

Compact cylinders ADN/AEN, to ISO 21287

FESTO



Compact cylinders ADN/AEN, to ISO 21287

Key features

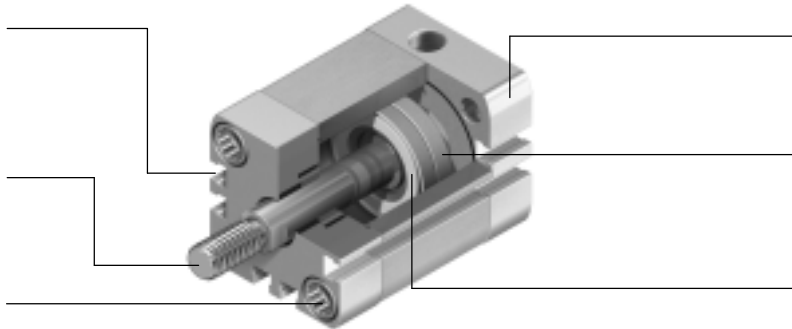


At a glance

Sensor slots on three sides for flush mounting of proximity sensors

Piston rod with choice of male or female thread

Mounting option: Female thread and through-hole



Centring hole in the end cap matches centring pins ZBS

Magnet for contactless position sensing

Integrated cushioning rings for absorbing residual energy at high speeds and machine cycles

More than the standard

- The compact cylinder series ADN/AEN complies with the standard ISO 21287
- The ADN/AEN is distinguished by its compact design and broad area of application thanks to the large number of variants
- The variants can be configured according to individual needs thanks to the modular product system

Powerful

- Flexible cushioning rings as standard for absorbing the residual energy facilitate high speeds and machine cycles
- Long service life thanks to exceptional cushioning characteristics and minimal friction factors
- The ADNP with bearing and end caps made of polymer is distinguished by its low weight

Convenient

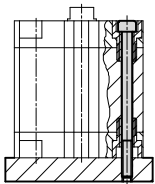
- Easy to mount with a comprehensive range of mounting accessories for just about every type of installation
- Highly flexible thanks to the wide range of variants
- Contactless position sensing using proximity sensors

Reliable

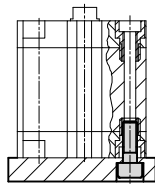
- Optimised manufacturing methods, patented technology and more than 40 years of experience in the field of cylinders make Festo and ADN/AEN a great team

Mounting options

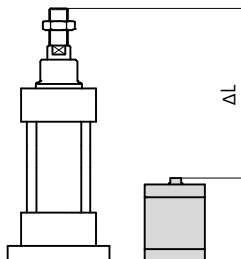
With through screw



Direct mounting



Size comparison between ISO 21287 and ISO 15552



- Space savings of up to 50% compared with the standard ISO 15552

Cushioning types

Cushioning P

Mode of operation

- The drive is equipped with polymer flexible end-position cushioning

Application

- Small loads
- Low speeds
- Small cushioning capacity

Advantages

- No adjustment required
- Time-saving

Cushioning PPS

Mode of operation

- The drive is equipped with self-adjusting, pneumatic end-position cushioning

Application

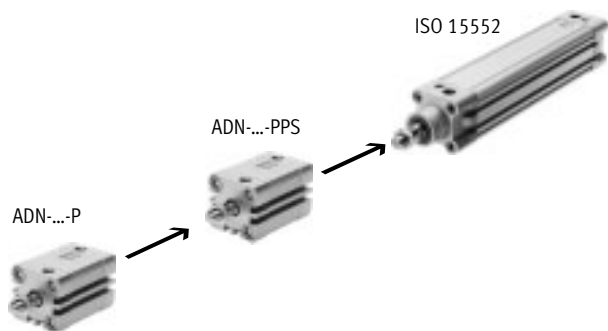
- Larger loads
- Higher speeds
- Larger cushioning capacity

Advantages

- No adjustment required
- Up to four times greater cushioning capacity than ADN-...-P
- Time-saving
- Noise reduction




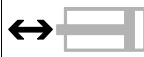









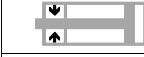
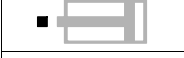

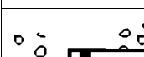
Cushioning capacity of ISO 21287 and ISO 15552

In terms of cushioning capacity, the compact cylinder ADN-...-PPS fills the gap between ADN-...-P and standard cylinders with ISO 15552.



Compact cylinders ADN, to ISO 21287

Key features


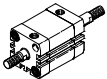
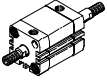


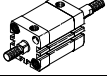
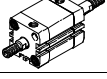



| Variants from the modular product system | | |
|---|---|---|
| Symbol | Key features | Description |
|  | S1 Reinforced piston rod | Increased lateral forces. Absorbs many times more lateral force than a basic cylinder |
|  | S2 Through piston rod | For working at both ends with the same force in the forward and return stroke, for attaching external stops |
|  | S6 Heat-resistant seals | Temperature resistance up to max. 120 °C |
|  | S10 Constant motion (slow speed) at low piston speeds | Suitable for slow stroke movements at a constant, judder-free speed over the full stroke of the cylinder. Seal contains silicone grease (not free of paint-wetting impairment substances) |
|  | S11 Low friction | The special seals considerably reduce system wear. This corresponds to a considerably lower response pressure. Seal contains silicone grease (not free of paint-wetting impairment substances) |
|  | S20 Through, hollow piston rod | For supplying vacuum, small parts, media, etc. |
|  | K2 Extended male piston rod thread | – |
|  | K5 Special piston rod thread | Metric standard thread to ISO |
|  | K8 Extended piston rod | – |
|  | K10 Smooth anodised aluminium piston rod | Ideal for use in welding environments: – Protection against welding spatter – Small working loads – Harder surface compared to steel – Long service life |
|  | KP With clamping unit | Integrated clamping unit on the piston rod |
|  | EL With end-position locking | Positive locking in the end position as a drop guard. If there is a drop in pressure, the piston rod is secured in its end position to prevent it from dropping |
|  | Q Square piston rod | Protection against rotation. For correctly oriented feeding |
|  | R3 High corrosion protection | All external cylinder surfaces comply with corrosion resistance class 3 to Festo standard 940 070. The piston rod is made from corrosion and acid resistant steel |
|  | R8 Dust protection (wiper seal) | The cylinder is equipped with a hard-chrome plated piston rod and a rigid wiper seal, which protects against dry, dusty media |
|  | TL Captive rating plate | Laser etched rating plate. For easy identification of components when it comes to replacement, even after years in a harsh environment |
|  | TT Low temperature | Temperature resistance down to max. –40 °C |

Software tools and configuration of Festo modular products
[→www.festo.com](http://www.festo.com)

Compact cylinders ADN, to ISO 21287

Product range overview

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| Function | Version | Type | Piston \varnothing | Stroke | Position sensing | Cushioning | | |
|---|---|---|------------------------------------|---------------------------------------|------------------|------------|---|----------------------|
| | | | [mm] | | | [mm] | A | P |
| Double-acting | Basic version | | | | | | | |
| |  | ADN | 12 | 5, 10, 15, 20, 25, 30, 40 | 1 ... 300 | ■ | ■ | ■ ∅ 20 ... 100 |
| | | | 16 | 5, 10, 15, 20, 25, 30, 40, 50 | 1 ... 300 | | | |
| | | | 20, 25 | 5, 10, 15, 20, 25, 30, 40, 50, 60 | 1 ... 300 | | | |
| | | | 32, 40, 50 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 | 1 ... 400 | | | |
| | | | 63 | 10, 15, 20, 25, 30, 40, 50, 60, 80 | 1 ... 400 | | | |
| | | | 80, 100 | 10, 15, 20, 25, 30, 40, 50, 60, 80 | 1 ... 500 | | | |
| | | | 125 | - | 1 ... 500 | | | |
| |  | ADN-...-S2 Through piston rod | 12, 16, 20, 25 | - | 1 ... 300 | ■ | ■ | ■ ∅ 20 ... 100 |
| | | | 32, 40, 50, 63 | - | 1 ... 400 | | | |
| | | | 80, 100, 125 | - | 1 ... 500 | | | |
| |  | ADN-...-S20 Through, hollow piston rod | 16, 20, 25 | - | 1 ... 300 | ■ | ■ | ■ ∅ 20 ... 100 |
| | | | 32, 40, 50, 63 | - | 1 ... 400 | | | |
| | | | 80, 100, 125 | - | 1 ... 500 | | | |
| | Reinforced piston rod | | | | | | | |
| |  | ADN-...-S1 | 25 | - | 5 ... 300 | ■ | ■ | - |
| | | | 40, 63 | - | 10 ... 400 | | | |
| | | | 100 | - | 10 ... 500 | | | |
| | Non-rotating with square piston rod | | | | | | | |
| |  | ADN-...-Q | 12, 16, 20, 25 | - | 1 ... 300 | ■ | ■ | - |
| | | | 32, 40, 50, 63 | - | 1 ... 400 | | | |
| | | | 80, 100, 125 | - | 1 ... 500 | | | |
| |  | ADN-...-Q-S2 Through piston rod | 12, 16, 20, 25 | - | 1 ... 300 | ■ | ■ | - |
| | | | 32, 40, 50, 63 | - | 1 ... 400 | | | |
| | | | 80, 100, 125 | - | 1 ... 500 | | | |
| |  | ADN-...-Q-S20 Through, hollow piston rod | 16, 20, 25 | - | 1 ... 200 | ■ | ■ | - |
| | | | 32, 40, 50, 63 | - | 1 ... 300 | | | |
| 80, 100, 125 | | | - | 1 ... 400 | | | | |
| Standard hole pattern, with clamping unit | | | | | | | | |
|  | ADN-...-KP | 20, 25 | - | 10 ... 300 | ■ | ■ | - | |
| | | 32, 40, 50, 63 | - | 10 ... 400 | | | | |
| | | 80, 100 | - | 10 ... 500 | | | | |
| Standard hole pattern, with end-position locking | | | | | | | | |
|  | ADN-...-EL | 20, 25 | - | 10 ... 300 | ■ | ■ | - | |
| | | 32, 40, 50, 63 | - | 10 ... 400 | | | | |
| | | 80, 100 | - | 10 ... 500 | | | | |
| With polymer end caps | | | | | | | | |
|  | ADNP | 20, 25 | 5, 10, 15, 20, 25, 30, 40, 50, 60 | - | ■ | ■ | - | |
| | | 32, 40, 50 | 10, 15, 20, 25, 30, 40, 50, 60, 80 | | | | | |

Compact cylinders ADN, to ISO 21287

Product range overview

| Type | Male piston rod thread | Female piston rod thread | Extended male piston rod thread | Special piston rod thread | Extended piston rod | Smooth anodised piston rod | Heat-resistant seals max. 120 °C | Slow speed (constant motion) | Low friction | High corrosion protection | Dust protection | Low temperature | → Page/Internet |
|---|------------------------|--------------------------|---------------------------------|---------------------------|---------------------|----------------------------|----------------------------------|------------------------------|--------------|---------------------------|---------------------|-------------------|-----------------|
| | A | I | K2 | K5 | K8 | K10 | S6 | S10 | S11 | R3 | R8 | TT | |
| Basic version | | | | | | | | | | | | | |
| ADN | ■ | ■ | ■ | ■ | ■ | ■ ∅ 20 and above | ■ | ■ | ■ | ■ | ■ ∅ 20 and above | ■ ∅ 20 ... 100 | 13 |
| ADN...-S2 Through piston rod | ■ | ■ | ■ | ■ | ■ | - | ■ | - | - | - | - | ■ ∅ 20 ... 100 | 13 |
| ADN...-S20 Through, hollow piston rod | ■ | - | ■ | ■ | ■ | - | ■ | - | - | - | - | - | 13 |
| Reinforced piston rod | | | | | | | | | | | | | |
| ADN...-S1 | ■ | ■ | ■ | ■ | ■ | - | ■ | - | - | ■ | - | - | 13 |
| Non-rotating with square piston rod | | | | | | | | | | | | | |
| ADN...-Q | ■ | ■ | ■ | ■ | ■ | - | ■ | - | - | - | - | - | 13 |
| ADN...-Q-S2 Through piston rod | ■ | ■ | ■ | ■ | ■ | - | ■ | - | - | - | - | - | 13 |
| ADN...-Q-S20 Through, hollow piston rod | ■ | - | ■ | ■ | ■ | - | ■ | - | - | - | - | - | 13 |
| Standard hole pattern, with clamping unit | | | | | | | | | | | | | |
| ADN...-KP | ■ | ■ | ■ | ■ | ■ | - | - | - | - | - | - | - | 40 |
| Standard hole pattern, with end-position locking | | | | | | | | | | | | | |
| ADN...-EL | ■ | ■ | ■ | ■ | ■ | - | - | - | - | - | - | - | 49 |
| With polymer end caps | | | | | | | | | | | | | |
| ADNP | ■ | ■ | - | - | - | - | - | - | - | - | - | - | 75 |

Compact cylinders ADN, to ISO 21287

Product range overview



| Function | Version | Type | Piston \varnothing | Stroke | Position sensing | Cushioning | | |
|---|--|------------------------------------|-------------------------|---------------------------------------|------------------|------------|---|----------------------------------|
| | | | [mm] | | | [mm] | A | P |
| Double-acting | Standard hole pattern, non-rotating with yoke | | | | | | | |
| | | ADNGF | 12 | 5, 10, 15, 20, 25, 30, 40 | 1 ... 200 | ■ | ■ | ■ \varnothing 20 ... 100 |
| | | | 16 | 5, 10, 15, 20, 25, 30, 40, 50 | 1 ... 200 | | | |
| | | | 20, 25 | 5, 10, 15, 20, 25, 30, 40, 50, 60 | 3 ... 200 | | | |
| | | | 32, 40, 50 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 | 5 ... 300 | | | |
| | | | 63, 80 | 10, 15, 20, 25, 30, 40, 50, 60, 80 | 5 ... 300 | | | |
| | | ADNGF-...-S2 Through piston rod | 12, 16 | – | 1 ... 200 | ■ | ■ | ■ \varnothing 20 ... 100 |
| | | | 20, 25 | | 3 ... 200 | | | |
| | | | 32, 40, 50, 63, 80, 100 | | 5 ... 250 | | | |
| | | | | | | | | |
| | Standard hole pattern, high-force cylinder | | | | | | | |
| | | ADNH | 25 | – | 1 ... 150 | ■ | ■ | – |
| | | | 40 | | | | | |
| | | | 63 | | | | | |
| | | | 100 | | | | | |
| Standard hole pattern, multi-position cylinder | | | | | | | | |
| | ADNM | 25 | – | 1 ... 2,000 | ■ | ■ | – | |
| | | 40 | | | | | | |
| | | 63 | | | | | | |
| | | 100 | | | | | | |

Compact cylinders ADN, to ISO 21287

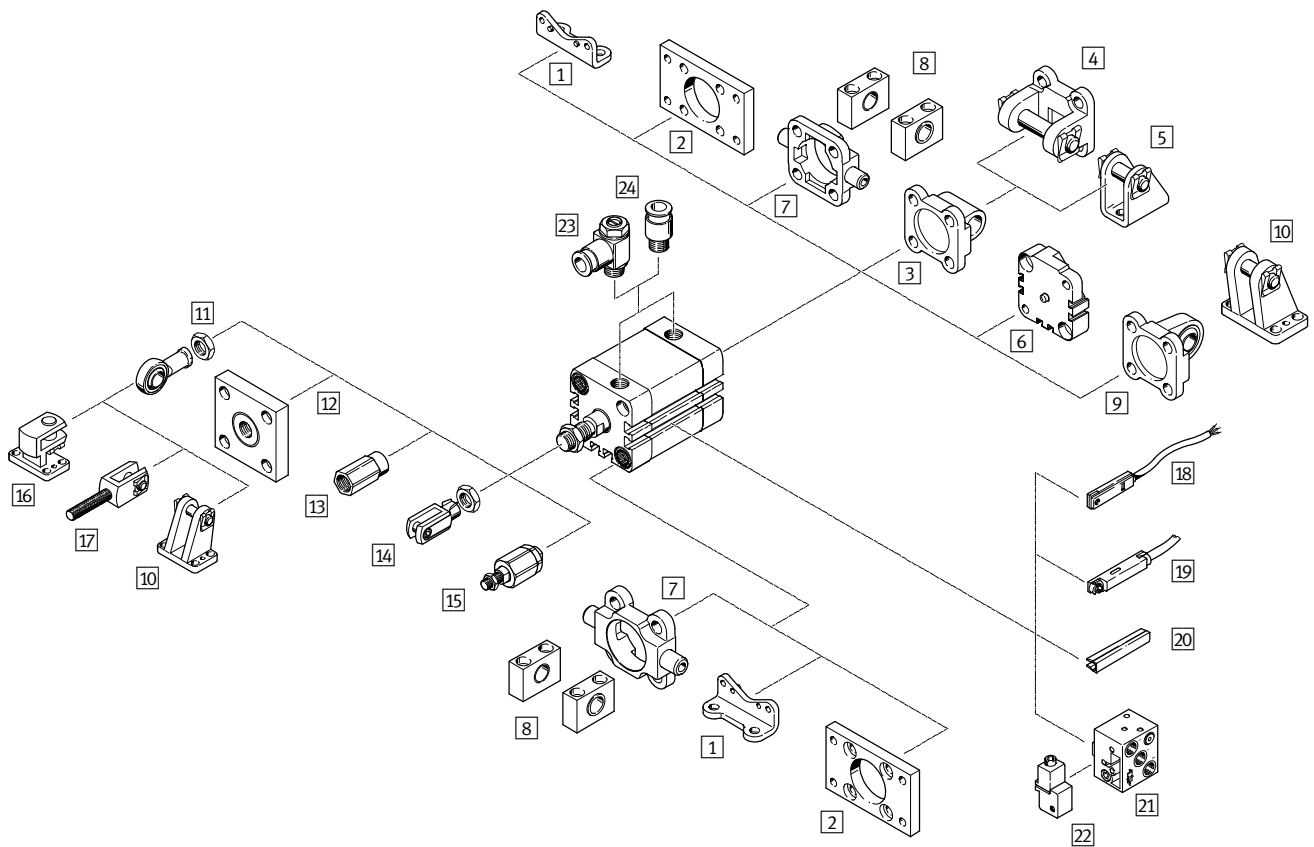
Product range overview

| Type | Male piston rod thread | Female piston rod thread | Extended male piston rod thread | Special piston rod thread | Extended piston rod | Heat-resistant seals max. 120 °C | → Page/Internet |
|---|------------------------|--------------------------|---------------------------------|---------------------------|---------------------|----------------------------------|-----------------|
| | A | I | K2 | K5 | K8 | S6 | |
| Standard hole pattern, non-rotating with yoke | | | | | | | |
| ADNGF | - | - | - | - | - | ■ | adngf |
| ADNGF-...-S2 Through piston rod | - | - | - | - | - | ■ | adngf |
| Standard hole pattern, high-force cylinder | | | | | | | |
| ADNH | ■ | ■ | ■ | ■ | ■ | ■ | adnh |
| Standard hole pattern, multi-position cylinder | | | | | | | |
| ADNM | ■ | ■ | ■ | ■ | ■ | ■ | adnh |

Compact cylinders ADN/AEN, to ISO 21287

Peripherals overview

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Compact cylinders ADN/AEN, to ISO 21287

