



1.8 DPAR series round cylinder

This series of round cylinder meets the standard ISO 6432, the cylinder diameter is $\phi 20 \sim \phi 40$, the cylinder adopts high precision stainless steel steel pipe, the piston rod surface is pre-rolling hardening treatment, the rod with external thread or internal thread, after hard chromium, fine grinding treatment, has good rust prevention, wear resistance and other characteristics.



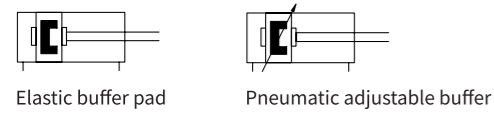
Summary

This series of round cylinder meets the standard ISO 6432, the cylinder diameter is $\phi 20 \sim \phi 40$, the cylinder adopts high precision stainless steel steel pipe, the piston rod surface is pre-rolling hardening treatment, the rod with external thread or internal thread, after hard chromium, fine grinding treatment, has good rust prevention, wear resistance and other characteristics.

Product feature

- Stainless steel material
- Low priming pressure and rapid response
- Free of oil
- Diversified bracket, convenient installation

Diagram



Models selection

| DPAR | -32 | ×50 | -PPV | A | -C |
|----------------|--|-----------------|--|---|--------------------------|
| Round cylinder | ① | ② | ③ | ④ | ⑤ |
| ① | -Diameter: 20 25 32 40 | | | | |
| ② | × Stroke ¹⁾ : 1...300, Refer to Datasheet | | | | |
| ③ | -Cushion: P=Elastic cushioning pads at both ends; PPV=Cushioning, adjustable at both ends; | | | | |
| ④ | Position sensing: A: With magnetic switch; None=Without magnetic switch | | | | |
| ⑤ | -Variant | | | | |
| | Piston rod | | The type of piston rod thread | | Cylinder type |
| | One side | Male thread | Standard (With platform on both sides) | H | Direct installation type |
| | 2 Through piston rod | F Female thread | B Flat end cover | C | Earrings are one size |

Note 1) Refer to Datasheet

Datasheet[mm]

| Diameter ϕ | Standard stroke | Max stroke (mm) |
|-----------------|--------------------------------------|-----------------|
| 20, 25, 32, 40 | 25 50 75 100 125 150 160 200 250 300 | 1...1000 |

Please confirm the applicable trip according to the use situation. Using a cylinder with the travel length shorter than the effective buffer length may cause the decrease of the With Air Cushion performance. Please contact the sales representative.

Technical parameter

| General technical data | | | | |
|--------------------------------|--|----------|----------|----------|
| Diameter ϕ mm | 20 | 25 | 32 | 40 |
| Standard | ISO 6432 | | | |
| Pneumatic connection | G1/8 | G1/8 | G1/8 | G1/4 |
| Piston rod thread | M8 | M10x1.25 | M10x1.25 | M14x1.25 |
| Design | Piston/piston rod/cylinder barrel | | | |
| Cushioning | Elastic cushioning rings/pads at both ends-P Cushioning, adjustable at both ends-PPV | | | |
| Position sensing ¹⁾ | Via magnetic switch | | | |
| Type of mounting | With accessories | | | |
| | Direct mounting | | | |
| Mounting position | Any | | | |

Note 1) The cylinder with position sensing must travel at least 10 mm to ensure reliable sensing to customize longer travel

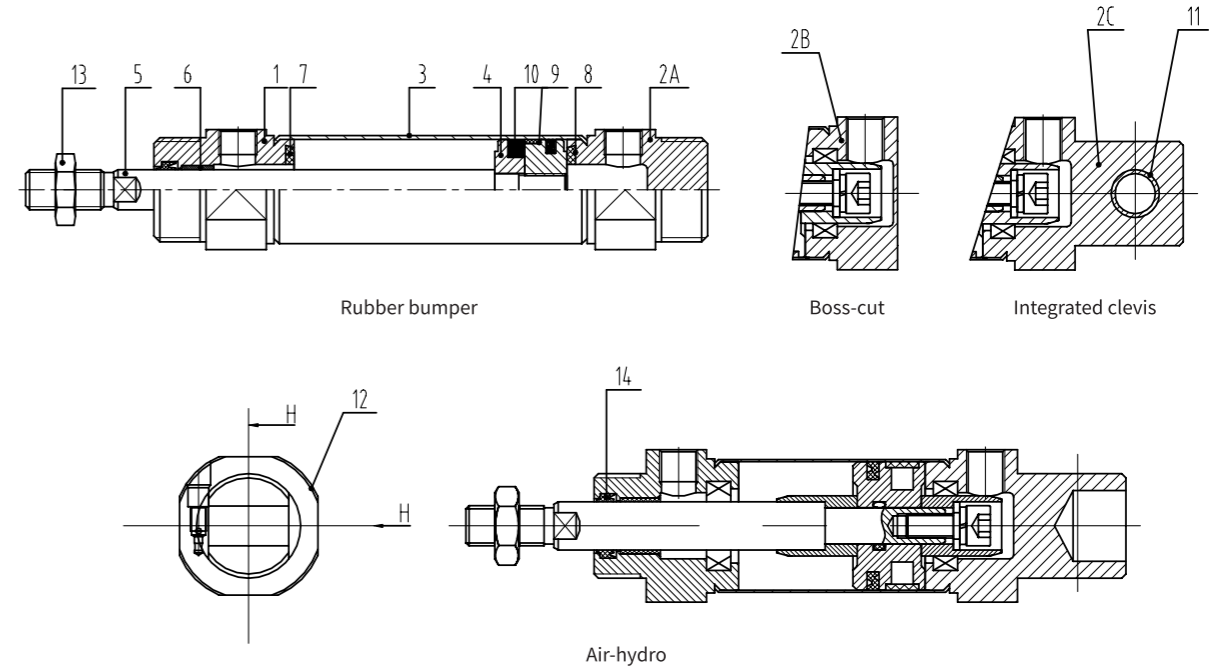
| Operating and environmental conditions | | | | |
|--|---|----|----|----|
| Diameter ϕ | 20 | 25 | 32 | 40 |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] | | | |
| Operating pressure MPa | 0.05 ~ 1.0 | | | |
| Ambient and fluid temperature °C | -20 ~ 80 (Unfrozen) | | | |
| Corrosion resistance class | 2 | | | |

-Technical parameter

| Speed [mm/s] | Measurements of less than 1 mm/s were not conducted | | | |
|--|---|-----|-----------|----|
| Diameter ϕ | 20 | 25 | 32 | 40 |
| Speed with stick-slip-free operation, horizontal, without load, at 0.6 MPa (6 bar) | 10... 100 | | 8 ... 100 | |
| Minimum speed, propulsion | 5.3 | < 1 | | |
| Minimum speed, and return | 4.7 | < 1 | | |

| Forces [N] and impact energy [J] | At 80 °C , these values will decrease by about 50% | | | |
|--|--|------|------|------|
| Diameter ϕ | 20 | 25 | 32 | 40 |
| Theoretical force at 0.6 MPa (6 bar), advancing | 189 | 295 | 483 | 753 |
| Theoretical force at 0.6 MPa (6 bar), retracting | 158 | 247 | 415 | 633 |
| Impact energy in the end positions | 0.20 | 0.30 | 0.40 | 0.70 |

