experimentally determined and theoretically calculated data. The running performance attainable in practice can deviate considerably from the specified curves under different parameters.

Electric cylinders DNCE, with spindle drive

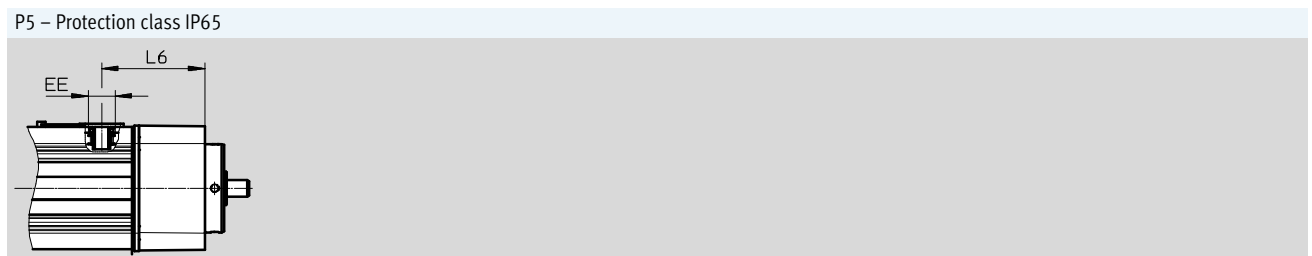
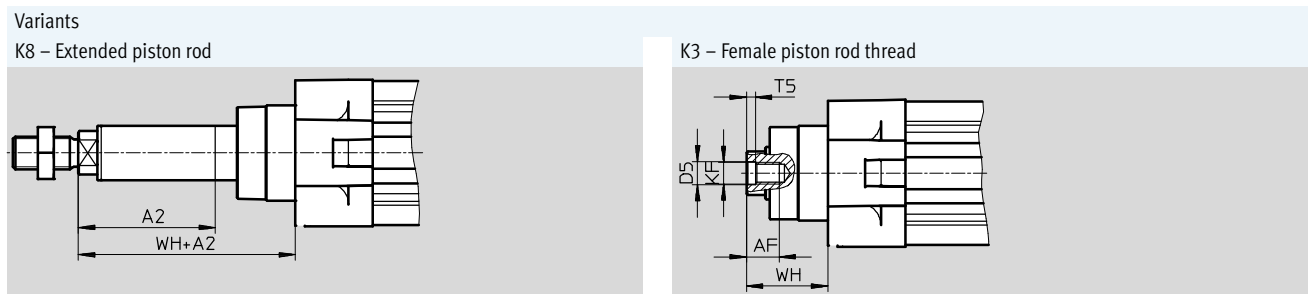
Technical data

Dimensions Download CAD data → www.festo.com



| Size | AM | B | B1 | B2 | BG | D1 | D2 | D3 | D4 | E | G | G1 | H1 | H2 | KK |
|------|----|----------|----|----|----|---------|---------|---------|----|------|------|----|----|----|----------|
| [mm] | | ∅ d11 | | | | ∅ h9 | ∅ h6 | ∅ f7 | | | | | | | |
| 32 | 22 | 30 | 19 | 32 | 16 | 16 | 6 | 32 | M3 | 45.5 | 24 | 26 | 19 | 32 | M10x1.25 |
| 40 | 24 | 35 | 20 | 42 | 16 | 20 | 8 | 40 | M4 | 54 | 28.5 | 30 | 20 | 42 | M12x1.25 |
| 63 | 32 | 45 | 31 | 62 | 17 | 28 | 12 | 60 | M5 | 75.5 | 34 | 36 | 31 | 62 | M16x1.5 |

| Size | L1 | L2 | L3 | L4 | L5 | MM | MP | RT | TG | VA | VD | WH | ZJ | ∅C1 | ∅C2 | ∅C3 |
|------|------|-------|------|----|-----|----|----|----|------|----|---------|----|-------|-----|-----|-----|
| [mm] | | | | | | | | | | | +1/-0.7 | | ±1 | | | |
| 32 | 18 | 122 | 15.9 | 8 | 3.5 | 12 | M3 | M6 | 32.5 | 7 | 10 | 26 | 148 | 10 | 17 | 6 |
| 40 | 21.5 | 146.5 | 18.4 | 14 | 3.5 | 16 | M3 | M6 | 38 | 7 | 10.5 | 30 | 176.5 | 13 | 19 | 6 |
| 63 | 28.5 | 177 | 23.5 | 17 | 4.5 | 20 | M4 | M8 | 56.5 | 9 | 15 | 37 | 214 | 17 | 24 | 8 |



| Size | A2 | AF | EE | KF | L6 | T5 | D5 | WH |
|------|------|----|-------------------------------|-----|------|-----|------|----|
| [mm] | max. | | | | | | | |
| 32 | 200 | 12 | G ¹ / ₈ | M6 | 37.6 | 2.6 | 6.4 | 26 |
| 40 | 200 | 12 | G ¹ / ₄ | M8 | 45.6 | 3.3 | 8.4 | 30 |
| 63 | 200 | 16 | G ¹ / ₄ | M10 | 57.6 | 4.7 | 10.5 | 37 |

Electric cylinders DNCE, with spindle drive


Technical data

FESTO

| Ordering data – DNCE-32 | | | Ordering data – DNCE-32 | | |
|---|----------|------------------------|--|----------|-------------------------|
| Stroke [mm] | Part No. | Type | Stroke [mm] | Part No. | Type |
| Ball screw spindle with spindle pitch 3 mm | | | Lead screw spindle with spindle pitch 1.5 mm | | |
| 100 | 543115 | DNCE-32-100-BS-”3”P-Q | 100 | 543111 | DNCE-32-100-LS-”1,5”P-Q |
| 200 | 543116 | DNCE-32-200-BS-”3”P-Q | 200 | 543112 | DNCE-32-200-LS-”1,5”P-Q |
| 300 | 543117 | DNCE-32-300-BS-”3”P-Q | 300 | 543113 | DNCE-32-300-LS-”1,5”P-Q |
| 400 | 543118 | DNCE-32-400-BS-”3”P-Q | 400 | 543114 | DNCE-32-400-LS-”1,5”P-Q |
| Ball screw spindle with spindle pitch 10 mm | | | | | |
| 100 | 543119 | DNCE-32-100-BS-”10”P-Q | | | |
| 200 | 543120 | DNCE-32-200-BS-”10”P-Q | | | |
| 300 | 543121 | DNCE-32-300-BS-”10”P-Q | | | |
| 400 | 543122 | DNCE-32-400-BS-”10”P-Q | | | |

| Ordering data – DNCE-40 | | | Ordering data – DNCE-40 | | |
|---|----------|--------------------------|--|----------|-------------------------|
| Stroke [mm] | Part No. | Type | Stroke [mm] | Part No. | Type |
| Ball screw spindle with spindle pitch 5 mm | | | Lead screw spindle with spindle pitch 2.5 mm | | |
| 100 | 543127 | DNCE-40-100-BS-”5”P-Q | 100 | 543123 | DNCE-40-100-LS-”2,5”P-Q |
| 200 | 543128 | DNCE-40-200-BS-”5”P-Q | 200 | 543124 | DNCE-40-200-LS-”2,5”P-Q |
| 300 | 555466 | DNCE-40-300-BS-”5”P-Q | 300 | 555465 | DNCE-40-300-LS-”2,5”P-Q |
| 400 | 543129 | DNCE-40-400-BS-”5”P-Q | 400 | 543125 | DNCE-40-400-LS-”2,5”P-Q |
| 600 | 543130 | DNCE-40-600-BS-”5”P-Q | 600 | 543126 | DNCE-40-600-LS-”2,5”P-Q |
| Ball screw spindle with spindle pitch 12.7 mm | | | | | |
| 100 | 543131 | DNCE-40-100-BS-”12,7”P-Q | | | |
| 200 | 543132 | DNCE-40-200-BS-”12,7”P-Q | | | |
| 300 | 555467 | DNCE-40-300-BS-”12,7”P-Q | | | |
| 400 | 543133 | DNCE-40-400-BS-”12,7”P-Q | | | |
| 600 | 543134 | DNCE-40-600-BS-”12,7”P-Q | | | |

| Ordering data – DNCE-63 | | | Ordering data – DNCE-63 | | |
|---|----------|------------------------|--|----------|-----------------------|
| Stroke [mm] | Part No. | Type | Stroke [mm] | Part No. | Type |
| Ball screw spindle with spindle pitch 10 mm | | | Lead screw spindle with spindle pitch 4 mm | | |
| 100 | 555470 | DNCE-63-100-BS-”10”P-Q | 100 | 555468 | DNCE-63-100-LS-”4”P-Q |
| 200 | 543139 | DNCE-63-200-BS-”10”P-Q | 200 | 543135 | DNCE-63-200-LS-”4”P-Q |
| 300 | 555471 | DNCE-63-300-BS-”10”P-Q | 300 | 555469 | DNCE-63-300-LS-”4”P-Q |
| 400 | 543140 | DNCE-63-400-BS-”10”P-Q | 400 | 543136 | DNCE-63-400-LS-”4”P-Q |
| 600 | 543141 | DNCE-63-600-BS-”10”P-Q | 600 | 543137 | DNCE-63-600-LS-”4”P-Q |
| 800 | 543142 | DNCE-63-800-BS-”10”P-Q | 800 | 543138 | DNCE-63-800-LS-”4”P-Q |
| Ball screw spindle with spindle pitch 20 mm | | | | | |
| 100 | 555472 | DNCE-63-100-BS-”20”P-Q | | | |
| 200 | 543143 | DNCE-63-200-BS-”20”P-Q | | | |
| 300 | 555473 | DNCE-63-300-BS-”20”P-Q | | | |
| 400 | 543144 | DNCE-63-400-BS-”20”P-Q | | | |
| 600 | 543145 | DNCE-63-600-BS-”20”P-Q | | | |
| 800 | 543146 | DNCE-63-800-BS-”20”P-Q | | | |

 Note
Order variable strokes via the modular product system → 17

Electric cylinders DNCE, with spindle drive

Ordering data – Modular products

| Ordering table | | | | | | |
|-------------------------------|---|---------------|---------------|-----------------|----------------|---------------|
| Size | 32 | 40 | 63 | Condi- tions | Code | Enter code |
| M Module No. | 555488 | 555489 | 555490 | | | |
| Function | Electric 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 |
| O Extended piston rod | 1 ... 200 | | | [3] | -...K8 | |
| Female thread | M6 | M8 | M10 | [3] | -K3 | |
| Protection class to IEC 60529 | IP65 | | | [3] | -P5 | |
| Corrosion protection | High corrosion protection | | | [3] [4] | -R3 | |
| Lubrication | Lubrication approved for use in food applications | | | [3] [5] | -FG | |

- [1] ... Additional stroke lengths on 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, ...K8, K3, P5**
Only with ball screw spindle BS
- [4] **R3** Only with P5
- [5] **FG** Only with R3 and P5


Transfer order code

DNCE - - - - - - **Q** - - -

Electric cylinders DNCE, with spindle drive

Accessories

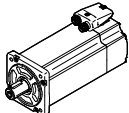
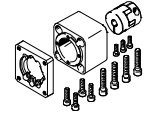
FESTO

 Note

Depending on the combination of motor and drive, it may not be possible to reach the maximum feed force of the drive.

When using parallel kits, the no-load driving torque of the respective kit must be taking into consideration.

