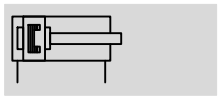
# Compact cylinders ADN, to ISO 21287

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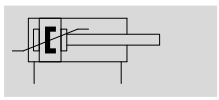
Technical data

Function

P cushioning



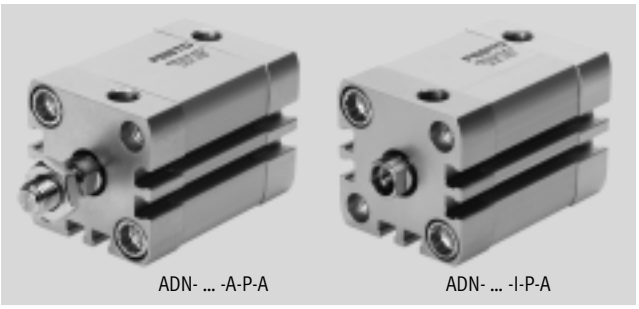
PPS cushioning



Variants ➔ 3

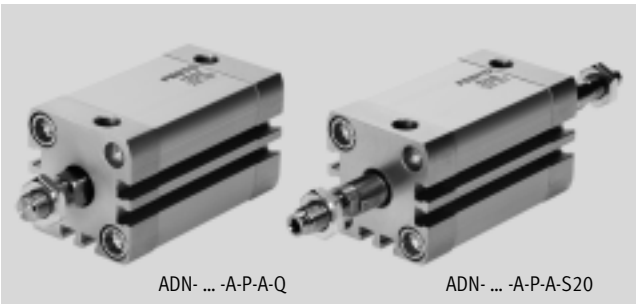


- Diameter
  12 ... 125 mm
- Stroke length
  1 ... 500 mm
- www.festo.com



ADN- ... -A-P-A

ADN- ... -I-P-A



ADN- ... -A-P-A-Q

ADN- ... -A-P-A-S20

| 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 |



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# Compact cylinders ADN, to ISO 21287

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Technical data

| Technical data – Basic version and variants | | | | | |
|---|---|---|---|---|---|
| Piston ∅ | 50 | 63 | 80 | 100 | 125 |
| Pneumatic connection | | | | | |
| – | G⅛ | G⅛ | G⅛ | G⅛ | G¼ |
| S1 | – | G⅛ | – | G⅛ | – |
| 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 ∅ | 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 | – | 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 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.
Corrosion resistance class 3 according to Festo standard 940 070
Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.



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# Compact cylinders ADN, to ISO 21287

FESTO

Technical data

| Forces [N] and impact energy [J] | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Piston ∅ | 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 |

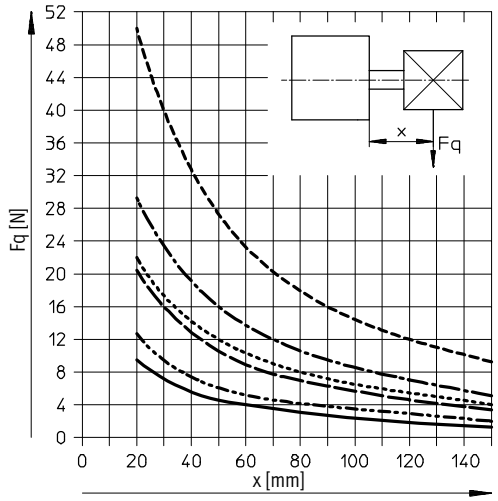
**Note**

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

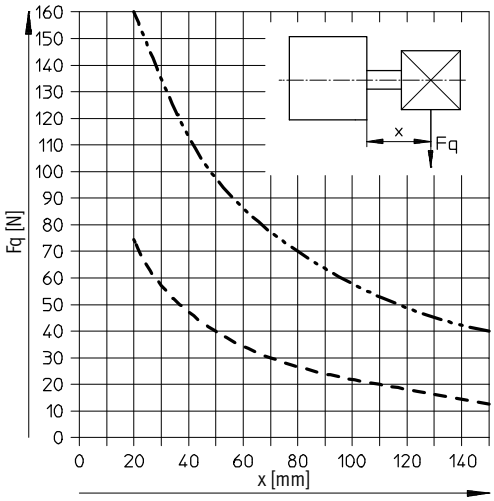
| Max. energy conversion capacity [J] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Piston ∅ | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 |
| For PPS cushioning | 0.65 | 0.8 | 1 | 1.7 | 2.8 | 4.8 | 8 | 12 |

**Max. lateral force Fq as a function of the projection x**

∅ 12 ... 63




∅ 80 ... 125




- ∅ 12
- ∅ 16
- ∅ 20
- ∅ 25
- ∅ 32/40
- ∅ 50/63
- ∅ 80/100
- ∅ 125



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# Compact cylinders ADN, to ISO 21287

