# Series 61 cylinders - Aluminium profile

Single and double-acting, magnetic, cushioned
Standard, low friction, low temperatures and tandem versions
ø 32, 40, 50, 63, 80, 100, 125 mm

**Series 61 cylinders have been designed to comply with the dimensions laid down in the ISO 15552 standards. A permanent magnet, mounted on the piston in these cylinders, enables information to be received regarding the piston position by means of proximity switches mounted in grooves along the cylinder profile. These grooves can be covered with a slot cover profile.**

This cylinder series is equipped with adjustable end-stroke cushioning. Moreover, they are equipped with a mechanical cushioning in order to reduce the impact of the piston as it reaches the end of the stroke.

- In compliance with ISO 15552 standards and with the previous DIN/ISO 6431 - VDMA 24562 standards
- Rolled stainless steel rod
- Clean design with adjustable pneumatic cushioning
- Available special versions

TANDEM:

- Double thrust and traction forces

LOW FRICTION:

- Friction force reduced by over 40%

LOW TEMPERATURE:

- Versions for -40°C and for -50°C

G VARIANT FOR DUSTY APPLICATIONS:

- Highly resistant to dust, cement, resin, mud and wood residue

## GENERAL DATA

| | |
|---|---|
| **Type of construction** | with tie-rods (inside the profile) |
| **Operation** | double-acting, single-acting, tandem. Low friction version: double-acting only. |
| **Materials** | standard: AL end-blocks and piston, rolled stainless steel AISI 420B rod, anodized AL profile tube, zinc-plated steel tie-rods and tie-rod nuts, PU seals;<br>low friction: standard materials with NBR piston seal and NBR rod seal (FKM rod seal on request)<br>low temperature: standard materials with chrome plated stainless steel AISI 420B rod, brass rod scraper ring, stainless steel AISI 303 nuts, stainless steel AISI 420B tie-rods, PU piston seals and NBR rod seal |
| **Type of mounting** | with front / rear flange, foot mounting, with front / rear / centre / swivel trunnion |
| **Stroke min - max** | 10 ÷ 2500 mm |
| **Operating temperature** | standard and low friction: 0°C ÷ 80°C (with dry air -20°C)<br>low temperature (-40°C version): -40°C ÷ 60°C (with dry air -40°C)<br>low temperature (-50°C version): -50°C ÷ 60°C (with dry air -50°C) |
| **Operating pressure** | 1 ÷ 10 bar (standard and low temperature); 0,1 ÷ 10 bar (low friction) |
| **Speed** | 10 ÷ 1000 mm/sec, no load (standard and low temperature); 5 ÷ 1000 mm/sec, no load (low friction) |
| **Fluid** | filtered air, without lubrication. For standard versions only: if lubricated air is used, it is recommended to use oil ISOVG32. Once applied the lubrication should never be interrupted. |



Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

## STANDARD STROKES FOR CYLINDERS SERIES 61

■ = Single-acting (standard and low temperature) ✖ = Double-acting (standard, low friction and low temperature)
Other strokes up to 2500 mm are available on request.

| STANDARD STROKES | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ø | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 200 | 250 | 300 | 320 | 400 | 500 |
| 32 | ■ ✖ | ■ ✖ | ■ ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ |
| 40 | ■ ✖ | ■ ✖ | ■ ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ |
| 50 | ■ ✖ | ■ ✖ | ■ ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ |
| 63 | ■ ✖ | ■ ✖ | ■ ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ |
| 80 | ■ ✖ | ■ ✖ | ■ ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ |
| 100 | | ■ ✖ | ■ ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ |
| 125 | | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ | ✖ |

## CODING EXAMPLE

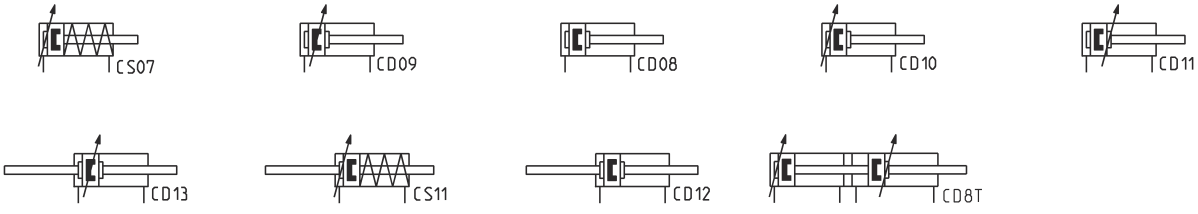
| 61 | M | 2 | P | 050 | A | 0200 | |
|---|---|---|---|---|---|---|---|

| | | |
|---|---|---|
| **61** | SERIES | |
| **M** | VERSION<br>M = standard, magnetic L = low friction, magnetic | |
| **2** | OPERATION<br>1 = single-acting, front spring (ø 32 ± ø 100)<br>2 = double-acting, front and rear cushioned<br>3 = double-acting, no cushion<br>4 = double-acting, rear cushioned<br>5 = double-acting, front cushioned<br>6 = double-acting, through-rod, front and rear cushioned<br>7 = single-acting, through-rod<br>8 = double-acting, through-rod, no cushion | PNEUMATIC SYMBOLS<br>CS07<br>CD09<br>CD08<br>CD10<br>CD11<br>CD13<br>CS11<br>CD12 |
| **P** | MATERIALS<br>P = see the GENERAL DATA table on the previous page<br>R = stainless steel AISI 420B tie-rods, stainless steel AISI 303 tie-rod nuts, other materials (see the previous page)<br>C = rolled stainless steel AISI 303 piston rod, stainless steel AISI 304 piston rod nut<br>U = rolled stainless steel AISI 303 piston rod, AISI 304 piston-rod nut, AISI 420B tie-rods, AISI 303 tie-rod nuts<br>W = rolled stainless steel AISI 304 piston rod, AISI304 piston-rod nut, AISI 420B tie-rods, AISI 303 tie-rod nuts<br>Z = chrome plated stainless steel AISI 420B rod, stainless steel AISI 304 rod nut, stainless steel AISI 420B tie-rods, stainless steel AISI 303 tie-rods nuts, seals for low temperature (-40°C), brass rod scraper<br>Y = chrome plated stainless steel AISI 420B rod, stainless steel AISI 304 rod nut, stainless steel AISI 420B tie-rods, stainless steel AISI 303 tie-rods nuts, seals for low temperature (-50°C), brass rod scraper | |
| **050** | BORE<br>032 = 32 mm - 040 = 40 mm - 050 = 50 mm - 063 = 63 mm - 080 = 80 mm - 100 = 100 mm - 125 = 125 mm | |
| **A** | CONSTRUCTION<br>A = standard with rod nut - RL = cylinder with rod lock | |
| **0200** | STROKE (see the table) | |
| | = standard V = FKM rod seal N = tandem (pneumatic symbol: CD8T) R = NBR rod seal<br>W = all FKM seals +130°C C = PU coated cylinder. Colour: Grey* L = low friction version without rod seal (rear supply only) **<br>( _ _ _ ) = extended piston rod _ _ _ mm G = with brass rod scraper (chrome plated stainless steel AISI 420B rod, NBR rod seal)<br><br>* Version C: available on request. For further information, please contact our technical dept.<br>** The possibility to order the cylinder without piston rod seal, further reduces the friction force. | |

Note: all double-acting cylinders are also available in the low friction version.