Peripherals overview

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| Mounting attachments and accessories | | |
|--------------------------------------|---|--|
| | Description | → Page/Internet |
| 1 | Foot mounting HNA | For bearing or end caps 79 |
| 2 | Flange mounting FNC | For bearing or end caps 80 |
| 3 | Swivel flange SNCL | For end caps 81 |
| 4 | Swivel flange SNCB | For swivel flange SNCL 85 |
| 5 | Clevis foot LBN/CRLBN | For swivel flange SNCL 84 |
| 6 | Multi-position kit DPNA | For connecting two cylinders with identical piston \varnothing to form a multi-position cylinder 83 |
| 7 | Trunnion flange ZNCF/CRZNG | For bearing caps 86 |
| 8 | Trunnion support LNZG | For trunnion flange ZNCF/CRZNG 87 |
| 9 | Swivel flange SNCS | For end caps 82 |
| 10 | Clevis foot LBG | For swivel flange SNCS 82 |
| 11 | Rod eye SGS/CRSGS | With spherical bearing 88 |
| 12 | Coupling piece KSG/KSZ | For compensating radial deviations 88 |
| 13 | Adapter AD | For mounting a vacuum suction cup on a hollow cylinder piston rod 88 |
| 14 | Rod clevis SG/CRSG | Permits a swivelling movement of the cylinder in one plane 88 |
| 15 | Self-aligning rod coupler FK/CRFK | For compensating radial and angular deviations 88 |
| 16 | Right-angle clevis foot LQG | For rod eye SGS 89 |
| 17 | Rod clevis SGA | With male thread 88 |
| 18 | Proximity sensor SME/SMT-8 | Can be integrated in the sensor slot of the cylinder profile barrel 91 |
| 19 | Proximity sensor SME/SMT-8M | Can be integrated in the sensor slot of the cylinder profile barrel 91 |
| 20 | Slot cover ABP-5-S | For protecting the sensor cable and keeping dirt out of the sensor slots 91 |
| 21 | Proximity sensor SMPO-8E | Pneumatic output signal 91 |
| 22 | Mounting kit SMB-8E | For proximity sensor SMPO-8E 91 |
| 23 | One-way flow control valve GRLA/GRLZ | For speed regulation 89 |
| 24 | Push-in fitting QS | For connecting compressed air tubing with standard external diameters quick star |

Compact cylinders ADN, to ISO 21287

Type codes

ADN – 50 – 50 – A – P – A – S2

Type

| | |
|---------------|------------------|
| Double-acting | |
| ADN | Compact cylinder |

Piston Ø [mm]

Stroke [mm]

Piston rod thread

| | |
|---|---------------|
| A | Male thread |
| I | Female thread |

Cushioning

| | |
|-----|---|
| P | Flexible cushioning rings/pads at both ends |
| PPS | Pneumatic cushioning, self-adjusting at both ends |

Position sensing

| | |
|---|----------------------|
| A | Via proximity sensor |
|---|----------------------|

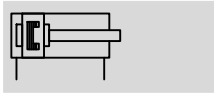
Variant

| | |
|-----|--|
| Q | Square piston rod |
| S1 | Reinforced piston rod |
| S2 | Through piston rod |
| S20 | Through, hollow piston rod |
| K2 | Piston rod with extended male thread |
| K5 | Piston rod with special thread |
| K8 | Extended piston rod |
| K10 | Smooth anodised piston rod |
| S6 | Heat-resistant seals up to max. 120 °C |
| S10 | Slow speed (constant motion) |
| S11 | Low friction |
| R3 | High corrosion protection |
| R8 | Dust protection |
| TL | Captive rating plate |
| TT | Low temperature |

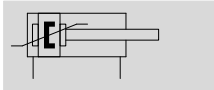
Compact cylinders ADN, to ISO 21287

Technical data

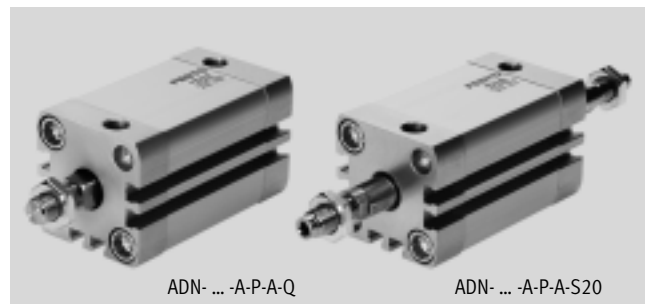
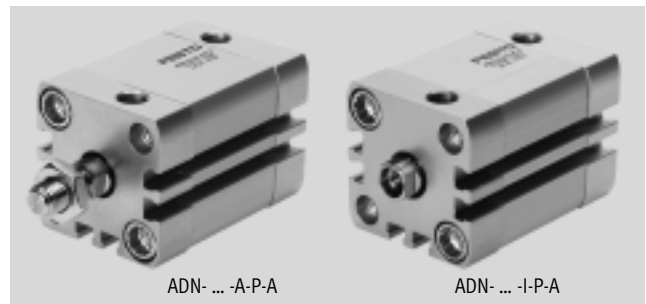
Function
P cushioning



PPS cushioning



Variants → 3



⌀ - Diameter
12 ... 125 mm

— - Stroke length
1 ... 500 mm

- www.festo.com

| General technical data | | | | | | | | | | | |
|------------------------|---|----|----|-----|----|----|----|----|-----|-----|-----|
| Piston ⌀ | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
| Design | Piston | | | | | | | | | | |
| | Piston rod | | | | | | | | | | |
| | Cylinder barrel | | | | | | | | | | |
| Mode of operation | Double-acting | | | | | | | | | | |
| Cushioning | | | | | | | | | | | |
| P | Flexible cushioning rings/pads at both ends | | | | | | | | | | |
| PPS | Pneumatic cushioning, self-adjusting at both ends | | | | | | | | | | - |
| Cushioning length | | | | | | | | | | | |
| PPS | [mm] | - | 3 | 3.5 | 4 | 5 | 6 | 7 | 7.5 | 10 | - |
| Position sensing | Via proximity sensor | | | | | | | | | | |
| Type of mounting | Via through-hole | | | | | | | | | | |
| | Via female thread | | | | | | | | | | |
| | Via accessories | | | | | | | | | | |
| Mounting position | Any | | | | | | | | | | |

| Technical data – Basic version and variants | | | | | | |
|---|----|-----|---------------|---------------|----------|---------------|
| Piston ⌀ | 12 | 16 | 20 | 25 | 32 | 40 |
| Pneumatic connection | | | | | | |
| - | M5 | M5 | M5 | M5 | G1/8 | G1/8 |
| S1 | - | - | - | M5 | - | M5 |
| Female piston rod thread | | | | | | |
| - | M3 | M4 | M6 | M6 | M8 | M8 |
| K5 | - | - | M5 | M5 | M6 | M6 |
| S1 | - | - | - | M6 | - | M10 |
| K5-S1 | - | - | - | M5 | - | M8 |
| Male piston rod thread | | | | | | |
| - | M5 | M6 | M8 | M8 | M10x1.25 | M10x1.25 |
| K5 | M6 | M8 | M10, M10x1.25 | M10, M10x1.25 | M10, M12 | M10, M12 |
| S1 | - | - | - | M8 | - | M12x1.25 |
| K5-S1 | - | - | - | M10, M10x1.25 | - | M10x1.25, M12 |
| Max. torsional backlash of piston rod [°] | | | | | | |
| Q | 2 | 1.8 | 1.6 | 1.6 | 1.2 | 1.2 |

Compact cylinders ADN, to ISO 21287

FESTO

Technical data

| Technical data – Basic version and variants | | | | | |
|---|-----------------|-----------------|-----------------|-------------------|-----------------|
| Piston Ø | 50 | 63 | 80 | 100 | 125 |
| Pneumatic connection | | | | | |
| – | G $\frac{1}{8}$ | G $\frac{1}{8}$ | G $\frac{1}{8}$ | G $\frac{1}{8}$ | G $\frac{1}{4}$ |
| S1 | – | G $\frac{1}{8}$ | – | G $\frac{1}{8}$ | – |
| Female piston rod thread | | | | | |
| – | M10 | M10 | M12 | M12 | M16 |
| K5 | M8 | M8 | M10 | M10 | – |
| S1 | – | M12 | – | M16 | – |
| K5-S1 | – | M10 | – | – | – |
| Male piston rod thread | | | | | |
| – | M12x1.25 | M12x1.25 | M16x1.5 | M16x1.5 | M20x1.5 |
| K5 | M12, M16 | M12, M16 | M16, M20 | M16, M20, M20x1.5 | M20 |
| S1 | – | M16x1.5 | – | M20x1.5 | – |
| K5-S1 | – | M12x1.25, M16 | – | M16x1.5, M20 | – |
| Max. torsional backlash of piston rod [°] | | | | | |
| Q | 1 | 1 | 0.8 | 0.8 | 0.8 |

| Operating and environmental conditions | | | | | | | | | | | | |
|--|--|------------|-------------|----|-------------|----------|----------|------------|----|-----|----------|---|
| Piston Ø | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 | |
| Operating medium | Compressed air in accordance with ISO 8573-1:2010 [7:4:4] | | | | | | | | | | | |
| Note on operating/pilot medium | Operation with lubricated medium possible (in which case lubricated operation will always be required) | | | | | | | | | | | |
| Operating pressure [bar] | | | | | | | | | | | | |
| – | 1 ... 10 | | 0.6 ... 10 | | | | | | | | | |
| PPS | – | | 1.5 ... 10 | | | 1 ... 10 | | | – | | | |
| Q | 1.3 ... 10 | | 1 ... 10 | | 0.8 ... 10 | | | 0.6 ... 10 | | | | |
| S1 | – | | 1 ... 10 | | – | | 1 ... 10 | | – | | 1 ... 10 | – |
| S2, S20 | 1.5 ... 10 | 1.3 ... 10 | 1.2 ... 10 | | 1 ... 10 | | | 0.8 ... 10 | | | | |
| S6 | 1 ... 10 | | 0.6 ... 10 | | | | | | | | | |
| S11 | 0.45 ... 10 | | | | 0.25 ... 10 | | | | | | | |
| R8, TT | – | | 1.5 ... 10 | | | 1 ... 10 | | | – | | | |
| Ambient temperature ¹⁾ [°C] | | | | | | | | | | | | |
| – | –20 ... +80 | | | | | | | | | | | |
| S6 | 0 ... +120 | | | | | | | | | | | |
| R3 | –20 ... +80 | | | | | | | | | | | |
| TT | – | | –40 ... +80 | | | | | | | – | | |
| Corrosion resistance class CRC ²⁾ | | | | | | | | | | | | |
| – | 2 | | | | | | | | | | | |
| R3 | 3 | | | | | | | | | | | |
| ATEX | Specified types → www.festo.com | | | | | | | | | | | |

1) Note operating range of proximity sensors

2) 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.

Compact cylinders ADN, to ISO 21287

Technical data

FESTO


| Forces [N] and impact energy [J] | | | | | | | | | | | |
|---|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|
| Piston Ø | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
| Theoretical force at 6 bar, advancing | | | | | | | | | | | |
| – | 68 | 121 | 188 | 295 | 483 | 754 | 1,178 | 1,870 | 3,016 | 4,712 | 7,363 |
| S1 | – | – | – | 295 | – | 754 | – | 1,870 | – | 4,712 | – |
| S2 | 51 | 90 | 141 | 247 | 415 | 686 | 1,057 | 1,750 | 2,827 | 4,524 | 7,069 |
| Theoretical force at 6 bar, retracting | | | | | | | | | | | |
| – | 51 | 90 | 141 | 247 | 415 | 686 | 1,057 | 1,750 | 2,827 | 4,524 | 7,069 |
| S1 | – | – | – | 247 | – | 633 | – | 1,681 | – | 4,417 | – |
| S2 | 51 | 90 | 141 | 247 | 415 | 686 | 1,057 | 1,750 | 2,827 | 4,524 | 7,069 |
| Max. impact energy in the end positions | | | | | | | | | | | |
| – | 0.07 | 0.15 | 0.2 | 0.3 | 0.4 | 0.7 | 1 | 1.3 | 1.8 | 2.5 | 3.3 |
| S1 | – | – | – | 0.3 | – | 0.7 | – | 1.3 | – | 2.5 | – |
| S6 | 0.035 | 0.075 | 0.1 | 0.15 | 0.2 | 0.35 | 0.5 | 0.65 | 0.9 | 1.25 | 1.75 |
| K10 | – | – | 0.16 | 0.24 | 0.32 | 0.56 | 0.8 | 1 | 1.4 | 2 | 2.6 |
| S20 | – | 0.016 | 0.024 | 0.083 | 0.15 | 0.39 | 0.48 | 0.62 | 0.8 | 0.9 | 0.95 |

 Note
This data represents the maximum values that can be achieved. The maximum permissible impact energy must be observed.

Permissible impact velocity:
$$v_{perm.} = \sqrt{\frac{2 \times E_{perm.}}{m_{dead} + m_{load}}}$$

Maximum permissible load:
$$m_{load} = \frac{2 \times E_{perm.}}{v^2} - m_{dead}$$

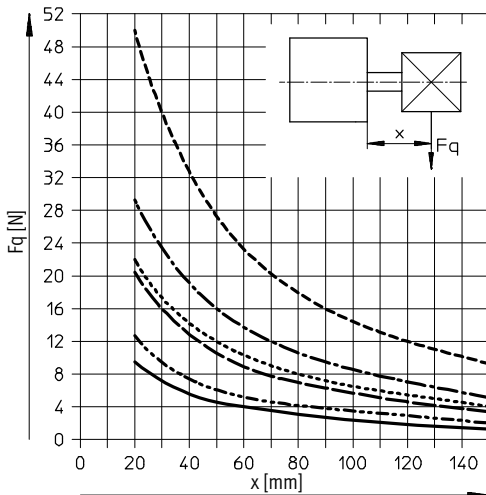
$v_{perm.}$ Permissible impact velocity
 $E_{perm.}$ Max. impact energy
 m_{dead} Moving load (drive)
 m_{load} Moving effective load

 Note
In combination with PPS cushioning, the maximum impact energy is still obtained.

| Max. energy conversion capacity [J] | | | | | | | | |
|-------------------------------------|------|-----|----|-----|-----|-----|----|-----|
| Piston Ø | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 |
| For PPS cushioning | 0.65 | 0.8 | 1 | 1.7 | 2.8 | 4.8 | 8 | 12 |

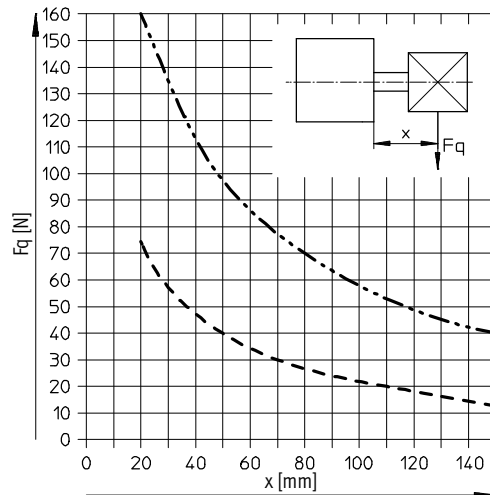
Max. lateral force F_q as a function of the projection x

Ø 12 ... 63



- Ø 12
- - - - - Ø 16
- · — · — Ø 20
- · · · · Ø 25
- · — · — Ø 32/40
- - - - - Ø 50/63

Ø 80 ... 125



- - - - - Ø 80/100
- · - · - · - Ø 125

Compact cylinders ADN, to ISO 21287

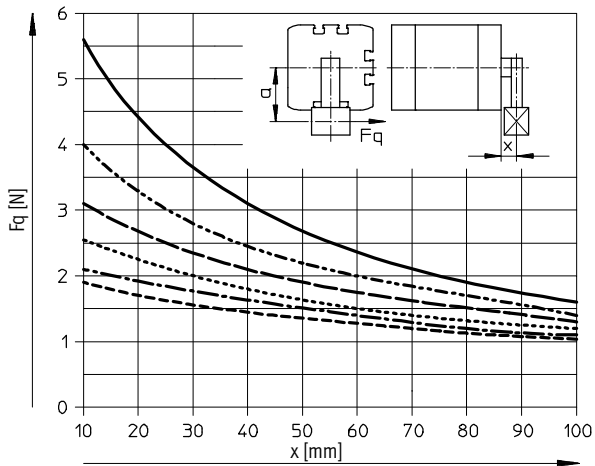
Technical data

FESTO

Max. lateral force F_q as a function of the projection x and the lever arm a

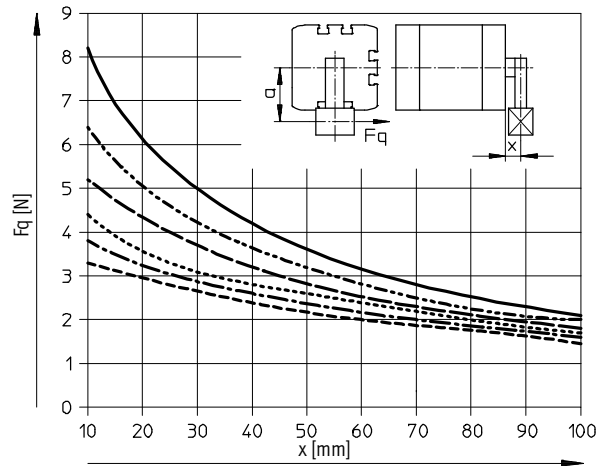
Q – Square piston rod

Ø 12



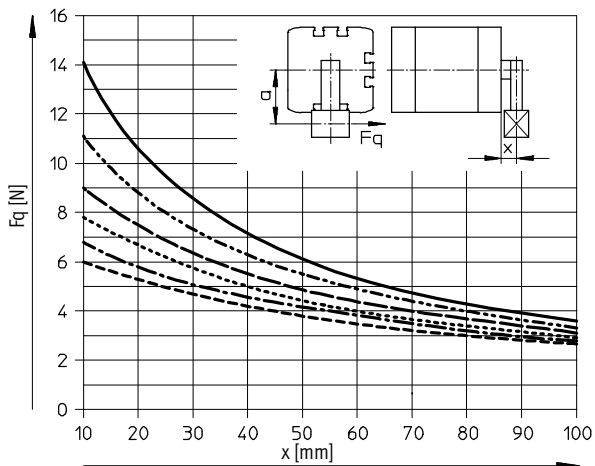
- a = 5 mm
- - - a = 10 mm
- · - a = 15 mm
- · · a = 20 mm
- · - a = 25 mm
- - - a = 30 mm

Ø 16



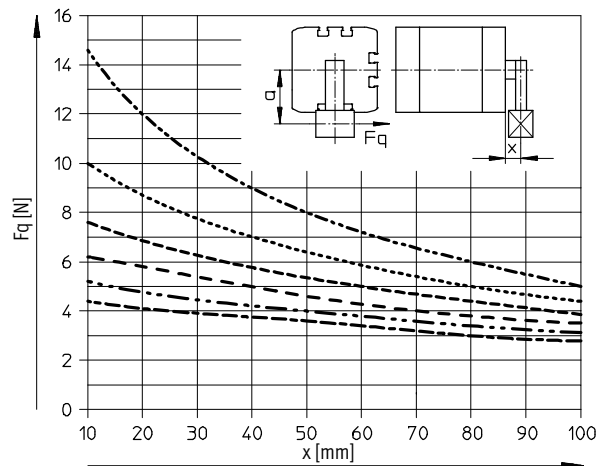
- a = 5 mm
- - - a = 10 mm
- · - a = 15 mm
- · · a = 20 mm
- · - a = 25 mm
- - - a = 30 mm

Ø 20/25



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

Ø 32/40



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

Note

• Torques on the piston rod are to be excluded with projections greater than those shown in the graphs.