Structure Diagram

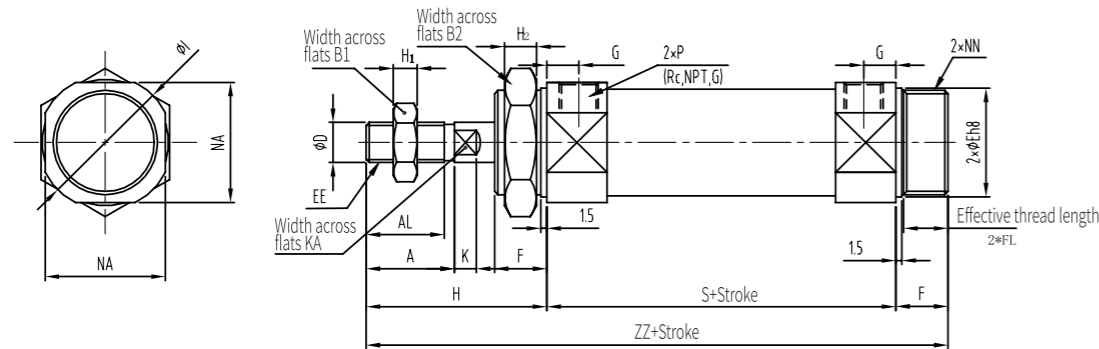


| Number | Name | Material | Note |
|--------|-----------------------------------|-----------------|-------------------------------|
| 1 | Pole side cylinder head | Aluminium alloy | Anodized refined |
| 2A | The rod-free side cylinder head A | Aluminium alloy | On both sides of the platform |
| 2B | The rod-free side cylinder head B | Aluminium alloy | Flat end cover |
| 2C | The rod-free side cylinder head C | Aluminium alloy | Earrings in one |
| 3 | Cylinder barrel | Stainless steel | |
| 4 | Piston | Aluminium alloy | |
| 5 | Piston rod | Carbon steel | Hard chrome plating |
| 6 | Guide sleeve | Bearing metal | |

| Number | Name | Material | Note |
|--------|------------------------------|---------------|------------------------------|
| 7 | Buffer | Resin | Aboved $\phi 25$ is the same |
| 8 | Buffer | Resin | |
| 9 | Wearing ring | Resin | |
| 11 | Axle sleeve used in earrings | Bearing metal | |
| 12 | Install nuts | Carbon steel | Nickelage |
| 13 | Pole end nut | Carbon steel | Zinc chromate |
| 10 | Magnet ring | — | |
| 14 | Rod seal ring | NBR | |

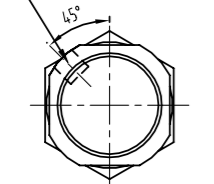
Dimensions

Basic type (A with platform on both sides)

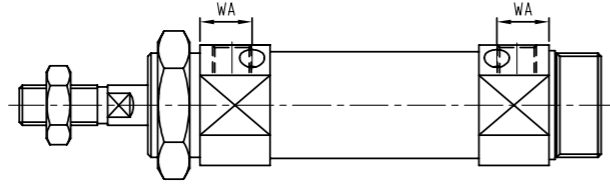


| φ[mm] | A | AL | B ₁ | B ₂ | D | E | F | FL | G | H | H ₁ | H ₂ | I | K | KA | MM | NA | NN | P | S | ZZ |
|-------|----|------|----------------|----------------|----|-----------------------------------|----|------|----|----|----------------|----------------|------|-----|----|------------|------|-----------|-----|----|-----|
| 20 | 18 | 15.5 | 13 | 26 | 8 | 20 ⁰ _{-0.033} | 13 | 10.5 | 8 | 41 | 5 | 8 | 28 | 5 | 6 | M8 × 1.25 | 24 | M20 × 1.5 | 1/8 | 62 | 116 |
| 25 | 22 | 19.5 | 17 | 32 | 10 | 26 ⁰ _{-0.033} | 13 | 10.5 | 8 | 45 | 6 | 8 | 33.5 | 5.5 | 8 | M10 × 1.25 | 30 | M26 × 1.5 | 1/8 | 62 | 120 |
| 32 | 22 | 19.5 | 17 | 32 | 12 | 26 ⁰ _{-0.033} | 13 | 10.5 | 8 | 45 | 6 | 8 | 37.5 | 5.5 | 10 | M10 × 1.25 | 34.5 | M26 × 1.5 | 1/8 | 64 | 122 |
| 40 | 24 | 21 | 22 | 41 | 14 | 32 ⁰ _{-0.039} | 16 | 13.5 | 11 | 50 | 8 | 10 | 46.5 | 7 | 12 | M14 × 1.5 | 42.5 | M32 × 2 | 1/4 | 88 | 154 |

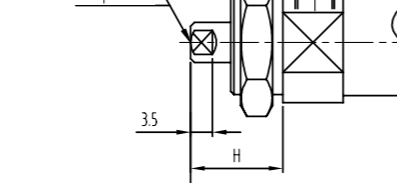
Cushion needle
(Width across flats 1.5)



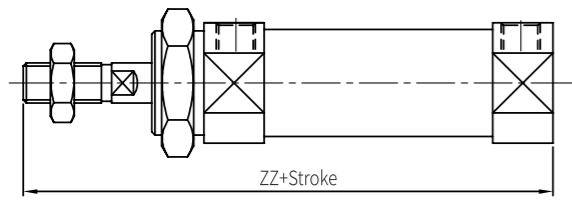
With Air Cushion



Female thread MM
Thread depth A1



Female rod end



Boss-cut

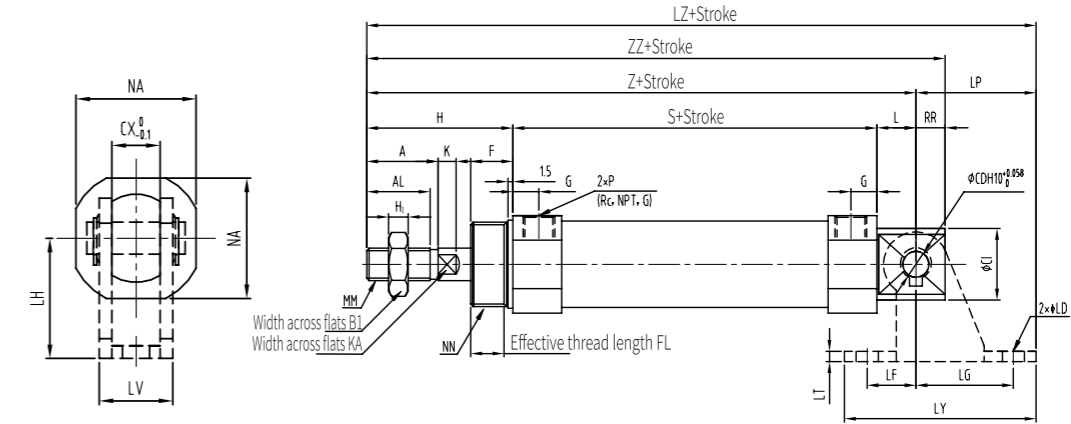
| mm | With Air Cushion | Boss-cut | Female rod end | | | |
|----------|------------------|----------|----------------|----|-----------|-----|
| Diameter | WA | ZZ | A1 | H | MM | ZZ |
| 20 | 12 | 103 | 8 | 20 | M4 × 0.7 | 95 |
| 25 | 12 | 107 | 8 | 20 | M5 × 0.8 | 95 |
| 32 | 11 | 109 | 12 | 20 | M6 × 1 | 97 |
| 40 | 16 | 138 | 13 | 21 | M8 × 1.25 | 125 |

Note: For the internal thread use, please use a thin wrench to set the piston rod. Select the appropriate washer according to the workpiece material to prevent the deformation of the rod end contact part.