The following tool is available for sizing:
PositioningDrives engineering software
→ www.festo.com

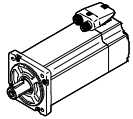
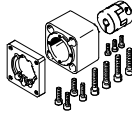
| Permissible axis/motor combinations with axial kit | | | Technical data → Internet: eamm-a |
|---|--|---------------------------------|-----------------------------------|
| Motor/gear unit ¹⁾ | Axial kit | | |
|  |  | | |
| Type | Part No. | Type | |
| DNCE-32 | | | |
| With servo motor | | | |
| EMME-AS-40-... | 1976465 | EAMM-A-D32-40P | |
| | 2207372 | EAMM-A-D32-40P-S1 ²⁾ | |
| EMMS-AS-40-... | 543147 | EAMM-A-D32-40A | |
| | 1322178 | EAMM-A-D32-40A-S1 ²⁾ | |
| EMMS-AS-55-... | 550979 | EAMM-A-D32-55A | |
| | 1322180 | EAMM-A-D32-55A-S1 ²⁾ | |
| EMME-AS-60-... | 1956054 | EAMM-A-D32-60P | |
| | 2234020 | EAMM-A-D32-60P-S1 ²⁾ | |
| With servo motor and gear unit | | | |
| EMME-AS-40-... | 1454238 | EAMM-A-D32-40G | |
| EMGA-40-P-G...-EAS-40 | 2256396 | EAMM-A-D32-40G-S1 ²⁾ | |
| EMMS-AS-40-... | 1454238 | EAMM-A-D32-40G | |
| EMGA-40-P-G...-SAS-40 | 2256396 | EAMM-A-D32-40G-S1 ²⁾ | |
| EMMS-AS-55-... | 2946758 | EAMM-A-D32-60G | |
| EMGA-60-P-G...-SAS-55 | 2946759 | EAMM-A-D32-60G-S1 ²⁾ | |
| EMME-AS-60-... | 2946760 | EAMM-A-D32-60H | |
| EMGA-60-P-G...-EAS-60 | 2946761 | EAMM-A-D32-60H-S1 ²⁾ | |
| EMMS-AS-70-... | 2946758 | EAMM-A-D32-60G | |
| EMGA-60-P-G...-SAS-70 | 2946759 | EAMM-A-D32-60G-S1 ²⁾ | |
| With stepper motor | | | |
| EMMS-ST-42-... | 543148 | EAMM-A-D32-42A | |
| | 1322179 | EAMM-A-D32-42A-S1 ²⁾ | |
| EMMS-ST-57-... | 550980 | EAMM-A-D32-57A | |
| | 1322181 | EAMM-A-D32-57A-S1 ²⁾ | |
| With stepper motor and gear unit | | | |
| EMMS-ST-42-... | 1454238 | EAMM-A-D32-40G | |
| EMGA-40-P-G...-SST-42 | 2256396 | EAMM-A-D32-40G-S1 ²⁾ | |
| EMMS-ST-57-... | 2946758 | EAMM-A-D32-60G | |
| EMGA-60-P-G...-SST-57 | 2946759 | EAMM-A-D32-60G-S1 ²⁾ | |
| With integrated drive | | | |
| EMCA-EC-67-... | 1454239 | EAMM-A-D32-67A | |
| | 2256397 | EAMM-A-D32-67A-S1 ²⁾ | |
| With motor unit | | | |
| MTR-DCI-32S-... ³⁾ | 543149 | EAMM-A-D32-32B | |
| With integrated drive and gear unit | | | |
| EMCA-EC-67-... | 1454238 | EAMM-A-D32-40G | |
| EMGC-40-... | 2256396 | EAMM-A-D32-40G-S1 ²⁾ | |
| EMCA-EC-67-... | 2946760 | EAMM-A-D32-60H | |
| EMGC-60-... | 2946761 | EAMM-A-D32-60H-S1 ²⁾ | |

1) The input torque must not exceed the maximum permissible transferable torque of the axial kit.
2) With degree of protection IP65.
3) Only in combination with DNCE-...-LS.

Electric cylinders DNCE, with spindle drive

Accessories

FESTO

| Permissible axis/motor combinations with axial kit | | Technical data → Internet: eamm-a | |
|---|--|-----------------------------------|--|
| Motor/gear unit ¹⁾ | Axial kit | | |
|  |  | | |
| Type | Part No. | Type | |
| DNCE-40 | | | |
| With servo motor | | | |
| EMMS-AS-55-... | 543153 | EAMM-A-D40-55A | |
| | 1322182 | EAMM-A-D40-55A-S1 ²⁾ | |
| EMME-AS-60-... | 1977000 | EAMM-A-D40-60P | |
| | 2151519 | EAMM-A-D40-60P-S1 ²⁾ | |
| EMMS-AS-70-... | 550981 | EAMM-A-D40-70A | |
| | 1322185 | EAMM-A-D40-70A-S1 ²⁾ | |
| With servo motor and gear unit | | | |
| EMME-AS-40-... | 560282 | EAMM-A-D40-40G ³⁾ | |
| EMGA-40-P-G...-EAS-40 | 2256398 | EAMM-A-D40-40G-G2 | |
| | 2256399 | EAMM-A-D40-40G-S1 ²⁾ | |
| EMMS-AS-40-... | 560282 | EAMM-A-D40-40G ³⁾ | |
| EMGA-40-P-G...-SAS-40 | 2256398 | EAMM-A-D40-40G-G2 | |
| | 2256399 | EAMM-A-D40-40G-S1 ²⁾ | |
| EMMS-AS-55-... | 2256400 | EAMM-A-D40-60G | |
| EMGA-60-P-G...-SAS-55 | 2256409 | EAMM-A-D40-60G-S1 ²⁾ | |
| EMME-AS-60-... | 1454242 | EAMM-A-D40-60H | |
| EMGA-60-P-G...-EAS-60 | 2256401 | EAMM-A-D40-60H-S1 ²⁾ | |
| EMMS-AS-70-... | 2256400 | EAMM-A-D40-60G | |
| EMGA-60-P-G...-SAS-70 | 2256409 | EAMM-A-D40-60G-S1 ²⁾ | |
| With stepper motor | | | |
| EMMS-ST-57-... | 543154 | EAMM-A-D40-57A | |
| | 1322183 | EAMM-A-D40-57A-S1 ²⁾ | |
| EMMS-ST-87-... | 550982 | EAMM-A-D40-87A | |
| | 1322186 | EAMM-A-D40-87A-S1 ²⁾ | |
| With stepper motor and gear unit | | | |
| EMMS-ST-42-... | 560282 | EAMM-A-D40-40G ³⁾ | |
| EMGA-40-P-G...-SST-42 | 2256398 | EAMM-A-D40-40G-G2 | |
| | 2256399 | EAMM-A-D40-40G-S1 ²⁾ | |
| EMMS-ST-57-... | 2256400 | EAMM-A-D40-60G | |
| EMGA-60-P-G...-SST-57 | 2256409 | EAMM-A-D40-60G-S1 ²⁾ | |
| With integrated drive | | | |
| EMCA-EC-67-... | 1454243 | EAMM-A-D40-67A | |
| | 2256695 | EAMM-A-D40-67A-S1 ²⁾ | |
| With motor unit | | | |
| MTR-DCI-42S-...-G7 ⁴⁾ | 543155 | EAMM-A-D40-42B | |
| MTR-DCI-42S-...-G14 ⁴⁾ | 543156 | EAMM-A-D40-42C | |
| With integrated drive and gear unit | | | |
| EMCA-EC-67-... | 560282 | EAMM-A-D40-40G ³⁾ | |
| EMGC-40-... | 2256398 | EAMM-A-D40-40G-G2 | |
| | 2256399 | EAMM-A-D40-40G-S1 ²⁾ | |
| EMCA-EC-67-... | 1454242 | EAMM-A-D40-60H | |
| EMGC-60-... | 2256401 | EAMM-A-D40-60H-S1 ²⁾ | |

1) The input torque must not exceed the maximum permissible transferable torque of the axial kit.

2) With degree of protection IP65.

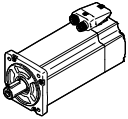
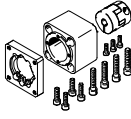
3) Type discontinued

4) Only in combination with DNCE-...-LS.


Electric cylinders DNCE, with spindle drive

Accessories

FESTO

| Permissible axis/motor combinations with axial kit | | Technical data → Internet: eamm-a | |
|---|--|-----------------------------------|--|
| Motor/gear unit ¹⁾ | Axial kit | | |
|  |  | | |
| Type | Part No. | Type | |
| DNCE-63 | | | |
| With servo motor | | | |
| EMMS-AS-70-... | 543161 | EAMM-A-D60-70A | |
| | 2256699 | EAMM-A-D60-70A-S1 ²⁾ | |
| EMME-AS-80-... | 1977073 | EAMM-A-D60-80P | |
| | 2218564 | EAMM-A-D60-80P-S1 ²⁾ | |
| EMME-AS-100-... | 550983 | EAMM-A-D60-100A | |
| | 2256700 | EAMM-A-D60-100A-S1 ²⁾ | |
| EMMS-AS-100-... | 550983 | EAMM-A-D60-100A | |
| | 2256700 | EAMM-A-D60-100A-S1 ²⁾ | |
| With servo motor and gear unit | | | |
| EMMS-AS-55-... | 560283 | EAMM-A-D60-60G ³⁾ | |
| EMGA-60-P-G...-SAS-55 | 2256696 | EAMM-A-D60-60G-G2 | |
| | 2256698 | EAMM-A-D60-60G-S1 ²⁾ | |
| EMME-AS-60-... | 1454245 | EAMM-A-D60-60H | |
| EMGA-60-P-G...-EAS-60 | 2256697 | EAMM-A-D60-60H-S1 ²⁾ | |
| EMMS-AS-70-... | 560283 | EAMM-A-D60-60G ³⁾ | |
| EMGA-60-P-G...-SAS-70 | 2256696 | EAMM-A-D60-60G-G2 | |
| | 2256698 | EAMM-A-D60-60G-S1 ²⁾ | |
| EMMS-AS-70-... | 1499402 | EAMM-A-D60-80G | |
| EMGA-80-P-G...-SAS-70 | 2946762 | EAMM-A-D60-80G-S1 ²⁾ | |
| | 1499402 | EAMM-A-D60-80G | |
| EMGA-80-P-G...-EAS-80 | 2946762 | EAMM-A-D60-80G-S1 ²⁾ | |
| | 1499402 | EAMM-A-D60-80G | |
| EMMS-AS-100-... | 1499402 | EAMM-A-D60-80G | |
| EMGA-80-P-G...-SAS-100 | 2946762 | EAMM-A-D60-80G-S1 ²⁾ | |
| With stepper motor | | | |
| EMMS-ST-87-... | 543162 | EAMM-A-D60-87A | |
| | 1322188 | EAMM-A-D60-87A-S1 ²⁾ | |
| With stepper motor and gear unit | | | |
| EMMS-ST-57-... | 560283 | EAMM-A-D60-60G ³⁾ | |
| EMGA-60-P-G...-SST-57 | 2256696 | EAMM-A-D60-60G-G2 | |
| | 2256698 | EAMM-A-D60-60G-S1 ²⁾ | |
| EMMS-ST-87-... | 1499402 | EAMM-A-D60-80G | |
| EMGA-80-P-G...-SST-87 | 2946762 | EAMM-A-D60-80G-S1 ²⁾ | |
| With motor unit ³⁾ | | | |
| MTR-DCI-52S-...-G7 ⁴⁾ | 543163 | EAMM-A-D60-52B | |
| MTR-DCI-52S-...-G14 ⁴⁾ | 543164 | EAMM-A-D60-52C | |
| With integrated drive and gear unit | | | |
| EMCA-EC-67-... | 1454245 | EAMM-A-D60-60H | |
| EMGC-60-... | 2256697 | EAMM-A-D60-60H-S1 ²⁾ | |

- 1) The input torque must not exceed the maximum permissible transferable torque of the axial kit.
- 2) With degree of protection IP65.
- 3) Type discontinued.
- 4) Only in combination with DNCE-...-LS.

-  - Note

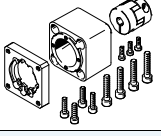


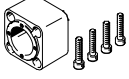
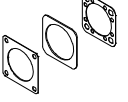
The axial kit (without "S1" in the type code) can be retrofitted with a seal set EADS-F to change the

degree of protection from IP40 to IP65.

More information
→ eamm-u

Electric cylinders DNCE, with spindle drive

Accessories

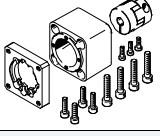


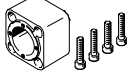
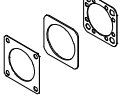
| Component parts of the axial kit | | | | |
|---|---|---|--|---|
| Axial kit | Comprising: | | | |
| | Motor flange | Coupling | Coupling housing | Seal set |
|  |  |  |  |  |
| Part No. Type | Part No.. Type | Part No. Type | Part No. Type | Part No. Type |
| DNCE-32 | | | | |
| 543149 EAMM-A-D32-32B ²⁾ | – | 543420 EAMC-16-20-6-6 | 552156 EAMK-A-D32-32B | – |
| 543147 EAMM-A-D32-40A | 552163 EAMF-A-28B-40A | 543420 EAMC-16-20-6-6 | 552155 EAMK-A-D32-28B | – |
| 1322178 EAMM-A-D32-40A-S1 ¹⁾ | | | | 1561526 EADS-F-D32-40A |
| 1454238 EAMM-A-D32-40G | 1460095 EAMF-A-44C-40G-S1 | 562681 EAMC-30-32-6-10 | 551006 EAMK-A-D32-44A/C | – |
| 2256396 EAMM-A-D32-40G-S1 ¹⁾ | | | | 2253500 EADS-F-D32-40G |
| 1976465 EAMM-A-D32-40P | 1976704 EAMF-A-28B-40P | 1232854 EAMC-16-20-6-8 | 552155 EAMK-A-D32-28B | – |
| 2207372 EAMM-A-D32-40P-S1 ¹⁾ | | | | 2207219 EADS-F-D32-40P |
| 543148 EAMM-A-D32-42A | 552164 EAMF-A-28B-42A | 543419 EAMC-16-20-5-6 | 552155 EAMK-A-D32-28B | – |
| 1322179 EAMM-A-D32-42A-S1 ¹⁾ | | | | 1561527 EADS-F-D32-42A |
| 550979 EAMM-A-D32-55A | 529942 EAMF-A-44A/B-55A | 551003 EAMC-30-32-6-9 | 551006 EAMK-A-D32-44A/C | – |
| 1322180 EAMM-A-D32-55A-S1 ¹⁾ | | | | 1561528 EADS-F-D32-55A |
| 550980 EAMM-A-D32-57A | 530081 EAMF-A-44A/B-57A | 551002 EAMC-30-32-6-6.35 | 551006 EAMK-A-D32-44A/C | – |
| 1322181 EAMM-A-D32-57A-S1 ¹⁾ | | | | 1561529 EADS-F-D32-57A |
| 2946758 EAMM-A-D32-60G | 1460105 EAMF-A-44C-60G/H-S1 | 318577 EAMC-30-32-6-11 | 551006 EAMK-A-D32-44A/C | – |
| 2946759 EAMM-A-D32-60G-S1 ¹⁾ | | | | 8022150 EADS-F-D32-60G/H |
| 2946760 EAMM-A-D32-60H | 1460105 EAMF-A-44C-60G/H-S1 | 1233256 EAMC-30-32-6-14 | 551006 EAMK-A-D32-44A/C | – |
| 2946761 EAMM-A-D32-60H-S1 ¹⁾ | | | | 8022150 EADS-F-D32-60G/H |
| 1956054 EAMM-A-D32-60P | 1956846 EAMF-A-44C-60P | 1233256 EAMC-30-32-6-14 | 551006 EAMK-A-D32-44A/C | – |
| 2234020 EAMM-A-D32-60P-S1 ¹⁾ | | | | 2234012 EADS-F-D32-60P |
| 1454239 EAMM-A-D32-67A | 1476305 EAMF-A-44A/B/C-67A-S1 | 551003 EAMC-30-32-6-9 | 551006 EAMK-A-D32-44A/C | – |
| 2256397 EAMM-A-D32-67A-S1 ¹⁾ | | | | 2253501 EADS-F-D32-67A |