• If $a = 0$, the corresponding lateral load line of the basic ADN version can be used (→ 15).

Compact cylinders ADN, to ISO 21287

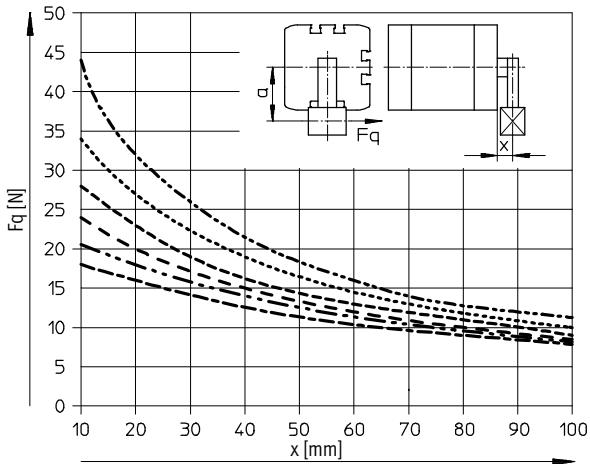
Technical data

FESTO

Max. lateral force F_q as a function of the projection x and the lever arm a

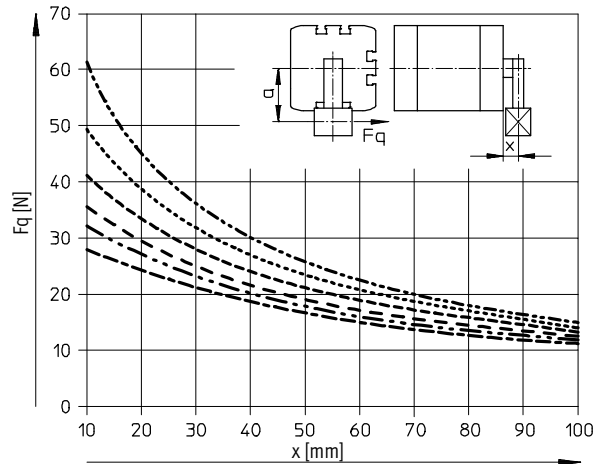
Q – Square piston rod

Ø 50/63



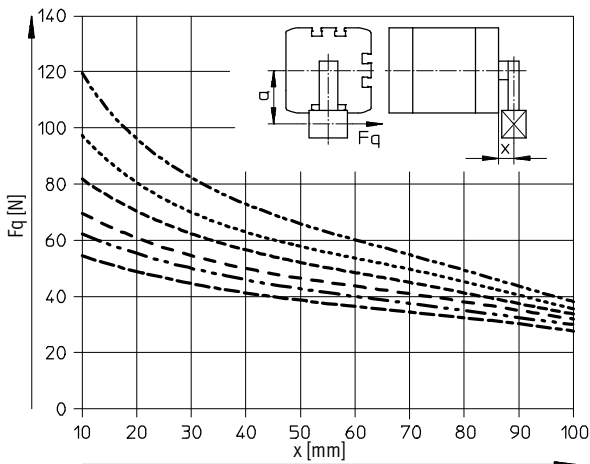
- a = 10 mm
- a = 20 mm
- a = 30 mm
- a = 40 mm
- a = 50 mm
- a = 60 mm

Ø 80/100



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

Ø 125



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

Note

• Torques on the piston rod are to be excluded with projections greater than those shown in the graphs.

• If $a = 0$, the corresponding lateral load line of the basic ADN version can be used (→ 15).

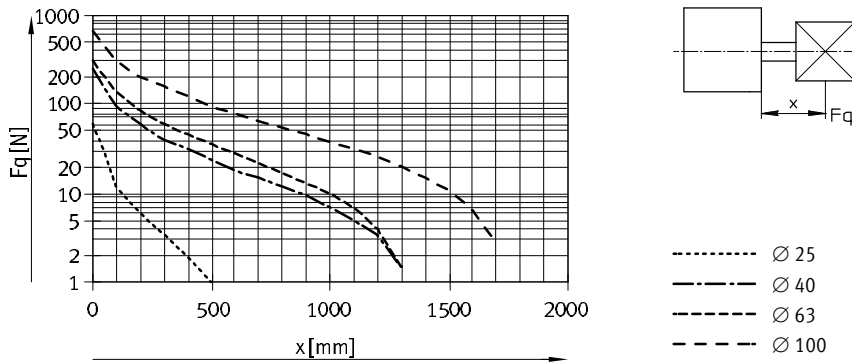
Compact cylinders ADN, to ISO 21287

Technical data



Max. lateral force F_q as a function of the projection x

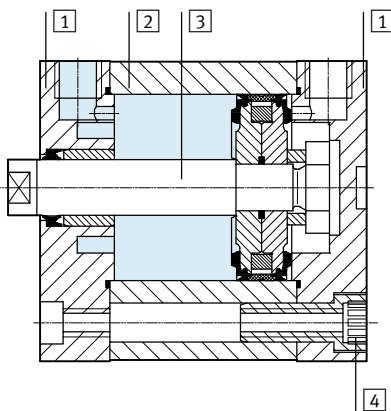
S1 – Reinforced piston rod



| Weight [g] | | | | | | | | | | | |
|------------------------------------|----|----|-----|-----|-----|-----|-----|-----|------|------|------|
| Piston Ø | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
| Product weight with 0 mm stroke | 77 | 79 | 131 | 156 | 265 | 346 | 540 | 722 | 1300 | 2154 | 2880 |
| Additional weight per 10 mm stroke | 12 | 14 | 21 | 23 | 30 | 37 | 51 | 59 | 79 | 98 | 117 |
| Moving load with 0 mm stroke | 9 | 15 | 30 | 50 | 60 | 80 | 140 | 180 | 400 | 570 | 1080 |
| Additional load per 10 mm stroke | 2 | 4 | 6 | 6 | 9 | 9 | 16 | 16 | 25 | 25 | 39 |

Materials

Sectional view



| Compact cylinder | Basic version, Q | R8 | S6, S10, S11 | R3 | K10 |
|------------------------------|-----------------------------------|-------------------------------------|------------------|-----------------------------------|-----------------------------------|
| 1 Bearing and end cap | | | | | |
| Ø 12 ... 80 | Anodised aluminium | | | | |
| Ø 100/125 | Coated die-cast aluminium | | | | |
| 2 Cylinder barrel | Anodised aluminium | | | | |
| 3 Piston rod | High-alloy steel | Hard-chromium plated tempered steel | High-alloy steel | Anodised aluminium | |
| 4 Flange screws | | | | | |
| Ø 12 ... 16 | High-alloy steel | | | High-alloy steel | – |
| Ø 20 ... 63 | Galvanised steel | | | Steel, zinc flake coating | Galvanised steel |
| Ø 80 ... 125 | Standard screws, galvanised steel | | | Standard screws, high-alloy steel | Standard screws, galvanised steel |
| – Seals | Polyurethane | | Fluoro elastomer | Polyurethane | |
| Note on materials | RoHS-compliant | | | | |

Compact cylinders ADN, to ISO 21287

Technical data

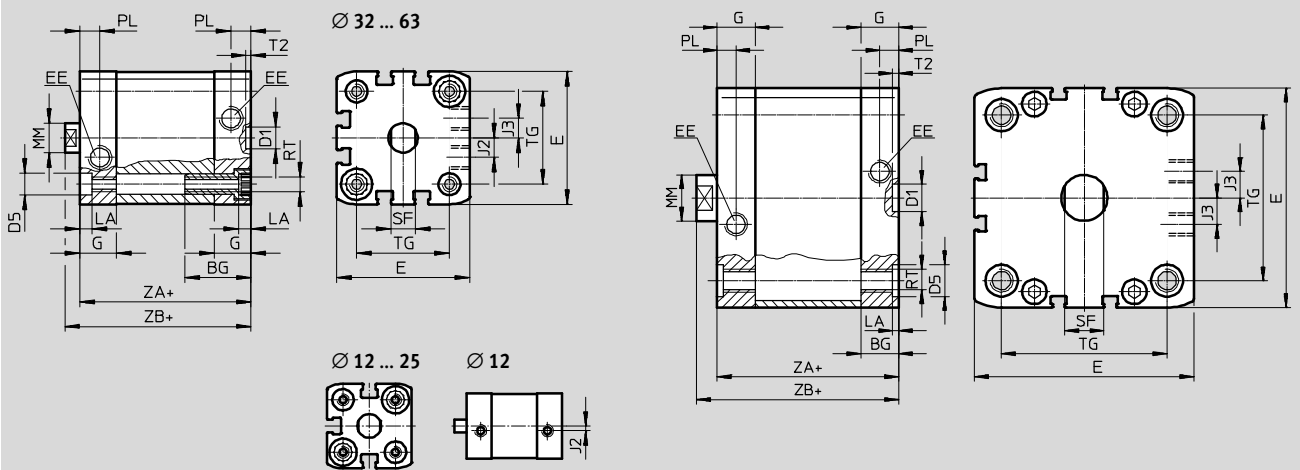


Dimensions – Basic version

Download CAD data → www.festo.com

∅ 12 ... 63

∅ 80 ... 125



+ = plus stroke length

| ∅ [mm] | BG min. | D1 ∅ H9 | D5 ∅ F9 | E | EE | G | J2 | J3 | LA +0.2 |
|-----------|----------------------|----------------------|---------------|-----------------------|------|------|--------------------|----|------------|
| 12 | 17 | 9 | 6 | 27.5 ^{+0.3} | M5 | 10.5 | 2 | - | 3.5 |
| 16 | | | | 29 ^{+0.3} | | 11 | 2.6 | | |
| 20 | | | | 35.5 ^{+0.3} | | 12 | | 5 | |
| 25 | | | | 39.5 ^{+0.3} | | 15 | 47 ^{+0.3} | | 6 |
| 32 | 26 | 54.5 ^{+0.3} | 8 | | | | | | |
| 40 | | 65.5 ^{+0.3} | 11.5 | 2.6 | | | | | |
| 50 | 75.5 ^{+0.3} | 16.5 | | | | | | | |
| 63 | 27 | 12 | 15 | 95.5 ^{+0.6} | 21.5 | 20 | 21.15 | - | |
| 80 | 17 | | | 113.5 ^{+0.6} | | | | | |
| 100 | 21.5 | - | - | 134.6 ^{+0.3} | G1/4 | 20 | 21.15 | - | |
| 125 | 20 | - | - | - | - | - | - | - | |

| ∅ [mm] | MM ∅ | PL +0.2 | RT | SF h13 | T2 +0.1 | TG ±0.2 | ZA ±0.3 | ZB | |
|-----------|---------|------------|-----|-----------|------------|------------|------------|------|-------------|
| | | | | | | | | +1.2 | PPS +1.3 |
| 12 | 6 | 6 | M4 | 5 | 2.1 | 16 | 35 | 39.2 | - |
| 16 | 8 | | | 7 | | 18 | 39.7 | | |
| 20 | 10 | | M5 | 9 | | 22 | 37 | 42.5 | 42.5 |
| 25 | | | | 26 | | 39 | 44.5 | 45.3 | |
| 32 | 12 | 8.2 | M6 | 10 | 32.5 | 44 | 50 | 50.6 | |
| 40 | | | | 38 | 45 | 51.1 | 51.7 | | |
| 50 | 16 | | M8 | 13 | 46.5 | 49 | 52.7 | 53.2 | |
| 63 | | | | 56.5 | 57 | | | | |
| 80 | 20 | M10 | 17 | 72 | 54 | 62.9 | 63.4 | | |
| 100 | | | 89 | 67 | 76 | 76.8 | | | |
| 125 | 25 | 10.5 | M12 | 21 | 110 | 81 | 92 | - | |

Compact cylinders ADN, to ISO 21287

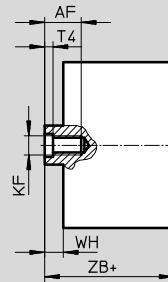
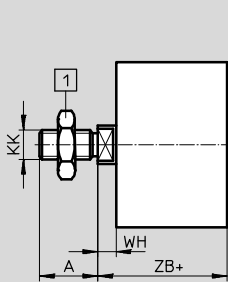
Technical data

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Dimensions – Variants

Download CAD data → www.festo.com

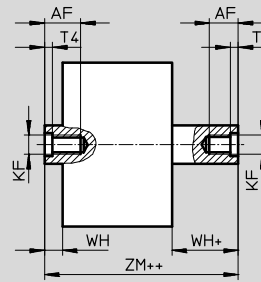
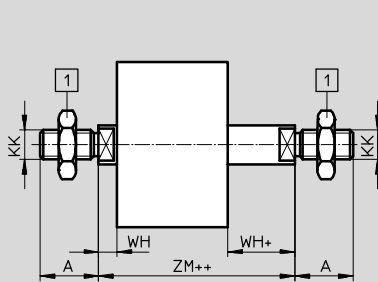
Basic version



1 Hex nut DIN 439-B
only with $\varnothing 32 \dots 125$

+ = plus stroke length

S2 – Through piston rod

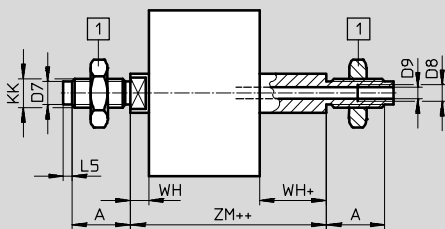


1 Hex nut DIN 439-B
only with $\varnothing 32 \dots 125$

+ = plus stroke length

++ = plus 2x stroke length

S20 – Through, hollow piston rod



⌀ Note

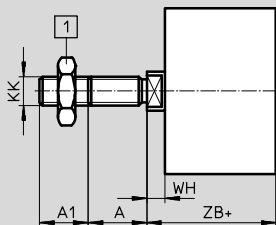
In combination with variants
S2/S20, the piston rod is extended
at one end.

1 Hex nut DIN 439-B
only with $\varnothing 32 \dots 125$

+ = plus stroke length

++ = plus 2x stroke length

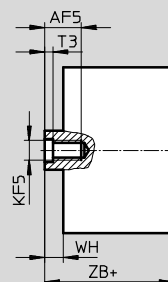
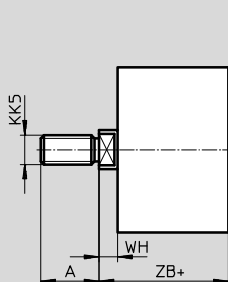
K2 – Extended male piston rod thread



1 Hex nut DIN 439-B
only with $\varnothing 32 \dots 125$

+ = plus stroke length

K5 – Special piston rod thread



+ = plus stroke length

Compact cylinders ADN, to ISO 21287

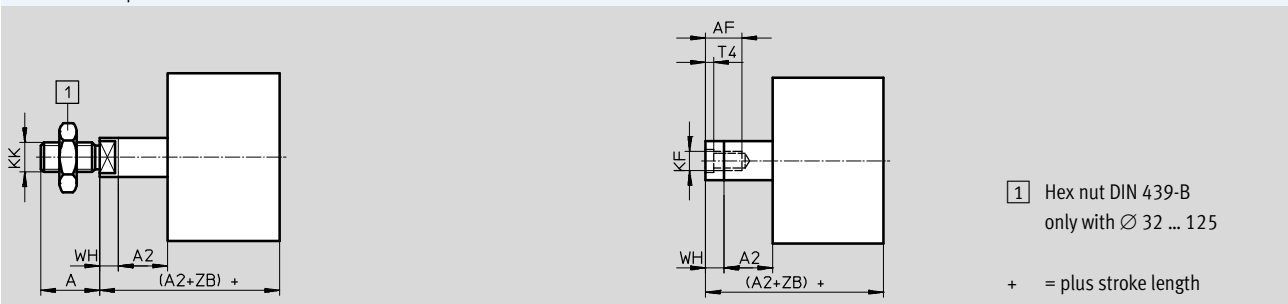
Technical data

FESTO

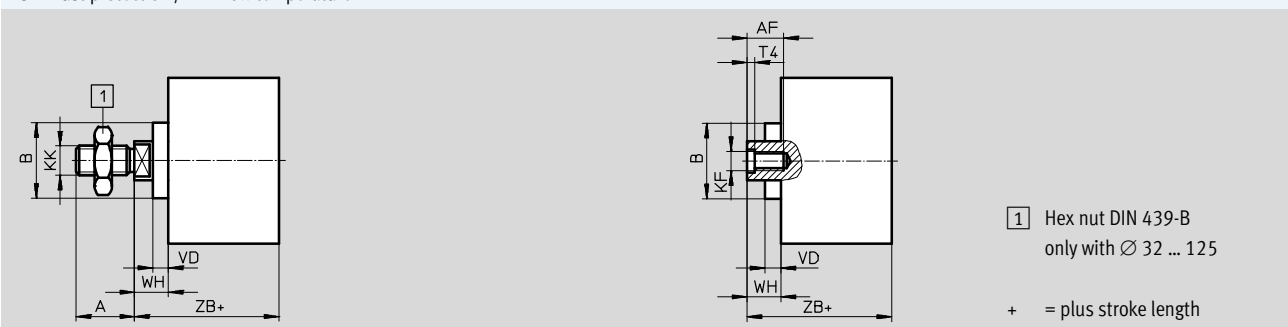
Dimensions – Variants

Download CAD data → www.festo.com

K8 – Extended piston rod



R8 – Dust protection / TT – Low temperature



| \varnothing | A | A1 | A2 | AF | AF5 | B | D7 | D8 | D9 | L5 | KF | KF5 | KK |
|---------------|------|----------|-----------|------|------|---------------|---------------|-----------------|---------------|-----|-----|-----|----------|
| [mm] | -0.5 | | | min. | min. | \varnothing | \varnothing | | \varnothing | | | | |
| 12 | 10 | 1 ... 10 | 1 ... 300 | 8 | - | - | - | - | - | - | M3 | - | M5 |
| 16 | 12 | | | 10 | - | - | 4.5 | | 3.2 | 3 | M4 | - | M6 |
| 20 | 16 | 1 ... 20 | 1 ... 400 | 14 | 12 | 18 | 6 | - | 3.8 | 2 | M6 | M5 | M8 |
| 25 | | | | 19 | 16 | 14 | 27 | | 8 | 4.5 | 3 | M8 | M6 |
| 32 | 22 | 1 ... 30 | 1 ... 500 | 20 | 16 | 31 | 10 | - | 6 | 3.5 | M10 | M8 | M12x1.25 |
| 40 | | | | | | | | | | | | | |
| 50 | 40 | 1 ... 40 | | 25 | - | - | - | G $\frac{1}{4}$ | 11.7 | | M16 | - | M20x1.5 |
| 63 | | | | | | | | | | | | | |
| 80 | 100 | | | | | | | | | | | | |
| 125 | 125 | | | | | | | | | | | | |

| \varnothing | KK5 | T3 | T4 | VD | WH | | | ZB | | | ZM | |
|---------------|----------|-----|-----|-----|------|----------|------------|------|----------|------------|-----------------------|----------------------|
| | | | | | +1.3 | PPS +1.4 | R8/TT +1.3 | +1.2 | PPS +1.3 | R8/TT +1.2 | | PPS |
| [mm] | | | | | | | | | | | | |
| 12 | M6 | - | 1.5 | - | 4.2 | - | - | 39.2 | - | - | 44.5 ^{+0.5} | - |
| 16 | M8 | | | | 4.7 | | | 39.7 | | | 45.7 ^{+0.5} | |
| 20 | M10x1.25 | 2 | 2.6 | 5.2 | 5.5 | 10.5 | 10.5 | 42.5 | 42.5 | 47.5 | 49.5 ^{+0.5} | 49.5 ^{+0.5} |
| 25 | M10 | | | | 5.5 | | | 44.5 | 45.3 | 49.5 | 51.5 ^{+0.5} | 51.5 ^{+0.5} |
| 32 | M10 | 2.6 | 3.3 | 6.4 | 6 | 12.5 | 12.5 | 50 | 50.6 | 56.5 | 57.5 ^{+0.5} | 58.6 ^{+0.6} |
| 40 | M12 | | | | 6.1 | | | 51.1 | 51.7 | 57.5 | 58.6 ^{+0.6} | 59.7 ^{+0.7} |
| 50 | M12 | 3.3 | 4.7 | 6.4 | 7.7 | 14.7 | 14.7 | 52.7 | 53.2 | 59.7 | 62.0 ^{+0.6} | 63.1 ^{+0.7} |
| 63 | M16 | | | | 7.5 | | | 56.5 | 57 | 63.6 | 65.4 ^{+0.6} | 66.5 ^{+0.7} |
| 80 | M16 | 4.7 | 6.1 | 6.4 | 8.9 | 15.4 | 15.4 | 62.9 | 63.4 | 69.4 | 73.2 ^{+0.6} | 74.3 ^{+0.7} |
| 100 | M20x1.5 | | | | 9 | | | 76 | 76.8 | 82.5 | 86.4 ^{+0.6} | 88 ^{+0.7} |
| 125 | M20 | - | 7 | - | 11 | - | - | 92 | - | - | 104.4 ^{+0.6} | - |