Type of mounting

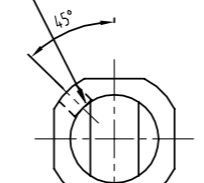
Integrated Clevis, one body size

Material: Anodized refined aluminum alloy

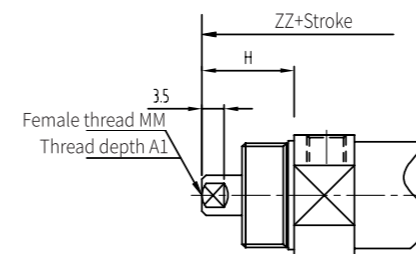
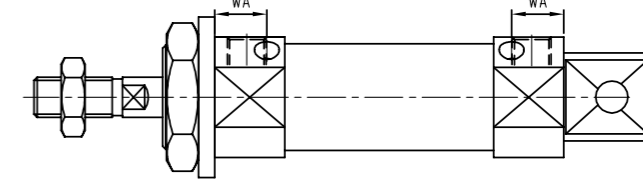


| Diameter | A | AL | I | CD | CI | CX | D | E | F | FL | G | H | I | K | KA | L | MM | NA | NN | P | RR | S | U | Z | ZZ | |
|----------|----|------|----|----|----|----|----|-----------------------------------|----|------|----|----|---|------|-----|----|----|------------|------|-----------|-----|----|----|------|-----|-----|
| 20 | 18 | 15.5 | 13 | 8 | 20 | 12 | 8 | 20 ⁰ _{-0.033} | 13 | 10.5 | 8 | 41 | 5 | 28 | 5 | 6 | 12 | M8 × 1.25 | 24 | M20 × 1.5 | 1/8 | 9 | 62 | 11.5 | 115 | 124 |
| 25 | 22 | 19.5 | 17 | 8 | 22 | 12 | 10 | 26 ⁰ _{-0.033} | 13 | 10.5 | 8 | 45 | 6 | 33.5 | 5.5 | 8 | 12 | M10 × 1.25 | 30 | M26 × 1.5 | 1/8 | 9 | 62 | 11.5 | 119 | 128 |
| 32 | 22 | 19.5 | 17 | 10 | 27 | 20 | 12 | 26 ⁰ _{-0.033} | 13 | 10.5 | 8 | 45 | 6 | 37.5 | 5.5 | 10 | 15 | M10 × 1.25 | 34.5 | M26 × 1.5 | 1/8 | 12 | 64 | 14.5 | 124 | 136 |
| 40 | 24 | 21 | 22 | 10 | 33 | 20 | 14 | 32 ⁰ _{-0.039} | 16 | 13.5 | 11 | 50 | 8 | 46.5 | 7 | 12 | 15 | M14 × 1.5 | 42.5 | M32 × 2 | 1/4 | 12 | 88 | 14.5 | 153 | 165 |

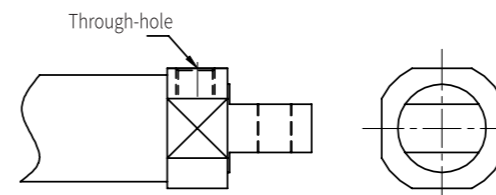
Cushion needle
(Width across flats 1.5)



With Air Cushion



Female rod end



Earrings are one size (90°) (V)

| mm | With Air Cushion | Female rod end | | | |
|----------|------------------|----------------|----|-----------|-----|
| Diameter | WA | A1 | H | MM | ZZ |
| 20 | 12 | 8 | 20 | M4 × 0.7 | 103 |
| 25 | 12 | 8 | 20 | M5 × 0.8 | 103 |
| 32 | 11 | 12 | 20 | M6 × 1 | 111 |
| 40 | 16 | 13 | 21 | M8 × 1.25 | 136 |

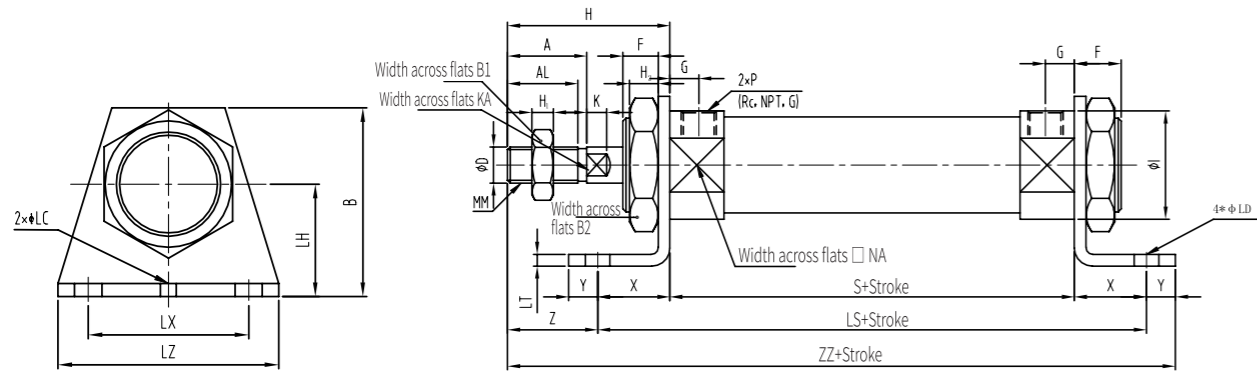
Application installation example

| Diameter | LD | LF | LG | LH | LP | LT | LV | LY | LZ |
|----------|-----|----|----|----|----|-----|------|----|-----|
| 20 | 6.8 | 15 | 30 | 30 | 37 | 3.2 | 18.4 | 59 | 152 |
| 25 | 6.8 | 15 | 30 | 30 | 37 | 3.2 | 18.4 | 59 | 156 |
| 32 | 9 | 15 | 40 | 40 | 50 | 4 | 28 | 75 | 174 |
| 40 | 9 | 15 | 40 | 40 | 50 | 4 | 28 | 75 | 203 |

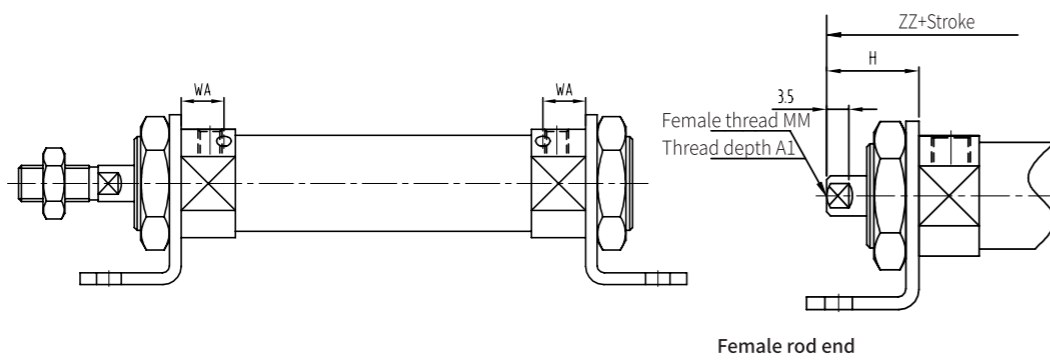
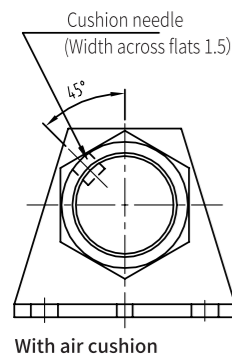
- Type of mounting

LB Axial foundation Type

Material: Galvanized steel



| Diameter | A | AL | B | B ₁ | B ₂ | D | F | G | H | H ₁ | H ₂ | I | K | KA | LC | LD | LH | LS | LT | LX | LZ | MM | NA | P | S | X | Y | Z | ZZ |
|----------|----|------|----|----------------|----------------|----|----|----|----|----------------|----------------|------|-----|----|----|-----|----|-----|-----|----|----|----------|------|-----|----|----|----|----|-----|
| 20 | 18 | 15.5 | 40 | 13 | 26 | 8 | 13 | 8 | 41 | 5 | 8 | 28 | 5 | 6 | 4 | 6.8 | 25 | 102 | 3.2 | 40 | 55 | M8×1.25 | 24 | 1/8 | 62 | 20 | 8 | 21 | 131 |
| 25 | 22 | 19.5 | 47 | 17 | 32 | 10 | 13 | 8 | 45 | 6 | 8 | 33.5 | 5.5 | 8 | 4 | 6.8 | 28 | 102 | 3.2 | 40 | 55 | M10×1.25 | 30 | 1/8 | 62 | 20 | 8 | 25 | 135 |
| 32 | 22 | 19.5 | 47 | 17 | 32 | 12 | 13 | 8 | 45 | 6 | 8 | 37.5 | 5.5 | 10 | 4 | 6.8 | 28 | 104 | 3.2 | 40 | 55 | M10×1.25 | 34.5 | 1/8 | 64 | 20 | 8 | 25 | 137 |
| 40 | 24 | 21 | 54 | 22 | 41 | 14 | 16 | 11 | 50 | 8 | 10 | 46.5 | 7 | 12 | 4 | 7 | 30 | 134 | 3.2 | 55 | 75 | M14×1.5 | 42.5 | 1/4 | 88 | 23 | 10 | 27 | 171 |