## PNEUMATIC SYMBOLS

The pneumatic symbols which have been indicated in the CODING EXAMPLE are shown below.





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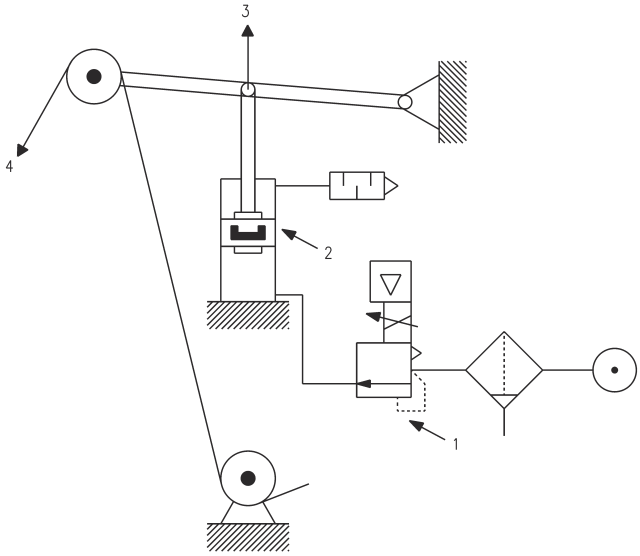
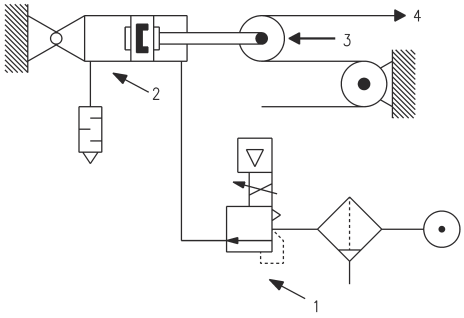
## Series 61 low friction cylinders - APPLICATION EXAMPLES




CYLINDER IN THRUST

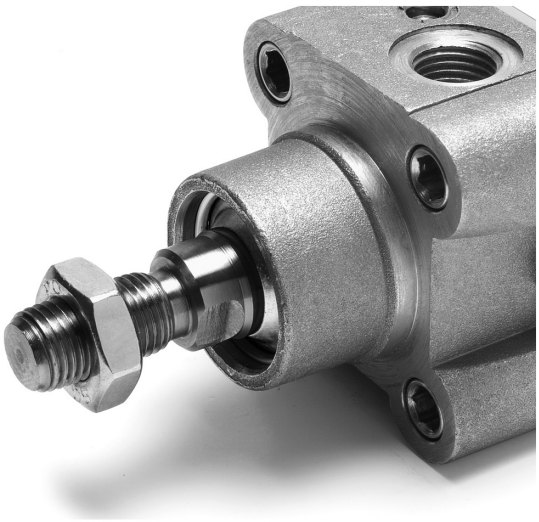
DRAWING NOTES:
1. Precision pressure regulator or proportional regulator
2. Low friction cylinder
3. Force direction
4. Band

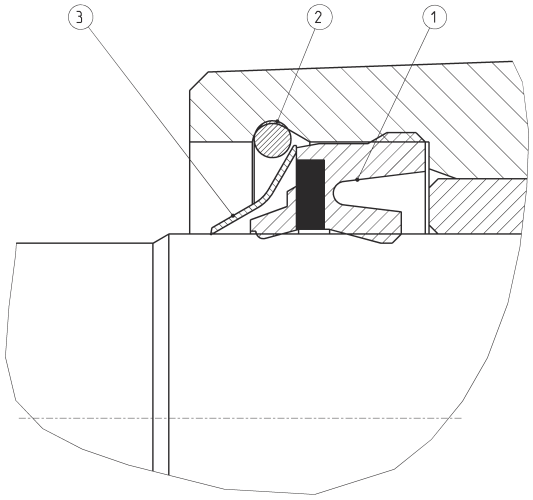



CYLINDER IN TRACTION

Note: in order to reach the highest performance, it is recommended to connect a precision pressure regulator or a proportional regulator with the low friction cylinder as shown in the drawing.