Compact cylinders ADN, to ISO 21287

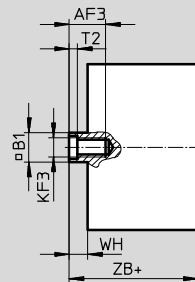
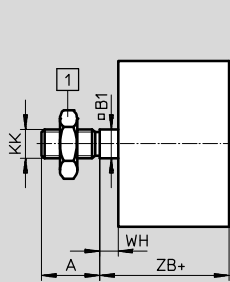
Technical data

FESTO

Dimensions – Variants

Download CAD data → www.festo.com

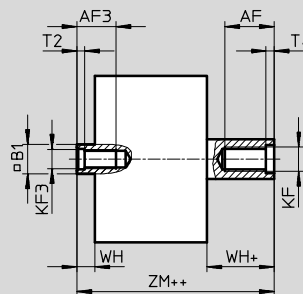
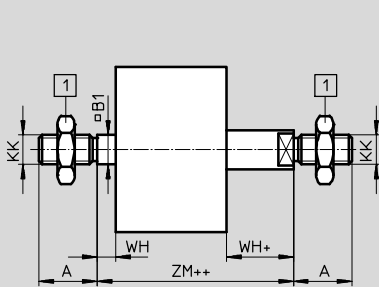
Q – Square piston rod



1 Hex nut DIN 439-B
only with $\varnothing 32 \dots 125$

+ = plus stroke length

Q-S2 – Square, through piston rod

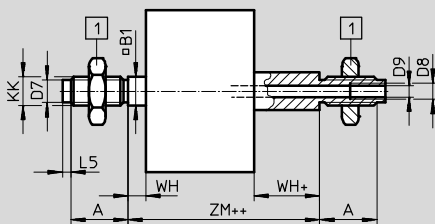


1 Hex nut DIN 439-B
only with $\varnothing 32 \dots 125$

+ = plus stroke length

++ = plus 2x stroke length

Q-S20 – Square, through, hollow piston rod



Note

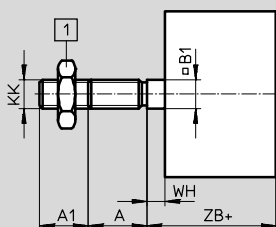
In combination with variants
S2/S20, the piston rod is extended
at one end on the square piston rod.

1 Hex nut DIN 439-B
only with $\varnothing 32 \dots 125$

+ = plus stroke length

++ = plus 2x stroke length

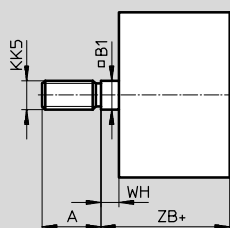
Q-K2 – Square piston rod with extended male thread



1 Hex nut DIN 439-B
only with $\varnothing 32 \dots 125$

+ = plus stroke length

Q-K5 – Square, special piston rod thread



+ = plus stroke length

Compact cylinders ADN, to ISO 21287

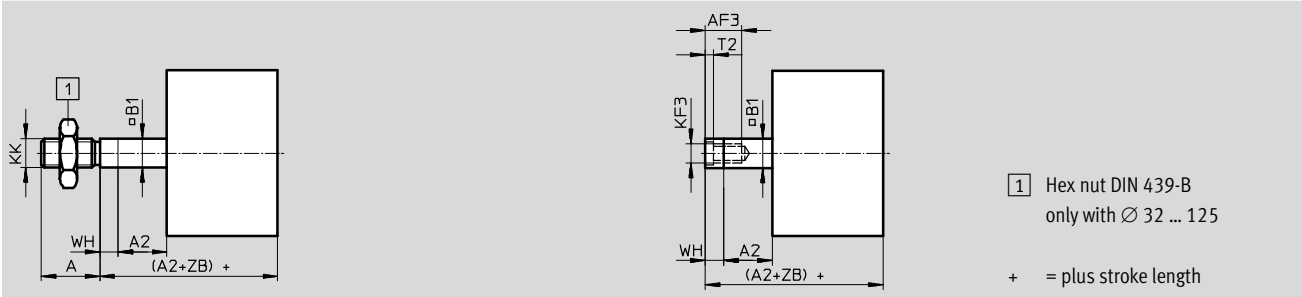
Technical data

FESTO

Dimensions – Variants

Download CAD data → www.festo.com

Q-K8 – Square, extended piston rod



| \varnothing [mm] | A | A1 | A2 | AF | AF3 | B1 | D7 | D8 | D9 |
|-----------------------|------|-----------|-----------|------|------|-----|---------------|-----------------|---------------|
| | -0.5 | | | min. | min. | □ | \varnothing | | \varnothing |
| 12 | 10 | 1 ... 10 | 1 ... 300 | 8 | 8 | 5.5 | - | - | - |
| 16 | 12 | | | 10 | 10 | 7 | 4.5 | | 3.2 |
| 20 | 16 | 1 ... 20 | | 14 | 12 | 9 | 6 | | 3.8 |
| 25 | | | 16 | 14 | 10 | 8 | 4.5 | | |
| 32 | 19 | 1 ... 400 | 1 ... 500 | 16 | 14 | 10 | 8 | - | 6 |
| 40 | 22 | | | 20 | 16 | 12 | 10 | | 8 |
| 50 | 28 | 1 ... 30 | 1 ... 500 | 20 | 20 | 16 | - | G $\frac{1}{8}$ | 8 |
| 63 | | | | 22 | 20 | 16 | 12 | 10 | 6 |
| 80 | 28 | 1 ... 30 | 1 ... 500 | 20 | 20 | 16 | - | G $\frac{1}{8}$ | 8 |
| 100 | 40 | 1 ... 40 | 1 ... 500 | 25 | 24 | 20 | - | G $\frac{1}{4}$ | 11.7 |
| 125 | | | | 25 | 24 | 20 | - | G $\frac{1}{4}$ | 11.7 |

| \varnothing [mm] | L5 | KF | KF3 | KK | KK5 | T2 | WH | ZB | ZM |
|-----------------------|-----|-----|-----|----------|-----------------|-----|------|------|----------------------|
| | | | | | | | +1.3 | +1.2 | |
| 12 | - | M3 | M3 | M5 | M6 | 1.5 | 4.2 | 39.2 | 44.5 ^{+0.5} |
| 16 | 3 | M4 | M4 | M6 | M8 | | 4.7 | 39.7 | 45.7 ^{+0.5} |
| 20 | 2 | M6 | M5 | M8 | M10x1.25 M10 | 2 | 5.5 | 42.5 | 49.5 ^{+0.5} |
| 25 | | | | | | | 5.5 | 44.5 | 51.5 ^{+0.5} |
| 32 | 3 | M8 | M6 | M10x1.25 | M10 | 2.6 | 6 | 50 | 57.5 ^{+0.5} |
| 40 | | | | | | | 6.1 | 51.1 | 58.6 ^{+0.6} |
| 50 | 3.5 | M10 | M8 | M12x1.25 | M16 | 3.3 | 8.2 | 53.2 | 62.8 ^{+0.6} |
| 63 | | | | | | | 8.1 | 57.1 | 66.6 ^{+0.6} |
| 80 | - | M12 | M10 | M16x1.5 | M16 | 4.7 | 8.9 | 62.9 | 73.2 ^{+0.6} |
| 100 | | | | | | | 9 | 76 | 86.4 ^{+0.6} |
| 125 | | | | | | | M16 | M12 | M20x1.5 |

Compact cylinders ADN, to ISO 21287

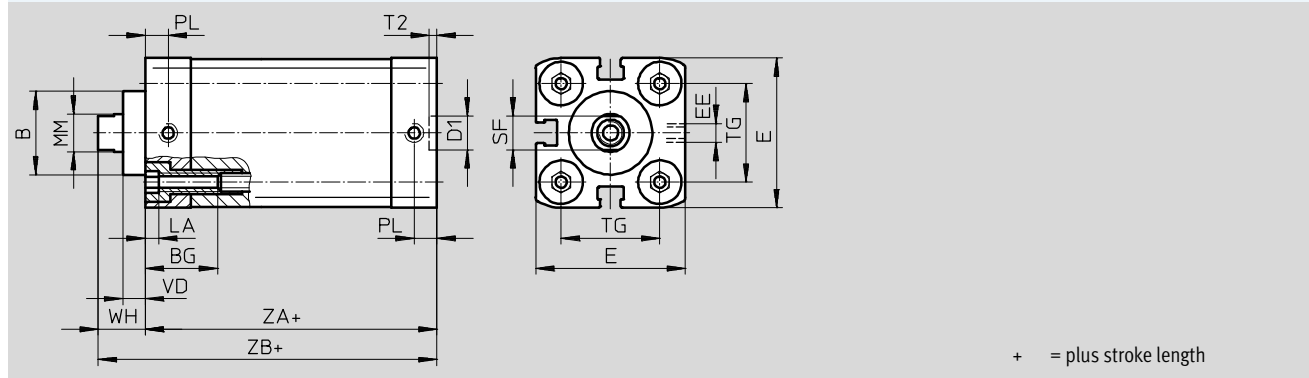
Technical data

Dimensions – Variants

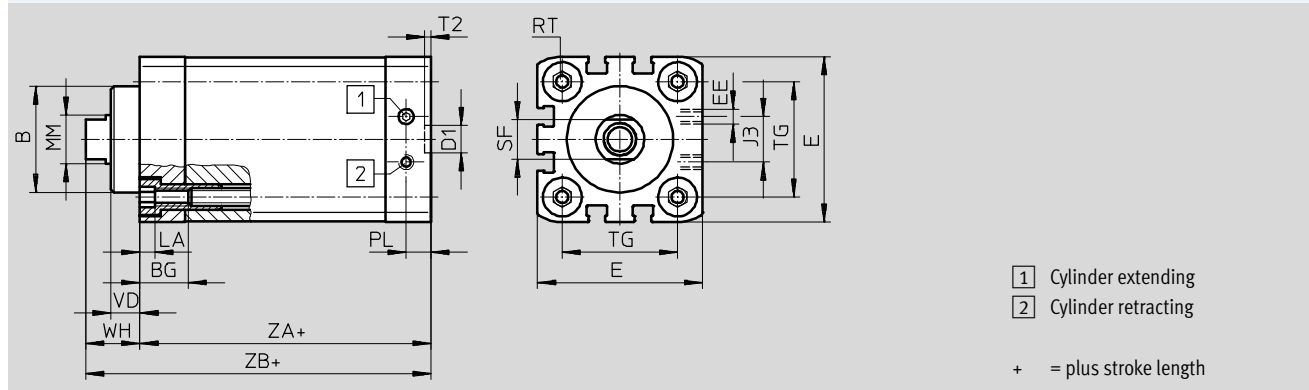
Download CAD data → www.festo.com

S1 – Reinforced piston rod

Ø 25



Ø 40 ... 100



| Ø | B | BG | D1 | E | EE | J3 | LA | MM | PL |
|------|----|------|----|-----------------------|------|----|----|------|-----|
| [mm] | Ø | min. | Ø | | | | | Ø | |
| 25 | 22 | 15 | 9 | 39.5 ^{+0.3} | M5 | - | 5 | 10 | 6 |
| 40 | 35 | 16 | | 54.5 ^{+0.3} | | 15 | | 16 | 8.2 |
| 63 | 42 | 17 | 12 | 75.5 ^{+0.3} | G1/8 | 23 | 20 | 10.5 | |
| 100 | 55 | | | 113.5 ^{+0.6} | | 40 | 25 | | |

| Ø | RT | SF | T2 | TG | VD | WH | ZA | ZB |
|------|-----|-----|------|------|------|------|------|------|
| [mm] | | h13 | +0.1 | ±0.2 | | +1.3 | ±0.3 | +1.2 |
| 25 | M5 | 9 | 2.1 | 26 | 6 | 11.8 | 39 | 50.9 |
| 40 | M6 | 13 | | 38 | 9.5 | 18 | 45 | 62.9 |
| 63 | M8 | 17 | 2.6 | 56.5 | 12 | 21 | 49 | 70.2 |
| 100 | M10 | 21 | | 89 | 15.5 | 26.5 | 67 | 93.5 |

Compact cylinders ADN, to ISO 21287

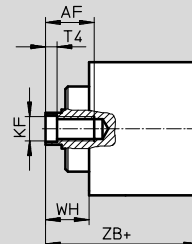
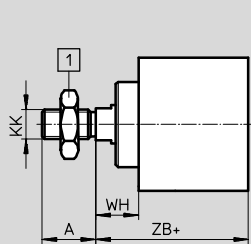
Technical data

FESTO

Dimensions – Variants

Download CAD data → www.festo.com

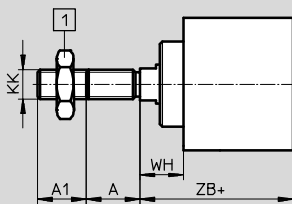
S1 – Reinforced piston rod



1 Hex nut DIN 439-B
only with \varnothing 40 ... 100

+ = plus stroke length

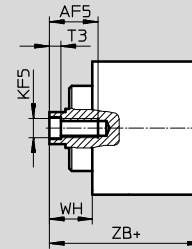
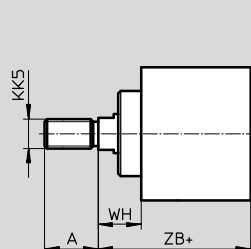
S1-K2 – Reinforced piston rod with extended male thread



1 Hex nut DIN 439-B
only with \varnothing 40 ... 100

+ = plus stroke length

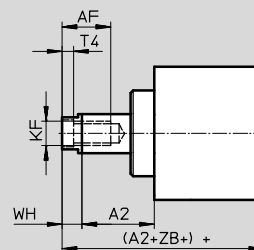
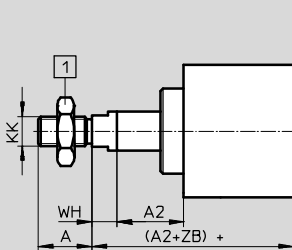
S1-K5 – Extended piston rod with special piston rod thread



1 Hex nut DIN 439-B
only with \varnothing 40 ... 100

+ = plus stroke length

S1-K8 – Reinforced piston rod with extended piston rod



1 Hex nut DIN 439-B
only with \varnothing 40 ... 100


+ = plus stroke length

| \varnothing | A | A1 | A2 | AF | AF5 | KF | KF5 | KK | KK5 | T3 | T4 | WH | ZB |
|---------------|------|----------|-----------|------|------|-----|-----|----------|-----------------|-----|-----|------|------|
| [mm] | -0.5 | | | min. | min. | | | | | | | +1.3 | +1.2 |
| 25 | 16 | 1 ... 20 | 1 ... 300 | 14 | 12 | M6 | M5 | M8 | M10x1.25 M10 | 2 | 2.6 | 11.8 | 50.9 |
| 40 | 22 | | 1 ... 400 | 20 | 16 | M10 | M8 | M12x1.25 | M10x1.25 M12 | 3.3 | 4.7 | 18 | 62.9 |
| 63 | 28 | | | | 20 | M12 | M10 | M16x1.5 | M12x1.25 M16 | 4.7 | 6.1 | 21 | 70.2 |
| 100 | 40 | 1 ... 30 | 1 ... 500 | 25 | - | M16 | - | M20x1.5 | M16x1.5 M20 | - | 7 | 26.5 | 93.5 |

Compact cylinders ADN, to ISO 21287

Technical data

FESTO

| Ordering data | | | | | | |
|---|------------------|-----------------|--|-----------------|---|-----------------|
| Type | Piston Ø [mm] | Stroke [mm] | I – Piston rod with female thread P – Flexible cushioning rings/pads at both ends | | A – Male piston rod thread P – Flexible cushioning rings/pads at both ends | |
| | | | Part No. | Type | Part No. | Type |
|  | 12 | 5 | 536211 | ADN-12-5-I-P-A | 536204 | ADN-12-5-A-P-A |
| | | 10 | 536212 | ADN-12-10-I-P-A | 536205 | ADN-12-10-A-P-A |
| | | 15 | 536213 | ADN-12-15-I-P-A | 536206 | ADN-12-15-A-P-A |
| | | 20 | 536214 | ADN-12-20-I-P-A | 536207 | ADN-12-20-A-P-A |
| | | 25 | 536215 | ADN-12-25-I-P-A | 536208 | ADN-12-25-A-P-A |
| | | 30 | 536216 | ADN-12-30-I-P-A | 536209 | ADN-12-30-A-P-A |
| | | 40 | 536217 | ADN-12-40-I-P-A | 536210 | ADN-12-40-A-P-A |
| | 16 | 5 | 536226 | ADN-16-5-I-P-A | 536219 | ADN-16-5-A-P-A |
| | | 10 | 536227 | ADN-16-10-I-P-A | 536220 | ADN-16-10-A-P-A |
| | | 15 | 536228 | ADN-16-15-I-P-A | 536221 | ADN-16-15-A-P-A |
| | | 20 | 536229 | ADN-16-20-I-P-A | 536222 | ADN-16-20-A-P-A |
| | | 25 | 536230 | ADN-16-25-I-P-A | 536223 | ADN-16-25-A-P-A |
| | | 30 | 536231 | ADN-16-30-I-P-A | 536224 | ADN-16-30-A-P-A |
| | | 40 | 536232 | ADN-16-40-I-P-A | 536225 | ADN-16-40-A-P-A |
| | 20 | 5 | 536242 | ADN-20-5-I-P-A | 536234 | ADN-20-5-A-P-A |
| | | 10 | 536243 | ADN-20-10-I-P-A | 536235 | ADN-20-10-A-P-A |
| | | 15 | 536244 | ADN-20-15-I-P-A | 536236 | ADN-20-15-A-P-A |
| | | 20 | 536245 | ADN-20-20-I-P-A | 536237 | ADN-20-20-A-P-A |
| | | 25 | 536246 | ADN-20-25-I-P-A | 536238 | ADN-20-25-A-P-A |
| | | 30 | 536247 | ADN-20-30-I-P-A | 536239 | ADN-20-30-A-P-A |
| | | 40 | 536248 | ADN-20-40-I-P-A | 536240 | ADN-20-40-A-P-A |
| | 25 | 5 | 536259 | ADN-25-5-I-P-A | 536251 | ADN-25-5-A-P-A |
| | | 10 | 536260 | ADN-25-10-I-P-A | 536252 | ADN-25-10-A-P-A |
| | | 15 | 536261 | ADN-25-15-I-P-A | 536253 | ADN-25-15-A-P-A |
| | | 20 | 536262 | ADN-25-20-I-P-A | 536254 | ADN-25-20-A-P-A |
| | | 25 | 536263 | ADN-25-25-I-P-A | 536255 | ADN-25-25-A-P-A |
| | | 30 | 536264 | ADN-25-30-I-P-A | 536256 | ADN-25-30-A-P-A |
| | | 40 | 536265 | ADN-25-40-I-P-A | 536257 | ADN-25-40-A-P-A |
| | 32 | 5 | 536278 | ADN-32-5-I-P-A | 536268 | ADN-32-5-A-P-A |
| | | 10 | 536279 | ADN-32-10-I-P-A | 536269 | ADN-32-10-A-P-A |
| | | 15 | 536280 | ADN-32-15-I-P-A | 536270 | ADN-32-15-A-P-A |
| | | 20 | 536281 | ADN-32-20-I-P-A | 536271 | ADN-32-20-A-P-A |
| 25 | | 536282 | ADN-32-25-I-P-A | 536272 | ADN-32-25-A-P-A | |
| 30 | | 536283 | ADN-32-30-I-P-A | 536273 | ADN-32-30-A-P-A | |
| 40 | | 536284 | ADN-32-40-I-P-A | 536274 | ADN-32-40-A-P-A | |
| 50 | 536285 | ADN-32-50-I-P-A | 536275 | ADN-32-50-A-P-A | | |
| 60 | 536286 | ADN-32-60-I-P-A | 536276 | ADN-32-60-A-P-A | | |
| 80 | 536287 | ADN-32-80-I-P-A | 536277 | ADN-32-80-A-P-A | | |