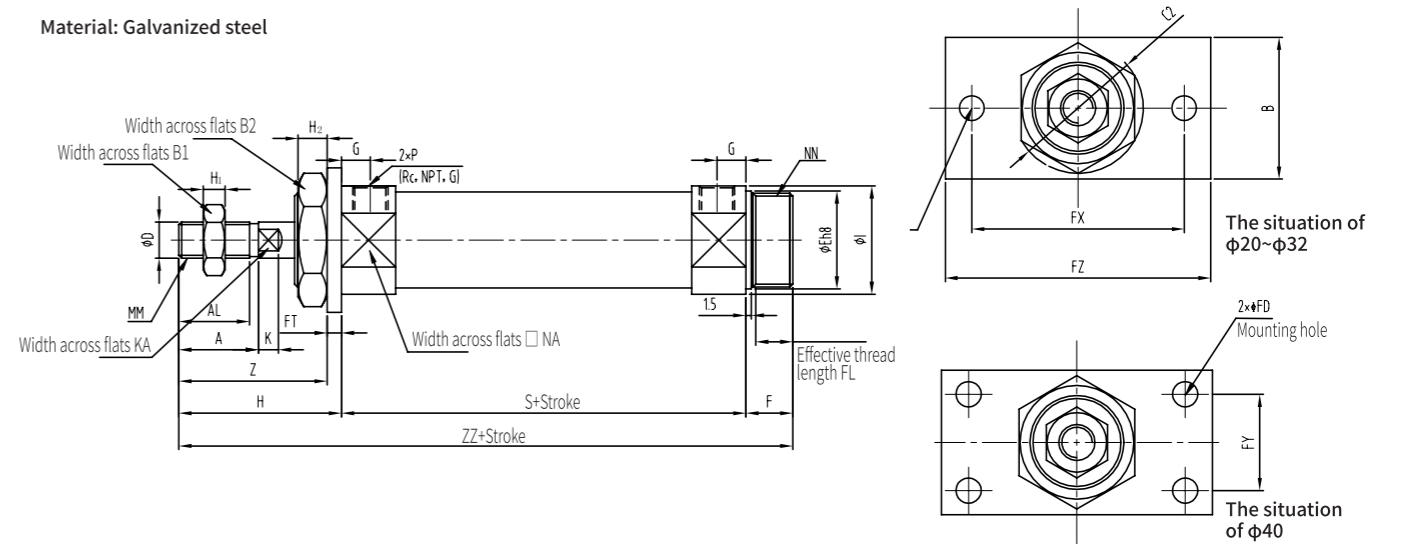


| mm | With air cushion | Female rod end | | | | |
|----------|------------------|----------------|----|---------|-----|--|
| Diameter | WA | A1 | H | MM | ZZ | |
| 20 | 12 | 8 | 20 | M4×0.7 | 110 | |
| 25 | 12 | 8 | 20 | M5×0.8 | 110 | |
| 32 | 11 | 12 | 20 | M6×1 | 112 | |
| 40 | 16 | 13 | 21 | M8×1.25 | 142 | |

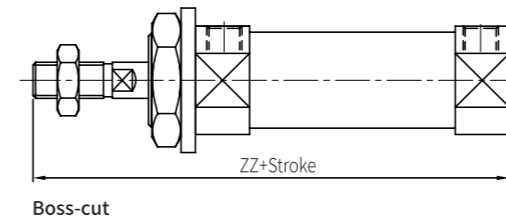
- Type of mounting

FA Front Flange Type

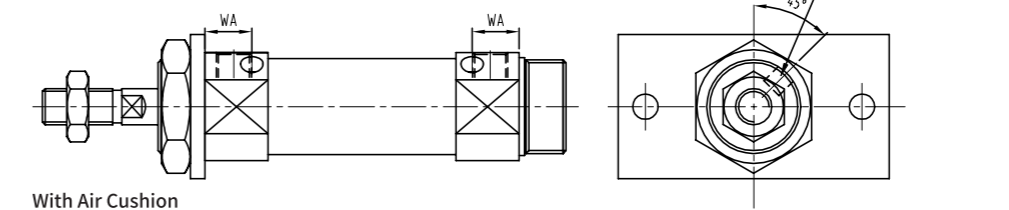
Material: Galvanized steel



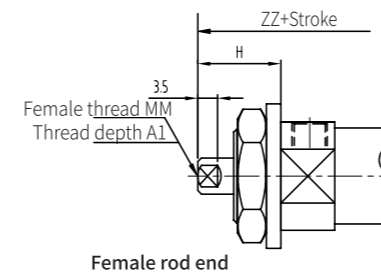
| Diameter | A | AL | B | B ₁ | B ₂ | D | E | F | FL | FD | FT | FX | FY | FZ | G | H | H ₁ | H ₂ | I | K | KA | MM | NA | NN | P | S | Z | ZZ |
|----------|----|------|----|----------------|----------------|----|----------------------------------|----|------|----|----|----|----|----|----|----|----------------|----------------|------|-----|----|----------|------|---------|-----|----|----|-----|
| 20 | 18 | 15.5 | 34 | 13 | 26 | 8 | 20 ⁰ _{0.033} | 13 | 10.5 | 7 | 4 | 60 | — | 75 | 8 | 41 | 5 | 8 | 28 | 5 | 6 | M8×1.25 | 24 | M20×1.5 | 1/8 | 62 | 37 | 116 |
| 25 | 22 | 19.5 | 40 | 17 | 32 | 10 | 26 ⁰ _{0.033} | 13 | 10.5 | 7 | 4 | 60 | — | 75 | 8 | 45 | 6 | 8 | 33.5 | 5.5 | 8 | M10×1.25 | 30 | M26×1.5 | 1/8 | 62 | 41 | 120 |
| 32 | 22 | 19.5 | 40 | 17 | 32 | 12 | 26 ⁰ _{0.033} | 13 | 10.5 | 7 | 4 | 60 | — | 75 | 8 | 45 | 6 | 8 | 37.5 | 5.5 | 10 | M10×1.25 | 34.5 | M26×1.5 | 1/8 | 64 | 41 | 122 |
| 40 | 24 | 21 | 52 | 22 | 41 | 14 | 32 ⁰ _{0.039} | 16 | 13.5 | 7 | 5 | 66 | 36 | 82 | 11 | 50 | 8 | 10 | 46.5 | 7 | 12 | M14×1.5 | 42.5 | M32×2 | 1/4 | 88 | 45 | 154 |