## Series 61 low temperatures cylinders - DETAIL





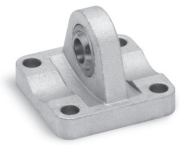

1 = rod seal
2 = flexible ring
3 = metal scraper

## CYLINDERS ACCESSORIES SERIES 61

Piston rod socket joint
Mod. GY

Piston rod lock nut
Mod. U

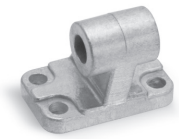
Clevis pin Mod. S



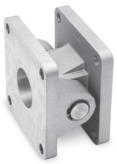
Rear trunnion ball-joint
Mod. R

Coupling piece
Mod. GKF

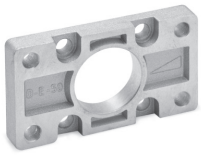
Swivel ball joint Mod. GA



90° male trunnion
Mod. ZC



Swivel Combination
Mod. C+L+S

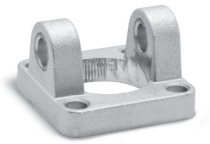


Front and rear flange Mod.
D-E

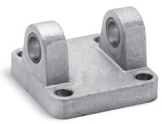
Self aligning rod
Mod. GK

Centre trunnion Mod. F

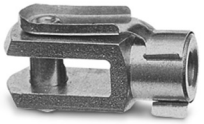
Foot mount Mod. B



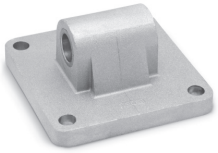
Front female trunnion
Mod. H and C-H



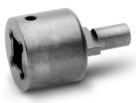
Rear female trunnion
Mod. C and C-H



Rod fork end Mod. G



Rear trunnion male
Mod. L



Key to disassemble
cylinders Ø 80 and 100

Counter bracket for
centre trunnion Mod. BF

All accessories are supplied separately, except for piston rod lock nut Mod. U



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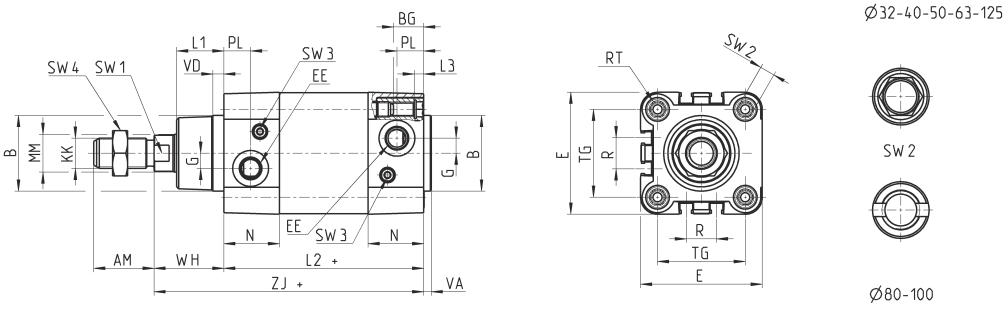
## Cylinders Series 61

N.B. : the single-acting cylinders, sizes ZJ and L2 are increased by 25 mm.

+ = add the stroke

Table note:
* = special key 80-62/8C
(see accessories)



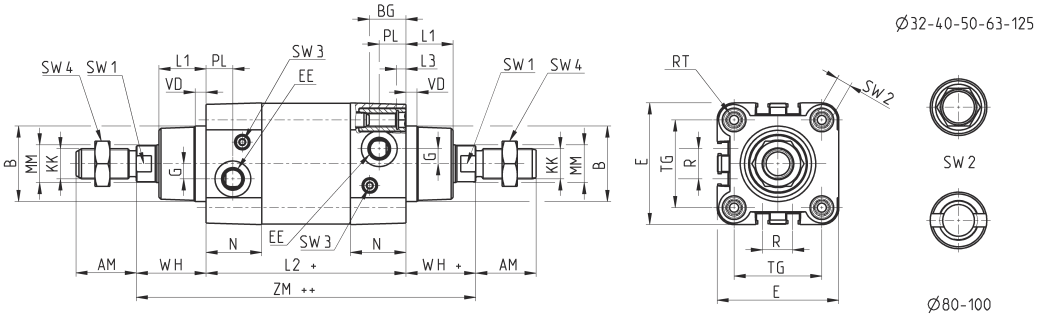

| DIMENSIONS | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ø | AM | B | BG | E | EE | G | KK | L1 | L2+ | L3 | MM | N | PL | R | RT | SW1 | SW2 | SW3 | SW4 | TG | VA | VD | WH | ZJ+ | front/rear cushion stroke |
| **32** | 22 | 30 | 16 | 46 | G1/8 | 5 | M10x1,25 | 18 | 94 | 5 | 12 | 26 | 14 | 13 | M6 | 10 | 6 | 2 | 17 | 32,5 | 4 | 5 | 26 | 120 | 17 / 12 |
| **40** | 24 | 35 | 16 | 55 | G1/4 | 5 | M12x1,25 | 21 | 105 | 5 | 16 | 29 | 15 | 13,5 | M6 | 13 | 6 | 2 | 19 | 38 | 4 | 5 | 30 | 135 | 20 / 17 |
| **50** | 32 | 40 | 16 | 64,5 | G1/4 | 8 | M16x1,5 | 25 | 106 | 5 | 20 | 29,5 | 15 | 16 | M8 | 17 | 8 | 3 | 24 | 46,5 | 4 | 6 | 37 | 143 | 15 / 14 |
| **63** | 32 | 45 | 16 | 75 | G3/8 | 8 | M16x1,5 | 26 | 121 | 5 | 20 | 36,5 | 21 | 28 | M8 | 17 | 8 | 3 | 24 | 56,5 | 4 | 6 | 37 | 158 | 17 / 16 |
| **80** | 40 | 45 | 19 | 93 | G3/8 | 8 | M20x1,5 | 30 | 128 | 0 | 25 | 36 | 21 | 30 | M10 | 22 | * | 5 | 30 | 72 | 4 | 7 | 46 | 174 | 20 / 20 |
| **100** | 40 | 55 | 19,5 | 110 | G1/2 | 8 | M20x1,5 | 35 | 138 | 0 | 25 | 38,5 | 23 | 40 | M10 | 22 | * | 5 | 30 | 89 | 4 | 7 | 51 | 189 | 21 / 19 |
| **125** | 54 | 60 | 23 | 135 | G1/2 | 10,5 | M27x2 | 42 | 160 | 0 | 32 | 43 | 23,5 | 50 | M12 | 27 | 12 | 4 | 41 | 110 | 6 | 8 | 65 | 225 | 26 / 25 |

## Cylinders Series 61 - through-rod

Note: the single-acting cylinders sizes ZM and L2 are increased by 25 mm.

+ = add the stroke once
++ = add the stroke twice

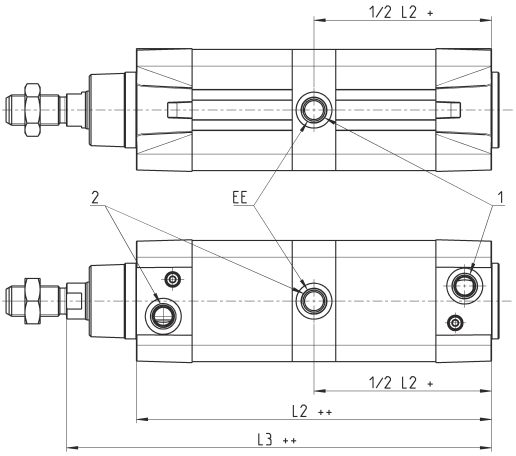
Table note:
* = special key 80-62/8C
(see accessories)