Compact cylinders ADN, to ISO 21287


Technical data

| Ordering data | | | | | | |
|---------------|------------------------------|------------------|--|------------------|---|-----------------|
| Type | Piston \varnothing [mm] | Stroke [mm] | I – Piston rod with female thread P – Flexible cushioning rings/pads at both ends | | A – Male piston rod thread P – Flexible cushioning rings/pads at both ends | |
| | | | Part No. | Type | Part No. | Type |
| | 40 | 5 | 536299 | ADN-40-5-I-P-A | 536289 | ADN-40-5-A-P-A |
| | | 10 | 536300 | ADN-40-10-I-P-A | 536290 | ADN-40-10-A-P-A |
| | | 15 | 536301 | ADN-40-15-I-P-A | 536291 | ADN-40-15-A-P-A |
| | | 20 | 536302 | ADN-40-20-I-P-A | 536292 | ADN-40-20-A-P-A |
| | | 25 | 536303 | ADN-40-25-I-P-A | 536293 | ADN-40-25-A-P-A |
| | | 30 | 536304 | ADN-40-30-I-P-A | 536294 | ADN-40-30-A-P-A |
| | | 40 | 536305 | ADN-40-40-I-P-A | 536295 | ADN-40-40-A-P-A |
| | | 50 | 536306 | ADN-40-50-I-P-A | 536296 | ADN-40-50-A-P-A |
| | | 60 | 536307 | ADN-40-60-I-P-A | 536297 | ADN-40-60-A-P-A |
| | 80 | 536308 | ADN-40-80-I-P-A | 536298 | ADN-40-80-A-P-A | |
| | 50 | 5 | 536320 | ADN-50-5-I-P-A | 536310 | ADN-50-5-A-P-A |
| | | 10 | 536321 | ADN-50-10-I-P-A | 536311 | ADN-50-10-A-P-A |
| | | 15 | 536322 | ADN-50-15-I-P-A | 536312 | ADN-50-15-A-P-A |
| | | 20 | 536323 | ADN-50-20-I-P-A | 536313 | ADN-50-20-A-P-A |
| | | 25 | 536324 | ADN-50-25-I-P-A | 536314 | ADN-50-25-A-P-A |
| | | 30 | 536325 | ADN-50-30-I-P-A | 536315 | ADN-50-30-A-P-A |
| | | 40 | 536326 | ADN-50-40-I-P-A | 536316 | ADN-50-40-A-P-A |
| | | 50 | 536327 | ADN-50-50-I-P-A | 536317 | ADN-50-50-A-P-A |
| | | 60 | 536328 | ADN-50-60-I-P-A | 536318 | ADN-50-60-A-P-A |
| | 80 | 536329 | ADN-50-80-I-P-A | 536319 | ADN-50-80-A-P-A | |
| | 63 | 10 | 536342 | ADN-63-10-I-P-A | 536332 | ADN-63-10-A-P-A |
| | | 15 | 536343 | ADN-63-15-I-P-A | 536333 | ADN-63-15-A-P-A |
| | | 20 | 536344 | ADN-63-20-I-P-A | 536334 | ADN-63-20-A-P-A |
| | | 25 | 536345 | ADN-63-25-I-P-A | 536335 | ADN-63-25-A-P-A |
| | | 30 | 536346 | ADN-63-30-I-P-A | 536336 | ADN-63-30-A-P-A |
| | | 40 | 536347 | ADN-63-40-I-P-A | 536337 | ADN-63-40-A-P-A |
| | | 50 | 536348 | ADN-63-50-I-P-A | 536338 | ADN-63-50-A-P-A |
| | | 60 | 536349 | ADN-63-60-I-P-A | 536339 | ADN-63-60-A-P-A |
| | 80 | 10 | 536363 | ADN-80-10-I-P-A | 536353 | ADN-80-10-A-P-A |
| | | 15 | 536364 | ADN-80-15-I-P-A | 536354 | ADN-80-15-A-P-A |
| | | 20 | 536365 | ADN-80-20-I-P-A | 536355 | ADN-80-20-A-P-A |
| | | 25 | 536366 | ADN-80-25-I-P-A | 536356 | ADN-80-25-A-P-A |
| | | 30 | 536367 | ADN-80-30-I-P-A | 536357 | ADN-80-30-A-P-A |
| | | 40 | 536368 | ADN-80-40-I-P-A | 536358 | ADN-80-40-A-P-A |
| | | 50 | 536369 | ADN-80-50-I-P-A | 536359 | ADN-80-50-A-P-A |
| 60 | | 536370 | ADN-80-60-I-P-A | 536360 | ADN-80-60-A-P-A | |
| 100 | 10 | 536384 | ADN-100-10-I-P-A | 536374 | ADN-100-10-A-P-A | |
| | 15 | 536385 | ADN-100-15-I-P-A | 536375 | ADN-100-15-A-P-A | |
| | 20 | 536386 | ADN-100-20-I-P-A | 536376 | ADN-100-20-A-P-A | |
| | 25 | 536387 | ADN-100-25-I-P-A | 536377 | ADN-100-25-A-P-A | |
| | 30 | 536388 | ADN-100-30-I-P-A | 536378 | ADN-100-30-A-P-A | |
| | 40 | 536389 | ADN-100-40-I-P-A | 536379 | ADN-100-40-A-P-A | |
| | 50 | 536390 | ADN-100-50-I-P-A | 536380 | ADN-100-50-A-P-A | |
| | 60 | 536391 | ADN-100-60-I-P-A | 536381 | ADN-100-60-A-P-A | |
| 80 | 536392 | ADN-100-80-I-P-A | 536382 | ADN-100-80-A-P-A | | |

Compact cylinders ADN, to ISO 21287


Technical data

FESTO

| Ordering data | | | | | | |
|---|------------------|----------------|-----------------------------------|-------------------|----------------------------|-------------------|
| Type | Piston Ø [mm] | Stroke [mm] | I – Piston rod with female thread | | A – Male piston rod thread | |
| | | | Part No. | Type | Part No. | Type |
|  | 20 | 10 | 577158 | ADN-20-10-I-PPS-A | 577166 | ADN-20-10-A-PPS-A |
| | | 15 | 577159 | ADN-20-15-I-PPS-A | 577167 | ADN-20-15-A-PPS-A |
| | | 20 | 577160 | ADN-20-20-I-PPS-A | 577168 | ADN-20-20-A-PPS-A |
| | | 25 | 577161 | ADN-20-25-I-PPS-A | 577169 | ADN-20-25-A-PPS-A |
| | | 30 | 577162 | ADN-20-30-I-PPS-A | 577170 | ADN-20-30-A-PPS-A |
| | | 40 | 577163 | ADN-20-40-I-PPS-A | 577171 | ADN-20-40-A-PPS-A |
| | | 50 | 577164 | ADN-20-50-I-PPS-A | 577172 | ADN-20-50-A-PPS-A |
| | | 60 | 577165 | ADN-20-60-I-PPS-A | 577173 | ADN-20-60-A-PPS-A |
| | 25 | 10 | 577174 | ADN-25-10-I-PPS-A | 577182 | ADN-25-10-A-PPS-A |
| | | 15 | 577175 | ADN-25-15-I-PPS-A | 577183 | ADN-25-15-A-PPS-A |
| | | 20 | 577176 | ADN-25-20-I-PPS-A | 577184 | ADN-25-20-A-PPS-A |
| | | 25 | 577177 | ADN-25-25-I-PPS-A | 577185 | ADN-25-25-A-PPS-A |
| | | 30 | 577178 | ADN-25-30-I-PPS-A | 577186 | ADN-25-30-A-PPS-A |
| | | 40 | 577179 | ADN-25-40-I-PPS-A | 577187 | ADN-25-40-A-PPS-A |
| | | 50 | 577180 | ADN-25-50-I-PPS-A | 577188 | ADN-25-50-A-PPS-A |
| | | 60 | 577181 | ADN-25-60-I-PPS-A | 577189 | ADN-25-60-A-PPS-A |
| | 32 | 10 | 572646 | ADN-32-10-I-PPS-A | 572655 | ADN-32-10-A-PPS-A |
| | | 15 | 572647 | ADN-32-15-I-PPS-A | 572656 | ADN-32-15-A-PPS-A |
| | | 20 | 572648 | ADN-32-20-I-PPS-A | 572657 | ADN-32-20-A-PPS-A |
| | | 25 | 572649 | ADN-32-25-I-PPS-A | 572658 | ADN-32-25-A-PPS-A |
| | | 30 | 572650 | ADN-32-30-I-PPS-A | 572659 | ADN-32-30-A-PPS-A |
| | | 40 | 572651 | ADN-32-40-I-PPS-A | 572660 | ADN-32-40-A-PPS-A |
| | | 50 | 572652 | ADN-32-50-I-PPS-A | 572661 | ADN-32-50-A-PPS-A |
| | | 60 | 572653 | ADN-32-60-I-PPS-A | 572662 | ADN-32-60-A-PPS-A |
| | 40 | 10 | 572664 | ADN-40-10-I-PPS-A | 572673 | ADN-40-10-A-PPS-A |
| | | 15 | 572665 | ADN-40-15-I-PPS-A | 572674 | ADN-40-15-A-PPS-A |
| | | 20 | 572666 | ADN-40-20-I-PPS-A | 572675 | ADN-40-20-A-PPS-A |
| | | 25 | 572667 | ADN-40-25-I-PPS-A | 572676 | ADN-40-25-A-PPS-A |
| 30 | | 572668 | ADN-40-30-I-PPS-A | 572677 | ADN-40-30-A-PPS-A | |
| 40 | | 572669 | ADN-40-40-I-PPS-A | 572678 | ADN-40-40-A-PPS-A | |
| 50 | | 572670 | ADN-40-50-I-PPS-A | 572679 | ADN-40-50-A-PPS-A | |
| 60 | | 572671 | ADN-40-60-I-PPS-A | 572680 | ADN-40-60-A-PPS-A | |
| 50 | 10 | 572682 | ADN-50-10-I-PPS-A | 572691 | ADN-50-10-A-PPS-A | |
| | 15 | 572683 | ADN-50-15-I-PPS-A | 572692 | ADN-50-15-A-PPS-A | |
| | 20 | 572684 | ADN-50-20-I-PPS-A | 572693 | ADN-50-20-A-PPS-A | |
| | 25 | 572685 | ADN-50-25-I-PPS-A | 572694 | ADN-50-25-A-PPS-A | |
| | 30 | 572686 | ADN-50-30-I-PPS-A | 572695 | ADN-50-30-A-PPS-A | |
| | 40 | 572687 | ADN-50-40-I-PPS-A | 572696 | ADN-50-40-A-PPS-A | |
| | 50 | 572688 | ADN-50-50-I-PPS-A | 572697 | ADN-50-50-A-PPS-A | |
| | 60 | 572689 | ADN-50-60-I-PPS-A | 572698 | ADN-50-60-A-PPS-A | |
| | 80 | 572690 | ADN-50-80-I-PPS-A | 572699 | ADN-50-80-A-PPS-A | |

Compact cylinders ADN, to ISO 21287

Technical data

| Ordering data | | | | | | |
|---|------------------|----------------|--|--------------------|---|--------------------|
| Type | Piston Ø [mm] | Stroke [mm] | I – Piston rod with female thread PPS – Pneumatic cushioning, self-adjusting at both ends | | A – Male piston rod thread PPS – Pneumatic cushioning, self-adjusting at both ends | |
| | | | Part No. | Type | Part No. | Type |
|  | 63 | 10 | 572700 | ADN-63-10-I-PPS-A | 572709 | ADN-63-10-A-PPS-A |
| | | 15 | 572701 | ADN-63-15-I-PPS-A | 572710 | ADN-63-15-A-PPS-A |
| | | 20 | 572702 | ADN-63-20-I-PPS-A | 572711 | ADN-63-20-A-PPS-A |
| | | 25 | 572703 | ADN-63-25-I-PPS-A | 572712 | ADN-63-25-A-PPS-A |
| | | 30 | 572704 | ADN-63-30-I-PPS-A | 572713 | ADN-63-30-A-PPS-A |
| | | 40 | 572705 | ADN-63-40-I-PPS-A | 572714 | ADN-63-40-A-PPS-A |
| | | 50 | 572706 | ADN-63-50-I-PPS-A | 572715 | ADN-63-50-A-PPS-A |
| | | 60 | 572707 | ADN-63-60-I-PPS-A | 572716 | ADN-63-60-A-PPS-A |
| | 80 | 572708 | ADN-63-80-I-PPS-A | 572717 | ADN-63-80-A-PPS-A | |
| | 80 | 10 | 572718 | ADN-80-10-I-PPS-A | 572727 | ADN-80-10-A-PPS-A |
| | | 15 | 572719 | ADN-80-15-I-PPS-A | 572728 | ADN-80-15-A-PPS-A |
| | | 20 | 572720 | ADN-80-20-I-PPS-A | 572729 | ADN-80-20-A-PPS-A |
| | | 25 | 572721 | ADN-80-25-I-PPS-A | 572730 | ADN-80-25-A-PPS-A |
| | | 30 | 572722 | ADN-80-30-I-PPS-A | 572731 | ADN-80-30-A-PPS-A |
| | | 40 | 572723 | ADN-80-40-I-PPS-A | 572732 | ADN-80-40-A-PPS-A |
| | | 50 | 572724 | ADN-80-50-I-PPS-A | 572733 | ADN-80-50-A-PPS-A |
| | | 60 | 572725 | ADN-80-60-I-PPS-A | 572734 | ADN-80-60-A-PPS-A |
| | 80 | 572726 | ADN-80-80-I-PPS-A | 572735 | ADN-80-80-A-PPS-A | |
| | 100 | 15 | 577191 | ADN-100-15-I-PPS-A | 577200 | ADN-100-15-A-PPS-A |
| | | 20 | 577192 | ADN-100-20-I-PPS-A | 577201 | ADN-100-20-A-PPS-A |
| | | 25 | 577193 | ADN-100-25-I-PPS-A | 577202 | ADN-100-25-A-PPS-A |
| | | 30 | 577194 | ADN-100-30-I-PPS-A | 577203 | ADN-100-30-A-PPS-A |
| | | 40 | 577195 | ADN-100-40-I-PPS-A | 577204 | ADN-100-40-A-PPS-A |
| | | 50 | 577196 | ADN-100-50-I-PPS-A | 577205 | ADN-100-50-A-PPS-A |
| | | 60 | 577197 | ADN-100-60-I-PPS-A | 577206 | ADN-100-60-A-PPS-A |
| | | 80 | 577198 | ADN-100-80-I-PPS-A | 577207 | ADN-100-80-A-PPS-A |

Compact cylinders ADN, to ISO 21287



Ordering data – Modular products, basic version and variants

| Ordering table | | | | | | | | | |
|---------------------------|---|---------------|---|---------------|---------------|---------------|-----------------|-------------|---------------|
| Size | 12 | 16 | 20 | 25 | 32 | 40 | Condi- tions | Code | Enter code |
| M Module No. | 536203 | 536218 | 536233 | 536250 | 536267 | 536288 | | | |
| Function | Compact cylinder, double-acting, based on ISO 21287 | | | | | | | ADN | ADN |
| Piston Ø [mm] | 12 | 16 | 20 | 25 | 32 | 40 | | -... | |
| Stroke [mm] | 1 ... 300 | | | | 1 ... 400 | | | -... | |
| Piston rod thread | Male thread | | | | | | | -A | |
| | Female thread | | | | | | 1 | -I | |
| Cushioning | Flexible cushioning rings/pads at both ends | | | | | | | -P | |
| | - | | Pneumatic cushioning, self-adjusting at both ends | | | | 8 | -PPS | |
| ↓ Position sensing | Via proximity sensor | | | | | | | -A | -A |

- 1** I Not with piston rod type S20.
Not with extended male thread K2
- 8** PPS Not with improved running performance K10, temperature resistance S6,
low temperature TT, wiper seal R8
Minimum stroke 5 mm

Transfer order code

| | | | | | | | | | | | | |
|--|------------|---|--|---|--|---|--|---|--|---|--|----------|
| | ADN | - | | - | | - | | - | | - | | A |
|--|------------|---|--|---|--|---|--|---|--|---|--|----------|


Compact cylinders ADN, to ISO 21287

Ordering data – Modular products, basic version and variants

| Ordering table | | | | | | | | | |
|--------------------------------|--|---|---|-----------------|-----------------|------------|-----------------|----------|---------------|
| Size | 12 | 16 | 20 | 25 | 32 | 40 | Condi- tions | Code | Enter code |
| 0 Piston rod type | Through piston rod | | | | | | 2 | -S2 | |
| | [mm] | Through, hollow piston rod 1 ... 300 | | | 1 ... 400 | | 2 | -S20 | |
| Extended male thread | Piston rod with extended male thread | | | | | | | -...K2 | |
| [mm] | 1 ... 10 | | 1 ... 20 | | | | | | |
| Piston rod with special thread | Male thread | M6 | M8 | M10x1.25 M10 | M10x1.25 M10 | M10 M12 | M10 M12 | -“...”K5 | |
| | Female thread | - | - | M5 | M5 | M6 | M6 | | |
| Extended piston rod | Extended piston rod | | | | | | | -...K8 | |
| [mm] | 1 ... 300 | | | 1 ... 400 | | | 3 | | |
| Improved running performance | - | | Smooth anodised aluminium coated piston rod | | | | 4 | -K10 | |
| Temperature resistance | Heat-resistant seals up to max. 120 °C | | | | | | | -S6 | |
| Corrosion protection | High corrosion protection | | | | | | 5 | -R3 | |
| Captive rating plate | Laser etched rating plate | | | | | | | -TL | |
| Low temperature | [°C] | - | | -40 ... +80 | | 6 | 7 | -TT | |
| Wiper seal | - | | Dust protection | | | | 6 | -R8 | |

- 2 **S2, S20** Not with improved running performance K10.
Not with corrosion protection R3.
Not with wiper seal R8
- 3 **K8** The sum of the stroke length and piston rod extension must not exceed the maximum permissible stroke length
- 4 **K10** Not with extended male thread K2.
Not with special piston rod thread K5.
Not with corrosion protection R3

- 5 **R3** Not with captive rating plate TL.
Not with wiper seal R8
- 6 **TT, R8** Not with improved running performance K10.
Not with temperature resistance S6
Not with wiper seal R8
- 7 **TT** Not with wiper seal R8

 Note
NSF-H1 lubricants are used in combination with R3 and in combination with R3 and K2, K5 or K8.