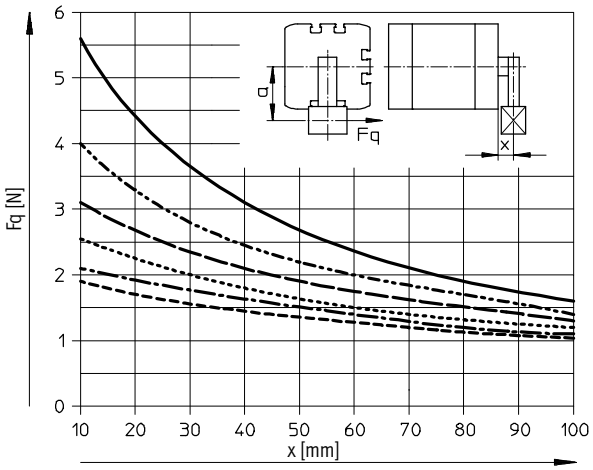
Technical data

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

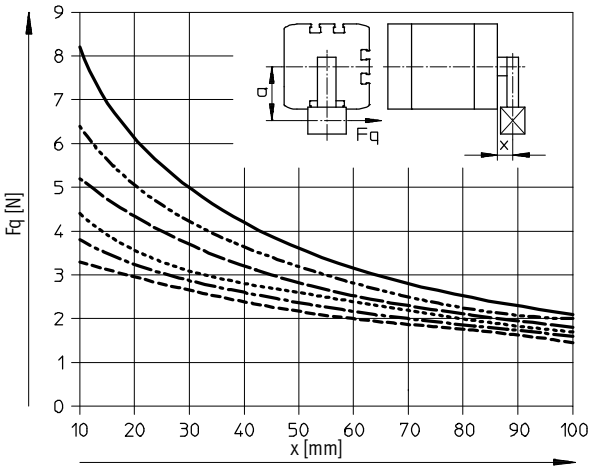
Q – Square piston rod

∅ 12



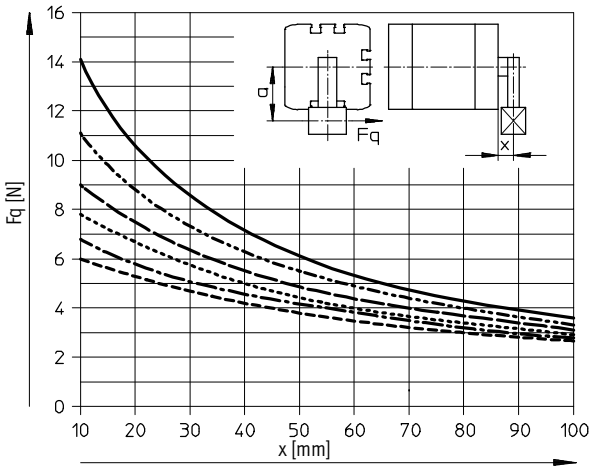

- a = 5 mm
- a = 10 mm
- a = 15 mm
- a = 20 mm
- a = 25 mm
- a = 30 mm

∅ 16



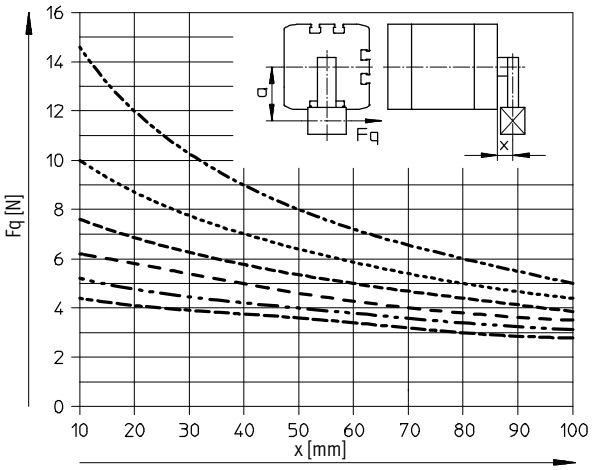

- a = 5 mm
- a = 10 mm
- a = 15 mm
- a = 20 mm
- a = 25 mm
- a = 30 mm

∅ 20/25




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

∅ 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).



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# Compact cylinders ADN, to ISO 21287