1) With degree of protection IP65.
2) Only with DNCE...-LS.

Electric cylinders DNCE, with spindle drive

Accessories

FESTO

| Part components of the axial kit | | | | |
|---|---|---|--|---|
| Axial kit | Comprising: | | | |
| | Motor flange | Coupling | Coupling housing | Seal set |
|  |  |  |  |  |
| Part No. Type | Part No. Type | Part No. Type | Part No. Type | Part No. Type |
| DNCE-40 | | | | |
| 543155 EAMM-A-D40-42B ³⁾ | – | 543422 EAMC-30-32-8-8 | 552158 EAMK-A-D40-42B | – |
| 543156 EAMM-A-D40-42C ³⁾ | – | 543422 EAMC-30-32-8-8 | 552159 EAMK-A-D40-42C | – |
| 560282 EAMM-A-D40-40G ²⁾ | 550986 EAMF-44A/B-40G | 558029 EAMC-30-32-8-10 | 552157 EAMK-A-D40-44A/C | – |
| 2256398 EAMM-A-D40-40G-G2 | 1460095 EAMF-A-44C-40G-S1 | 558029 EAMC-30-32-8-10 | 552157 EAMK-A-D40-44A/C | – |
| 2256399 EAMM-A-D40-40G-S1 ¹⁾ | | | | 2253502 EADS-F-D40-40G |
| 543153 EAMM-A-D40-55A | 529942 EAMF-A-44A/B-55A | 543423 EAMC-30-32-8-9 | 552157 EAMK-A-D40-44A/C | – |
| 1322182 EAMM-A-D40-55A-S1 ¹⁾ | | | | 1561530 EADS-F-D40-55A |
| 543154 EAMM-A-D40-57A | 530081 EAMF-A-44A/B-57A | 543421 EAMC-30-32-6.35-8 | 552157 EAMK-A-D40-44A/C | – |
| 1322183 EAMM-A-D40-57A-S1 ¹⁾ | | | | 1561531 EADS-F-D40-57A |
| 2256400 EAMM-A-D40-60G | 1460105 EAMF-A-44C-60G/H-S1 | 551004 EAMC-30-32-8-11 | 552157 EAMK-A-D40-44A/C | – |
| 2256409 EAMM-A-D40-60G-S1 ¹⁾ | | | | 2253503 EADS-F-D40-60G/H |
| 1454242 EAMM-A-D40-60H | 1460105 EAMF-A-44C-60G/H-S1 | 562682 EAMC-30-32-8-14 | 552157 EAMK-A-D40-44A/C | – |
| 2256401 EAMM-A-D40-60H-S1 ¹⁾ | | | | 2253503 EADS-F-D40-60G/H |
| 1977000 EAMM-A-D40-60P | 1956846 EAMF-A-44C-60P | 562682 EAMC-30-32-8-14 | 552157 EAMK-A-D40-44A/C | – |
| 2151519 EAMM-A-D40-60P-S1 ¹⁾ | | | | 2151545 EADS-F-D40-60P |
| 1454243 EAMM-A-D40-67A | 1476305 EAMF-A-44A/B/C-67A-S1 | 543423 EAMC-30-32-8-9 | 552157 EAMK-A-D40-44A/C | – |
| 2256695 EAMM-A-D40-67A-S1 ¹⁾ | | | | 2253504 EADS-F-D40-67A |
| 550981 EAMM-A-D40-70A | 529943 EAMF-A-44A/B-70A | 551004 EAMC-30-32-8-11 | 552157 EAMK-A-D40-44A/C | – |
| 1322185 EAMM-A-D40-70A-S1 ¹⁾ | | | | 1561532 EADS-F-D40-70A |
| 550982 EAMM-A-D40-87A | 530082 EAMF-A-44A/B-87A | 551004 EAMC-30-32-8-11 | 552157 EAMK-A-D40-44A/C | – |
| 1322186 EAMM-A-D40-87A-S1 ¹⁾ | | | | 1561533 EADS-F-D40-87A |

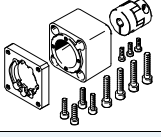


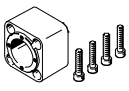
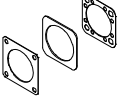
1) With degree of protection IP65.

2) Type discontinued.

3) Only with DNCE-...LS.

Electric cylinders DNCE, with spindle drive

Accessories

| Component parts of the axial kit | | | | |
|---|---|---|--|---|
| Axial kit | Comprising: | | | |
| | Motor flange | Coupling | Coupling housing | Seal set |
|  |  |  |  |  |
| Part No. Type | Part No. Type | Part No. Type | Part No. Type | Part No. Type |
| DNCE-63 | | | | |
| 543163 EAMM-A-D60-52B ³⁾ | – | 533709 EAMC-42-50-12-12 | 552161 EAMK-A-D60-52B | – |
| 543164 EAMM-A-D60-52C ³⁾ | – | 533709 EAMC-42-50-12-12 | 552162 EAMK-A-D60-52C | – |
| 560283 EAMM-A-D60-60G ²⁾ | 550987 EAMF-A-64A/B-60G/H | 543424 EAMC-42-50-11-12 | 552160 EAMK-A-D60-64B | – |
| 2256696 EAMM-A-D60-60G-G2 | 2256289 EAMF-A-64B-60G/H-S1 | 543424 EAMC-42-50-11-12 | 552160 EAMK-A-D60-64B | – |
| 2256698 EAMM-A-D60-60G-S1 ¹⁾ | | | | 2253505 EADS-F-D60-60G/H |
| 1454245 EAMM-A-D60-60H | 2256289 EAMF-A-64B-60G/H-S1 | 1455671 EAMC-42-50-12-14 | 552160 EAMK-A-D60-64B | – |
| 2256697 EAMM-A-D60-60H-S1 ¹⁾ | | | | 2253505 EADS-F-D60-60G/H |
| 543161 EAMM-A-D60-70A | 529945 EAMF-A-64A/B-70A | 543424 EAMC-42-50-11-12 | 552160 EAMK-A-D60-64B | – |
| 2256699 EAMM-A-D60-70A-S1 ¹⁾ | | | | 8022145 EADS-F-D60-70A |
| 1499402 EAMM-A-D60-80G | 2843290 EAMF-A-64C-80G-S1 | 2138701 EAMC-42-50-12-20 | 551007 EAMK-A-D60-64C | – |
| 2946762 EAMM-A-D60-80G-S1 ¹⁾ | | | | 8022146 EADS-F-D60-80G |
| 1977073 EAMM-A-D60-80P | 1977113 EAMF-A-64A/C-80P | 551005 EAMC-42-50-12-19 | 551007 EAMK-A-D60-64C | – |
| 2218564 EAMM-A-D60-80P-S1 ¹⁾ | | | | 2218523 EADS-F-D60-80P |
| 543162 EAMM-A-D60-87A | 533140 EAMF-A-64A/B-87A | 543424 EAMC-42-50-11-12 | 552160 EAMK-A-D60-64B | – |
| 1322188 EAMM-A-D60-87A-S1 ¹⁾ | | | | 1561536 EADS-F-D60-87A |
| 550983 EAMM-A-D60-100A | 529947 EAMF-A-64A/C/D-100A | 551005 EAMC-42-50-12-19 | 551007 EAMK-A-D60-64C | – |
| 2256700 EAMM-A-D60-100A-S1 ¹⁾ | | | | 2253507 EADS-F-D60-100A |

1) With degree of protection IP65.

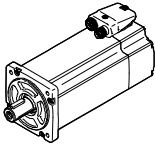
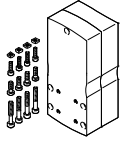
2) Type discontinued.

3) Only with DNCE...-LS.

Electric cylinders DNCE, with spindle drive

Accessories

FESTO

| Permissible axis/motor combinations with parallel kit | | Technical data → Internet: eamm-u |
|---|---|--|
| Motor/gear unit ¹⁾ | Parallel kit | |
|  |  | <ul style="list-style-type: none"> • Increased housing rigidity • More flexible motor mounting possible • Larger toothed belt bending radii for improved service life • Components can be mounted to the kit facing any direction • Use in combination with third-party motors on request |
| Type | Part No. | Type |
| DNCE-32 | | |
| With servo motor | | |
| EMME-AS-40-... | 2153283 | EAMM-U-50-D32-40P-78 |
| | 2154009 | EAMM-U-50-D32-40AP-78-S1 ²⁾ |
| EMMS-AS-40-... | 1201591 | EAMM-U-50-D32-40A-78 |
| | 1202302 | EAMM-U-50-D32-40A-78-S1 ²⁾ |
| EMMS-AS-55-... | 1210126 | EAMM-U-60-D32-55A-91 |
| | 1210450 | EAMM-U-60-D32-55A-91-S1 ²⁾ |
| EMME-AS-60-... | 2619586 | EAMM-U-70-D32-60P-96 |
| | 2619688 | EAMM-U-70-D32-60P-96-S1 ²⁾ |
| EMMS-AS-70-... | 2755565 | EAMM-U-70-D32-70A-96 |
| | 2781711 | EAMM-U-70-D32-70A-96-S1 ²⁾ |
| With stepper motor | | |
| EMMS-ST-42-... | 1201607 | EAMM-U-50-D32-42A-78 |
| | 1202312 | EAMM-U-50-D32-42A-78-S1 ²⁾ |
| EMMS-ST-57-... | 1210419 | EAMM-U-60-D32-57A-91 |
| | 1210453 | EAMM-U-60-D32-57A-91-S1 ²⁾ |
| With motor unit ³⁾ | | |
| MTR-DCI-32S-... | 1570862 | EAMM-U-50-D32-32B-78 |
| MTR-DCI-42S-... | 1577393 | EAMM-U-60-D32-42B/C-91 |
| | 1577380 | EAMM-U-60-D32-42B/C-91-S1 ²⁾ |
| MTR-DCI-52S-... | 2755890 | EAMM-U-70-D32-52B/C-96 |
| | 2781778 | EAMM-U-70-D32-52B/C-96-S1 ²⁾ |
| With gear unit | | |
| EMGA-40-P-... | 1577358 | EAMM-U-60-D32-40G-91 |
| EMGC-40-P-... | 1577346 | EAMM-U-60-D32-40G-91-S1 ²⁾ |
| EMGA-60-P-...-SAS/SST ⁴⁾ | 2748181 | EAMM-U-70-D32-60G-96 |
| | 2778302 | EAMM-U-70-D32-60G-96-S1 ²⁾ |
| EMGA-60-P-...-EAS, | 2778393 | EAMM-U-70-D32-60H-96 |
| EMGC-60-P-... ⁴⁾ | 2781450 | EAMM-U-70-D32-60H-96-S1 ²⁾ |

1) The input torque must not exceed the maximum permissible transferable torque of the parallel kit.