Transfer order code

- [] - [] - [] - [] - [] - [] - [] - [] - [] - []

Compact cylinders ADN, to ISO 21287

Ordering data – Modular products, basic version and variants

| Ordering table | | | | | | | | | |
|---------------------------|---|---------------|---------------|---------------|---------------|-----------------|----------|---------------|-----|
| Size | 50 | 63 | 80 | 100 | 125 | Condi- tions | Code | Enter code | |
| M Module No. | 536309 | 536330 | 536351 | 536372 | 536393 | | | | |
| Function | Compact cylinder, double-acting, based on ISO 21287 | | | | | | | ADN | ADN |
| Piston Ø [mm] | 50 | 63 | 80 | 100 | 125 | | -... | | |
| Stroke [mm] | 1 ... 400 | | 1 ... 500 | | | | | -... | |
| Piston rod thread | Male thread | | | | | | | -A | |
| | Female thread | | | | | | 1 | -I | |
| Cushioning | Flexible cushioning rings/pads at both ends | | | | | | | -P | |
| | Pneumatic cushioning, self-adjusting at both ends | | | | | | 8 | -PPS | |
| ↓ Position sensing | Via proximity sensor | | | | | | | -A | -A |

- 1** I Not with piston rod type S20.
Not with extended male thread K2
- 8** PPS Not with improved running performance K10, temperature resistance S6,
low temperature TT, wiper seal R8
Minimum stroke 5 mm

Transfer order code

| | | | | | | | | | | | | |
|--|------------|---|--|---|--|---|--|---|--|---|--|----------|
| | ADN | - | | - | | - | | - | | - | | A |
|--|------------|---|--|---|--|---|--|---|--|---|--|----------|


Compact cylinders ADN, to ISO 21287

Ordering data – Modular products, basic version and variants

| Ordering table | | | | | | | | | |
|--------------------------------|---|------------|------------|-----------------------|-----------------------|-----------------|--------|----------|---------------|
| Size | 50 | 63 | 80 | 100 | 125 | Condi- tions | Code | | Enter code |
| 0 Piston rod type | Through piston rod | | | | | 2 | -S2 | | |
| | Through, hollow piston rod | | | | | 2 | -S20 | | |
| [mm] | 1 ... 400 | | 1 ... 500 | | | | | | |
| Extended male thread | Piston rod with extended male thread | | | | | | | | |
| [mm] | 1 ... 20 | | 1 ... 30 | | 1 ... 40 | | -...K2 | | |
| Piston rod with special thread | Male thread | M12 M16 | M12 M16 | M16 M20 M20x1.5 | M16 M20 M20x1.5 | M20 | | -“...”K5 | |
| | Female thread | M8 | M8 | M10 | M10 | - | | | |
| Extended piston rod | Extended piston rod | | | | | | | | |
| [mm] | 1 ... 400 | | 1 ... 500 | | | 3 | -...K8 | | |
| Improved running performance | Smooth anodised aluminium coated piston rod | | | | | | | | |
| [mm] | 2 ... 400 | | 5 ... 400 | 5 ... 500 | | 4 | -K10 | | |
| Temperature resistance | Heat-resistant seals up to max. 120 °C | | | | | | | | |
| Corrosion protection | High corrosion protection | | | | | | | | |
| Captive rating plate | Laser etched rating plate | | | | | | | | |
| Low temperature [°C] | -40 ... +80 | | | | | - | 6 7 | -TT | |
| Wiper seal | Dust protection | | | | | - | 6 | -R8 | |

- 2 **S2, S20** Not with improved running performance K10.
Not with corrosion protection R3.
Not with wiper seal R8
- 3 **K8** The sum of the stroke length and piston rod extension must not exceed the maximum permissible stroke length
- 4 **K10** Not with extended male thread K2.
Not with special piston rod thread K5.
Not with corrosion protection R3

- 5 **R3** Not with captive rating plate TL.
Not with wiper seal R8
- 6 **TT, R8** Not with improved running performance K10.
Not with temperature resistance S6
- 7 **TT** Not with wiper seal R8

 Note
NSF-H1 lubricants are used in combination with R3 and in combination with R3 and K2, K5 or K8.

Transfer order code


- [] - [] - [] - [] - [] - [] - [] - [] - [] - []

Compact cylinders ADN, to ISO 21287

Ordering data – Modular products, S10 – Version with constant motion, S11 – Version with low friction

| Ordering table | | | | | | | | | | |
|-------------------------------|---|---------------|---|---------------|---------------|---------------|-----------------|------------|-----------------|----|
| Size | 12 | 16 | 20 | 25 | 32 | 40 | Condi- tions | Code | Enter code | |
| M Module No. | 536203 | 536218 | 536233 | 536250 | 536267 | 536288 | | | | |
| Function | Compact cylinder, double-acting, based on ISO 21287 | | | | | | | ADN | ADN | |
| Piston Ø [mm] | 12 | 16 | 20 | 25 | 32 | 40 | | -... | | |
| Stroke [mm] | 1 ... 300 | | | | 1 ... 400 | | | | -... | |
| Piston rod thread | Male thread | | | | | | | | -A | |
| | Female thread | | | | | | 1 | | -I | |
| Cushioning | Flexible cushioning rings/pads at both ends | | | | | | | | -P | -P |
| Position sensing | Via proximity sensor | | | | | | | | -A | -A |
| O Male thread extended | Extended male piston rod thread | | | | | | | | | |
| | [mm] 1 ... 10 | | 1 ... 20 | | | | | | -...K2 | |
| Special piston rod thread | Male thread | M6 | M8 | M10x1.25 | M10x1.25 | M10 | M10 | | -“...”K5 | |
| | Female thread | - | - | M5 | M5 | M6 | M6 | | | |
| Piston rod extended | Extended piston rod | | | | | | | | | |
| | [mm] 1 ... 300 | | | | 1 ... 400 | | 2 | | -...K8 | |
| Improved running performance | - | - | Smooth anodised aluminium coated piston rod | | | | 3 | | -K10 | |
| Constant motion | Slow speed (constant motion at low piston speeds) | | | | | | 4 | | -S10 | |
| | Restricted stroke | | | | | | | | | |
| | [mm] 20 ... 300 | | | | 20 ... 400 | | | | | |
| Low friction | Low friction | | | | | | 5 | | -S11 | |
| Corrosion protection | High corrosion protection | | | | | | 6 | | -R3 | |
| Captive rating plate | Laser etched rating plate | | | | | | | | -TL | |

- 1 I** Not with extended male thread K2
- 2 K8** The sum of the stroke length and piston rod extension must not exceed the maximum permissible stroke length
- 3 K10** Not with extended male thread K2
Not with special piston rod thread K5
Not with corrosion protection R3
- 4 S10** Not with low friction S11
- 5 S11** Not with constant motion S10
- 6 R3** Not with captive rating plate TL

 Note
NSF-H1 lubricants are used in combination with R3 and in combination with R3 and K2, K5 or K8.

Transfer order code

ADN - - - - **P** - **A** - - - - - - - - - -

Compact cylinders ADN, to ISO 21287

Ordering data – Modular products, S10 – Version with constant motion, S11 – Version with low friction

| Ordering table | | | | | | | | | | |
|-------------------------------|---|---------------|---------------|---------------|---------------|-----------------|------------------|------------|---------------|-----|
| Size | 50 | 63 | 80 | 100 | 125 | Condi- tions | Code | | Enter code | |
| M Module No. | 536309 | 536330 | 536351 | 536372 | 536393 | | | | | |
| Function | Compact cylinder, double-acting, based on ISO 21287 | | | | | | | ADN | | ADN |
| Piston Ø [mm] | 50 | 63 | 80 | 100 | 125 | | -... | | | |
| Stroke [mm] | 1 ... 400 | | 1 ... 500 | | | | -... | | | |
| Piston rod thread | Male thread | | | | | | -A | | | |
| | Female thread | | | | | 1 | -I | | | |
| Cushioning | Flexible cushioning rings/pads at both ends | | | | | | -P | | -P | |
| Position sensing | Via proximity sensor | | | | | | -A | | -A | |
| O Male thread extended | Extended male piston rod thread | | | | | | | | | |
| [mm] | 1 ... 20 | | 1 ... 30 | | 1 ... 40 | | -... K2 | | | |
| Special piston rod thread | Male thread | M12 | M12 | M16 | M16 | M20 | -“...” K5 | | | |
| | | M16 | M16 | M20 | M20 | M20x1.5 | | M20x1.5 | | |
| | Female thread | M8 | M8 | M10 | M10 | - | | | | |
| Piston rod extended | Extended piston rod | | | | | | | | | |
| [mm] | 1 ... 400 | | 1 ... 500 | | | 2 | -... K8 | | | |
| Improved running performance | Smooth anodised aluminium coated piston rod | | | | | 3 | -K10 | | | |
| [mm] | 2 ... 400 | | 5 ... 400 | | 5 ... 500 | | | | | |
| Constant motion | Slow speed (constant motion at low piston speeds) | | | | | 4 | -S10 | | | |
| | [mm] | 20 ... 400 | | 20 ... 500 | | | | | | |
| Low friction | Low friction | | | | | 5 | -S11 | | | |
| Corrosion protection | High corrosion protection | | | | | 6 | -R3 | | | |
| Captive rating plate | Laser etched rating plate | | | | | | -TL | | | |

- 1 I** Not with extended male thread K2
- 2 K8** The sum of the stroke length and piston rod extension must not exceed the maximum permissible stroke length
- 3 K10** Not with extended male thread K2
Not with special piston rod thread K5
Not with corrosion protection R3
- 4 S10** Not with low friction S11
- 5 S11** Not with constant motion S10
- 6 R3** Not with captive rating plate TL

- Note
NSF-H1 lubricants are used in combination with R3 and in combination with R3 and K2, K5 or K8.

Transfer order code

ADN - - - - **P** - **A** - - - - - - - - - -

Compact cylinders ADN, to ISO 21287

Ordering data – Modular products, Q – Version with square piston rod, non-rotating

| Ordering table | | | | | | | | | |
|---------------------------------------|---|--|-----------------|-----------------|---------------|---------------|-----------------|-----------------|---------------|
| Size | 12 | 16 | 20 | 25 | 32 | 40 | Condi- tions | Code | Enter code |
| M Module No. | 536203 | 536218 | 536233 | 536250 | 536267 | 536288 | | | |
| Function | Compact cylinder, double-acting, based on ISO 21287 | | | | | | | ADN | ADN |
| Piston Ø [mm] | 12 | 16 | 20 | 25 | 32 | 40 | | -... | |
| Stroke [mm] | 1 ... 300 | | | | 1 ... 400 | | | | -... |
| Piston rod thread | Male thread | | | | | | | -A | |
| | Female thread | | | | | | 1 | -I | |
| Cushioning | Flexible cushioning rings/pads at both ends | | | | | | | -P | -P |
| Position sensing | Via proximity sensor | | | | | | | -A | -A |
| O Protection against torsion | Square piston rod | | | | | | | -Q | -Q |
| Type of piston rod [mm] | Through piston rod | | | | | | | -S2 | |
| | - | Through, hollow piston rod Restricted stroke 1 ... 200 | | | | 1 ... 300 | | | -S20 |
| Male thread extended [mm] | 1 ... 10 | | | 1 ... 20 | | | | -...K2 | |
| Special piston rod thread Male thread | M6 | M8 | M10x1.25 M10 | M10x1.25 M10 | M10 | M10 | | -“...”K5 | |
| Piston rod extended [mm] | 1 ... 300 | | | | 1 ... 400 | | 2 | -...K8 | |
| Temperature resistance | Heat-resistant seals up to max. 120 °C | | | | | | | -S6 | |
| Corrosion protection | High corrosion protection | | | | | | 3 | -R3 | |
| Captive rating plate | Laser etched rating plate | | | | | | | -TL | |

1 I Not with piston rod type S20
Not with extended male thread K2

2 K8 The sum of the stroke length and piston rod extension must not exceed the maximum permissible stroke length

3 R3 Not with captive rating plate TL.



- Note

NSF-H1 lubricants are used in combination with R3 and in combination with R3 and Q, K2, K5 or K8.

Transfer order code

ADN - - - - **P** - **A** - **Q** - - - - - - - -

Compact cylinders ADN, to ISO 21287


Ordering data – Modular products, Q – Version with square piston rod, non-rotating

| Ordering table | | | | | | | | | | |
|---------------------------------------|---|---------------|---------------|---------------|---------------|-----------------|-----------------|-------------|---------------|-----|
| Size | 50 | 63 | 80 | 100 | 125 | Condi- tions | Code | | Enter code | |
| [M] Module No. | 536309 | 536330 | 536351 | 536372 | 536393 | | | | | |
| Function | Compact cylinder, double-acting, based on ISO 21287 | | | | | | | ADN | | ADN |
| Piston Ø [mm] | 50 | 63 | 80 | 100 | 125 | | -... | | | |
| Stroke [mm] | 1 ... 400 | | 1 ... 500 | | | | -... | | | |
| Piston rod thread | Male thread | | | | | | -A | | | |
| | Female thread | | | | | [1] | -I | | | |
| Cushioning | Flexible cushioning rings/pads at both ends | | | | | | -P | | -P | |
| Position sensing | Via proximity sensor | | | | | | -A | | -A | |
| [O] Protection against torsion | Square piston rod | | | | | | -Q | | -Q | |
| Type of piston rod [mm] | Through piston rod | | | | | | -S2 | | | |
| | Through, hollow piston rod Restricted stroke | | 1 ... 300 | | | 1 ... 400 | | -S20 | | |
| Male thread extended [mm] | 1 ... 20 | | 1 ... 30 | | 1 ... 40 | | -...K2 | | | |
| Special piston rod thread Male thread | M12 | M12 | M16 | M16 | M20 | | -“...”K5 | | | |
| Piston rod extended [mm] | 1 ... 400 | | 1 ... 500 | | | [2] | -...K8 | | | |
| Temperature resistance | Heat-resistant seals up to max. 120 °C | | | | | | -S6 | | | |
| Corrosion protection | High corrosion protection | | | | | [3] | -R3 | | | |
| Captive rating plate | Laser etched rating plate | | | | | | -TL | | | |

[1] I Not with piston rod type S20
Not with extended male thread K2

[2] K8 The sum of the stroke length and piston rod extension must not exceed the maximum permissible stroke length

[3] R3 Not with captive rating plate TL.

 - Note
NSF-H1 lubricants are used in combination with R3 and in combination with R3 and Q, K2, K5 or K8.

Transfer order code

Compact cylinders ADN, to ISO 21287

Ordering data – Modular products, S1 – Version with reinforced piston rod



| Ordering table | | | | | | | |
|------------------------------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|
| Size | 25 | 40 | 63 | 100 | Condi- tions | Code | Enter code |
| M Module No. | 536250 | 536288 | 536330 | 536372 | | | |
| Function | Compact cylinder, double-acting, based on ISO 21287 | | | | | ADN | ADN |
| Piston Ø [mm] | 25 | 40 | 63 | 100 | | -... | |
| Stroke [mm] | 5 ... 300 | 10 ... 400 | | 10 ... 500 | | -... | |
| Piston rod thread | Male thread | | | | | -A | |
| | Female thread | | | | 1 | -I | |
| Cushioning | Flexible cushioning rings/pads at both ends | | | | | -P | -P |
| Position sensing | Via proximity sensor | | | | | -A | -A |
| O Male thread extended [mm] | Extended male piston rod thread 1 ... 20 | | | 1 ... 30 | | -...K2 | |
| Special piston rod thread | Male thread | M10x1.25 M10 | M10x1.25 M12 | M12x1.25 M16 | M16x1.5 M20 | -“...”K5 | |
| | Female thread | M5 | M8 | M10 | - | | |
| Piston rod extended [mm] | Extended piston rod 1 ... 300 | | 1 ... 400 | 1 ... 500 | 2 | -...K8 | |
| Temperature resistance | Heat-resistant seals up to max. 120 °C | | | | | -S6 | |
| Reinforced piston rod | Reinforced piston rod or extended piston rod bearing | | | | | -S1 | -S1 |
| Captive rating plate | Laser etched rating plate | | | | | -TL | |

1 I Not with extended male thread K2

2 K8 The sum of the stroke length and piston rod extension must not exceed the maximum permissible stroke length

Transfer order code

ADN

P

A

S1

Compact cylinders ADN/AEN, to ISO 21287

Accessories

Foot mounting HNA/HNA-...-R3

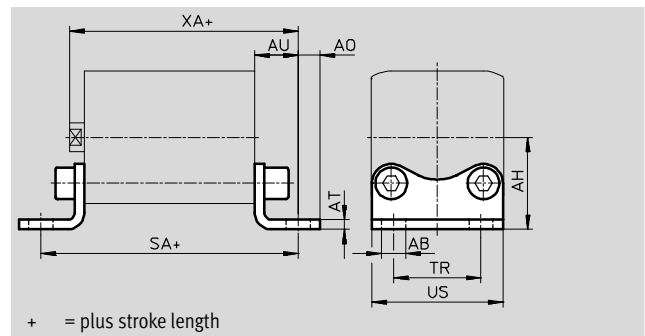
Material:

HNA: Galvanised steel

HNA-...-R3: Steel with protective coating

Free of copper and PTFE

RoHS-compliant



| Dimensions and ordering data | | | | | | | | | |
|------------------------------|---------------------|------|------|-----------|-----------|-----|-----------|--------|------|
| For \varnothing | AB \varnothing | AH | AO | AT | AU | SA | TR | US | XA |
| [mm] | H14 | JS14 | | ± 0.5 | ± 0.2 | | ± 0.2 | -0.5 | |
| 12 | 5.8 | 21 | 5 | 3 | 13 | 61 | 16 | 26 | 52.2 |
| 16 | | 22 | 4.75 | | | | 18 | 27.5 | 52.9 |
| 20 | 7 | 27 | 6.25 | 4 | 16 | 69 | 22 | 34.5 | 58.7 |
| 25 | | 29 | | | | | 38.5 | 60.7 | |
| 32 | | 33.5 | | | | | 7 | 46 | 66.2 |
| 40 | 10 | 38 | 9 | 5 | 18 | 81 | 36 | 54 | 69.2 |
| 50 | | 45 | 8 | | 21 | 87 | 45 | 64 | 74.2 |
| 63 | | 50 | | | 91 | 50 | 75 | 78.2 | |
| 80 | 12 | 63 | 10.5 | 6 | 26 | 106 | 63 | 63 | 89 |
| 100 | 14.5 | 74 | 12.5 | | 27 | 121 | 75 | 110 | 103 |

| For \varnothing | Basic version | | | | R3 – High corrosion protection | | | |
|-------------------|-------------------|------------|----------|---------|--------------------------------|------------|----------|------------|
| | CRC ¹⁾ | Weight [g] | Part No. | Type | CRC ¹⁾ | Weight [g] | Part No. | Type |
| [mm] | | | | | | | | |
| 12 | 1 | 39 | 537237 | HNA-12 | 3 | 39 | 537252 | HNA-12-R3 |
| 16 | 1 | 42 | 537238 | HNA-16 | 3 | 42 | 537253 | HNA-16-R3 |
| 20 | 1 | 84 | 537239 | HNA-20 | 3 | 84 | 537254 | HNA-20-R3 |
| 25 | 1 | 90 | 537240 | HNA-25 | 3 | 90 | 537255 | HNA-25-R3 |
| 32 | 1 | 123 | 537241 | HNA-32 | 3 | 123 | 537256 | HNA-32-R3 |
| 40 | 1 | 157 | 537242 | HNA-40 | 3 | 157 | 537257 | HNA-40-R3 |
| 50 | 1 | 278 | 537243 | HNA-50 | 3 | 278 | 537258 | HNA-50-R3 |
| 63 | 1 | 328 | 537244 | HNA-63 | 3 | 328 | 537259 | HNA-63-R3 |
| 80 | 1 | 634 | 537249 | HNA-80 | 3 | 634 | 537260 | HNA-80-R3 |
| 100 | 1 | 814 | 537250 | HNA-100 | 3 | 814 | 537261 | HNA-100-R3 |

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 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.