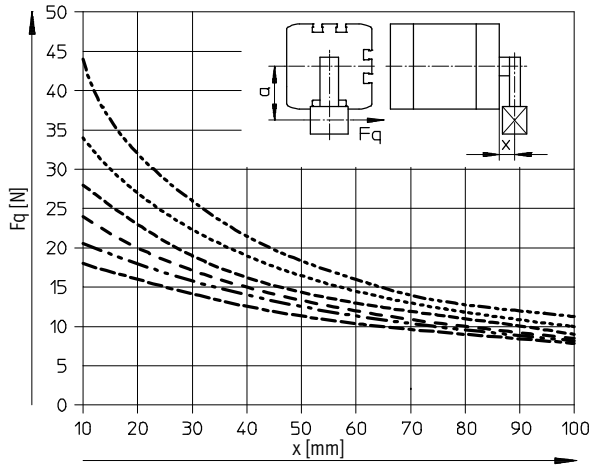
Technical data

FESTO

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

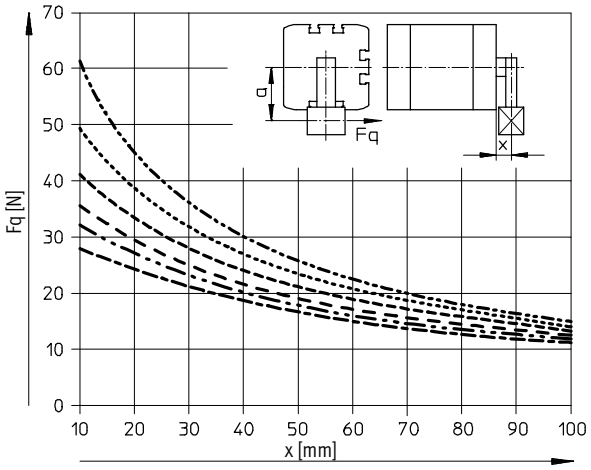
Q – Square piston rod

∅ 50/63



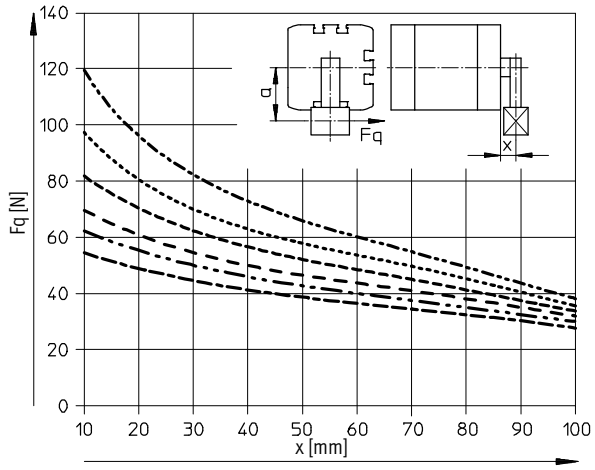

- a = 10 mm
- a = 20 mm
- a = 30 mm
- a = 40 mm
- a = 50 mm
- a = 60 mm

∅ 80/100




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

∅ 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).



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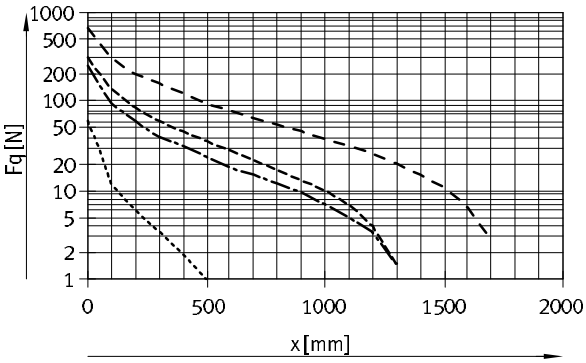
# Compact cylinders ADN, to ISO 21287

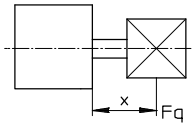
Technical data

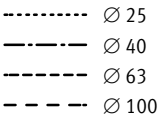
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**Max. lateral force Fq as a function of the projection x**

S1 – Reinforced piston rod



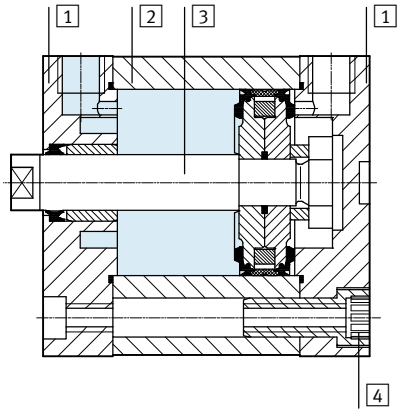




| Weight [g] | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Piston ∅ | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
| Product weight with 0 mm stroke | 77 | 79 | 131 | 156 | 265 | 346 | 540 | 722 | 1,300 | 2,154 | 2,880 |
| Additional weight per 10 mm stroke | 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 | 1,080 |
| 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 | | | | | |
| | ∅ 12 ... 80 | Anodised aluminium | | | | |
| | ∅ 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 | | | | | |
| | ∅ 12 ... 16 | High-alloy steel | | | High-alloy steel | – |
| | ∅ 20 ... 63 | Galvanised steel | | | Steel, zinc flake coating | Galvanised steel |
| | ∅ 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 | | | | |



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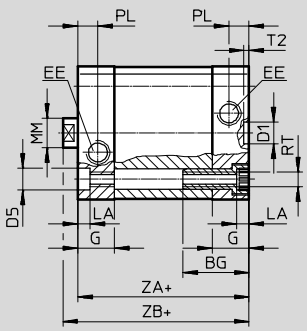
# Compact cylinders ADN, to ISO 21287

Technical data

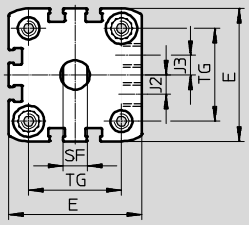
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**Dimensions – Basic version** Download CAD data ➔ **www.festo.com**