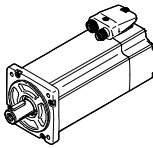
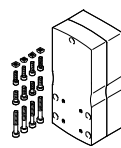
2) With degree of protection IP65

3) Only with DNCE-...-LS

4) Gear unit drive shaft Ø: EMGA-60-P-...-SAS/SST11 mm; EMGA-60-P-...-EAS, EMGC-60-P14 mm

Electric cylinders DNCE, with spindle drive

Accessories

| Permissible axis/motor combinations with parallel kit | | Technical data → Internet: eamm-u |
|---|---|--|
| Motor/gear unit ¹⁾ | Parallel kit | |
|  |  | <ul style="list-style-type: none"> • Increased housing rigidity • More flexible motor mounting possible • Larger toothed belt bending radii for improved service life • Components can be mounted to the kit facing any direction • Use in combination with third-party motors on request |
| Type | Part No. | Type |
| DNCE-40 | | |
| With servo motor | | |
| EMMS-AS-55-... | 1210438 | EAMM-U-60-D40-55A-91 |
| | 1210458 | EAMM-U-60-D40-55A-91-S1 ²⁾ |
| EMME-AS-60-... | 2617488 | EAMM-U-70-D40-60P-96 |
| | 2546123 | EAMM-U-70-D40-60P-96-S1 ²⁾ |
| EMMS-AS-70-... | 2786204 | EAMM-U-70-D40-70A-96 |
| | 2786316 | EAMM-U-70-D40-70A-96-S1 ²⁾ |
| EMMS-AS-70-... | 1212826 | EAMM-U-86-D40-70A-102 |
| | 1212854 | EAMM-U-86-D40-70A-102-S1 ²⁾ |
| EMME-AS-80-... | 2802441 | EAMM-U-86-D40-80P-102 |
| | 2802656 | EAMM-U-86-D40-80P-102-S1 ²⁾ |
| With stepper motor | | |
| EMMS-ST-57-... | 1210442 | EAMM-U-60-D40-57A-91 |
| | 1210462 | EAMM-U-60-D40-57A-91-S1 ²⁾ |
| EMMS-ST-87-... | 1215802 | EAMM-U-86-D40-87A-102 |
| | 1215814 | EAMM-U-86-D40-87A-102-S1 ²⁾ |
| With motor unit ³⁾ | | |
| MTR-DCI-42S-... | 1570950 | EAMM-U-60-D40-42B/C-91 |
| | 1430735 | EAMM-U-60-D40-42B/C-91-S1 ²⁾ |
| MTR-DCI-52S-... | 2786802 | EAMM-U-70-D40-52B/C-96 |
| | 2786845 | EAMM-U-70-D40-52B/C-96-S1 ²⁾ |
| MTR-DCI-52S-... | 1537046 | EAMM-U-86-D40-52B/C-102 |
| | 1537011 | EAMM-U-86-D40-52B/C-102-S1 ²⁾ |
| With gear unit | | |
| EMGA-40-P-... | 1577165 | EAMM-U-60-D40-40G-91 |
| EMGC-40-P-... | 1435968 | EAMM-U-60-D40-40G-91-S1 ²⁾ |
| EMGA-60-P-...-SAS/SST ⁴⁾ | 2785471 | EAMM-U-70-D40-60G-96 |
| | 2785542 | EAMM-U-70-D40-60G-96-S1 ²⁾ |
| EMGA-60-P-...-EAS, EMGC-60-P-... ⁴⁾ | 2786101 | EAMM-U-70-D40-60H-96 |
| | 2786137 | EAMM-U-70-D40-60H-96-S1 ²⁾ |
| EMGA-60-P-...-SAS/SST ⁴⁾ | 1586445 | EAMM-U-86-D40-60G-102 |
| | 1586429 | EAMM-U-86-D40-60G-102-S1 ²⁾ |
| EMGA-60-P-...-EAS, EMGC-60-P-... ⁴⁾ | 1586496 | EAMM-U-86-D40-60H-102 |
| | 1586372 | EAMM-U-86-D40-60H-102-S1 ²⁾ |

1) The input torque must not exceed the maximum permissible transferable torque of the parallel kit.

2) With degree of protection IP65

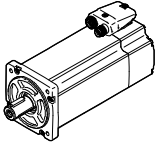

3) Only with DNCE-...LS

4) Gear unit drive shaft ⌀: EMGA-60-P-...-SAS/SST11 mm; EMGA-60-P-...-EAS, EMGC-60-P14 mm


Electric cylinders DNCE, with spindle drive

Accessories

FESTO

| Permissible axis/motor combinations with parallel kit | | Technical data → Internet: eamm-u |
|---|---|--|
| Motor/gear unit ¹⁾ | Parallel kit | |
|  |  | <ul style="list-style-type: none"> • Increased housing rigidity • More flexible motor mounting possible • Larger toothed belt bending radii for improved service life • Components can be mounted to the kit facing any direction • Use in combination with third-party motors on request |
| Type | Part No. | Type |
| DNCE-63 | | |
| With servo motor | | |
| EMMS-AS-70-... | 1212477 | EAMM-U-86-D60-70A-102 |
| | 1212835 | EAMM-U-86-D60-70A-102-S1 ²⁾ |
| EMME-AS-80-... | 2155875 | EAMM-U-86-D60-80P-102 |
| | 2156527 | EAMM-U-86-D60-80P-102-S1 ²⁾ |
| EMME-AS-100-... | 1202436 | EAMM-U-110-D60-100A-120 |
| | 1203112 | EAMM-U-110-D60-100A-120-S1 ²⁾ |
| EMMS-AS-100-... | 1202436 | EAMM-U-110-D60-100A-120 |
| | 1203112 | EAMM-U-110-D60-100A-120-S1 ²⁾ |
| With stepper motor | | |
| EMMS-ST-87-... | 1215784 | EAMM-U-86-D60-87A-102 |
| | 1215810 | EAMM-U-86-D60-87A-102-S1 ²⁾ |
| With motor unit ³⁾ | | |
| MTR-DCI-52S-... | 1537000 | EAMM-U-86-D60-52B/C-102 |
| | 1431381 | EAMM-U-86-D60-52B/C-102-S1 ²⁾ |
| MTR-DCI-62S-... | 1536988 | EAMM-U-110-D60-62B-120 |
| | 1431443 | EAMM-U-110-D60-62B-120-S1 ²⁾ |
| With gear unit | | |
| EMGA-60-P-...-SAS/SST ⁴⁾ | 1586347 | EAMM-U-86-D60-60G-102 |
| | 1437163 | EAMM-U-86-D60-60G-102-S1 ²⁾ |
| EMGA-60-P-...-EAS, EMGC-60-P-... ⁴⁾ | 1586276 | EAMM-U-86-D60-60H-102 |
| | 1530837 | EAMM-U-86-D60-60H-102-S1 ²⁾ |
| EMGA-60-P-...-SAS/SST ⁴⁾ | 1543240 | EAMM-U-110-D60-60G-120 |
| | 1436183 | EAMM-U-110-D60-60G-120-S1 ²⁾ |
| EMGA-60-P-...-EAS, EMGC-60-P-... ⁴⁾ | 1542264 | EAMM-U-110-D60-60H-120 |
| | 1530621 | EAMM-U-110-D60-60H-120-S1 ²⁾ |
| EMGA-80-P-... | 1532949 | EAMM-U-110-D60-80G-120 |
| | 1530875 | EAMM-U-110-D60-80G-120-S1 ²⁾ |

- 1) The input torque must not exceed the maximum permissible transferable torque of the parallel kit.
- 2) With degree of protection IP65
- 3) Only with DNCE-...LS
- 4) Gear unit drive shaft Ø: EMGA-60-P-...-SAS/-SST11 mm; EMGA-60-P-...-EAS, EMGC-60-P14 mm

 Note

The clamping component EADT is required to adjust the toothed belt pretension with EAMM-U-110.

The motor and/or axis shaft can optionally be supported with a counter bearing EAMG.

More information → eamm-u

Electric cylinders DNCE, with spindle drive

Accessories

FESTO

Protective bellows kit EADB



| General technical data | | | | |
|--|------|--|------------|------------|
| Type EADB-V1- | | 32 | 40 | 63 |
| Max. stroke range of cylinder ¹⁾ | [mm] | 10 ... 400 | 10 ... 500 | 10 ... 500 |
| Type of mounting | | Push-on | | |
| | | Via threaded pin | | |
| Mounting position | | Any | | |
| Resistance to media | | Dust, chippings, oil, grease, petrol (→ Internet: Resistance to media) | | |
| Ambient temperature ²⁾ | [°C] | -10 ... +80 | | |
| Degree of protection to IEC 60529 | | IP65 | | |
| Corrosion resistance class CRC ³⁾ | | 3 | | |

1) In combination with the protective bellows kit EADB

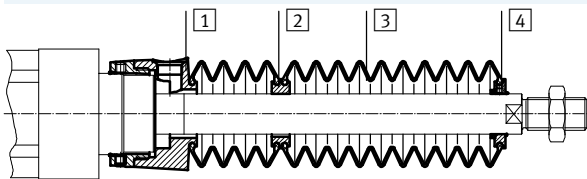
2) Note operating range of proximity sensors and cylinder

3) Corrosion resistance class CRC 3 to Festo standard FN 940070

High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional requirements for the surface and which are in direct contact with a normal industrial environment.

Materials

Sectional view



| Bellows | | |
|-------------------|------------|---|
| 1 | Connection | Anodised wrought aluminium alloy |
| 2 | Adapter | Polyamide |
| 3 | Bellows | NBR |
| 4 | End piece | Anodised wrought aluminium alloy |
| - | O-ring | NBR |
| Note on materials | | Free of copper and PTFE RoHS-compliant |

| Weight [g] | | | | |
|----------------|--|-----|-----|-----|
| Type EADB-V1- | | 32 | 40 | 63 |
| Stroke [mm] | | | | |
| Product weight | | | | |
| 10 ... 100 | | 77 | 116 | 196 |
| 101 ... 200 | | 108 | 153 | 263 |
| 201 ... 300 | | 122 | 172 | 309 |
| 301 ... 400 | | 153 | 209 | 376 |
| 401 ... 500 | | - | 227 | 397 |
| Moving load | | | | |
| 10 ... 100 | | 35 | 43 | 86 |
| 101 ... 200 | | 66 | 80 | 153 |
| 201 ... 300 | | 80 | 99 | 199 |
| 301 ... 400 | | 111 | 136 | 266 |
| 401 ... 500 | | - | 154 | 287 |

Electric cylinders DNCE, with spindle drive

Accessories



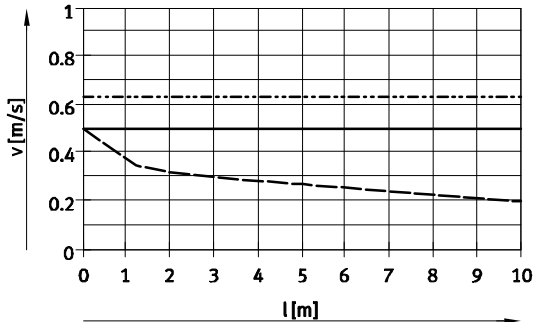
Travel speed v as a function of tubing length l



The protective bellows kit is a leak-free system. To prevent unwanted media from being drawn in, the supply and exhaust air for the kit must be ducted via a

pressure compensation hole in the connection part [1]. The pressure generated in the protective bellows kit by the positioning motion is primarily defined by the travel

speed and tubing length. The recommended tubing length based on the travel speed of the drive can be read from the graph.