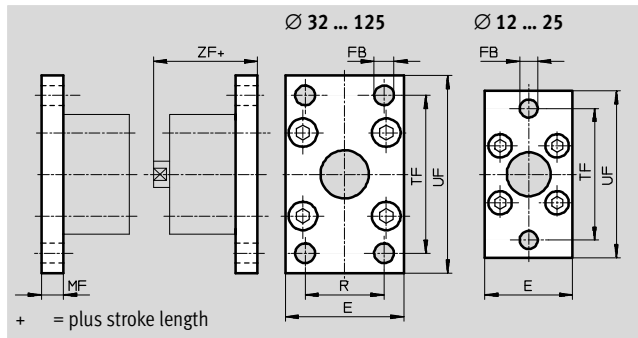
Compact cylinders ADN/AEN, to ISO 21287

Accessories

FESTO

Flange mounting FNC

Material:
Galvanised steel
Free of copper and PTFE
RoHS-compliant



| Dimensions and ordering data | | | | | | | | | | | |
|------------------------------|-----|---------|----|----|-----|----------|------|-------------------|---------------|---------------|----------------|
| For Ø | E | FB Ø | MF | R | TF | UF ±1 | ZF | CRC ¹⁾ | Weight [g] | Part No. | Type |
| [mm] | | | | | | | | | | | |
| 12 | 28 | 5.5 | 8 | - | 40 | 50 | 47.2 | 1 | 79 | 537245 | FNC-12 |
| 16 | 29 | | | | 43 | 55 | 47.9 | 1 | 88 | 537246 | FNC-16 |
| 20 | 36 | 55 | | | 70 | 50.7 | 1 | 141 | 537247 | FNC-20 | |
| 25 | 40 | 6.6 | | | 60 | 76 | 52.7 | 1 | 165 | 537248 | FNC-25 |
| 32 | 45 | 7 | 10 | 32 | 64 | 80 | 60.2 | 1 | 221 | 174376 | FNC-32 |
| 40 | 54 | 9 | | 36 | 72 | 90 | 61.2 | 1 | 291 | 174377 | FNC-40 |
| 50 | 65 | 9 | 12 | 45 | 90 | 110 | 65.2 | 1 | 536 | 174378 | FNC-50 |
| 63 | 75 | | | 50 | 100 | 120 | 69.2 | 1 | 679 | 174379 | FNC-63 |
| 80 | 93 | 12 | 16 | 63 | 126 | 150 | 79 | 1 | 1495 | 174380 | FNC-80 |
| 100 | 110 | 14 | | 75 | 150 | 175 | 92 | 1 | 2041 | 174381 | FNC-100 |
| 125 | 132 | 16 | | 20 | 90 | 180 | 210 | 112 | 1 | 3775 | 174382 |

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).

Compact cylinders ADN/AEN, to ISO 21287

Accessories



Swivel flange SNCL/SNCL-...-R3

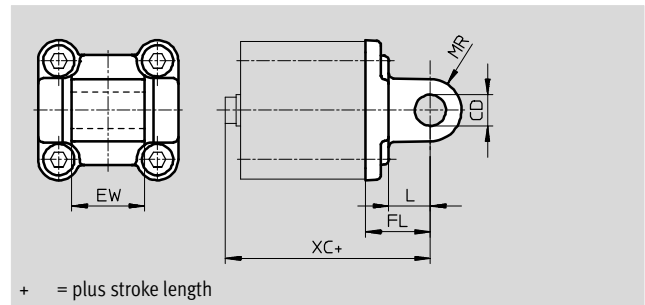
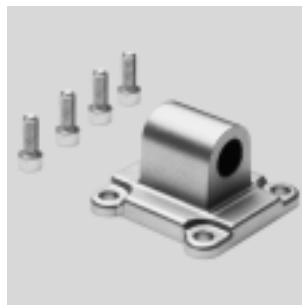
Material:

SNCL: Die-cast aluminium

SNCL-...-R3: Die-cast aluminium with protective coating

Free of copper and PTFE

RoHS-compliant



| Dimensions and ordering data | | | | | | |
|------------------------------|---------------------------|-------------------------|-----------------|----|----|------|
| For \varnothing | CD \varnothing H9 | EW | FL ± 0.2 | L | MR | XC |
| [mm] | | | | | | |
| 12 | 6 | 12 _{h12} | 16 | 10 | 6 | 55.2 |
| 16 | | | | | | 55.9 |
| 20 | 8 | 16 _{h12} | 20 | 14 | 8 | 62.7 |
| 25 | | | | | | 64.7 |
| 32 | 10 | 26 _{-0.2/-0.6} | 22 | 13 | 10 | 72.2 |
| 40 | 12 | 28 _{-0.2/-0.6} | 25 | 16 | 12 | 75.2 |
| 50 | | 32 _{-0.2/-0.6} | 27 | | | 80.2 |
| 63 | 16 | 40 _{-0.2/-0.6} | 32 | 21 | 16 | 89.2 |
| 80 | | 50 _{-0.2/-0.6} | 36 | | | 99 |
| 100 | 20 | 60 _{-0.2/-0.6} | 41 | 27 | 20 | 117 |
| 125 | 25 | 70 _{-0.2/-0.6} | 50 | 30 | 25 | 142 |

| For \varnothing | Basic version | | | | R3 – High corrosion protection | | | |
|-------------------|-------------------|------------|----------|----------|--------------------------------|------------|----------|------------|
| | CRC ¹⁾ | Weight [g] | Part No. | Type | CRC ¹⁾ | Weight [g] | Part No. | Type |
| [mm] | | | | | | | | |
| 12 | 2 | 20 | 537790 | SNCL-12 | 3 | 20 | 537794 | SNCL-12-R3 |
| 16 | 2 | 21 | 537791 | SNCL-16 | 3 | 21 | 537795 | SNCL-16-R3 |
| 20 | 2 | 38 | 537792 | SNCL-20 | 3 | 38 | 537796 | SNCL-20-R3 |
| 25 | 2 | 41 | 537793 | SNCL-25 | 3 | 41 | 537797 | SNCL-25-R3 |
| 32 | 2 | 71 | 174404 | SNCL-32 | – | – | – | – |
| 40 | 2 | 95 | 174405 | SNCL-40 | – | – | – | – |
| 50 | 2 | 158 | 174406 | SNCL-50 | – | – | – | – |
| 63 | 2 | 225 | 174407 | SNCL-63 | – | – | – | – |
| 80 | 2 | 436 | 174408 | SNCL-80 | – | – | – | – |
| 100 | 2 | 606 | 174409 | SNCL-100 | – | – | – | – |
| 125 | 2 | 1135 | 174410 | SNCL-125 | – | – | – | – |

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.

Compact cylinders ADN/AEN, to ISO 21287

Accessories

FESTO

Swivel flange SNCS

Materials:

SNCS 32 ... 80:

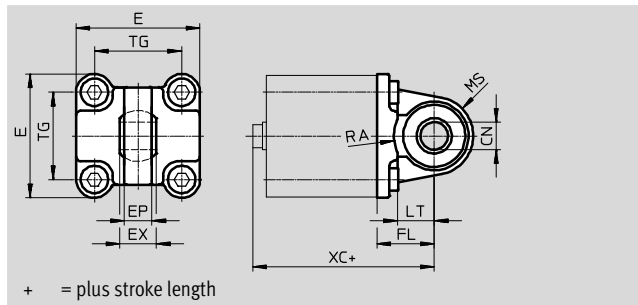
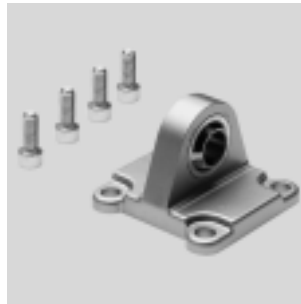
Die-cast aluminium

SNCS 100 ... 125:

Wrought aluminium alloy

Free of copper and PTFE

RoHS-compliant



Dimensions and ordering data

| For \varnothing | CN \varnothing | E | EP | EX | FL | LT | MS | RA | TG | XC | CRC ¹⁾ | Weight [g] | Part No. | Type |
|-------------------|----------------------|-------------------------|-----------|----|-----------|----|--------------------|------|------|------|-------------------|---------------|----------|----------|
| [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 | 72,2 | 2 | 86 | 174397 | SNCS-32 |
| 40 | 12 ^{+0.015} | 54 ^{-0.5} | 12 | 16 | 25 | 16 | 17 ^{+0.5} | 17.5 | 38 | 75,2 | 2 | 122 | 174398 | SNCS-40 |
| 50 | 16 ^{+0.015} | 64 ^{-0.6} | 15 | 21 | 27 | 16 | 20 ^{+0.5} | 18.5 | 46.5 | 80,2 | 2 | 216 | 174399 | SNCS-50 |
| 63 | 16 ^{+0.015} | 75 ^{-0.6} | 15 | 21 | 32 | 21 | 23 ^{-0.5} | 23 | 56.5 | 89,2 | 2 | 281 | 174400 | SNCS-63 |
| 80 | 20 ^{+0.018} | 93 ^{-0.8} | 18 | 25 | 36 | 22 | 28 ^{-0.5} | 25 | 72 | 99 | 2 | 557 | 174401 | SNCS-80 |
| 100 | 20 ^{+0.018} | 109 ^{+1/-0.7} | 18 | 25 | 41 | 27 | 30 ± 0.5 | 95 | 89 | 117 | 2 | 683 | 174402 | SNCS-100 |
| 125 | 30 ^{+0.018} | 132 ^{+1/-0.7} | 25 | 37 | 50 | 30 | 39 ± 0.5 | 100 | 110 | 142 | 2 | 1369 | 174403 | SNCS-125 |

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.

Clevis foot LBG

The clevis foot is secured against rotation with a dowel pin.

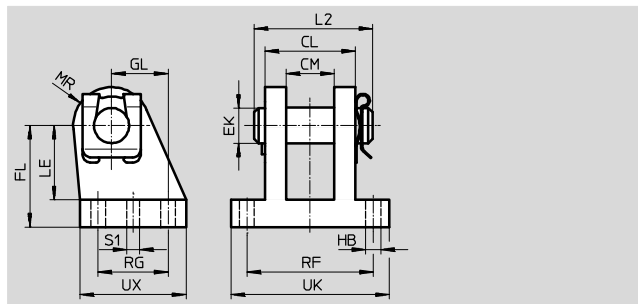
Material:

LBG 32 ... 63: Special steel casting

LBG 80 ... 125: Nodular graphite cast iron

Free of copper and PTFE

RoHS-compliant



Dimensions and ordering data

| For \varnothing | CL | CM | EK \varnothing | FL | GL | HB \varnothing | L2 | LE | MR | RF | RG | S1 \varnothing | UK | UX | CRC ¹⁾ | Weight [g] | Part No. | Type |
|-------------------|-----------|------|---------------------|----|----|---------------------|----|----|----|-----|----|---------------------|-----|------|-------------------|---------------|----------|---------|
| [mm] | ± 0.2 | | | | | | | | | | | | | | | | | |
| 32 | 28 | 14.1 | 10 | 32 | 16 | 6.8 | 35 | 24 | 12 | 42 | 20 | 4.8 | 56 | 36 | 2 | 220 | 31761 | LBG-32 |
| 40 | 30 | 16.1 | 12 | 36 | 20 | 6.8 | 39 | 26 | 14 | 44 | 26 | 5.8 | 58 | 41.5 | 2 | 300 | 31762 | LBG-40 |
| 50 | 40 | 21.1 | 16 | 45 | 25 | 9.2 | 50 | 33 | 15 | 56 | 31 | 5.8 | 70 | 47 | 2 | 540 | 31763 | LBG-50 |
| 63 | 40 | 21.1 | 16 | 50 | 25 | 9 | 50 | 38 | 17 | 56 | 31 | 7.8 | 70 | 49 | 2 | 580 | 31764 | LBG-63 |
| 80 | 50 | 25.1 | 20 | 63 | 30 | 11 | 60 | 49 | 18 | 70 | 36 | 7.8 | 89 | 55 | 2 | 1050 | 31765 | LBG-80 |
| 100 | 50 | 25.1 | 20 | 71 | 41 | 11 | 60 | 56 | 22 | 70 | 46 | 9.8 | 89 | 65 | 2 | 1375 | 31766 | LBG-100 |
| 125 | 80 | 37.2 | 30 | 90 | 60 | 14 | 89 | 70 | 26 | 106 | 70 | 11.8 | 128 | 96 | 2 | 4140 | 31767 | LBG-125 |

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.

Compact cylinders ADN/AEN, to ISO 21287

Accessories



Multi-position kit DPNA

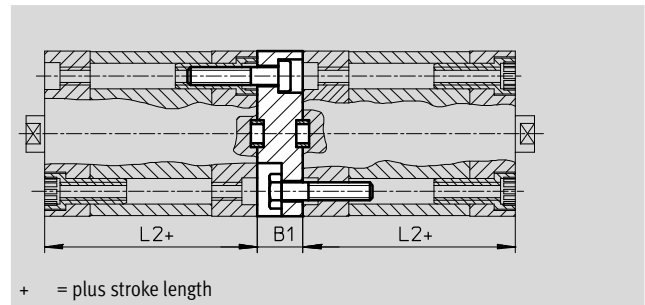
Material:

Flange: Aluminium

Screws: Galvanised steel

Free of copper and PTFE

RoHS-compliant



| Dimensions and ordering data | | | | | | |
|------------------------------|----|------|----------------------------|-------------------|----------|----------|
| For Ø | L2 | B1 | Max. overall stroke length | CRC ¹⁾ | Part No. | Type |
| [mm] | | | [mm] | | | |
| 12 | 35 | 13 | 600 | 2 | 537263 | DPNA-12 |
| 16 | | | 600 | 2 | 537264 | DPNA-16 |
| 20 | | | 600 | 2 | 537265 | DPNA-20 |
| 25 | | | 600 | 2 | 537266 | DPNA-25 |
| 32 | 44 | 15 | 800 | 2 | 537267 | DPNA-32 |
| 40 | 45 | | 800 | 2 | 537268 | DPNA-40 |
| 50 | | | 800 | 2 | 537269 | DPNA-50 |
| 63 | | | 800 | 2 | 537270 | DPNA-63 |
| 80 | 54 | 17 | 1000 | 2 | 537271 | DPNA-80 |
| 100 | 67 | 19.5 | 1000 | 2 | 537272 | DPNA-100 |



Note

The maximum overall stroke length may not be exceeded when combining cylinders and multi-position kits.

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

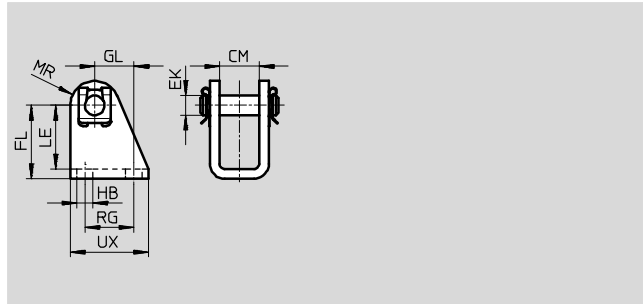
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Compact cylinders ADN/AEN, to ISO 21287

Accessories

Clevis foot LBN

Material:
Galvanised steel
Free of copper and PTFE
RoHS-compliant

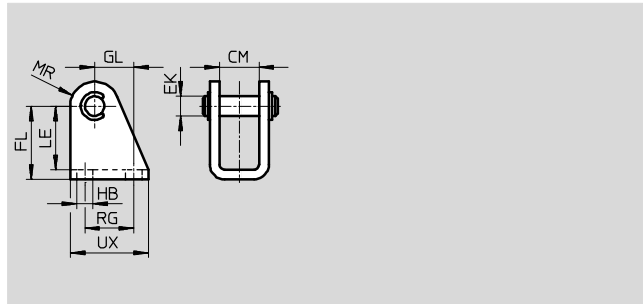


| Dimensions and ordering data | | | | | | | | | | | | | Part No. | Type |
|------------------------------|------|---------------------|--------------|----|---------------------|----|----|----|----|-------------------|---------------|-------------|------------------|------|
| For \varnothing | CM | EK \varnothing | FL | GL | HB \varnothing | LE | MR | RG | UX | CRC ¹⁾ | Weight [g] | | | |
| [mm] | | | | | | | | | | | | | | |
| 12/16 | 12.1 | 6 | 27 +0.3/-0.2 | 13 | 5.5 | 24 | 7 | 15 | 25 | 1 | 40 | 6058 | LBN-12/16 | |
| 20/25 | 16.1 | 8 | 30 +0.4/-0.2 | 16 | 6.6 | 26 | 10 | 20 | 32 | 1 | 84 | 6059 | LBN-20/25 | |

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).

Clevis foot CRLBN, stainless steel

Material:
High-alloy steel
Free of copper and PTFE
RoHS-compliant



| Dimensions and ordering data | | | | | | | | | | | | | Part No. | Type |
|------------------------------|------|---------------------|--------------|----|---------------------|----|----|----|----|-------------------|---------------|---------------|--------------------|------|
| For \varnothing | CM | EK \varnothing | FL | GL | HB \varnothing | LE | MR | RG | UX | CRC ¹⁾ | Weight [g] | | | |
| [mm] | | | | | | | | | | | | | | |
| 12/16 | 12.1 | 6 | 27 +0.3/-0.2 | 13 | 5.5 | 24 | 7 | 15 | 25 | 4 | 39 | 161862 | CRLBN-12/16 | |
| 20/25 | 16.1 | 8 | 30 +0.4/-0.2 | 16 | 6.6 | 26 | 10 | 20 | 32 | 4 | 82 | 161863 | CRLBN-20/25 | |

1) 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.