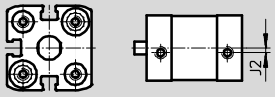
∅ 12 ... 63



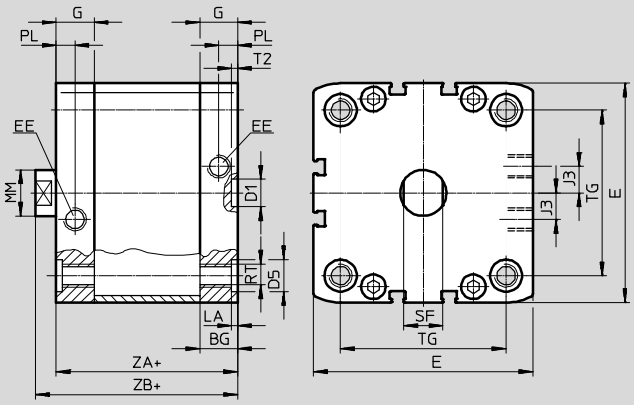

**∅ 32 ... 63**




**∅ 12 ... 25** **∅ 12**




∅ 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 | 19.5 | | 9 | 35.5 +0.3 | | 12 | | | 5 |
| 25 | | | | 39.5 +0.3 | | | | | |
| 32 | 26 | | | 47 +0.3 | G⅛ | 15 | 6 | | |
| 40 | | | | 54.5 +0.3 | | | 8 | | |
| 50 | 27 | 12 | 12 | 65.5 +0.3 | | | 11.5 | | |
| 63 | | | | 75.5 +0.3 | | | | | |
| 80 | 17 | | 15 | 95.5 +0.6 | | 16.5 | | | 2.6 |
| 100 | 21.5 | | | 113.5 +0.6 | | 21.5 | 20 | | |
| 125 | 20 | | – | 134.6 +0.3 | G¼ | 20 | 21.15 | | – |

| ∅ [mm] | MM ∅ | PL +0.2 | RT | SF h13 | T2 +0.1 | TG ±0.2 | ZA ±0.3 | ZB +1.2 | ZB 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 | 2.6 | 46.5 | | 52.7 | 53.2 |
| 63 | | | | | | 56.5 | 49 | 56.5 | 57 |
| 80 | 20 | | M10 | 17 | | 72 | 54 | 62.9 | 63.4 |
| 100 | | 10.5 | | | | 89 | 67 | 76 | 76.8 |
| 125 | 25 | | M12 | 21 | | 110 | 81 | 92 | – |



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# Compact cylinders ADN, to ISO 21287

Technical data

FESTO

**Dimensions – Variants** Download CAD data ➔ **www.festo.com**

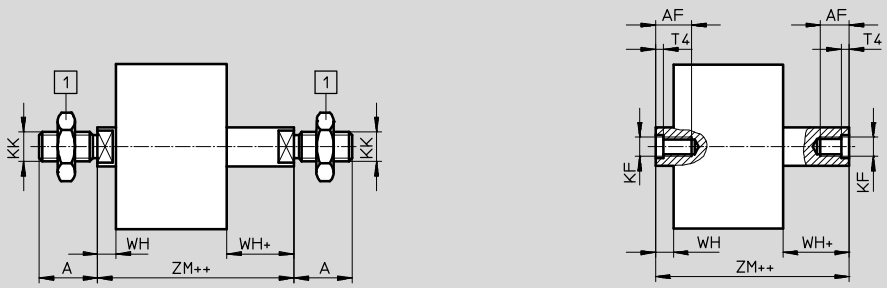
Basic version




1 Hex nut DIN 439-B only with ∅ 32 ... 125

\+ = plus stroke length

S2 – Through piston rod

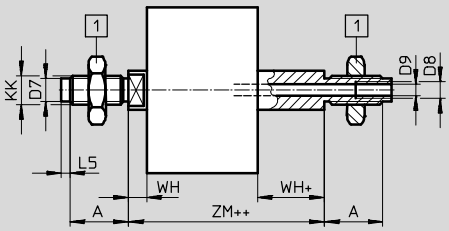



1 Hex nut DIN 439-B only with ∅ 32 ... 125

\+ = plus stroke length

++ = plus 2x stroke length

S20 – Through, hollow piston rod




Note

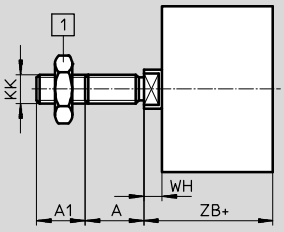
In combination with variants S2/S20, the piston rod is extended at one end.