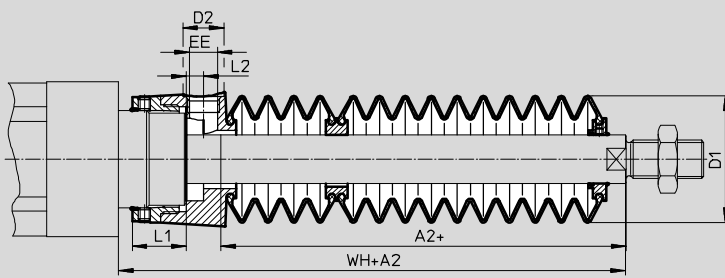
— EADB-V1-32/tubing Ø 8 mm
 - - - EADB-V1-40/tubing Ø 16 mm
 - · - EADB-V1-63/tubing Ø 16 mm

Note
 The push-in fittings in the adjacent table must be used for the pressure compensation hole. Silencers can be used as an alternative. This reduces the travel speed slightly.

| Tubing size and push-in fitting | | | |
|---------------------------------|------------------|----------|---------------------------------------|
| Ø [mm] | Tubing O.D. [mm] | Part No. | Push-in fitting Type |
| 32 | 8 | 186109 | QS-G ¹ / ₈ -8-I |
| | | 578376 | NPQH-DK-G18-Q8-P10 |
| 40, 63 | 16 | 186350 | QS-G ¹ / ₄ -12 |
| | | 578344 | NPQH-D-G14-Q12-P10 |
| | | 153261 | QSH-16-12 |

Dimensions

Download CAD data → www.festo.com



+ = plus stroke length

| Ø Stroke [mm] | 32 | | | | | | | 40 | | | | | | |
|---------------|------------------|---------|----|-------------------------------|------|-----|-------|------------------|---------|----|-------------------------------|------|----|-------|
| | A2 ¹⁾ | D1 max. | D2 | EE | L1 | L2 | WH+A2 | A2 ¹⁾ | D1 max. | D2 | EE | L1 | L2 | WH+A2 |
| 10 ... 100 | 44 | 46 | 14 | G ¹ / ₈ | 12.9 | 5.4 | 70 | 48 | 57 | 17 | G ¹ / ₄ | 16.3 | 7 | 78 |
| 101 ... 200 | 74 | | | | | | 100 | 77 | | | | | | 107 |
| 201 ... 300 | 88 | | | | | | 114 | 88 | | | | | | 118 |
| 301 ... 400 | 117 | | | | | | 143 | 117 | | | | | | 147 |
| 401 ... 500 | - | - | - | - | - | - | - | 135 | - | - | - | - | - | 165 |

| Ø Stroke [mm] | 63 | | | | | | |
|---------------|------------------|---------|----|-------------------------------|------|----|-------|
| | A2 ¹⁾ | D1 max. | D2 | EE | L1 | L2 | WH+A2 |
| 10 ... 100 | 43 | 93 | 17 | G ¹ / ₄ | 22.4 | 7 | 80 |
| 101 ... 200 | 68 | | | | | | 105 |
| 201 ... 300 | 80 | | | | | | 117 |
| 301 ... 400 | 104 | | | | | | 141 |
| 401 ... 500 | 117 | | | | | | 154 |

1) The dimension corresponds to the K8 value (extended piston rod) of the cylinder

Electric cylinders DNCE, with spindle drive

Accessories

Ordering data – Protective bellows kit

An extended piston rod (order code K8) → 17 is absolutely essential when using a protective bellows kit.

The necessary dimension for K8 as a function of cylinder size and stroke as well as the corresponding protective bellows kit are indicated in the table below:

Order example:

Selected electric cylinder:

DNCE-32-250-BS-“3”P-Q-...K8

The dimension for the corresponding K8 value (see table):
88 mm

Complete type code for electric cylinder:

DNCE-32-250-BS-“3”P-Q-88K8

The corresponding protective bellows kit:

EADB-V1-32-S201-300

| Cylinder data | | | Protective bellows kit | | Cylinder data | | | Protective bellows kit | |
|---------------|-------------|------------------|------------------------|---------------------|---------------|-------------|------------------|------------------------|---------------------|
| ∅ | Stroke | Dimension for K8 | Part No. | Type | ∅ | Stroke | Dimension for K8 | Part No. | Type |
| [mm] | [mm] | [mm] | | | [mm] | [mm] | [mm] | | |
| 32 | 10 ... 100 | 44 | 570262 | EADB-V1-32-S10-100 | 40 | 10 ... 100 | 48 | 570266 | EADB-V1-40-S10-100 |
| | 101 ... 200 | 74 | 570263 | EADB-V1-32-S101-200 | | 101 ... 200 | 77 | 570267 | EADB-V1-40-S101-200 |
| | 201 ... 300 | 88 | 570264 | EADB-V1-32-S201-300 | | 201 ... 300 | 88 | 570268 | EADB-V1-40-S201-300 |
| | 301 ... 400 | 117 | 570265 | EADB-V1-32-S301-400 | | 301 ... 400 | 117 | 570269 | EADB-V1-40-S301-400 |
| | – | | | | | 401 ... 500 | 135 | 570270 | EADB-V1-40-S401-500 |
| 63 | 10 ... 100 | 43 | 570271 | EADB-V1-63-S10-100 | | | | | |
| | 101 ... 200 | 68 | 570272 | EADB-V1-63-S101-200 | | | | | |
| | 201 ... 300 | 80 | 570273 | EADB-V1-63-S201-300 | | | | | |
| | 301 ... 400 | 104 | 570274 | EADB-V1-63-S301-400 | | | | | |
| | 401 ... 500 | 117 | 570275 | EADB-V1-63-S401-500 | | | | | |

Electric cylinders DNCE, with spindle drive

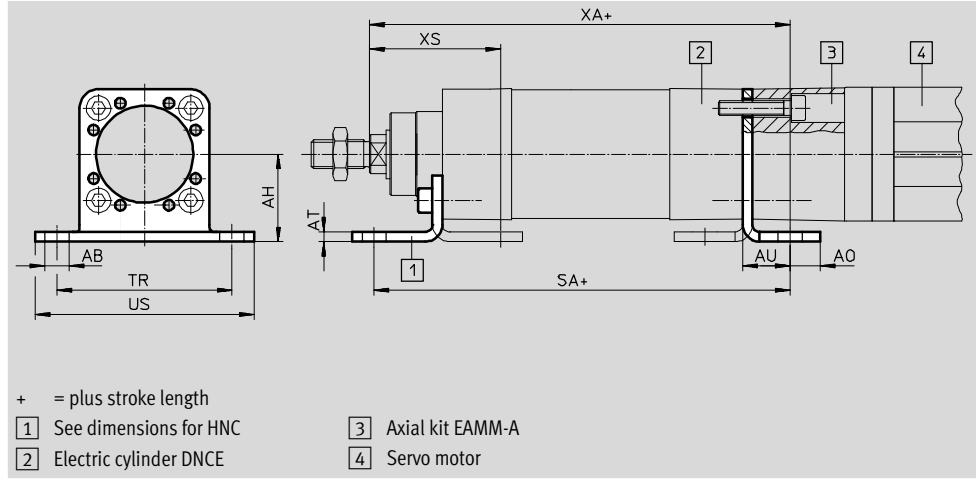
Accessories



Foot mounting HNCE for axial motor attachment

Materials:
Galvanised steel

Free of copper and PTFE



| Dimensions and ordering data | | | | | | | | | | |
|------------------------------|----|----|------|----|------|-------|----|-----|-------|----|
| For size | AB | 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 | 547949 | HNCE-32-AX |
| 40 | 1 | 220 | 547950 | HNCE-40-AX |
| 63 | 1 | 470 | 547951 | HNCE-63-AX |

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

Electric cylinders DNCE, with spindle drive

Accessories



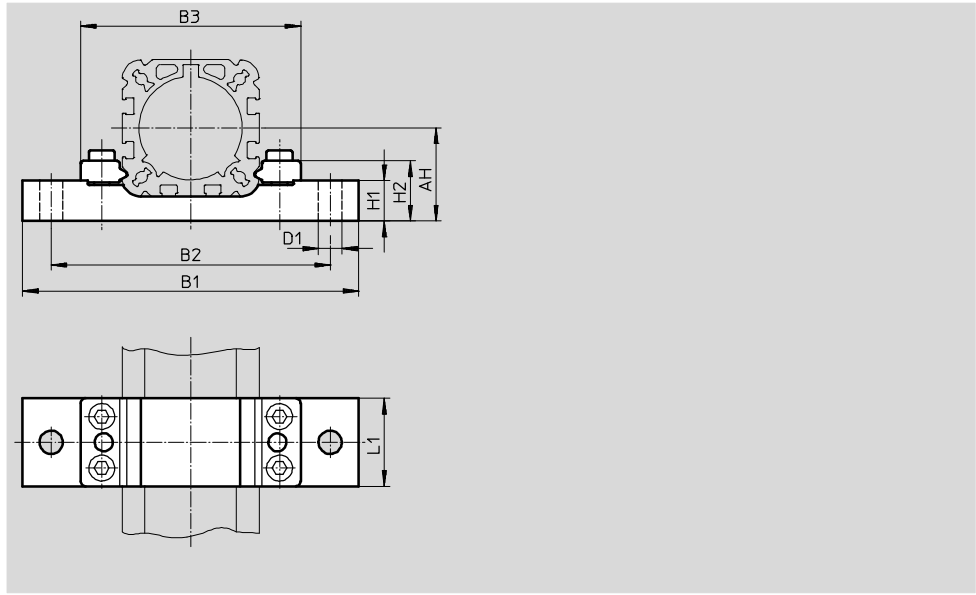
Profile mounting EAHF

Materials:

RoHS-compliant

Plate: Anodised aluminium

Clamping piece: Galvanised steel



Dimensions and ordering data

| For size [mm] | AH | B1 | B2 | B3 | D1 Ø | H1 | H2 | L1 |
|------------------|----|-----|-----|-------|---------|------|------|----|
| 32 | 32 | 100 | 84 | 66.1 | 6.6 | 17.5 | 26.1 | 32 |
| 40 | 36 | 130 | 108 | 85.2 | 9 | 15.7 | 23.3 | 34 |
| 63 | 50 | 150 | 128 | 104.8 | 9 | 22.9 | 30.4 | 41 |

| For size [mm] | CRC ¹⁾ | Weight [g] | Part No. | Type |
|------------------|-------------------|---------------|----------------|---------------------|
| 32 | 1 | 175 | 1098473 | EAHF-V1-32-P |
| 40 | 1 | 230 | 1098478 | EAHF-V1-40-P |
| 63 | 1 | 400 | 1098481 | EAHF-V1-63-P |

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Electric cylinders DNCE, with spindle drive

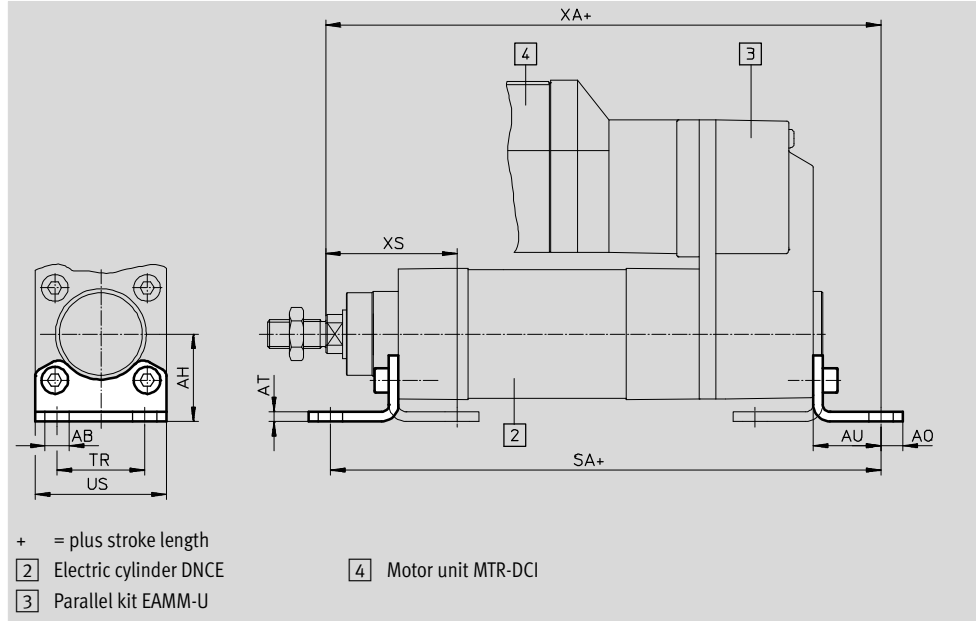
Accessories



Foot mounting HNC/CRHNC, for parallel motor attachment

Materials:
HNC: Galvanised steel

CRHNC: High-alloy steel
Free of copper and PTFE



| Dimensions and ordering data | | | | | | | | |
|------------------------------|----|----|------|----|----|----|----|----|
| For size | AB | AH | AO | AT | AU | TR | US | XS |
| [mm] | ∅ | | | | | | | |
| 32 | 7 | 32 | 6.5 | 4 | 24 | 32 | 45 | 46 |
| 40 | 10 | 36 | 9 | 4 | 28 | 36 | 54 | 54 |
| 63 | 10 | 50 | 12.5 | 5 | 32 | 50 | 75 | 64 |

| For size | with parallel kit | | | | | | | | | |
|----------|-------------------|-----|-----------|-------|-----------|-------|-----------|-------|------------|-----|
| | EAMM-U-50 | | EAMM-U-60 | | EAMM-U-70 | | EAMM-U-86 | | EAMM-U-110 | |
| | SA | XA | SA | XA | SA | XA | SA | XA | SA | XA |
| [mm] | | | | | | | | | | |
| 32 | 215 | 217 | 226 | 228 | 234.5 | 236.5 | - | - | - | - |
| 40 | - | - | 258.5 | 260.5 | 267 | 269 | 271.5 | 273.5 | - | - |
| 63 | - | - | - | - | - | - | 312 | 317 | 323 | 328 |

| For size | with parallel kit | | | | | |
|----------|-------------------|-----|------------|-------|------------|-----|
| | EAMM-U-D32 | | EAMM-U-D40 | | EAMM-U-D60 | |
| | SA | XA | SA | XA | SA | XA |
| [mm] | | | | | | |
| 32 | 210 | 212 | - | - | - | - |
| 40 | - | - | 249.5 | 251.5 | - | - |
| 63 | - | - | - | - | 299 | 304 |

| For size | Basic version | | | | High corrosion protection | | | |
|----------|-------------------|------------|---------------|---------------|---------------------------|------------|---------------|-----------------|
| | CRC ¹⁾ | Weight [g] | Part No. | Type | CRC ¹⁾ | Weight [g] | Part No. | Type |
| [mm] | | | | | | | | |
| 32 | 2 | 144 | 174369 | HNC-32 | 4 | 139 | 176937 | CRHNC-32 |
| 40 | 2 | 193 | 174370 | HNC-40 | 4 | 188 | 176938 | CRHNC-40 |
| 63 | 2 | 436 | 174372 | HNC-63 | 4 | 424 | 176940 | CRHNC-63 |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070
 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.
 Corrosion resistance class CRC 4 to Festo standard FN 940070
 Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→ also FN 940082) using appropriate media.