| DIMENSIONS | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ø | AM | B | BG | E | EE | G | KK | L1 | L2+ | L3 | MM | N | PL | R | RT | SW1 | SW2 | SW3 | SW4 | TG | VD | WH | ZM++ | front/rear cushion stroke |
| **32** | 22 | 30 | 16 | 46 | G1/8 | 5 | M10x1,25 | 18 | 94 | 5 | 12 | 26 | 14 | 13 | M6 | 10 | 6 | 2 | 17 | 32,5 | 5 | 26 | 146 | 17 / 12 |
| **40** | 24 | 35 | 16 | 55 | G1/4 | 5 | M12x1,25 | 21 | 105 | 5 | 16 | 29 | 15 | 13,5 | M6 | 13 | 6 | 2 | 19 | 38 | 5 | 30 | 165 | 20 / 17 |
| **50** | 32 | 40 | 16 | 64,5 | G1/4 | 8 | M16x1,5 | 25 | 106 | 5 | 20 | 29,5 | 15 | 16 | M8 | 17 | 8 | 3 | 24 | 46,5 | 6 | 37 | 180 | 15 / 14 |
| **63** | 32 | 45 | 16 | 75 | G3/8 | 8 | M16x1,5 | 26 | 121 | 5 | 20 | 36,5 | 21 | 28 | M8 | 17 | 8 | 3 | 24 | 56,5 | 6 | 37 | 195 | 17 / 16 |
| **80** | 40 | 45 | 19 | 93 | G3/8 | 8 | M20x1,5 | 30 | 128 | 0 | 25 | 36 | 21 | 30 | M10 | 22 | * | 5 | 30 | 72 | 7 | 46 | 220 | 20 / 20 |
| **100** | 40 | 55 | 19,5 | 110 | G1/2 | 8 | M20x1,5 | 35 | 138 | 0 | 25 | 38,5 | 23 | 40 | M10 | 22 | * | 5 | 30 | 89 | 7 | 51 | 240 | 21 / 19 |
| **125** | 54 | 60 | 23 | 135 | G1/2 | 10,5 | M27x2 | 42 | 160 | 0 | 32 | 43 | 23,5 | 50 | M12 | 27 | 12 | 4 | 41 | 110 | 8 | 65 | 290 | 26 / 25 |

## Cylinders Series 61 - tandem version

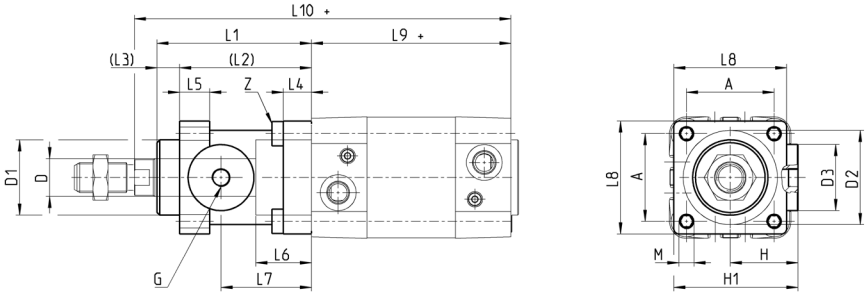
+ = add the stroke once
++ = add the stroke twice
1 = Cylinder's outlet
2 = Cylinder's return




| DIMENSIONS | | | |
|---|---|---|---|
| Ø | EE | L2+ | L3+ |
| **32** | G1/8 | 172,5 | 197,5 |
| **40** | G1/4 | 191,5 | 221,5 |
| **50** | G1/4 | 188 | 225 |
| **63** | G3/8 | 204 | 241 |
| **80** | G3/8 | 225,5 | 271,5 |
| **100** | G1/2 | 231 | 282 |
| **125** | G1/2 | 264 | 329 |

## Cylinders Series 61 with rod lock

+ = add the stroke




| DIMENSIONS | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ø | øD | øD1 | øD2 | øD3 | A | G | H | H1 | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9+ | L10+ | M | Z |
| **32** | 12 | 30.5 | 35 | 25 | 32,5 | M5 | 25,5 | 46,5 | 58 | 48 | 10 | 8 | 13 | 20,5 | 34 | 45 | 94 | 160 | M6 | M6x20 |
| **40** | 16 | 35 | 40 | 28 | 38 | G1/8 | 30 | 53 | 65 | 55 | 10 | 8 | 13 | 22,5 | 38 | 50 | 105 | 178 | M6 | M6x20 |
| **50** | 20 | 40 | 50 | 35 | 46,5 | G1/8 | 36 | 64 | 82 | 70 | 12 | 15 | 16 | 29,5 | 48 | 60 | 106 | 200 | M8 | M6x20 |
| **63** | 20 | 45 | 60 | 38 | 56,5 | G1/8 | 40 | 75 | 82 | 70 | 12 | 15 | 16 | 29,5 | 49,5 | 70 | 121 | 215 | M8 | M8x30 |
| **80** | 25 | 45 | 80 | 48 | 72 | G1/8 | 50 | 95 | 110 | 90 | 20 | 18 | 20 | 35 | 61 | 90 | 128 | 254 | M10 | M10x35 |
| **100** | 25 | 55 | 100 | 58 | 89 | G1/8 | 58 | 110,5 | 115 | 100 | 15 | 18 | 20 | 39 | 69 | 105 | 138 | 269 | M10 | M10x35 |
| **125** | 32 | 60 | 130 | 65 | 110 | G1/8 | 80 | 150 | 167 | 122 | 45 | 22 | 30 | 51 | 86,5 | 140 | 160 | 350 | M12 | M12x40 |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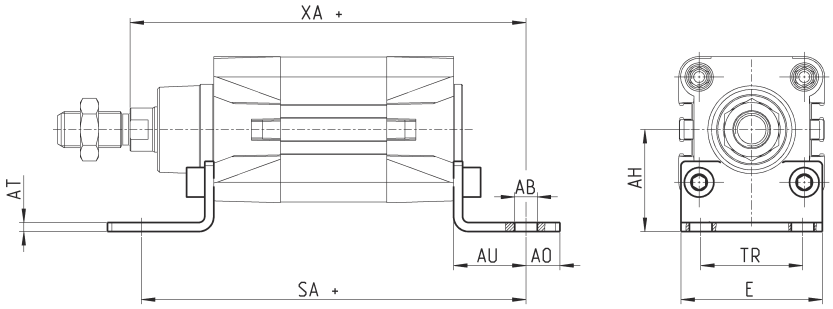
## Foot mount Mod. B

Material: zinc-plated steel

Supplied with:
2x feet
4x screws

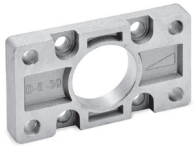
+ = add the stroke




| Mod. | Ø | AT | SA+ | XA+ | TR | E | AB | AH | AO | AU | torque force |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **B-41-32** | 32 | 4 | 142 | 144 | 32 | 45 | 7 | 32 | 11 | 24 | 6 Nm |
| **B-41-40** | 40 | 4 | 161 | 163 | 36 | 53,5 | 10 | 36 | 15 | 28 | 6 Nm |
| **B-41-50** | 50 | 4 | 170 | 175 | 45 | 62,5 | 10 | 45 | 15 | 32 | 13 Nm |
| **B-41-63** | 63 | 5 | 185 | 190 | 50 | 73 | 10 | 50 | 15 | 32 | 13 Nm |
| **B-41-80** | 80 | 6 | 210 | 216 | 63 | 92 | 12 | 63 | 20 | 41 | 19 Nm |
| **B-41-100** | 100 | 6 | 220 | 230 | 75 | 108,5 | 14,5 | 71 | 25 | 41 | 22 Nm |
| **B-41-125** | 125 | 7 | 250 | 270 | 90 | 132 | 16,5 | 90 | 25 | 45 | 26 Nm |