1 Hex nut DIN 439-B only with ∅ 32 ... 125

\+ = plus stroke length

++ = plus 2x stroke length

K2 – Extended male piston rod thread




1 Hex nut DIN 439-B only with ∅ 32 ... 125

\+ = plus stroke length

K5 – Special piston rod thread




\+ = plus stroke length



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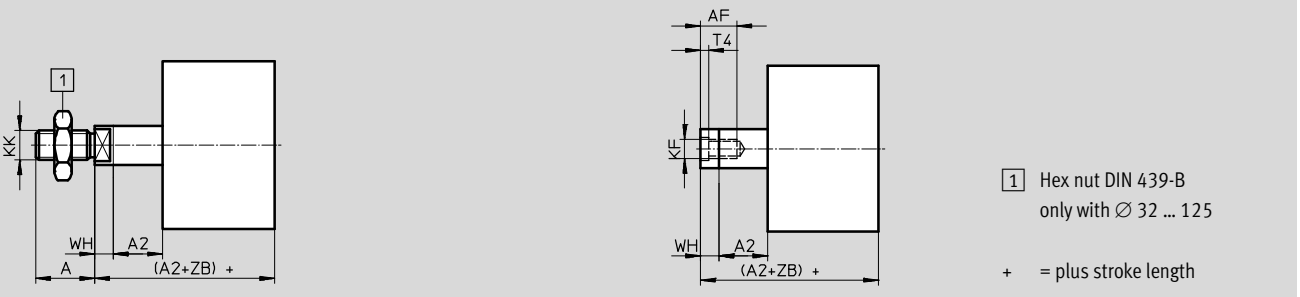
# Compact cylinders ADN, to ISO 21287

Technical data

FESTO

**Dimensions – Variants** Download CAD data ➔ **www.festo.com**

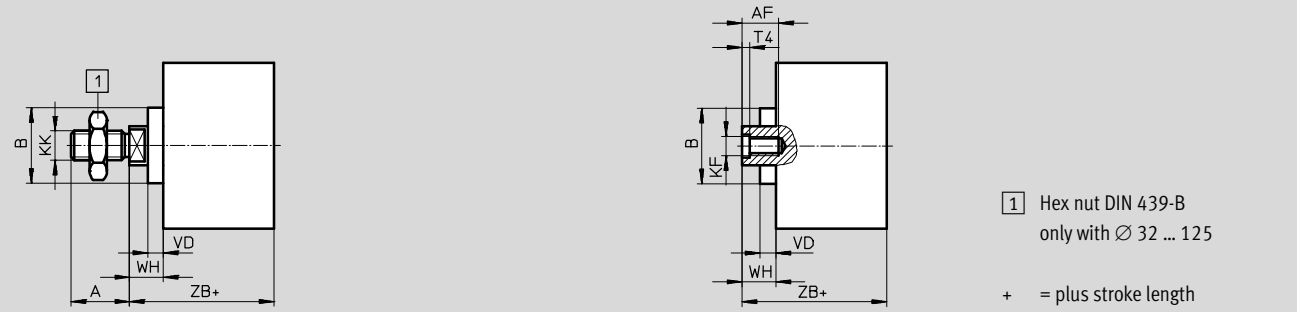
K8 – Extended piston rod




1 Hex nut DIN 439-B only with ∅ 32 ... 125

\+ = plus stroke length

R8 – Dust protection / TT – Low temperature




1 Hex nut DIN 439-B only with ∅ 32 ... 125

\+ = plus stroke length

| ∅ [mm] | A −0.5 | A1 | A2 | AF min. | AF5 min. | B ∅ | D7 ∅ | D8 | D9 ∅ | L5 | KF | KF5 | KK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 10 | 1 ... 10 | 1 ... 300 | 8 | – | – | – | – | – | – | M3 | – | M5 |
| 16 | 12 | | | 10 | | | 4.5 | | 3.2 | 3 | M4 | | M6 |
| 20 | 16 | 1 ... 20 | | 14 | 12 | 18 | 6 | – | 3.8 | 2 | M6 | M5 | M8 |
| 25 | | | | | | | | | | | | | |
| 32 | 19 | | 1 ...400 | 16 | 14 | 27 | 8 | | 4.5 | 3 | M8 | M6 | M10x1.25 |
| 40 | | | | | | | | | | | | | |
| 50 | 22 | | | 20 | 16 | 31 | 10 | | 6 | 3.5 | M10 | M8 | M12x1.25 |
| 63 | | | | | | | | | | | | | |
| 80 | 28 | 1 ... 30 | 1 ... 500 | | 20 | 35 | – | G⅛ | 8 | – | M12 | M10 | M16x1.5 |
| 100 | | | | | | | | | | | | | |
| 125 | 40 | 1 ... 40 | | 25 | – | – | | G¼ | 11.7 | | M16 | – | M20x1.5 |