Electric cylinders DNCE, with spindle drive

Accessories



Flange mounting FNC/CRFNG

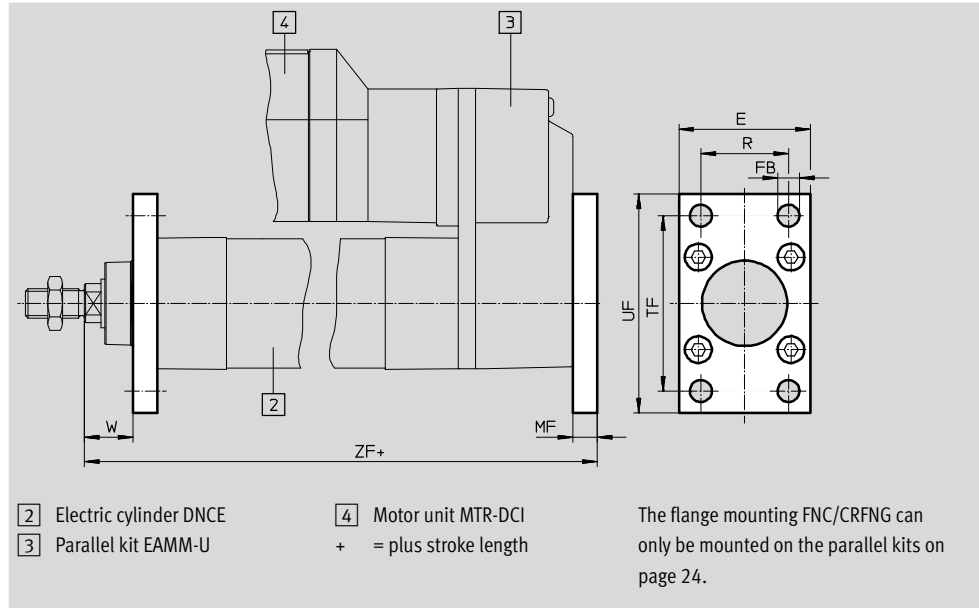
Materials:

FNC: Galvanised steel

CRFNG: High-alloy steel

Free of copper and PTFE

RoHS-compliant



| Dimensions and ordering data | | | | | | | |
|------------------------------|----|----------------|----|----|-----|-----|----|
| For size | E | FB ∅ H13 | MF | R | TF | UF | W |
| [mm] | | | | | | | |
| 32 | 45 | 7 | 10 | 32 | 64 | 80 | 16 |
| 40 | 54 | 9 | 10 | 36 | 72 | 90 | 20 |
| 63 | 75 | 9 | 12 | 50 | 100 | 120 | 25 |

| For size | ZF with parallel kit | | | | |
|----------|-------------------------|-----------|-----------|-----------|------------|
| | EAMM-U-50 | EAMM-U-60 | EAMM-U-70 | EAMM-U-86 | EAMM-U-110 |
| [mm] | | | | | |
| 32 | 203 | 214 | 222.5 | – | – |
| 40 | – | 242.5 | 251 | 255.5 | – |
| 63 | – | – | – | 297 | 308 |

| For size | ZF with parallel kit | | |
|----------|-------------------------|------------|------------|
| | EAMM-U-D32 | EAMM-U-D40 | EAMM-U-D60 |
| [mm] | | | |
| 32 | 198 | – | – |
| 40 | – | 233.5 | – |
| 63 | – | – | 284 |

| For size | Basic version | | | | High corrosion protection | | | |
|----------|-------------------|------------|---------------|---------------|---------------------------|------------|---------------|-----------------|
| | CRC ¹⁾ | Weight [g] | Part No. | Type | CRC ¹⁾ | Weight [g] | Part No. | Type |
| [mm] | | | | | | | | |
| 32 | 1 | 221 | 174376 | FNC-32 | 4 | 220 | 161846 | CRFNG-32 |
| 40 | 1 | 291 | 174377 | FNC-40 | 4 | 291 | 161847 | CRFNG-40 |
| 63 | 1 | 679 | 174379 | FNC-63 | 4 | 680 | 161849 | CRFNG-63 |

1) Corrosion resistance class CRC 1 to Festo standard FN 940070
 Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).
 Corrosion resistance class CRC 4 to Festo standard FN 940070
 Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→ also FN 940082) using appropriate media.

Electric cylinders DNCE, with spindle drive

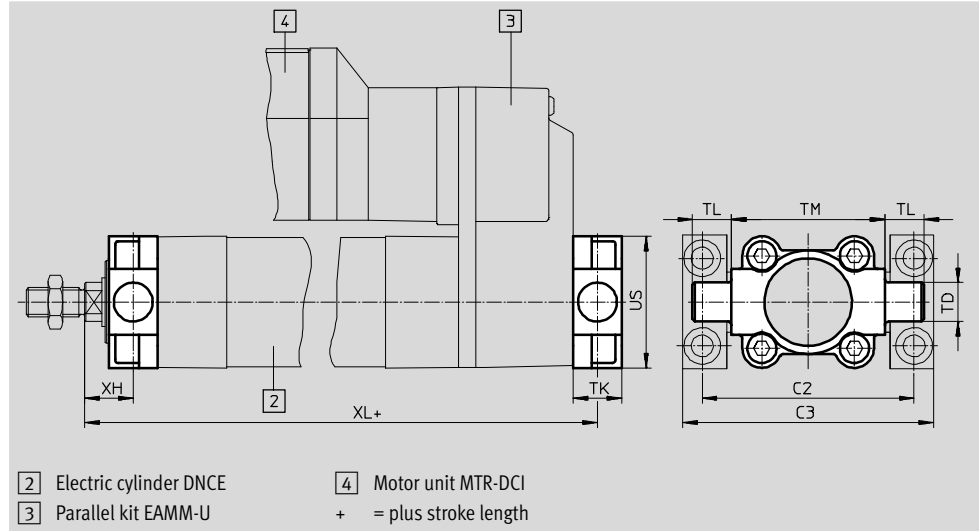
Accessories



Trunnion flange ZNCF/CRZNG

Materials:
 ZNCF: Stainless steel casting
 CRZNG: Electropolished stainless steel casting

Free of copper and PTFE
 RoHS-compliant



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

| For size | XL with parallel kit | | | | |
|----------|-------------------------|-----------|-----------|-----------|------------|
| | EAMM-U-50 | EAMM-U-60 | EAMM-U-70 | EAMM-U-86 | EAMM-U-110 |
| [mm] | | | | | |
| 32 | 201 | 212 | 220.5 | – | – |
| 40 | – | 242.5 | 251 | 255.5 | – |
| 63 | – | – | – | 297 | 308 |

| For size | XL with parallel kit | | |
|----------|-------------------------|------------|------------|
| | EAMM-U-D32 | EAMM-U-D40 | EAMM-U-D60 |
| [mm] | | | |
| 32 | 196 | – | – |
| 40 | – | 233.5 | – |
| 63 | – | – | 284 |

| For size | Basic version | | | | High corrosion protection | | | |
|----------|-------------------|------------|----------|---------|---------------------------|------------|----------|----------|
| | CRC ¹⁾ | Weight [g] | Part No. | Type | CRC ¹⁾ | Weight [g] | Part No. | Type |
| [mm] | | | | | | | | |
| 32 | 2 | 150 | 174411 | ZNCF-32 | 4 | 150 | 161852 | CRZNG-32 |
| 40 | 2 | 285 | 174412 | ZNCF-40 | 4 | 285 | 161853 | CRZNG-40 |
| 63 | 2 | 687 | 174414 | ZNCF-63 | 4 | 687 | 161855 | CRZNG-63 |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070
 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.
 Corrosion resistance class CRC 4 to Festo standard FN 940070
 Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (➔ also FN 940082) using appropriate media.

Electric cylinders DNCE, with spindle drive

Accessories

Trunnion support LNZG

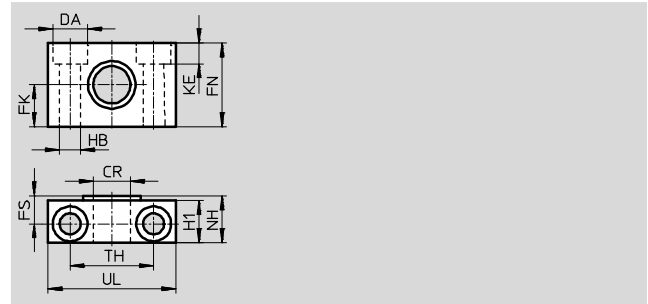
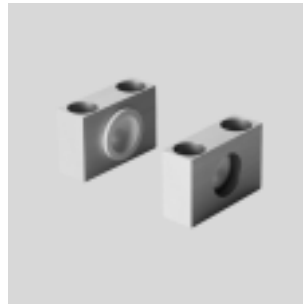
Materials:

Trunnion support: Anodised aluminium

Plain bearing: Plastic

Free of copper and PTFE

RoHS-compliant



| Dimensions and ordering data | | | | | | | | | | | | | | Weight | Part No. | Type |
|------------------------------|-------|-------|--------|----|------|----|-------|-----|----|------|----|-------------------|--------|--------------|-------------------|------|
| For size | CR | DA | FK | FN | FS | H1 | HB | KE | NH | TH | UL | CRC ¹⁾ | Weight | Part No. | Type | |
| [mm] | ∅ D11 | ∅ H13 | ∅ ±0.1 | | | | ∅ H13 | | | ±0.2 | | | [g] | | | |
| 32 | 12 | 11 | 15 | 30 | 10.5 | 15 | 6.6 | 6.8 | 18 | 32 | 46 | 2 | 83 | 32959 | LNZG-32 | |
| 40 | 16 | 15 | 18 | 36 | 12 | 18 | 9 | 9 | 21 | 36 | 55 | 2 | 129 | 32960 | LNZG-40/50 | |
| 63 | 20 | 18 | 20 | 40 | 13 | 20 | 11 | 11 | 23 | 42 | 65 | 2 | 178 | 32961 | LNZG-63/80 | |

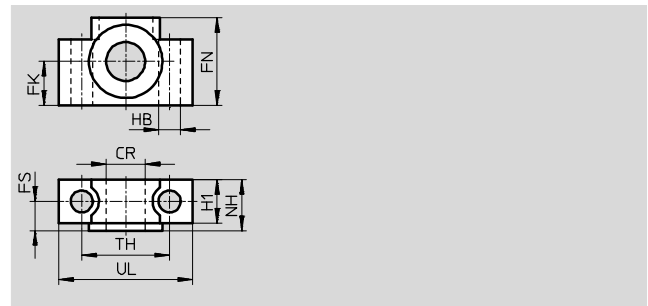
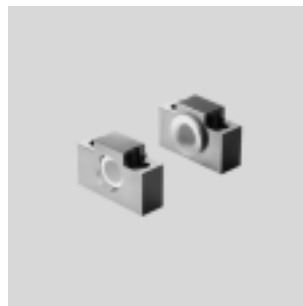
Trunnion support CRLNZG

Materials:

High-alloy steel

Free of copper and PTFE

RoHS-compliant



| Dimensions and ordering data | | | | | | | | | | | | | | Weight | Part No. | Type |
|------------------------------|-------|--------|----|------|----|-------|----|------|----|-------------------|--------|---------------|---------------------|--------|----------|------|
| For size | CR | FK | FN | FS | H1 | HB | 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 | 205 | 161874 | CRLNZG-32 | | | |
| 40 | 16 | 18 | 36 | 12 | 18 | 9 | 21 | 36 | 55 | 4 | 323 | 161875 | CRLNZG-40/50 | | | |
| 63 | 20 | 20 | 40 | 13 | 20 | 11 | 23 | 42 | 65 | 4 | 435 | 161876 | CRLNZG-63/80 | | | |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070
 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.
 Corrosion resistance class CRC 4 to Festo standard FN 940070
 Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→ also FN 940082) using appropriate media.