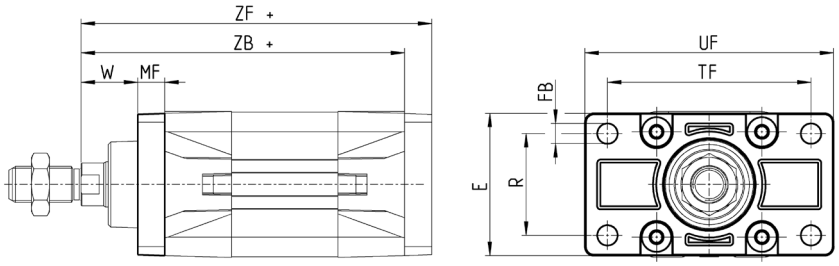
## Front and rear flange Mod. D-E

Material: Aluminium



Supplied with:
1x flange
4x screws

+ = add the stroke




| Mod. | Ø | W | MF | ZB+ | TF | R | UF | E | FB | ZF+ | torque force |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **D-E-41-32** | 32 | 16 | 10 | 120 | 64 | 32 | 86 | 45 | 7 | 130 | 6 Nm |
| **D-E-41-40** | 40 | 20 | 10 | 135 | 72 | 36 | 88 | 52 | 9 | 145 | 6 Nm |
| **D-E-41-50** | 50 | 25 | 12 | 143 | 90 | 45 | 110 | 63 | 9 | 155 | 13 Nm |
| **D-E-41-63** | 63 | 25 | 12 | 158 | 100 | 50 | 116 | 73 | 9 | 170 | 13 Nm |
| **D-E-41-80** | 80 | 30 | 16 | 174 | 126 | 63 | 148 | 95 | 12 | 190 | 19 Nm |
| **D-E-41-100** | 100 | 35 | 16 | 189 | 150 | 75 | 176 | 115 | 14 | 205 | 22 Nm |
| **D-E-41-125** | 125 | 45 | 20 | 225 | 180 | 90 | 224 | 135 | 16 | 245 | 26 Nm |



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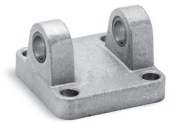
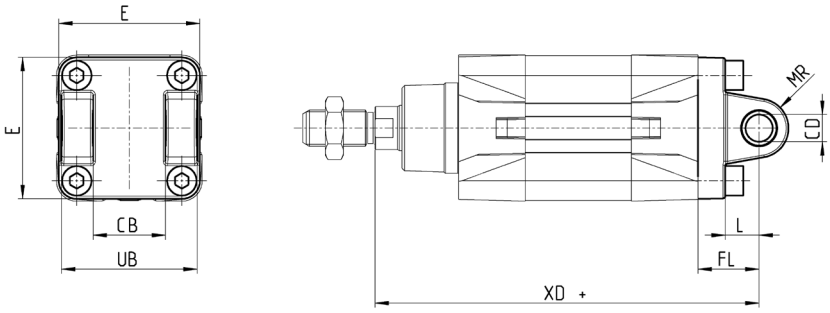
## Rear female trunnion Mod. C and C-H

Material: Aluminium



Supplied with:
1x female trunnion
4x screws

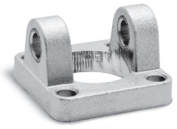
+ = add the stroke




| Mod. | Ø | CD | L | FL | XD+ | MR | E | CB | UB | torque force |
|---|---|---|---|---|---|---|---|---|---|---|
| **C-41-32** | 32 | 10 | 12 | 22 | 142 | 10 | 45 | 26 | 45 | 6 Nm |
| **C-41-40** | 40 | 12 | 15 | 25 | 160 | 12 | 53.5 | 28 | 52 | 6 Nm |
| **C-41-50** | 50 | 12 | 15 | 27 | 170 | 13 | 62.5 | 32 | 60 | 13 Nm |
| **C-H-41-63** | 63 | 16 | 20 | 32 | 190 | 17 | 73 | 40 | 70 | 13 Nm |
| **C-H-41-80** | 80 | 16 | 24 | 36 | 210 | 17 | 92 | 50 | 90 | 19 Nm |
| **C-H-41-100** | 100 | 20 | 29 | 41 | 230 | 21 | 108.5 | 60 | 110 | 22 Nm |
| **C-H-41-125** | 125 | 25 | 30 | 50 | 275 | 26 | 132 | 70 | 130 | 26 Nm |

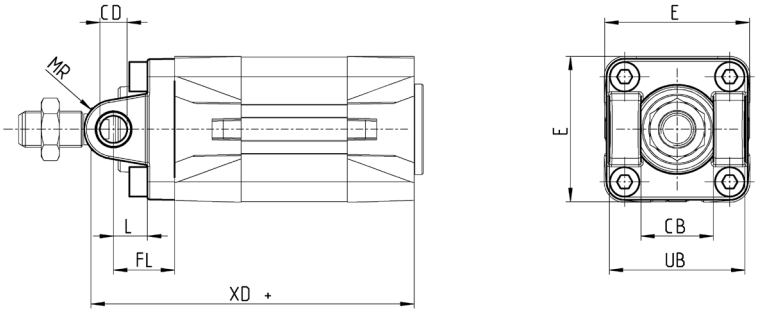
## Front female trunnion Mod. H and C-H

Material: Aluminium



Supplied with:
1x female trunnion
4x screws

+ = add the stroke




| Mod. | Ø | CB | UB | E | XD | FL | L | CD | MR | torque force |
|---|---|---|---|---|---|---|---|---|---|---|
| **H-41-32** | 32 | 26 | 45 | 45 | 120 | 22 | 12 | 10 | 10 | 6 Nm |
| **H-41-40** | 40 | 28 | 52 | 53.5 | 135 | 25 | 15 | 12 | 12 | 6 Nm |
| **H-41-50** | 50 | 32 | 60 | 62.5 | 143 | 27 | 15 | 12 | 13 | 13 Nm |
| **H-60-63** | 63 | 40 | 70 | 73 | 158 | 32 | 20 | 16 | 17 | 13 Nm |
| **C-H-41-80** | 80 | 50 | 90 | 92 | 174 | 36 | 24 | 16 | 17 | 19 Nm |
| **C-H-41-100** | 100 | 60 | 110 | 108.5 | 189 | 41 | 29 | 20 | 21 | 22 Nm |
| **C-H-41-125** | 125 | 70 | 130 | 132 | 225 | 50 | 30 | 25 | 26 | 26 Nm |