| ∅ [mm] | 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 |
| 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 | 5.5 | 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 | 6.5 | 12.5 | 50 | 50.6 | 56.5 | 57.5 +0.5 | 58.6 +0.6 |
| 40 | M12 | | | | 6.1 | 6.6 | | 51.1 | 51.7 | 57.5 | 58.6 +0.6 | 59.7 +0.7 |
| 50 | M12 | 3.3 | 4.7 | | 7.7 | 8.2 | 14.7 | 52.7 | 53.2 | 59.7 | 62.0 +0.6 | 63.1 +0.7 |
| 63 | M16 | | | | 7.5 | 8 | 14.6 | 56.5 | 57 | 63.6 | 65.4 +0.6 | 66.5 +0.7 |
| 80 | M16 | 4.7 | 6.1 | | 8.9 | 9.4 | 15.4 | 62.9 | 63.4 | 69.4 | 73.2 +0.6 | 74.3 +0.7 |
| 100 | M20x1.5 M20 | | | | 9 | 9.8 | 15.5 | 76 | 76.8 | 82.5 | 86.4 +0.6 | 88 +0.7 |
| 125 | M20 | – | 7 | – | 11 | – | – | 92 | – | – | 104.4 +0.6 | – |



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# Compact cylinders ADN, to ISO 21287

Technical data

FESTO

**Dimensions – Variants** Download CAD data ➔ **www.festo.com**

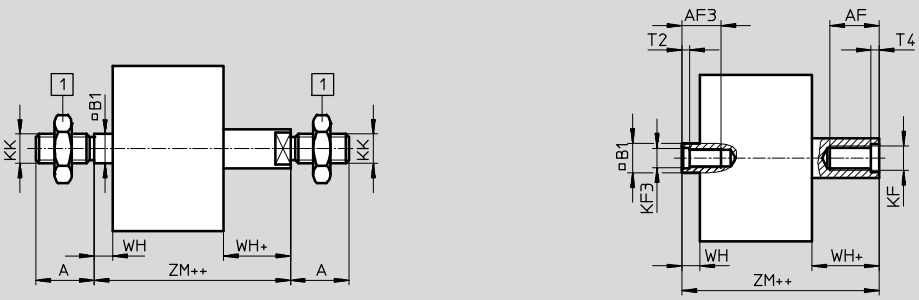
Q – Square piston rod




1 Hex nut DIN 439-B
only with ∅ 32 ... 125

\+ = plus stroke length

Q-S2 – Square, through piston rod

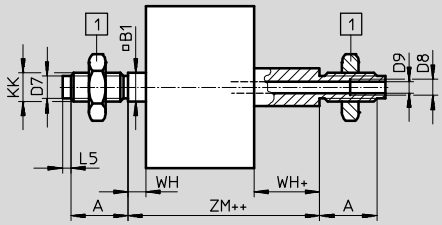



1 Hex nut DIN 439-B
only with ∅ 32 ... 125

\+ = plus stroke length

++ = plus 2x stroke length

Q-S20 – Square, through, hollow piston rod




\- - Note

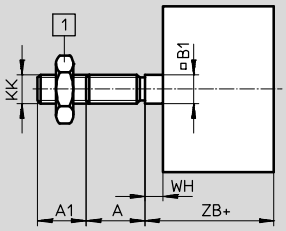
In combination with variants S2/S20, the piston rod is extended at one end on the square piston rod.

1 Hex nut DIN 439-B
only with ∅ 32 ... 125

\+ = plus stroke length

++ = plus 2x stroke length

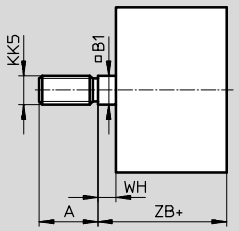
Q-K2 – Square piston rod with extended male thread




1 Hex nut DIN 439-B
only with ∅ 32 ... 125

\+ = plus stroke length

Q-K5 – Square, special piston rod thread




\+ = plus stroke length



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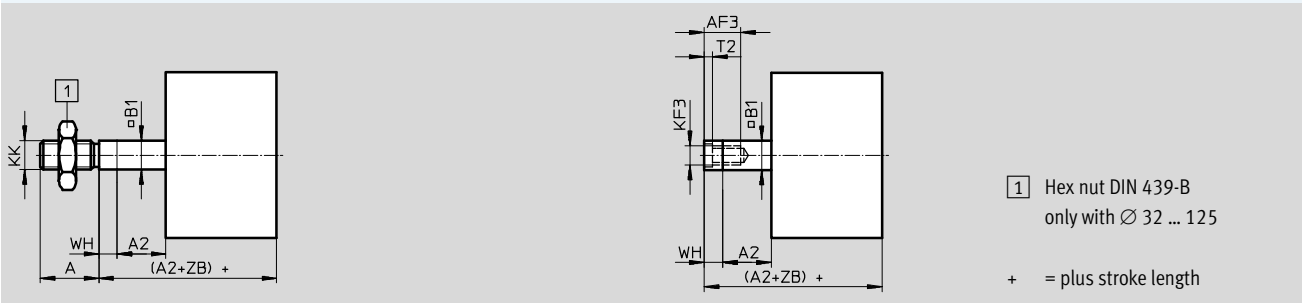
# Compact cylinders ADN, to ISO 21287