Electric cylinders DNCE, with spindle drive

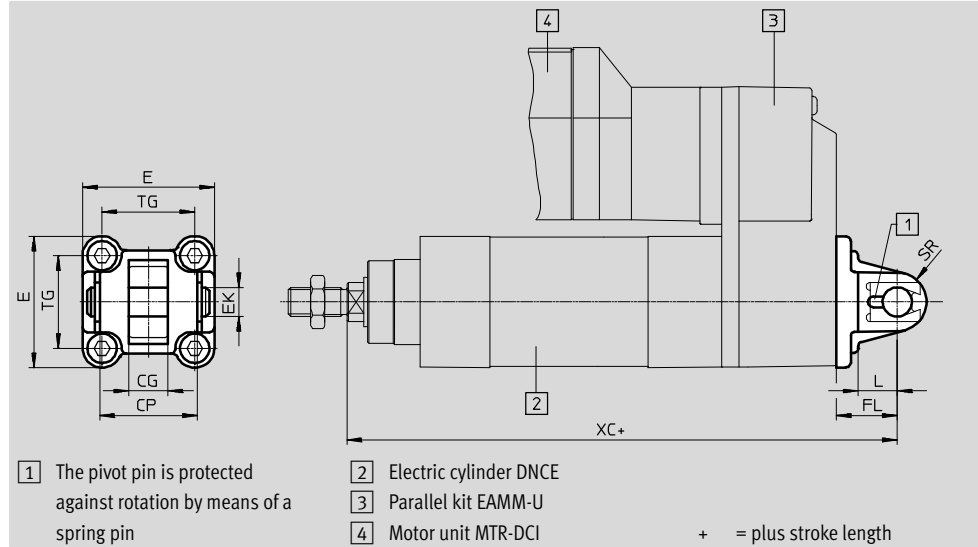
Accessories



Swivel flange SNC

Materials:
Die-cast aluminium

Free of copper and PTFE
RoHS-compliant



| Dimensions and ordering data | | | | | | | | |
|------------------------------|-----|-----|--------------|------|------|----|----|------|
| For size | CG | CP | E | EK | FL | L | SR | TG |
| [mm] | H14 | h14 | | ∅ H9 | ±0.2 | | | |
| 32 | 14 | 34 | 45 +0.2/-0.5 | 10 | 22 | 13 | 10 | 32.5 |
| 40 | 16 | 40 | 54 -0.5 | 12 | 25 | 16 | 12 | 38 |
| 63 | 21 | 51 | 75 -0.6 | 16 | 32 | 21 | 16 | 56.5 |

| For size | XC with parallel kit | | | | |
|----------|----------------------|-----------|-----------|-----------|------------|
| | EAMM-U-50 | EAMM-U-60 | EAMM-U-70 | EAMM-U-86 | EAMM-U-110 |
| 32 | 215 | 226 | 234.5 | - | - |
| 40 | - | 257.5 | 264 | 269 | - |
| 63 | - | - | - | 317 | 328 |

| For size | XC with parallel kit | | | CRC ¹⁾ | Weight [g] | Part No. | Type |
|----------|----------------------|------------|------------|-------------------|------------|----------|--------|
| | EAMM-U-D32 | EAMM-U-D40 | EAMM-U-D60 | | | | |
| 32 | 210 | - | - | 2 | 93 | 174383 | SNC-32 |
| 40 | - | 248.5 | - | 2 | 140 | 174384 | SNC-40 |
| 63 | - | - | 304 | 2 | 331 | 174386 | SNC-63 |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

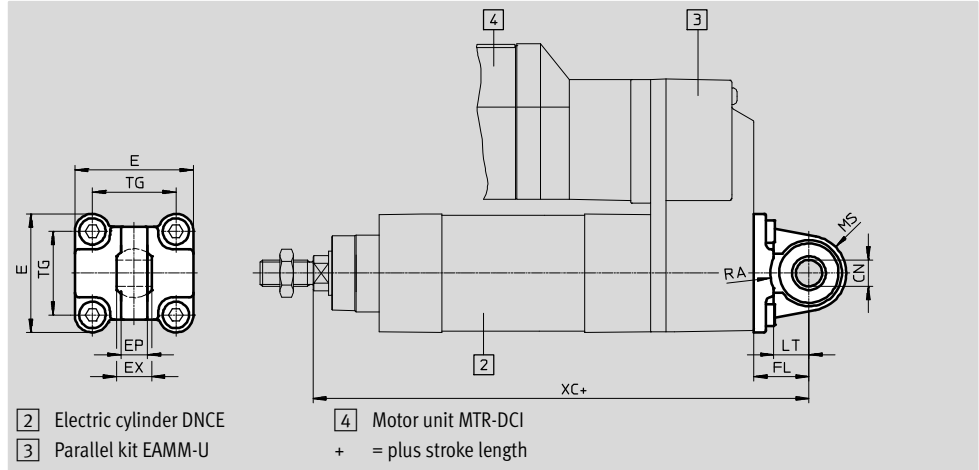
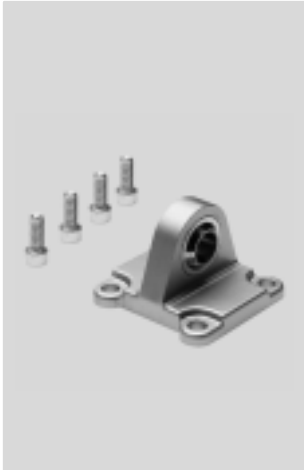
Electric cylinders DNCE, with spindle drive

Accessories

Swivel flange SNCS

Materials:
Die-cast aluminium

Free of copper and PTFE
RoHS-compliant



| Dimensions and ordering data | | | | | | | | | |
|------------------------------|----------|-------------|------|----|------|----|--------|------|------|
| For size | CN ∅ | E | EP | EX | FL | LT | MS | RA | TG |
| [mm] | | | +0.2 | | ±0.2 | | | +1 | |
| 32 | 10+0.013 | 45+0.2/-0.5 | 10.5 | 14 | 22 | 13 | 15+0.5 | 14.5 | 32.5 |
| 40 | 12+0.015 | 54-0.5 | 12 | 16 | 25 | 16 | 17+0.5 | 17.5 | 38 |
| 63 | 16+0.015 | 75-0.6 | 15 | 21 | 32 | 21 | 23-0.5 | 23 | 56.5 |

| For size | XC with parallel kit | | | | |
|----------|-------------------------|-----------|-----------|-----------|------------|
| | EAMM-U-50 | EAMM-U-60 | EAMM-U-70 | EAMM-U-86 | EAMM-U-110 |
| [mm] | | | | | |
| 32 | 215 | 226 | 234.5 | - | - |
| 40 | - | 257.5 | 264 | 269 | - |
| 63 | - | - | - | 317 | 328 |

| For size | XC with parallel kit | | | CRC ¹⁾ | Weight [g] | Part No. | Type |
|----------|-------------------------|------------|------------|-------------------|---------------|----------|---------|
| | EAMM-U-D32 | EAMM-U-D40 | EAMM-U-D60 | | | | |
| [mm] | | | | | | | |
| 32 | 210 | - | - | 2 | 86 | 174397 | SNCS-32 |
| 40 | - | 248.5 | - | 2 | 122 | 174398 | SNCS-40 |
| 63 | - | - | 304 | 2 | 281 | 174400 | SNCS-63 |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Electric cylinders DNCE, with spindle drive

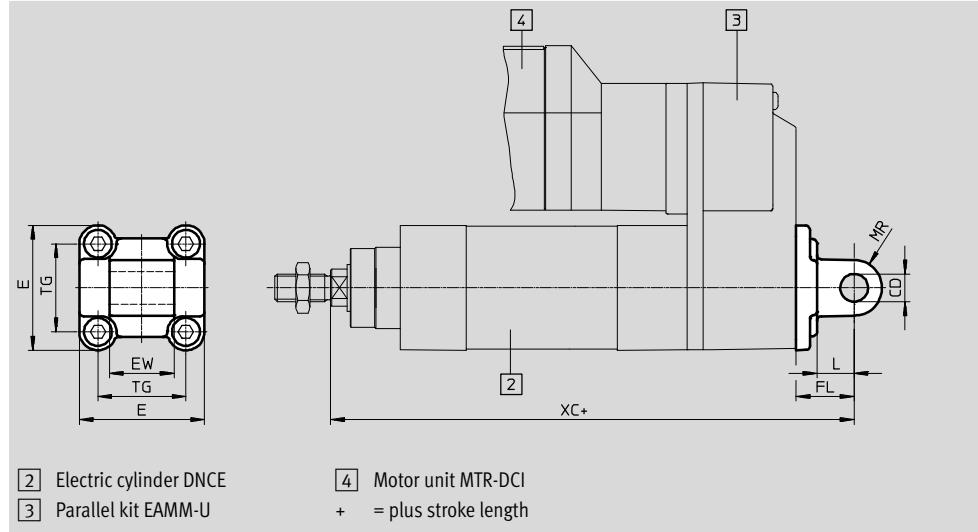
Accessories



Swivel flange SNCL

Materials:
Die-cast aluminium

Free of copper and PTFE
RoHS-compliant



Dimensions and ordering data

| For size | CD | E | EW | FL | L | MR | TG |
|----------|---------|-------------------------|-----------|------|----|----|------|
| [mm] | ∅ H9 | | -0.2/-0.6 | ±0.2 | | | |
| 32 | 10 | 45 ^{+0.2/-0.5} | 26 | 22 | 13 | 10 | 32.5 |
| 40 | 12 | 54 ^{-0.5} | 28 | 25 | 16 | 12 | 38 |
| 63 | 16 | 75 ^{-0.6} | 40 | 32 | 21 | 16 | 56.5 |

| For size | XC with parallel kit | | | | |
|----------|-------------------------|-----------|-----------|-----------|------------|
| | EAMM-U-50 | EAMM-U-60 | EAMM-U-70 | EAMM-U-86 | EAMM-U-110 |
| [mm] | | | | | |
| 32 | 215 | 226 | 234.5 | - | - |
| 40 | - | 257.5 | 264 | 269 | - |
| 63 | - | - | - | 317 | 328 |

| For size | XC with parallel kit | | | CRC ¹⁾ | Weight | Part No. | Type |
|----------|-------------------------|------------|------------|-------------------|--------|----------|---------|
| | EAMM-U-D32 | EAMM-U-D40 | EAMM-U-D60 | | | | |
| [mm] | | | | | [g] | | |
| 32 | 210 | - | - | 2 | 71 | 174404 | SNCL-32 |
| 40 | - | 248.5 | - | 2 | 95 | 174405 | SNCL-40 |
| 63 | - | - | 304 | 2 | 225 | 174407 | SNCL-63 |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

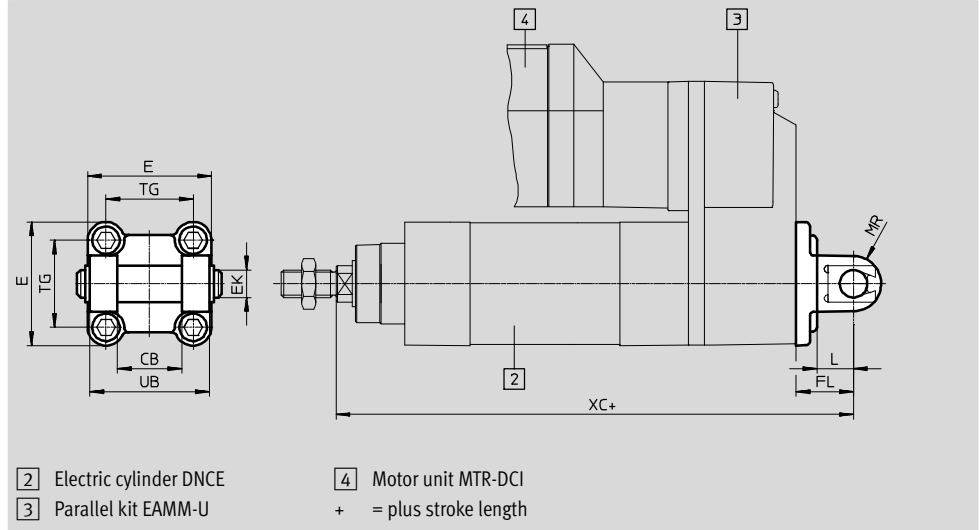
Electric cylinders DNCE, with spindle drive

Accessories

Swivel flange
SNCB/SNCB-...-R3

Materials:
SNCB: Die-cast aluminium
SNCB-...-R3: Die-cast aluminium with protective coating, high corrosion protection