Boss-cut



With Air Cushion



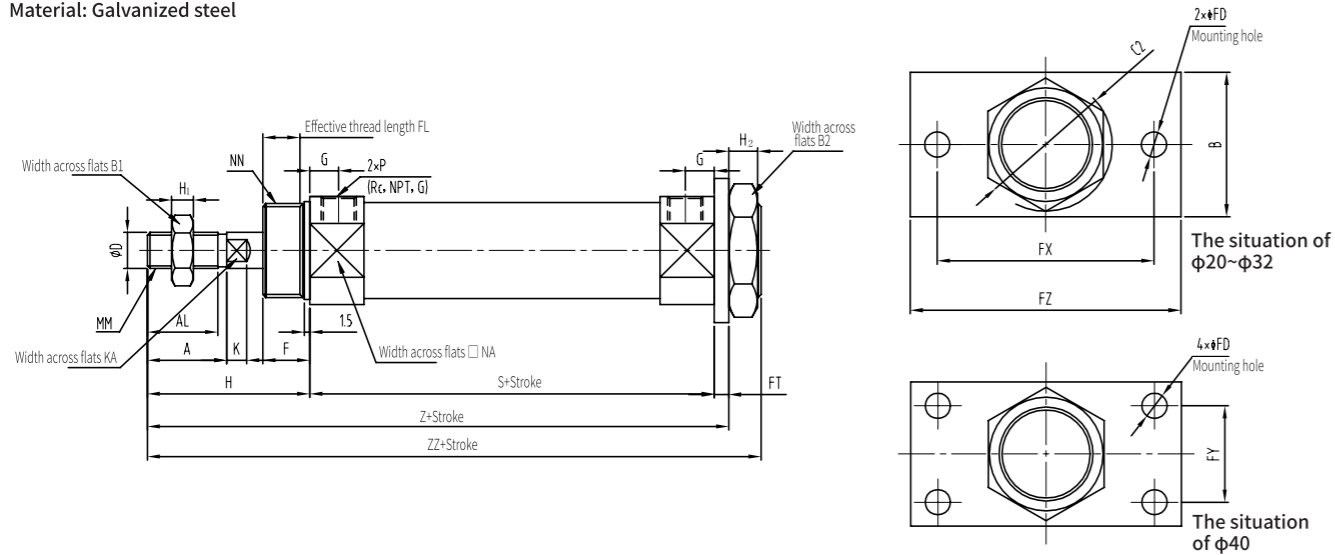
Female rod end

| mm | Boss-cut | With Air Cushion | Female rod end | | | |
|----------|----------|------------------|----------------|----|---------|-----|
| Diameter | ZZ | WA | A1 | H | MM | ZZ |
| 20 | 103 | 12 | 8 | 20 | M4×0.7 | 95 |
| 25 | 107 | 12 | 8 | 20 | M5×0.8 | 95 |
| 32 | 109 | 11 | 12 | 20 | M6×1 | 97 |
| 40 | 138 | 16 | 13 | 21 | M8×1.25 | 125 |

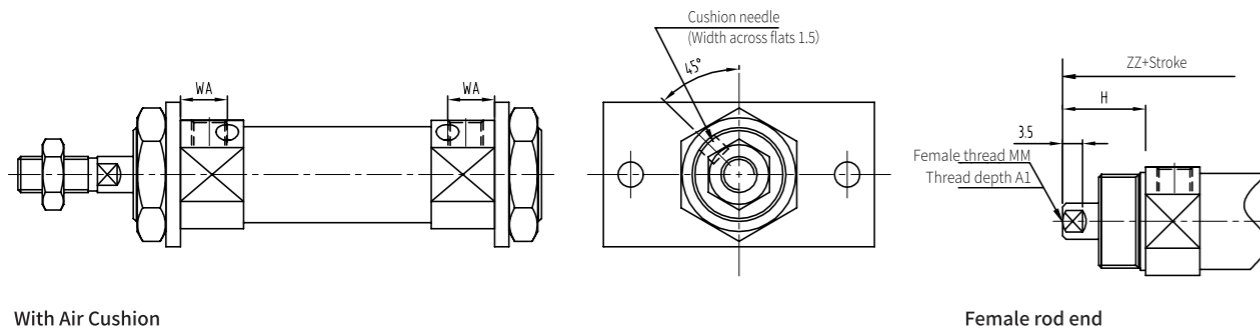
- Type of mounting

FB Rear Flange Type

Material: Galvanized steel



| Diameter | A | AL | B | B ₁ | B ₂ | C ₂ | D | E | F | FL | FD | FT | FX | FY | FZ | G | H | H ₁ | H ₂ | I | K | KA | MM | NA | NN | P | S | Z | ZZ |
|----------|----|------|----|----------------|----------------|----------------|----|-----------------------------------|----|------|----|----|----|----|----|----|----|----------------|----------------|------|-----|----|------------|------|-----------|-----|----|-----|-----|
| 20 | 18 | 15.5 | 34 | 13 | 26 | 30 | 8 | 20 ⁰ _{-0.033} | 13 | 10.5 | 7 | 4 | 60 | — | 75 | 8 | 41 | 5 | 8 | 28 | 5 | 6 | M8 × 1.25 | 24 | M20 × 1.5 | 1/8 | 62 | 107 | 116 |
| 25 | 22 | 19.5 | 40 | 17 | 32 | 37 | 10 | 26 ⁰ _{-0.033} | 13 | 10.5 | 7 | 4 | 60 | — | 75 | 8 | 45 | 6 | 8 | 33.5 | 5.5 | 8 | M10 × 1.25 | 30 | M26 × 1.5 | 1/8 | 62 | 111 | 120 |
| 32 | 22 | 19.5 | 40 | 17 | 32 | 37 | 12 | 26 ⁰ _{-0.033} | 13 | 10.5 | 7 | 4 | 60 | — | 75 | 8 | 45 | 6 | 8 | 37.5 | 5.5 | 10 | M10 × 1.25 | 34.5 | M26 × 1.5 | 1/8 | 64 | 113 | 122 |
| 40 | 24 | 21 | 52 | 22 | 41 | 47.3 | 14 | 32 ⁰ _{-0.039} | 16 | 13.5 | 7 | 5 | 66 | 36 | 82 | 11 | 50 | 8 | 10 | 46.5 | 7 | 12 | M14 × 1.5 | 42.5 | M32 × 2 | 1/4 | 88 | 143 | 154 |

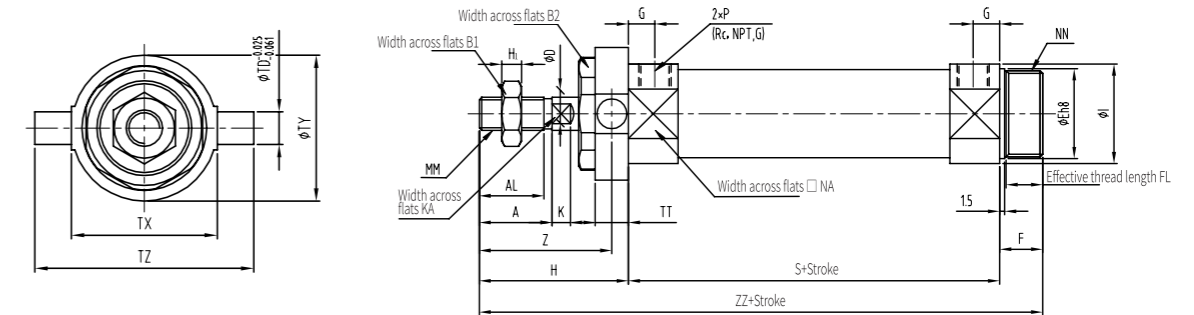


| | With Air Cushion | Female rod end | | | | |
|----------|------------------|----------------|----|-----------|-----|--|
| Diameter | WA | A1 | H | MM | ZZ | |
| 20 | 12 | 8 | 20 | M4 × 0.7 | 95 | |
| 25 | 12 | 8 | 20 | M5 × 0.8 | 95 | |
| 32 | 11 | 12 | 20 | M6 × 1 | 97 | |
| 40 | 16 | 13 | 21 | M8 × 1.25 | 125 | |