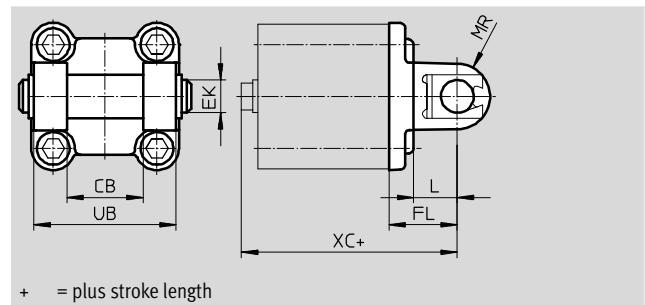
Compact cylinders ADN/AEN, to ISO 21287

Accessories



Swivel flange SNCB/SNCB-...-R3

Material:
SNCB: Die-cast aluminium
SNCB-...-R3: Die-cast aluminium with protective coating, high corrosion protection
Free of copper and PTFE
RoHS-compliant



+ = plus stroke length

| Dimensions and ordering data | | | | | | | |
|------------------------------|-----|---------------------|-----------|----|-----|-----|-----|
| For \varnothing | CB | EK | FL | L | MR | UB | XC |
| [mm] | H14 | \varnothing e8 | ± 0.2 | | | h14 | |
| 32 | 26 | 10 | 22 | 13 | 8.5 | 45 | 72 |
| 40 | 28 | 12 | 25 | 16 | 12 | 52 | 76 |
| 50 | 32 | 12 | 27 | 16 | 12 | 60 | 80 |
| 63 | 40 | 16 | 32 | 21 | 16 | 70 | 89 |
| 80 | 50 | 16 | 36 | 22 | 16 | 90 | 99 |
| 100 | 60 | 20 | 41 | 27 | 20 | 110 | 117 |
| 125 | 70 | 25 | 50 | 30 | 25 | 130 | 142 |

| For \varnothing [mm] | Basic version | | | | R3 – High corrosion protection | | | |
|---------------------------|-------------------|------------|----------|----------|--------------------------------|------------|----------|-------------|
| | CRC ¹⁾ | Weight [g] | Part No. | Type | CRC ¹⁾ | Weight [g] | Part No. | Type |
| 32 | 2 | 103 | 174390 | SNCB-32 | 3 | 100 | 176944 | SNCB-32-R3 |
| 40 | 2 | 155 | 174391 | SNCB-40 | 3 | 151 | 176945 | SNCB-40-R3 |
| 50 | 2 | 232 | 174392 | SNCB-50 | 3 | 228 | 176946 | SNCB-50-R3 |
| 63 | 2 | 375 | 174393 | SNCB-63 | 3 | 371 | 176947 | SNCB-63-R3 |
| 80 | 2 | 636 | 174394 | SNCB-80 | 3 | 632 | 176948 | SNCB-80-R3 |
| 100 | 2 | 1035 | 174395 | SNCB-100 | 3 | 986 | 176949 | SNCB-100-R3 |
| 125 | 2 | 1860 | 174396 | SNCB-125 | 3 | 1776 | 176950 | SNCB-125-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.

Compact cylinders ADN/AEN, to ISO 21287

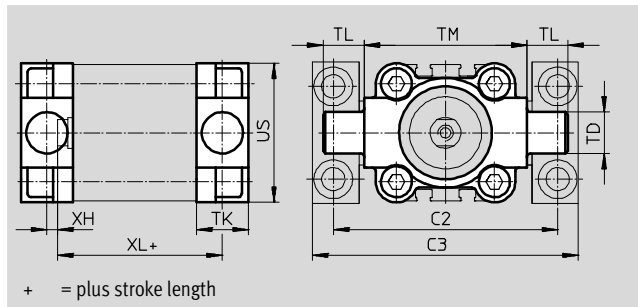
Accessories

FESTO

Trunnion flange ZNCF/CRZNG

Material:

ZNCF: Special steel casting
 CRZNG: Electrolytically polished special steel casting
 Free of copper and PTFE
 RoHS-compliant



Dimensions and ordering data

| For \varnothing | C2 | C3 | TD | TK | TL | TM | US | XH | XL |
|-------------------|-----|-----|---------------------|----|----|-----|-----|----|------|
| [mm] | | | \varnothing e9 | | | | | | |
| 32 | 71 | 86 | 12 | 16 | 12 | 50 | 45 | 2 | 58 |
| 40 | 87 | 105 | 16 | 20 | 16 | 63 | 54 | 4 | 61.1 |
| 50 | 99 | 117 | 16 | 24 | 16 | 75 | 64 | 4 | 64.7 |
| 63 | 116 | 136 | 20 | 24 | 20 | 90 | 75 | 4 | 68.5 |
| 80 | 136 | 156 | 20 | 28 | 20 | 110 | 93 | 5 | 76.9 |
| 100 | 164 | 189 | 25 | 38 | 25 | 132 | 110 | 10 | 95 |
| 125 | 192 | 217 | 25 | 50 | 25 | 160 | 131 | 14 | 117 |

| For \varnothing | Basic version | | | | R3 – 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 |
| 50 | 2 | 473 | 174413 | ZNCF-50 | 4 | 473 | 161854 | CRZNG-50 |
| 63 | 2 | 687 | 174414 | ZNCF-63 | 4 | 687 | 161855 | CRZNG-63 |
| 80 | 2 | 1296 | 174415 | ZNCF-80 | 4 | 1296 | 161856 | CRZNG-80 |
| 100 | 2 | 2254 | 174416 | ZNCF-100 | 4 | 2254 | 161857 | CRZNG-100 |
| 125 | 2 | 3484 | 174417 | ZNCF-125 | 4 | 3484 | 185362 | CRZNG-125 |

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.

Compact cylinders ADN/AEN, to ISO 21287

Accessories



Trunnion support LNZG

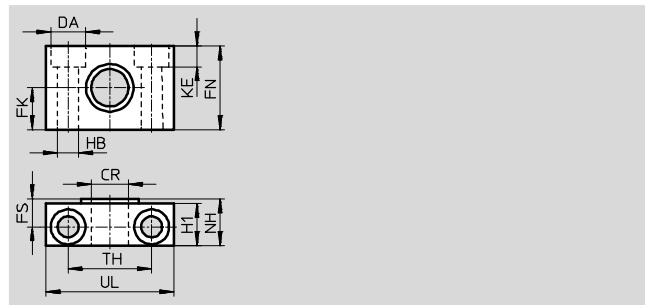
Material:

Trunnion support: Anodised aluminium

Plain bearing: Plastic

Free of copper and PTFE

RoHS-compliant



Dimensions and ordering data

| For \varnothing | CR | DA | FK | FN | FS | H1 | HB | KE | NH | TH | UL | CRC ¹⁾ | Weight | Part No. | Type |
|-------------------|---------------|---------------|---------------|----|------|------|---------------|-----|------|-----------|----|-------------------|--------|--------------|---------------------|
| [mm] | \varnothing | \varnothing | \varnothing | | | | \varnothing | | | ± 0.2 | | | [g] | | |
| 32 | 12 | 11 | 15 | 30 | 10.5 | 15 | 6.6 | 6.8 | 18 | 32 | 46 | 2 | 83 | 32959 | LNZG-32 |
| 40, 50 | 16 | 15 | 18 | 36 | 12 | 18 | 9 | 9 | 21 | 36 | 55 | 2 | 129 | 32960 | LNZG-40/50 |
| 63, 80 | 20 | 18 | 20 | 40 | 13 | 20 | 11 | 11 | 23 | 42 | 65 | 2 | 178 | 32961 | LNZG-63/80 |
| 100, 125 | 25 | 20 | 25 | 50 | 16 | 24.5 | 14 | 13 | 28.5 | 50 | 75 | 2 | 306 | 32962 | LNZG-100/125 |





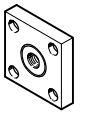
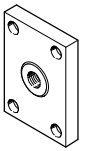

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

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.

Compact cylinders ADN/AEN, to ISO 21287

Accessories




FESTO

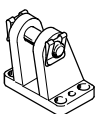
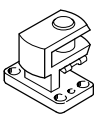
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|---|----------------|----------|-----------------|--|---------------------------|-------------|--------------|
| Designation | For Ø | Part No. | Type | Designation | For Ø | Part No. | Type |
| Rod eye SGS | | | | Rod clevis SGA used in combination with rod eye SGS | | | |
|  | 12 | – | |  | 12, 16, 20, 25 | – | |
| | 16 | 9254 | SGS-M6 | | 32, 40 | 32954 | SGA-M10x1,25 |
| | 20, 25 | 9255 | SGS-M8 | | 50, 63 | 10767 | SGA-M12x1,25 |
| | 32, 40 | 9261 | SGS-M10x1,25 | | 80, 100 | 10768 | SGA-M16x1,25 |
| | 50, 63 | 9262 | SGS-M12x1,25 | | 125 | 10769 | SGA-M20x1,25 |
| | 80, 100 | 9263 | SGS-M16x1,5 | | | | |
| | 125 | 9264 | SGS-M20x1,5 | | | | |
| Rod clevis SG | | | | Self-aligning rod coupler FK | | | |
|  | 12 | – | |  | 12 | 30984 | FK-M5 |
| | 16 | 3110 | SG-M6 | | 16 | 2061 | FK-M6 |
| | 20, 25 | 3111 | SG-M8 | | 20, 25 | 2062 | FK-M8 |
| | 32, 40 | 6144 | SG-M10x1,25 | | 32, 40 | 6140 | FK-M10x1,25 |
| | 50, 63 | 6145 | SG-M12x1,25 | | 50, 63 | 6141 | FK-M12x1,25 |
| | 80, 100 | 6146 | SG-M16x1,5 | | 80, 100 | 6142 | FK-M16x1,5 |
| | 125 | 6147 | SG-M20x1,5 | | 125 | 6143 | FK-M20x1,5 |
| Coupling piece KSG | | | | | Coupling piece KSZ | | |
|  | 12, 16, 20, 25 | – | |  | 12 | – | |
| | 32, 40 | 32963 | KSG-M10x1,25 | | 16 | 36123 | KSZ-M6 |
| | 50, 63 | 32964 | KSG-M12x1,25 | | 20, 25 | 36124 | KSZ-M8 |
| | 80, 100 | 32965 | KSG-M16x1,5 | | 32, 40 | 36125 | KSZ-M10x1,25 |
| | 125 | 32966 | KSG-M20x1,5 | | 50, 63 | 36126 | KSZ-M12x1,25 |
| | | | | | 80, 100 | 36127 | KSZ-M16x1,5 |
| | | | 125 | | 36128 | KSZ-M20x1,5 | |
| Adapter AD | | | | | | | |
|  | 12 | – | | | | | |
| | 16 | 157328 | AD-M6-M5 | | | | |
| | | 157329 | AD-M6-1/8 | | | | |
| | | 157330 | AD-M6-1/4 | | | | |
| | 20 | 157331 | AD-M8-1/8 | | | | |
| | 25 | 157332 | AD-M8-1/4 | | | | |
| | 32 | 157333 | AD-M10x1,25-1/8 | | | | |
| | 40 | 157334 | AD-M10x1,25-1/4 | | | | |
| | 50 | 160256 | AD-M12x1,25-1/4 | | | | |
| | 63 | 160257 | AD-M12x1,25-3/8 | | | | |


Compact cylinders ADN/AEN, to ISO 21287

Accessories

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| Ordering data – Corrosion and acid resistant piston rod attachments | | | | Technical data → Internet: crsg | | | |
|---|---------|----------|----------------|---|---------|----------|---------------|
| Designation | For Ø | Part No. | Type | Designation | For Ø | Part No. | Type |
| Rod eye CRSGS | | | | Rod clevis CRSG | | | |
|  | 12 | – | |  | 12 | – | |
| | 16 | 195580 | CRSGS-M6 | | 16, 20 | 13567 | CRSG-M6 |
| | 20, 25 | 195581 | CRSGS-M8 | | 20, 25 | 13568 | CRSG-M8 |
| | 32, 40 | 195582 | CRSGS-M10x1,25 | | 32, 40 | 13569 | CRSG-M10x1,25 |
| | 50, 63 | 195583 | CRSGS-M12x1,25 | | 50, 63 | 13570 | CRSG-M12x1,25 |
| | 80, 100 | 195584 | CRSGS-M16x1,5 | | 80, 100 | 13571 | CRSG-M16x1,5 |
| | 125 | 195585 | CRSGS-M20x1,5 | | 125 | 13572 | CRSG-M20x1,5 |
| Self-aligning rod coupler CRFK | | | | | | | |
|  | 32, 40 | 2305778 | CRFK-M10x1,25 | | | | |
| | 50, 63 | 2305779 | CRFK-M12x1,25 | | | | |
| | 80, 100 | 2490673 | CRFK-M16x1,5 | | | | |
| | 125 | 2545677 | CRFK-M20x1,5 | | | | |


| Ordering data – Mounting attachments | | | | Technical data → Internet: clevis foot | | | |
|--|---------|----------|---------|--|---------|----------|---------|
| Designation | For Ø | Part No. | Type | Designation | For Ø | Part No. | Type |
| Clevis foot LBG for rod eye SGS | | | | Right-angle clevis foot LQG for rod eye SGS | | | |
|  | 32, 40 | 31761 | LBG-32 |  | 32, 40 | 31768 | LQG-32 |
| | 50, 63 | 31762 | LBG-40 | | 50, 63 | 31769 | LQG-40 |
| | 80, 100 | 31763 | LBG-50 | | 80, 100 | 31770 | LQG-50 |
| | | 31764 | LBG-63 | | | 31771 | LQG-63 |
| | 125 | 31765 | LBG-80 | | 125 | 31772 | LQG-80 |
| | | 31766 | LBG-100 | | | 31773 | LQG-100 |

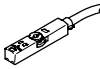
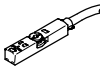
| Ordering data – One-way flow control valves | | | | Technical data → Internet: grla | | | | |
|---|-------------------------|-----------------|----------|---------------------------------|--------|------------------|--------|-----------------|
| Designation | Connection | | Material | Part No. | Type | | | |
| | For Ø | For tubing O.D. | | | | | | |
| For exhaust air | | | | | | | | |
|  | 12, 16, 20, 25 | | 3 | Metal design | 193137 | GRLA-M5-QS-3-D | | |
| | | | 4 | | 193138 | GRLA-M5-QS-4-D | | |
| | | | 6 | | 193139 | GRLA-M5-QS-6-D | | |
| | 32, 40, 50, 63, 80, 100 | | 3 | | 193142 | GRLA-1/8-QS-3-D | | |
| | | | 4 | | 193143 | GRLA-1/8-QS-4-D | | |
| | | | 6 | | 193144 | GRLA-1/8-QS-6-D | | |
| | | | 8 | | 193145 | GRLA-1/8-QS-8-D | | |
| | | | 125 | | | 6 | 193146 | GRLA-1/4-QS-6-D |
| | | | | | | 8 | 193147 | GRLA-1/4-QS-8-D |
| | | | 10 | | 193148 | GRLA-1/4-QS-10-D | | |

Compact cylinders ADN/AEN, to ISO 21287

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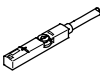


| Ordering data – One-way flow control valves | | | | Technical data → Internet: grlz | |
|---|-------------------------|-----------------|--------------|---------------------------------|------------------------|
| Connection | Material | | Part No. | Type | |
| | For Ø | For tubing O.D. | | | |
| For supply air | | | | | |
|  | 12, 16, 20, 25 | 3 | Metal design | 193153 | GRLZ-M5-QS-3-D |
| | | 4 | | 193154 | GRLZ-M5-QS-4-D |
| | | 6 | | 193155 | GRLZ-M5-QS-6-D |
| | 32, 40, 50, 63, 80, 100 | 3 | | 193156 | GRLZ-1/8-QS-3-D |
| | | 4 | | 193157 | GRLZ-1/8-QS-4-D |
| | | 6 | | 193158 | GRLZ-1/8-QS-6-D |
| | | 8 | | 193159 | GRLZ-1/8-QS-8-D |
| | 125 | – | | 151195 | GRLZ-1/4-B |



| Ordering data – Proximity sensors for T-slot, magneto-resistive | | | | | Technical data → Internet: smt | |
|---|--|-----------------------|-------------------|----------|--------------------------------|----------------------------------|
| Type of mounting | Switch output | Electrical connection | Cable length [m] | Part No. | Type | |
| N/O contact | | | | | | |
|  | Insertable in the slot from above, flush with cylinder profile, short design | PNP | Cable, 3-wire | 2.5 | 574335 | SMT-8M-A-PS-24V-E-2,5-OE |
| | | | Plug M8x1, 3-pin | 0.3 | 574334 | SMT-8M-A-PS-24V-E-0,3-M8D |
| | | | Plug M12x1, 3-pin | 0.3 | 574337 | SMT-8M-A-PS-24V-E-0,3-M12 |
| | | NPN | Cable, 3-wire | 2.5 | 574338 | SMT-8M-A-NS-24V-E-2,5-OE |
| | | | Plug M8x1, 3-pin | 0.3 | 574339 | SMT-8M-A-NS-24V-E-0,3-M8D |
| N/C contact | | | | | | |
|  | Insertable in the slot from above, flush with cylinder profile, short design | PNP | Cable, 3-wire | 7.5 | 574340 | SMT-8M-A-PO-24V-E-7,5-OE |


Compact cylinders ADN/AEN, to ISO 21287


Accessories

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| Ordering data – Proximity sensors for T-slot, magnetic reed | | | | | Technical data → Internet: sme | |
|---|--|---------------|-----------------------|------------------|--------------------------------|--------------------------------|
| | Type of mounting | Switch output | Electrical connection | Cable length [m] | Part No. | Type |
| N/O contact | | | | | | |
|  | Insertable in the slot from above, flush with cylinder profile | Contacting | Cable, 3-wire | 2.5 | 543862 | SME-8M-DS-24V-K-2,5-OE |
| | | | | 5.0 | 543863 | SME-8M-DS-24V-K-5,0-OE |
| | | | Cable, 2-wire | 2.5 | 543872 | SME-8M-ZS-24V-K-2,5-OE |
| | | | Plug M8x1, 3-pin | 0.3 | 543861 | SME-8M-DS-24V-K-0,3-M8D |
|  | Insertable in the slot lengthwise, flush with the cylinder profile | Contacting | Cable, 3-wire | 2.5 | 150855 | SME-8-K-LED-24 |
| | | | Plug M8x1, 3-pin | 0.3 | 150857 | SME-8-S-LED-24 |
| N/C contact | | | | | | |
|  | Insertable in the slot lengthwise, flush with the cylinder profile | Contacting | Cable, 3-wire | 7.5 | 160251 | SME-8-O-K-LED-24 |

| Ordering data – Connecting cables | | | | Technical data → Internet: nebu | |
|---|-------------------------------|------------------------------|------------------|---------------------------------|-----------------------------|
| | Electrical connection, left | Electrical connection, right | Cable length [m] | Part No. | Type |
|  | Straight socket, M8x1, 3-pin | Cable, open end, 3-wire | 2.5 | 541333 | NEBU-M8G3-K-2.5-LE3 |
| | | | 5 | 541334 | NEBU-M8G3-K-5-LE3 |
| | Straight socket, M12x1, 5-pin | Cable, open end, 3-wire | 2.5 | 541363 | NEBU-M12G5-K-2.5-LE3 |
| | | | 5 | 541364 | NEBU-M12G5-K-5-LE3 |
|  | Angled socket, M8x1, 3-pin | Cable, open end, 3-wire | 2.5 | 541338 | NEBU-M8W3-K-2.5-LE3 |
| | | | 5 | 541341 | NEBU-M8W3-K-5-LE3 |
| | Angled socket, M12x1, 5-pin | Cable, open end, 3-wire | 2.5 | 541367 | NEBU-M12W5-K-2.5-LE3 |
| | | | 5 | 541370 | NEBU-M12W5-K-5-LE3 |

| Ordering data – Rectangular proximity sensors, pneumatic | | | Technical data → Internet: smpo | |
|---|----------------------|--|---------------------------------|----------------|
| | Pneumatic connection | | Part No. | Type |
| 3/2-way valve, normally closed | | | | |
|  | Female thread M5 | | 178563 | SMPO-8E |

| Ordering data – Mounting kits for proximity sensors SMPO-8E | | | Technical data → Internet: smb | |
|---|-------------------|--|--------------------------------|---------------|
| | Assembly | | Part No. | Type |
|  | Clamped in T-slot | | 178230 | SMB-8E |

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