Free of copper and PTFE
RoHS-compliant



| Dimensions and ordering data | | | | | | | | |
|------------------------------|-----|-------------|---------|------|----|------|------|-----|
| For size | CB | E | EK | FL | L | MR | TG | UB |
| [mm] | H14 | | ∅ H9/e8 | ±0.2 | | -0,5 | | h14 |
| 32 | 26 | 45+0.2/-0.5 | 10 | 22 | 13 | 8.5 | 32.5 | 45 |
| 40 | 28 | 54-0.5 | 12 | 25 | 16 | 12 | 38 | 52 |
| 63 | 40 | 75-0.6 | 16 | 32 | 21 | 16 | 56.5 | 70 |

| For size | XC with parallel kit | | | | |
|----------|----------------------|-----------|-----------|-----------|------------|
| | EAMM-U-50 | EAMM-U-60 | EAMM-U-70 | EAMM-U-86 | EAMM-U-110 |
| [mm] | | | | | |
| 32 | 215 | 226 | 234.5 | - | - |
| 40 | - | 257.5 | 264 | 269 | - |
| 63 | - | - | - | 317 | 328 |

| For size | XC with parallel kit | | |
|----------|----------------------|------------|------------|
| | EAMM-U-D32 | EAMM-U-D40 | EAMM-U-D60 |
| [mm] | | | |
| 32 | 210 | - | - |
| 40 | - | 248.5 | - |
| 63 | - | - | 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 | 103 | 174390 | SNCB-32 | 3 | 100 | 176944 | SNCB-32-R3 |
| 40 | 2 | 155 | 174391 | SNCB-40 | 3 | 151 | 176945 | SNCB-40-R3 |
| 63 | 2 | 375 | 174393 | SNCB-63 | 3 | 371 | 176947 | SNCB-63-R3 |

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

Electric cylinders DNCE, with spindle drive

Accessories

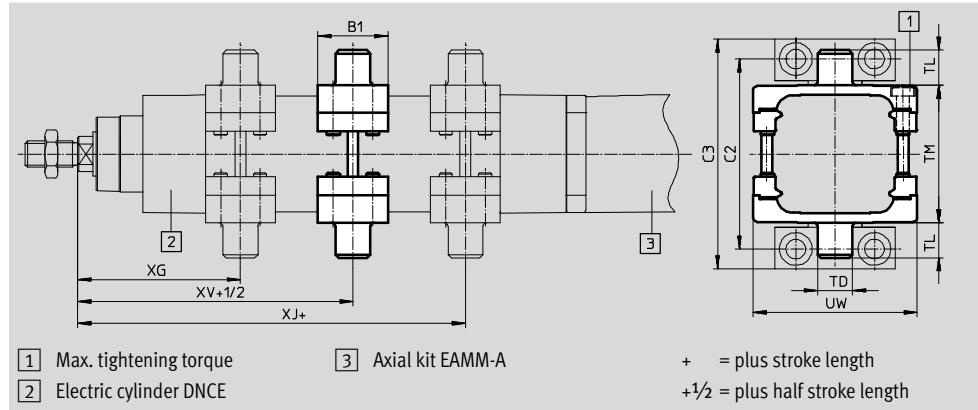


Trunnion mounting kit DAMT

Materials:
Galvanised steel
Free of copper and PTFE

The kit can be mounted at any position along the cylinder profile barrel.
The trunnion mounting kit cannot be

mounted in the vicinity of the motor when used in combination with the parallel kit EAMM-U.



| Dimensions and ordering data | | | | | | | | |
|------------------------------|----|-----|-----|---------------|----|----|-----|------|
| For size | B1 | C2 | C3 | TD ∅ 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 | 1 | 213 | 2213233 | DAMT-V1-32-A |
| 40 | 130.5 | 102.5 | 8+1 | 1 | 388 | 2214899 | DAMT-V1-40-A |
| 63 | 157.5 | 124.5 | 18+2 | 1 | 911 | 2214971 | DAMT-V1-63-A |

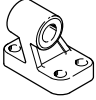
1) Corrosion resistance class CRC 1 to Festo standard FN 940070
Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).





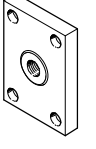
| Ordering data – Mounting attachments | | | | Technical data → Internet: clevis foot | | | |
|--------------------------------------|----------|----------|---------|--|----------|----------|----------|
| Designation | For size | Part No. | Type | Designation | For size | Part No. | Type |
| Clevis foot LNG | | | | Clevis foot LSN | | | |
| | 32 | 33890 | LNG-32 | | 32 | 5561 | LSN-32 |
| | 40 | 33891 | LNG-40 | | 40 | 5562 | LSN-40 |
| | 63 | 33893 | LNG-63 | | 63 | 5564 | LSN-63 |
| Clevis foot LSNG | | | | Clevis foot LSNSG | | | |
| | 32 | 31740 | LSNG-32 | | 32 | 31747 | LSNSG-32 |
| | 40 | 31741 | LSNG-40 | | 40 | 31748 | LSNSG-40 |
| | 63 | 31743 | LSNG-63 | | 63 | 31750 | LSNSG-63 |
| Clevis foot LBG | | | | Right-angle clevis foot LQG | | | |
| | 32 | 31761 | LBG-32 | | 32 | 31768 | LQG-32 |
| | 40 | 31762 | LBG-40 | | 40 | 31769 | LQG-40 |
| | 63 | 31764 | LBG-63 | | 63 | 31771 | LQG-63 |




Electric cylinders DNCE, with spindle drive

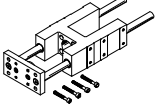
Accessories

FESTO

| Ordering data – Mounting components, corrosion-resistant | | | Technical data → Internet: clevis foot | |
|---|----------|----------|--|--|
| Designation | For size | Part No. | Type | |
| Clevis foot CRLNG | | | | |
|  | 32 | 161840 | CRLNG-32 | |
| | 40 | 161841 | CRLNG-40 | |
| | 63 | 161843 | CRLNG-63 | |

| Ordering data – Piston-rod attachments | | | | Technical data → Internet: piston-rod attachment | | | |
|---|----------|----------|--------------|---|----------|----------|--------------|
| Designation | For size | Part No. | Type | Designation | For size | Part No. | Type |
| Rod eye SGS | | | | Rod clevis SGA | | | |
|  | 32 | 9261 | SGS-M10x1,25 |  | 32 | 32954 | SGA-M10x1,25 |
| | 40 | 9262 | SGS-M12x1,25 | | 40 | 10767 | SGA-M12x1,25 |
| | 63 | 9263 | SGS-M16x1,5 | | 63 | 10768 | SGA-M16x1,5 |
| Rod clevis SG | | | | Self-aligning rod coupler FK | | | |
|  | 32 | 6144 | SG-M10x1,25 |  | 32 | 6140 | FK-M10x1,25 |
| | 40 | 6145 | SG-M12x1,25 | | 40 | 6141 | FK-M12x1,25 |
| | 63 | 6146 | SG-M16x1,5 | | 63 | 6142 | FK-M16x1,5 |
| Coupling piece KSZ | | | | | | | |
|  | 32 | 36125 | KSZ-M10x1,25 | | | | |
| | 40 | 36126 | KSZ-M12x1,25 | | | | |
| | 63 | 36127 | KSZ-M16x1,5 | | | | |

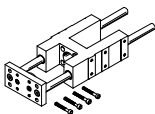
| Ordering data – Piston-rod attachments, corrosion-resistant | | | | Technical data → Internet: piston-rod attachment | | | |
|---|----------|----------|----------------|---|----------|----------|---------------|
| Designation | For size | Part No. | Type | Designation | For size | Part No. | Type |
| Rod eye CRSGS | | | | Rod clevis CRSG | | | |
|  | 32 | 195582 | CRSGS-M10x1,25 |  | 32 | 13569 | CRSG-M10x1,25 |
| | 40 | 195583 | CRSGS-M12x1,25 | | 40 | 13570 | CRSG-M12x1,25 |
| | 63 | 195584 | CRSGS-M16x1,5 | | 63 | 13571 | CRSG-M16x1,5 |
| Self-aligning rod coupler CRFK | | | | | | | |
|  | 32 | 2305778 | CRFK-M10x1,25 | | | | |
| | 40 | 2305779 | CRFK-M12x1,25 | | | | |
| | 63 | 2490673 | CRFK-M16x1,5 | | | | |


| Ordering data – Guide units for fixed strokes (recirculating ball bearing guide only) | | | | Technical data → Internet: feng | | | |
|---|--------------------|----------|----------------|---------------------------------|----------|----------------|--|
| | Stroke [mm] | Part No. | Type | Stroke [mm] | Part No. | Type | |
|  | For size 32 | | | For size 40 | | | |
| | 10 ... 100 | 34494 | FENG-32-100-KF | 10 ... 100 | 34500 | FENG-40-100-KF | |
| | 10 ... 200 | 34496 | FENG-32-200-KF | 10 ... 200 | 34502 | FENG-40-200-KF | |
| | 10 ... 320 | 34497 | FENG-32-320-KF | 10 ... 320 | 34504 | FENG-40-320-KF | |
| | 10 ... 400 | 150290 | FENG-32-400-KF | 10 ... 400 | 150291 | FENG-40-400-KF | |
| | 10 ... 500 | 34498 | FENG-32-500-KF | 10 ... 500 | 34505 | FENG-40-500-KF | |
| | For size 63 | | | | | | |
| | 10 ... 100 | 34514 | FENG-63-100-KF | | | | |
| | 10 ... 200 | 34516 | FENG-63-200-KF | | | | |
| | 10 ... 320 | 34518 | FENG-63-320-KF | | | | |
| | 10 ... 400 | 34519 | FENG-63-400-KF | | | | |
| | 10 ... 500 | 34520 | FENG-63-500-KF | | | | |

Electric cylinders DNCE, with spindle drive


Accessories

FESTO


| Ordering data – Guide units for variable strokes | | | | | Technical data → Internet: feng | |
|---|---------------|-------------|---------------------------------------|-----------------------|---------------------------------|--------------------|
| | For size [mm] | Stroke [mm] | With recirculating ball bearing guide | | With plain-bearing guide | |
| | | | Part No. | Type | Part No. | Type |
|  | 32 | 10 ... 500 | 34487 | FENG-32-...-KF | 34481 | FENG-32-... |
| | 40 | 10 ... 500 | 34488 | FENG-40-...-KF | 34482 | FENG-40-... |
| | 63 | 10 ... 500 | 34490 | FENG-63-...-KF | 34484 | FENG-63-... |



| Ordering data – Compensating components in combination with guide unit FENG | | | |
|---|----------|---------------|----------------------|
| Designation | For size | Part No. | Type |
|  | 32 | 570305 | EADC-V1-32 |
| | 40 | 570306 | EADC-V1-40 |
| | 63 | 570307 | EADC-V1-50/63 |

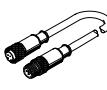
Permissible proximity sensors in combination with motor units MTR-DCI

| Ordering data – Proximity sensor for T-slot, magneto-resistive | | | | | Technical data → Internet: smt | |
|--|--|------------------|----------------------------|------------------|--------------------------------|----------------------------------|
| | Type of mounting | Switching output | Electrical connection | Cable length [m] | Part No. | Type |
| N/O contact | | | | | | |
|  | Insertable in the slot from above, flush with the cylinder profile, short design | PNP | Plug connector M8x1, 3-pin | 0.3 | 574334 | SMT-8M-A-PS-24V-E-0,3-M8D |

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

| Ordering data – Proximity sensor for T-slot, magneto-resistive | | | | | Technical data → Internet: smt | |
|---|--|------------------|-----------------------|------------------|--------------------------------|---------------------------------|
| | Type of mounting | Switching output | Electrical connection | Cable length [m] | Part No. | Type |
| N/O contact | | | | | | |
|  | Insertable in the slot from above, flush with the cylinder profile, short design | PNP | Cable, 3-wire | 2.5 | 574335 | SMT-8M-A-PS-24V-E-2,5-OE |

| Ordering data – Proximity sensors for T-slot, magnetic reed | | | | | Technical data → Internet: sme | |
|---|--|------------------|-----------------------|------------------|--------------------------------|-------------------------------|
| | Type of mounting | Switching output | Electrical connection | Cable length [m] | Part No. | Type |
| N/O contact | | | | | | |
|  | Inserted in the slot from above, flush with the cylinder profile | Contacting | Cable, 3-wire | 2.5 | 543862 | SME-8M-DS-24V-K-2,5-OE |
| | | | | 5.0 | 543863 | SME-8M-DS-24V-K-5,0-OE |
|  | Insertable in the slot lengthwise, flush with the cylinder profile | Contacting | Cable, 3-wire | 2.5 | 150855 | SME-8-K-LED-24 |

| Ordering data – Connecting cable | | | | Technical data → Internet: km8 | |
|---|-------------------------|------------|------------------|--------------------------------|------------------------|
| | Assembly | Connection | Cable length [m] | Part No. | Type |
| Straight socket | | | | | |
|  | Union nut M8, both ends | 3-pin | 0.5 | 175488 | KM8-M8-GSGD-0,5 |
| | | | 1 | 175489 | KM8-M8-GSGD-1 |
| | | | 2.5 | 165610 | KM8-M8-GSGD-2,5 |
| | | | 5 | 165611 | KM8-M8-GSGD-5 |

| Ordering data – Slot cover for T-slot | | | |
|---|------------|----------|------------------------------|
| | Mounting | Length | Part No. Type |
|  | Insertable | 2x 0.5 m | 151680 ABP-5-S |