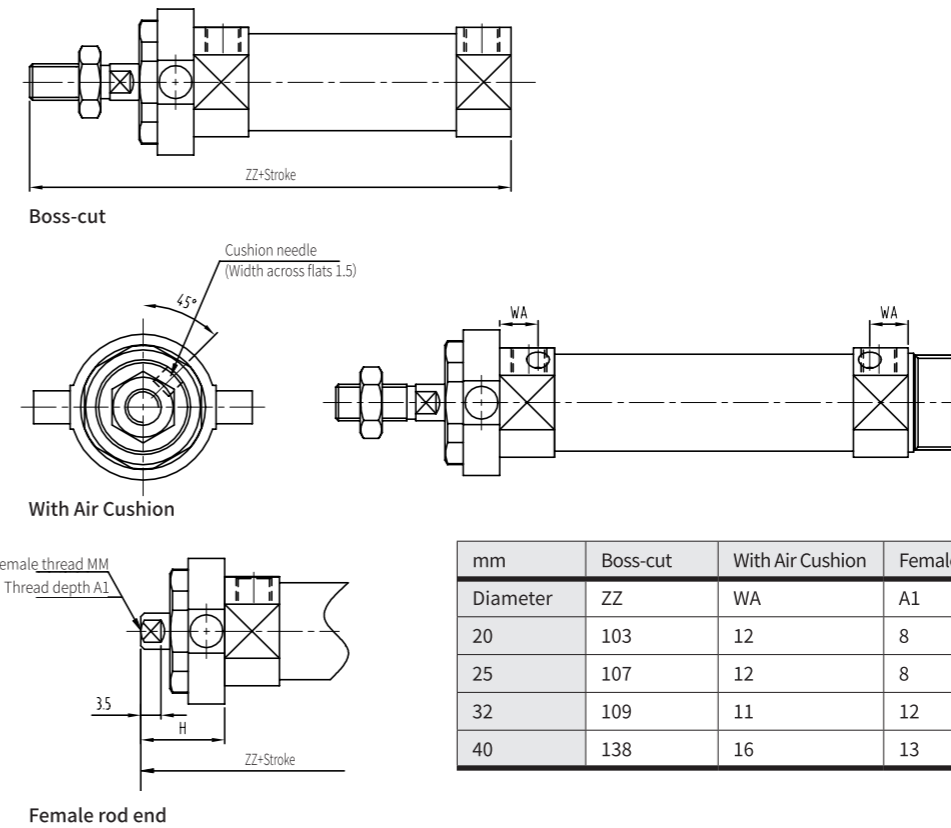
- Type of mounting

Rod-side ear shaft type (TA)

Material: Cast iron without electrolytic nickel plating



| Diameter | A | AL | B ₁ | B ₂ | D | E | F | FL | G | H | H ₁ | I | K | KA | MM | NA | NN | P | S | TD | TT | TX | TY | TZ | Z | ZZ |
|----------|----|------|----------------|----------------|----|-----------------------------------|----|------|----|----|----------------|------|-----|----|------------|------|-----------|-----|----|----|----|----|----|----|------|-----|
| 20 | 18 | 15.5 | 13 | 26 | 8 | 20 ⁰ _{-0.033} | 13 | 10.5 | 8 | 41 | 5 | 28 | 5 | 6 | M8 × 1.25 | 24 | M20 × 1.5 | 1/8 | 62 | 8 | 10 | 32 | 32 | 52 | 36 | 116 |
| 25 | 22 | 19.5 | 17 | 32 | 10 | 26 ⁰ _{-0.033} | 13 | 10.5 | 8 | 45 | 6 | 33.5 | 5.5 | 8 | M10 × 1.25 | 30 | M26 × 1.5 | 1/8 | 62 | 9 | 10 | 40 | 40 | 60 | 40 | 120 |
| 32 | 22 | 19.5 | 17 | 32 | 12 | 26 ⁰ _{-0.033} | 13 | 10.5 | 8 | 45 | 6 | 37.5 | 5.5 | 10 | M10 × 1.25 | 34.5 | M26 × 1.5 | 1/8 | 64 | 9 | 10 | 40 | 40 | 60 | 40 | 122 |
| 40 | 24 | 21 | 22 | 41 | 14 | 32 ⁰ _{-0.039} | 16 | 13.5 | 11 | 50 | 8 | 46.5 | 7 | 12 | M14 × 1.5 | 42.5 | M32 × 2 | 1/4 | 88 | 10 | 11 | 53 | 53 | 77 | 44.5 | 154 |

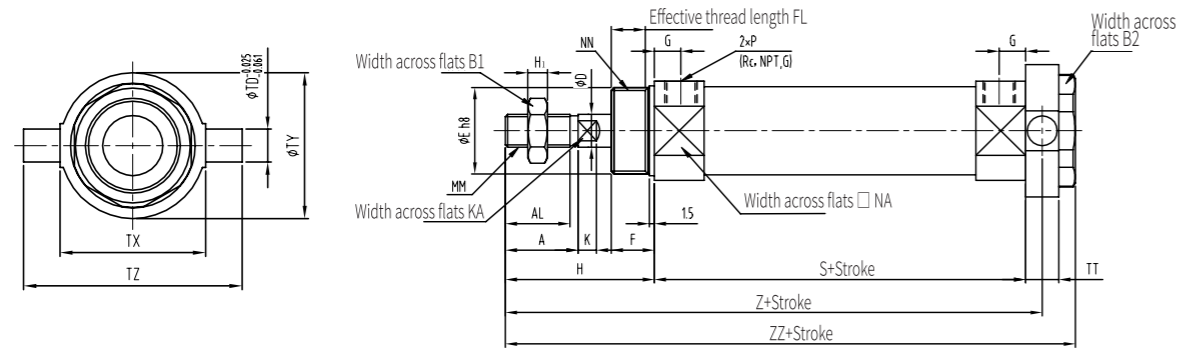


| mm | Boss-cut | With Air Cushion | Female rod end | | | |
|----------|----------|------------------|----------------|----|-----------|-----|
| Diameter | ZZ | WA | A1 | H | MM | ZZ |
| 20 | 103 | 12 | 8 | 20 | M4 × 0.7 | 95 |
| 25 | 107 | 12 | 8 | 20 | M5 × 0.8 | 95 |
| 32 | 109 | 11 | 12 | 20 | M6 × 1 | 97 |
| 40 | 138 | 16 | 13 | 21 | M8 × 1.25 | 125 |

- Type of mounting

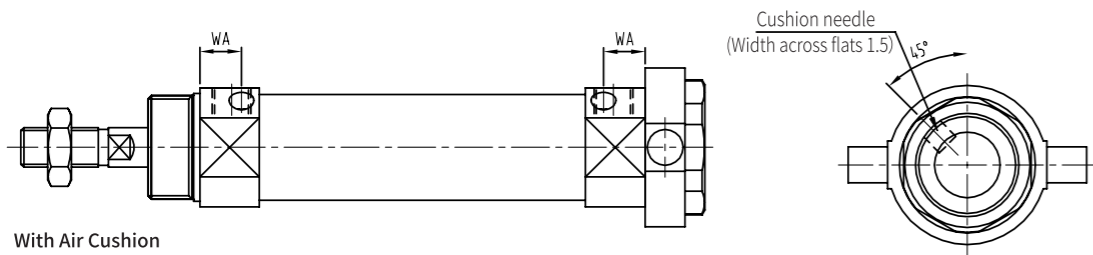
Head Trunnion (TB)

Material: Cast iron without electrolytic nickel plating

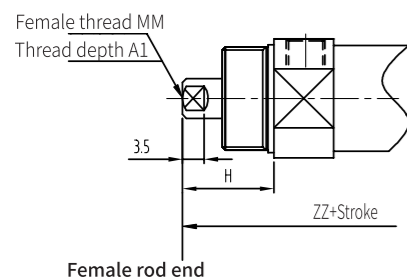


| Diameter | A | AL | B ₁ | B ₂ | D | E | F | FL | G | H | H ₁ | I | K | KA |
|----------|----|------|----------------|----------------|----|-----------------------------------|----|------|----|----|----------------|------|-----|----|
| 20 | 18 | 15.5 | 13 | 26 | 8 | 20 ⁰ _{-0.033} | 13 | 10.5 | 8 | 41 | 5 | 28 | 5 | 6 |
| 25 | 22 | 19.5 | 17 | 32 | 10 | 26 ⁰ _{-0.033} | 13 | 10.5 | 8 | 45 | 6 | 33.5 | 5.5 | 8 |
| 32 | 22 | 19.5 | 17 | 32 | 12 | 26 ⁰ _{-0.033} | 13 | 10.5 | 8 | 45 | 6 | 37.5 | 5.5 | 10 |
| 40 | 24 | 21 | 22 | 41 | 14 | 32 ⁰ _{-0.039} | 16 | 13.5 | 11 | 50 | 8 | 46.5 | 7 | 12 |

| Diameter | MM | NA | NN | P | S | TD | TT | TX | TY | TZ | Z | ZZ |
|----------|----------|------|---------|-----|----|----|----|----|----|----|-------|-----|
| 20 | M8×1.25 | 24 | M20×1.5 | 1/8 | 62 | 8 | 10 | 32 | 32 | 52 | 108 | 118 |
| 25 | M10×1.25 | 30 | M26×1.5 | 1/8 | 62 | 9 | 10 | 40 | 40 | 60 | 112 | 122 |
| 32 | M10×1.25 | 34.5 | M26×1.5 | 1/8 | 64 | 9 | 10 | 40 | 40 | 60 | 114 | 124 |
| 40 | M14×1.5 | 42.5 | M32×2 | 1/4 | 88 | 10 | 11 | 53 | 53 | 77 | 143.5 | 154 |