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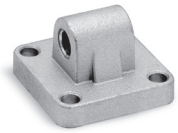
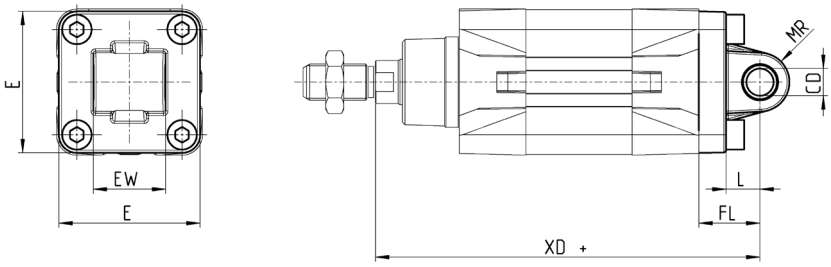
## Rear male trunnion Mod. L

Material: Aluminium



Supplied with:
1x male trunnion
4x screws

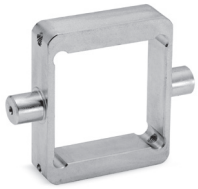
+ = add the stroke




| DIMENSIONS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Mod. | Ø | CD | L | FL | XD+ | MR | E | EW | torque force |
| **L-41-32** | 32 | 10 | 12 | 22 | 142 | 10 | 45 | 26 | 6 Nm |
| **L-41-40** | 40 | 12 | 15 | 25 | 160 | 13 | 53.5 | 28 | 6 Nm |
| **L-41-50** | 50 | 12 | 15 | 27 | 170 | 13 | 62.5 | 32 | 13 Nm |
| **L-41-63** | 63 | 16 | 20 | 32 | 190 | 17 | 73 | 40 | 13 Nm |
| **L-41-80** | 80 | 16 | 24 | 36 | 210 | 17 | 92 | 50 | 19 Nm |
| **L-41-100** | 100 | 20 | 29 | 41 | 230 | 21 | 108.5 | 60 | 22 Nm |
| **L-41-125** | 125 | 25 | 30 | 50 | 275 | 26 | 132 | 70 | 26 Nm |

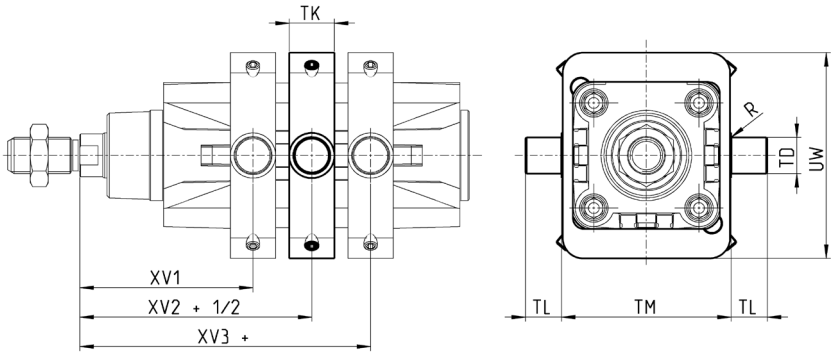
## Centre trunnion Mod. F

Material: zinc-plated steel



Supplied with:
1x centre trunnion
4x screws
4x fixing elements

+ = add the stroke




| DIMENSIONS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Ø | XV1 | XV2 | XV3 | TM | TK | TD | TL | UW | R |
| **F-61-32** | 32 | 61 | 73 | 85 | 50 | 18 | 12 | 12 | 65 | 0,1 |
| **F-61-40** | 40 | 69 | 82,5 | 96 | 63 | 20 | 16 | 16 | 75 | 0,15 |
| **F-61-50** | 50 | 76,5 | 90 | 103,5 | 75 | 20 | 16 | 16 | 91 | 0,15 |
| **F-61-63** | 63 | 86 | 97,5 | 109 | 90 | 25 | 20 | 20 | 94 | 0,15 |
| **F-61-80** | 80 | 94,5 | 110 | 125,5 | 110 | 25 | 20 | 20 | 130 | 0,15 |
| **F-61-100** | 100 | 104,5 | 120 | 135,5 | 132 | 30 | 25 | 25 | 145 | 0,2 |
| **F-61-125** | 125 | 123 | 145 | 167 | 160 | 30 | 25 | 25 | 155 | 0,2 |



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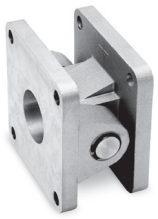
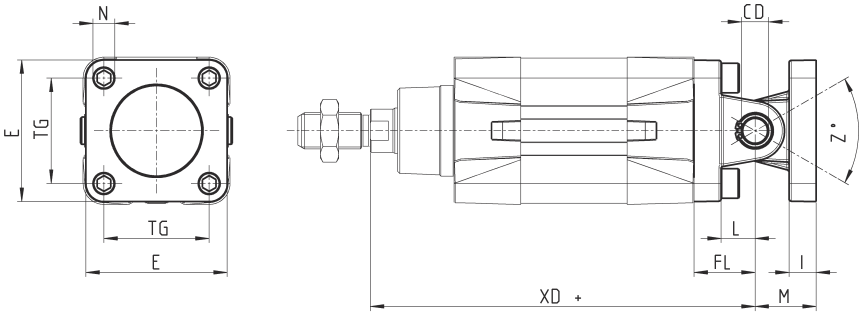
## Accessory combination Mod. C+L+S