Technical data

FESTO

**Dimensions – Variants** Download CAD data ➔ **www.festo.com**

Q-K8 – Square, extended piston rod




1 Hex nut DIN 439-B only with ∅ 32 ... 125

\+ = plus stroke length

| ∅ [mm] | A −0.5 | A1 | A2 | AF min. | AF3 min. | B1 □ | D7 ∅ | D8 | D9 ∅ |
|---|---|---|---|---|---|---|---|---|---|
| 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 | | | | | | | | | |
| 32 | 19 | | 1 ...400 | 16 | 14 | 10 | 8 | | 4.5 |
| 40 | | | | | | | | | |
| 50 | 22 | | | 20 | 16 | 12 | 10 | | 6 |
| 63 | | | | | | | | | |
| 80 | 28 | 1 ... 30 | 1 ... 500 | 20 | 20 | 16 | – | G⅛ | 8 |
| 100 | | | | | | | | | |
| 125 | 40 | 1 ... 40 | | 25 | 24 | 20 | | G¼ | 11.7 |

| ∅ [mm] | L5 | KF | KF3 | KK | KK5 | T2 | WH +1.3 | ZB +1.2 | ZM |
|---|---|---|---|---|---|---|---|---|---|
| 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 | 2 | 5.5 | 42.5 | 49.5 +0.5 |
| 25 | | | | | M10 | | | 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 | M20 | 6.1 | 11 | 92 | 104.4 +0.6 |



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# Compact cylinders ADN, to ISO 21287

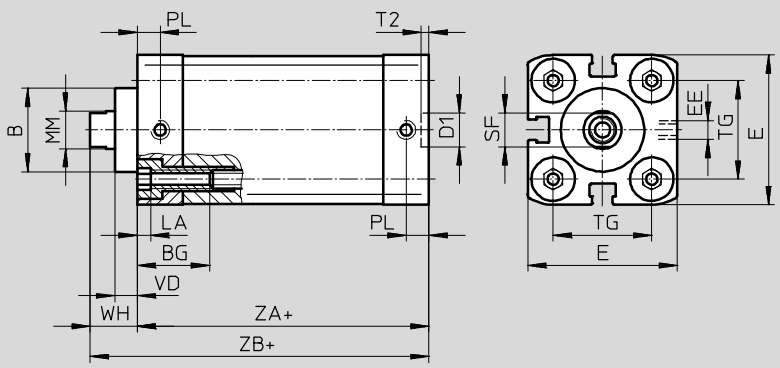
Technical data

FESTO

**Dimensions – Variants** Download CAD data ➔ **www.festo.com**

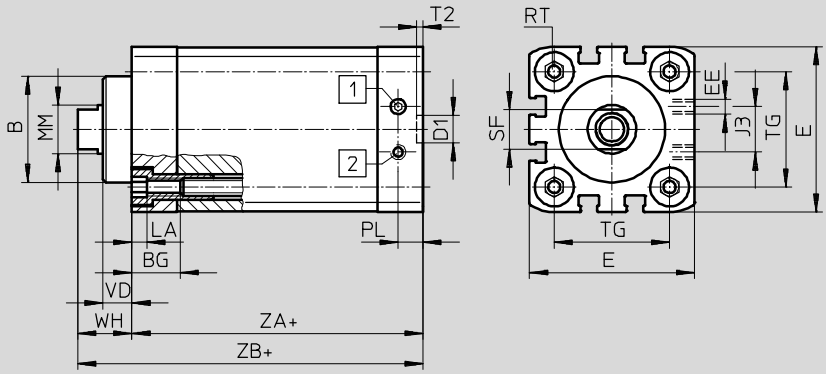
S1 – Reinforced piston rod

∅ 25




\+ = plus stroke length

∅ 40 ... 100




1 Cylinder extending
2 Cylinder retracting

\+ = plus stroke length

| ∅ [mm] | B ∅ f8 | BG min. | D1 ∅ H9 | E | EE | J3 | LA | MM ∅ | PL |
|---|---|---|---|---|---|---|---|---|---|
| 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 | | 12 | 75.5 +0.3 | G⅛ | 23 | | 20 | |
| 100 | 55 | 17 | | 113.5 +0.6 | | 40 | | 25 | 10.5 |

| ∅ [mm] | RT | SF h13 | T2 +0.1 | TG ±0.2 | VD | WH +1.3 | ZA ±0.3 | ZB +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 |



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# Compact cylinders ADN, to ISO 21287

Technical data

FESTO

**Dimensions – Variants** Download CAD data ➔ **www.festo.com**

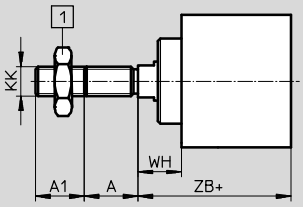
S1 – Reinforced piston rod




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

\+ = plus stroke length

S1-K2 – Reinforced piston rod with extended male thread




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

\+ = plus stroke length

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




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

\+ = plus stroke length

S1-K8 – Reinforced piston rod with extended piston rod




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

\+ = plus stroke length

| ∅ [mm] | A −0.5 | A1 | A2 | AF min. | AF5 min. | KF | KF5 | KK | KK5 | T3 | T4 | WH +1.3 | ZB +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 |