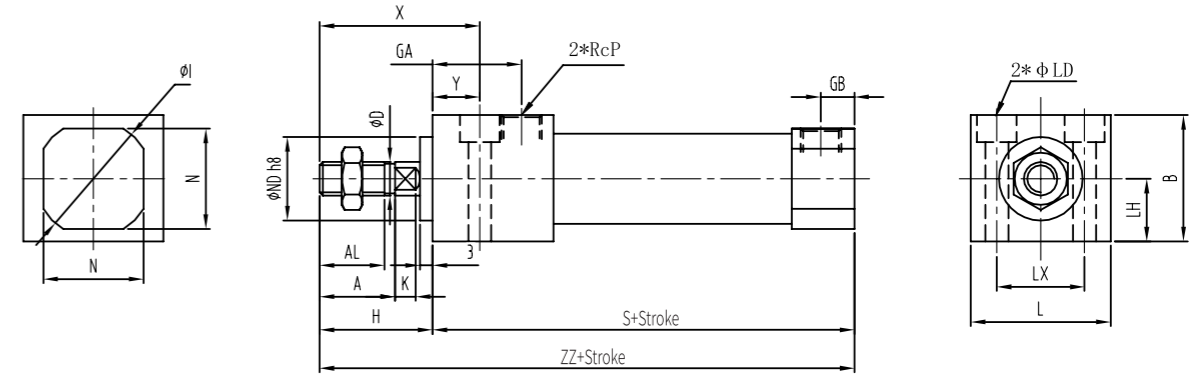
With Air Cushion



| mm | With Air Cushion | Female rod end | | | |
|----------|------------------|----------------|----|---------|-----|
| Diameter | WA | A ₁ | H | MM | ZZ |
| 20 | 12 | 8 | 20 | M4×0.7 | 97 |
| 25 | 12 | 8 | 20 | M5×0.8 | 97 |
| 32 | 11 | 12 | 20 | M6×1 | 97 |
| 40 | 16 | 13 | 21 | M8×1.25 | 125 |

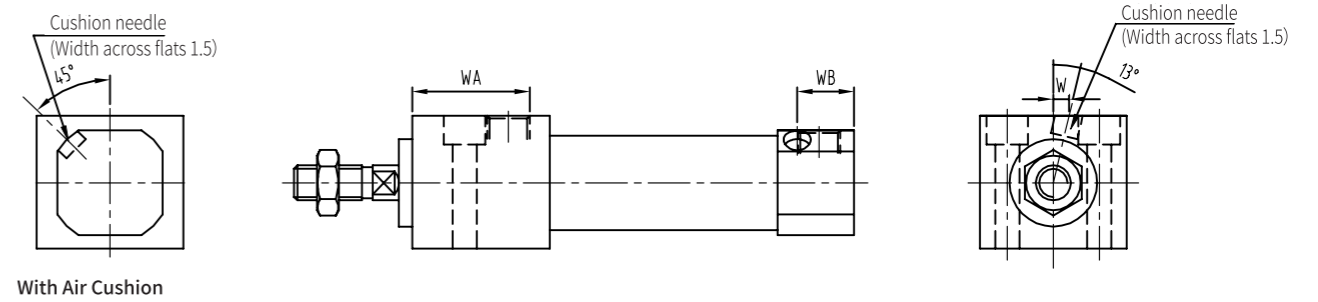
- Type of mounting

Direct installation type H

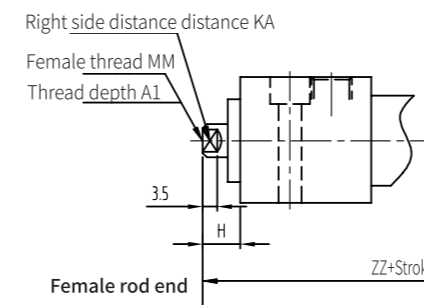


| Diameter | Stroke range | A | AL | B | B ₁ | D | GA | GB | H | H ₁ | I | K | KA | L |
|----------|--------------|----|------|------|----------------|----|----|----|----|----------------|------|-----|----|------|
| 20 | 1~150 | 18 | 15.5 | 30.3 | 13 | 8 | 22 | 8 | 27 | 5 | 28 | 5 | 6 | 33.5 |
| 25 | 1~200 | 22 | 19.5 | 36.3 | 17 | 10 | 22 | 8 | 31 | 6 | 33.5 | 5.5 | 8 | 39 |
| 32 | 1~200 | 22 | 19.5 | 42.3 | 17 | 12 | 22 | 8 | 31 | 6 | 37.5 | 5.5 | 10 | 47 |
| 40 | 1~300 | 24 | 21 | 52.3 | 22 | 14 | 27 | 11 | 34 | 8 | 46.5 | 7 | 12 | 58.5 |

| Diameter | Stroke range | LD | LH | LX | MM | N | ND | P | S | X | Y | ZZ |
|----------|--------------|---------------------------|----|----|----------|------|-----------------------------------|-----|-----|----|----|-----|
| 20 | 1~150 | ø5.5、ø9.5 sink depth 6.5 | 15 | 21 | M8×1.25 | 24 | 20 ⁰ _{-0.033} | 1/8 | 76 | 39 | 12 | 103 |
| 25 | 1~200 | ø6.6、ø11 sink depth 7.5 | 18 | 25 | M10×1.25 | 30 | 26 ⁰ _{-0.033} | 1/8 | 76 | 43 | 12 | 107 |
| 32 | 1~200 | ø9、ø14 sink depth 10 | 21 | 30 | M10×1.25 | 34.5 | 26 ⁰ _{-0.033} | 1/8 | 78 | 43 | 12 | 109 |
| 40 | 1~300 | ø11、ø17.5 sink depth 12.5 | 26 | 38 | M14×1.5 | 42.5 | 32 ⁰ _{-0.039} | 1/4 | 104 | 49 | 15 | 138 |



With Air Cushion



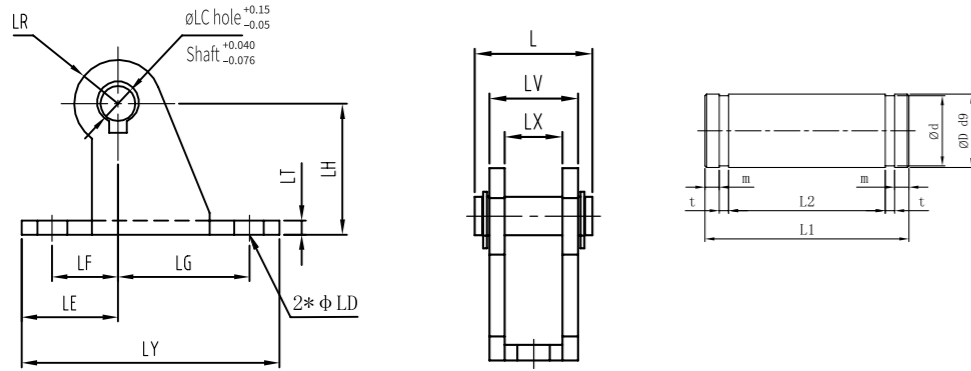
| mm | With Air Cushion | | | Female rod end | | | | |
|----------|------------------|----|------|----------------|----|----|---------|-----|
| Diameter | WA | WB | W | W ₁ | H | KA | MM | ZZ |
| 20 | 27 | 13 | 8.5 | 8 | 10 | 6 | M4×0.7 | 86 |
| 25 | 27 | 13 | 10.5 | 8 | 10 | 8 | M5×0.8 | 86 |
| 32 | 27 | 13 | 11.5 | 12 | 10 | 10 | M6×1 | 88 |
| 40 | 32 | 16 | 15 | 13 | 10 | 12 | M8×1.25 | 114 |

Note: When using the internal thread, please select the appropriate washer according to the workpiece material to prevent the deformation of the rod end contact part and tighten the piston rod with a thin wrench.