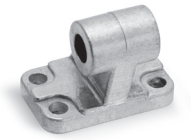
Material: aluminium



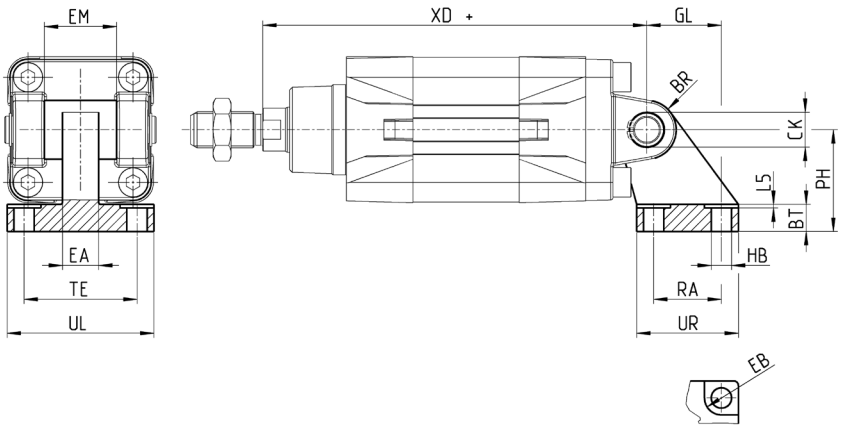

+ = add the stroke

| DIMENSIONS | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Ø | E | TG | øN | XD+ | øCD | L | FL | I | M | Z° (max) | torque force |
| **C+L+S** | 32 | 45 | 32.5 | 6.5 | 142 | 10 | 12 | 22 | 10 | 22 | 30 | 6 Nm |
| **C+L+S** | 40 | 53.5 | 38 | 6.5 | 160 | 12 | 15 | 25 | 10 | 25 | 40 | 6 Nm |
| **C+L+S** | 50 | 62.5 | 46.5 | 9 | 170 | 12 | 15 | 27 | 12 | 27 | 25 | 13 Nm |
| **C+L+S** | 63 | 73 | 56.5 | 9 | 190 | 16 | 20 | 32 | 12 | 32 | 36 | 13 Nm |
| **C+L+S** | 80 | 92 | 72 | 11 | 210 | 16 | 24 | 36 | 12 | 36 | 34 | 19 Nm |
| **C+L+S** | 100 | 108.5 | 89 | 11 | 230 | 20 | 29 | 41 | 12 | 41 | 38 | 22 Nm |
| **C+L+S** | 125 | 132 | 110 | 13 | 275 | 25 | 30 | 50 | 25 | 50 | 30 | 26 Nm |

## 90° male trunnion Mod. ZC



CETOP RP 107P
Material: Aluminium




Supplied with:
1x male support

+ = add the stroke

| DIMENSIONS | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Ø | EB | CK | HB | XD+ | TE | UL | EA | GL | L5 | RA | EM | UR | PH | BT | BR |
| **ZC-32** | 32 | 11 | 10 | 6,6 | 142 | 38 | 51 | 10 | 21 | 1,6 | 18 | 26 | 31 | 32 | 8 | 10 |
| **ZC-40** | 40 | 11 | 12 | 6,6 | 160 | 41 | 54 | 15 | 24 | 1,6 | 22 | 28 | 35 | 36 | 10 | 11 |
| **ZC-50** | 50 | 15 | 12 | 9 | 170 | 50 | 65 | 16 | 33 | 1,6 | 30 | 32 | 45 | 45 | 12 | 13 |
| **ZC-63** | 63 | 15 | 16 | 9 | 190 | 52 | 67 | 16 | 37 | 1,6 | 35 | 40 | 50 | 50 | 14 | 15 |
| **ZC-80** | 80 | 18 | 16 | 11 | 210 | 66 | 86 | 20 | 47 | 2,5 | 40 | 50 | 60 | 63 | 14 | 15 |
| **ZC-100** | 100 | 18 | 20 | 11 | 230 | 76 | 96 | 20 | 55 | 2,5 | 50 | 60 | 70 | 71 | 17 | 19 |
| **ZC-125** | 125 | 20 | 25 | 14 | 275 | 94 | 124 | 30 | 70 | 3,2 | 60 | 70 | 90 | 90 | 20 | 22,5 |



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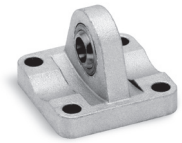
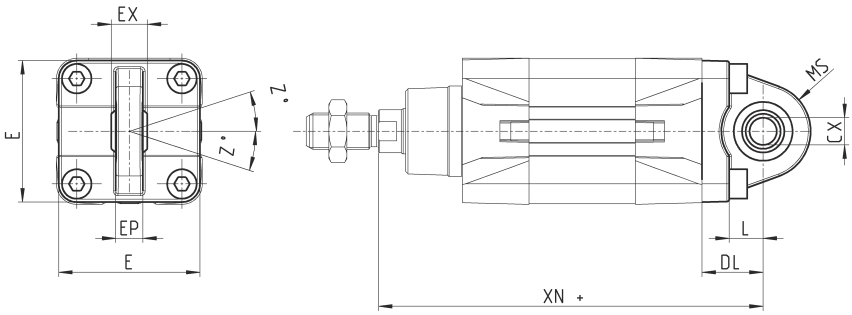
## Trunnion ball-joint Mod. R*



* This trunnion doesn't comply with the ISO 15552 standard
Material: Aluminium

Supplied with:
1x trunnion ball joint
4x screws

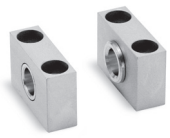
+ = add the stroke



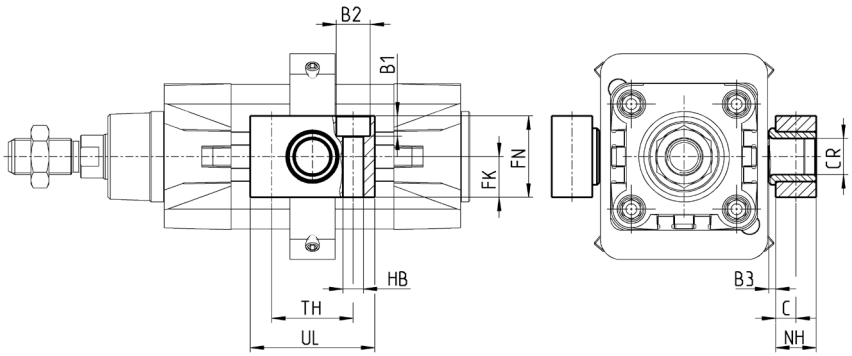

| Mod. | Ø | øCX | L | DL | XN+ | MS | E | EX | EP | Z | torque force |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **R-41-32** | 32 | 10 | 12 | 22 | 142 | 18 | 45 | 14 | 10.5 | 4 | 6 Nm |
| **R-41-40** | 40 | 12 | 15 | 25 | 160 | 18 | 53.5 | 16 | 12 | 4 | 6 Nm |
| **R-41-50** | 50 | 12 * | 15 | 27 | 170 | 21 | 62.5 | 16 * | 12 * | 4 | 13 Nm |
| **R-41-63** | 63 | 16 | 20 | 32 | 190 | 23 | 73 | 21 | 15 | 4 | 13 Nm |
| **R-41-80** | 80 | 16 * | 24 | 36 | 210 | 28 | 92 | 21 * | 15 * | 4 | 19 Nm |
| **R-41-100** | 100 | 20 | 29 | 41 | 230 | 30 | 108.5 | 25 | 18 | 4 | 22 Nm |
| **R-41-125** | 125 | 30 | 30 | 50 | 275 | 40 | 140 | 37 | 25 | 4 | 26 Nm |