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# Compact cylinders ADN, to ISO 21287

Technical data

FESTO

| Ordering data | | | | | | | |
|---|---|---|---|---|---|---|---|
| Type | Piston ∅ | Stroke | I – Piston rod with female thread<br>P – Flexible cushioning rings/pads at both ends | | | A – Male piston rod thread<br>P – Flexible cushioning rings/pads at both ends | |
| | [mm] | [mm] | 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 |
| | | 50 | 536341 | ADN-16-50-I-P-A | | 536331 | ADN-16-50-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 |
| | | 50 | 536249 | ADN-20-50-I-P-A | | 536241 | ADN-20-50-A-P-A |
| | | 60 | 536362 | ADN-20-60-I-P-A | | 536352 | ADN-20-60-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 |
| | | 50 | 536266 | ADN-25-50-I-P-A | | 536258 | ADN-25-50-A-P-A |
| | | 60 | 536383 | ADN-25-60-I-P-A | | 536373 | ADN-25-60-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 |



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# Compact cylinders ADN, to ISO 21287

FESTO

Technical data

**Ordering data**

| Type | Piston ∅ | Stroke | I – Piston rod with female thread<br>P – Flexible cushioning rings/pads at both ends | | A – Male piston rod thread<br>P – Flexible cushioning rings/pads at both ends | |
|---|---|---|---|---|---|---|
| | [mm] | [mm] | 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 | 536350 | ADN-63-80-I-P-A | 536340 | ADN-63-80-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 |
| | | 80 | 536371 | ADN-80-80-I-P-A | 536361 | ADN-80-80-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 |



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# Compact cylinders ADN, to ISO 21287

Technical data

FESTO

| Ordering data | | | | | | | |
|---|---|---|---|---|---|---|---|
| Type | Piston ∅ | Stroke | I – Piston rod with female thread<br>PPS – Pneumatic cushioning, self-adjusting at both ends | | | A – Male piston rod thread<br>PPS – Pneumatic cushioning, self-adjusting at both ends | |
| | [mm] | [mm] | 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** |
| | | 80 | **572654** | **ADN-32-80-I-PPS-A** | | **572663** | **ADN-32-80-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** |
| | | 80 | **572672** | **ADN-40-80-I-PPS-A** | | **572681** | **ADN-40-80-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** |



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# Compact cylinders ADN, to ISO 21287

FESTO

Technical data

**Ordering data**

| Type | Piston ∅ | Stroke | I – Piston rod with female thread<br>PPS – Pneumatic cushioning, self-adjusting at both ends | | A – Male piston rod thread<br>PPS – Pneumatic cushioning, self-adjusting at both ends | |
|---|---|---|---|---|---|---|
| | [mm] | [mm] | 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** |



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# Compact cylinders ADN, to ISO 21287

FESTO

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. | **536 203** | **536 218** | **536 233** | **536 250** | **536 267** | **536 288** | | | | |
| | Function | Compact cylinder, double-acting, based on ISO 21287 | | | | | | | **ADN** | | ADN |
| | Piston ∅ [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 |
|---|---|---|---|---|---|---|---|---|---|---|---|



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# Compact cylinders ADN, to ISO 21287

FESTO

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 [mm] | Piston rod with extended male thread 1 … 10 | | 1 … 20 | | | | | **-…K2** | | |
| | 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 [mm] | Extended piston rod 1 … 300 | | | | 1 … 400 | | [3] | **-…K8** | | |
| | 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

[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**

– [ ] – [ ] – [ ] – [ ] – [ ] – [ ] – [ ] – [ ] – [ ] – [ ]



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# Compact cylinders ADN, to ISO 21287

FESTO

Ordering data – Modular products, basic version and variants

**Ordering table**

| Size | | 50 | 63 | 80 | 100 | 125 | Condi-tions | Code | | Enter code |
|---|---|---|---|---|---|---|---|---|---|---|
| M | Module No. | **536 309** | **536 330** | **536 351** | **536 372** | **536 393** | | | | |
| | Function | Compact cylinder, double-acting, based on ISO 21287 | | | | | | **ADN** | | ADN |
| | Piston ∅ [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** | |



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# Compact cylinders ADN, to ISO 21287

FESTO

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<br>M16 | M12<br>M16 | M16<br>M20<br>M20x1.5 | M16<br>M20<br>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<br>Restricted stroke | | | | | 4 | -K10 | | |
| | | [mm] | 2 … 400 | 5 … 400 | 5 … 500 | | | | | | |
| | 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

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**

– [ ] – [ ] – [ ] – [ ] – [ ] – [ ] – [ ] – [ ] – [ ] – [ ]



ALMOTION B.V. Nijverheidsweg 14 | 6662 NG Elst (Gld) | The Netherlands t +31(0)85 0491 777 e info@almotion.nl
www.almotion.nl | www.lineairegeleiding.nl | www.lineairegeleidingshop.nl | www.linearmotion.nl