- Type of mounting

Clevis foot N-For Integrated Clevis and one body shape

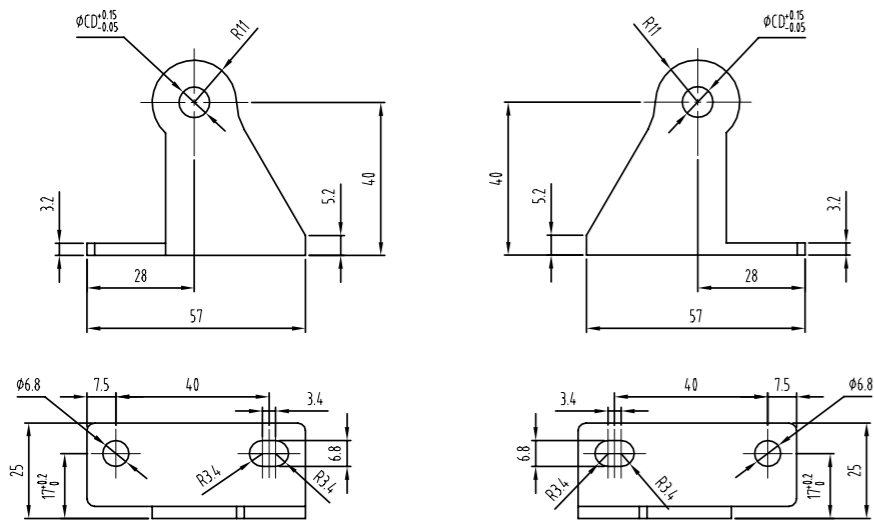
Material: Carbon steel galvanized



| Diameter | L | LC | LD | LE | LF | LG | LH | LR | LT | LX | LY | LV | Dd9 | d | L1 | L2 | m | t |
|----------|------|----|-----|----|----|----|----|----|-----|----|----|------|-----------------------------|-----|------|------|------|------|
| 20,25 | 24.5 | 8 | 6.8 | 22 | 15 | 30 | 30 | 10 | 3.2 | 12 | 59 | 18.4 | 8 ^{-0.040/-0.076} | 7.6 | 24.5 | 19.5 | 1.6 | 0.9 |
| 32,40 | 34 | 10 | 9 | 25 | 15 | 40 | 40 | 13 | 4 | 20 | 75 | 28 | 10 ^{-0.040/-0.076} | 9.6 | 34 | 29 | 1.35 | 1.15 |

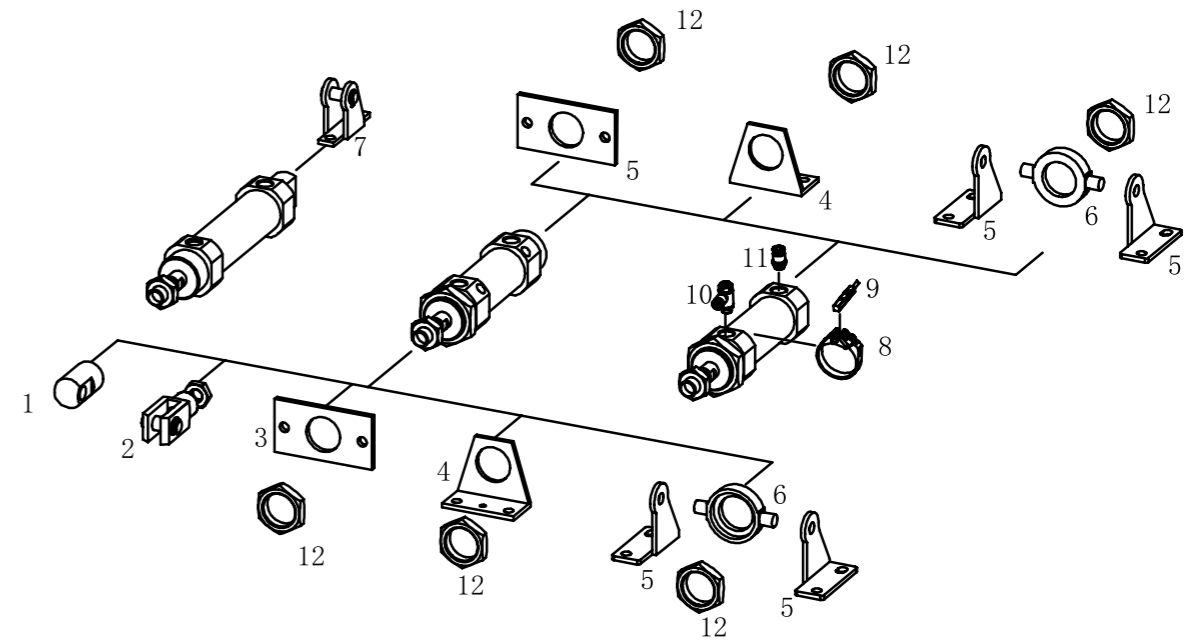
Ear shaft assembly U / T

Ear shaft: no electrolytic nickel plating for cast iron
Swing base (mounting part): steel nickel plating



| Diameter | CD |
|----------|----|
| 20 | 8 |
| 25,32 | 9 |
| 40 | 10 |

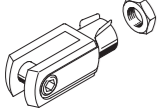

Peripherals overview




| List of installation components and accessories | | | |
|---|-------|----------------------------|--|
| Number | Code | Name | Description |
| [1] | I | I joint | |
| [2] | Y | Y joint | |
| [3] | FA\FB | Front / rear flange | φ20~32 (2 holes) , φ40 (4 holes) |
| [4] | LB | Axial Foundation | For bearing or end cap |
| [5] | T | Swing base | Cooperate, eartrunion installation assembly |
| [6] | U | Ear shaft | |
| [7] | N | Clevis foot | For Integrated Clevis and one body shape |
| [8] | CJ | Assembly | Fixed magnetic switch |
| [9] | C | Magnetic switch | Hold the hoop type |
| [10] | NSE | One-way flow control valve | For speed regulation |
| [11] | PC | Push-in fitting | Pass-through, for connection to a standard outer diameter windpipe |
| [12] | | Pole end nut | Use it together with the air cylinder |

Accessories

· Pole end

| Name | Diameter Ø | Code | Name | Diameter Ø | Code |
|---|------------|------------|---|------------|------------|
| Y joint | | | I joint | | |
|  | 20 | Y-M8×1.25 |  | 20 | I-M8×1.25 |
| | 25, 32 | Y-M10×1.25 | | 25, 32 | I-M10×1.25 |
| | 40 | I-M14×1.25 | | 40 | I-M14×1.25 |
| | | | | | |
| | | | | | |

· C Magnetic switch

| Magnetic switch is used for T-groove (With switch mounting assembly) | | | | | | |
|---|-----------------------------|------------------|----------------------------|----------------|-------------|----------------|
| | Type of mounting | Switching output | Connection | Cable length m | Type | For Diameter φ |
| Normal open | | | | | | |
|  | Tighten the hoop and screws | PNP | Magneto-resistive, 3-wire | 1.3 | CDX-15P-1.3 | 20~40 |
| | | NPN | Magneto-resistive, 3-wire | 1.3 | CDX-15N-1.3 | |
| | | R | Tongue spring type, 2-wire | 1.3 | CDX-15R-1.3 | |
| | | | | 2.5 | CDX-15R-2.5 | |

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