## Counter bracket for centre trunnion Mod. BF

Material: Aluminium



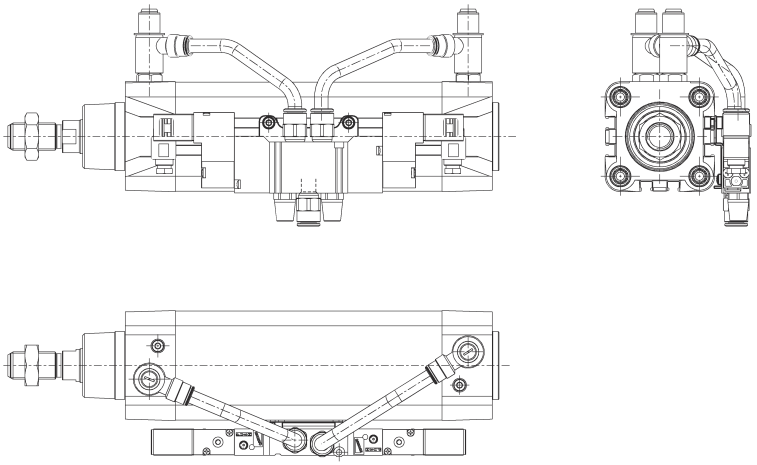
Supplied with:
2x supports




| Mod. | Ø | øCR | NH | C | B3 | TH | UL | FK | FN | B1 | B2 | HB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **BF-32** | 32 | 12 | 15 | 7,5 | 3 | 32 | 46 | 15 | 30 | 6,8 | 11 | 6,6 |
| **BF-40-50** | 40 - 50 | 16 | 18 | 9 | 3 | 36 | 55 | 18 | 36 | 9 | 15 | 9 |
| **BF-63-80** | 63 - 80 | 20 | 20 | 10 | 3 | 42 | 65 | 20 | 40 | 11 | 18 | 11 |
| **BF-100-125** | 100 - 125 | 25 | 25 | 12,5 | 3,5 | 50 | 75 | 25 | 50 | 13 | 20 | 14 |

## Accessory to mount valves on the cylinder

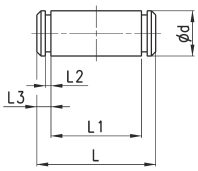
The mounting sub-base Mod. PCV enables the valve or solenoid valve to be mounted directly on the cylinder.



| DIMENSIONS | |
|---|---|
| Mod. | |
| **PCV-61-K3** | to connect valves - solenoid valves Series 3 |
| **PCV-61-K4** | to connect valves - solenoid valves Series 4 port G1/4 |
| **PCV-62-KEN** | to connect valves - solenoid valves Series EN |
| **PCV-61-K8** | to connect valves - solenoid valves Series 4 port G1/8 and Series 3 port G1/4 |

## Clevis pin Mod. S

Supplied with:
1x clevis pin in
stainless steel 303
2x Seeger in steel




| DIMENSIONS | | | | | | |
|---|---|---|---|---|---|---|
| Mod. | Ø | d | L | L1 | L2 | L3 |
| **S-32** | 32 | 10 | 52 | 46 | 1,1 | 3 |
| **S-40** | 40 | 12 | 59 | 53 | 1,1 | 3 |
| **S-50** | 50 | 12 | 67 | 61 | 1,1 | 3 |
| **S-63** | 63 | 16 | 77 | 71 | 1,1 | 3 |
| **S-80** | 80 | 16 | 97 | 91 | 1,1 | 3 |
| **S-100** | 100 | 20 | 121 | 111 | 1,3 | 5 |
| **S-125** | 125 | 25 | 140,5 | 132 | 1,3 | 4,25 |



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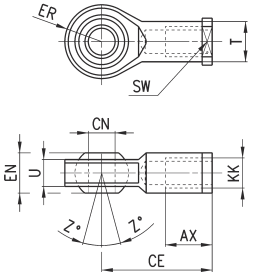
## Swivel ball joint Mod. GA

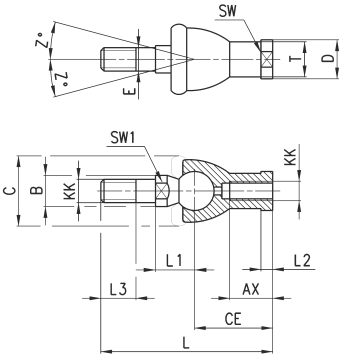
ISO 8139.
Material: zinc-plated steel.




| Mod. | ø CN(H7) | U | EN | ER | AX | CE | KK | ø T | Z | SW |
|---|---|---|---|---|---|---|---|---|---|---|
| **GA-32** | 10 | 10,5 | 14 | 14 | 20 | 43 | M10X1,25 | 15 | 6,5 | 17 |
| **GA-40** | 12 | 12 | 16 | 16 | 22 | 50 | M12X1,25 | 17,5 | 6,5 | 19 |
| **GA-50-63** | 16 | 15 | 21 | 21 | 28 | 64 | M16X1,5 | 22 | 7,5 | 22 |
| **GA-80-100** | 20 | 18 | 25 | 25 | 33 | 77 | M20x1,5 | 27,5 | 7 | 30 |
| **GA-41-125** | 30 | 25 | 37 | 37 | 51 | 110 | M27x2 | 40 | 7,5 | 41 |

## Piston rod socket joint Mod. GY

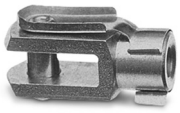
Material: zama and zinc-plated steel.



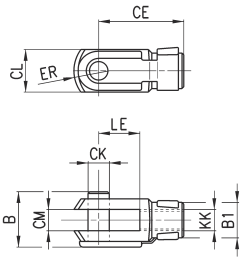

DIMENSIONS

| Mod. | Ø | KK | L | CE | L2 | AX | SW | SW1 | L1 | L3 | ø T | ø D | E | ø B | ø C | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GY-32** | 32 | M10X1,25 | 74 | 35 | 6,5 | 18 | 17 | 11 | 19,5 | 15 | 15 | 19 | 10 | 14 | 28 | 15 |
| **GY-40** | 40 | M12X1,25 | 84 | 40 | 6,5 | 20 | 19 | 17 | 21 | 17 | 17,5 | 22 | 12 | 19 | 32 | 15 |
| **GY-50-63** | 50-63 | M16X1,5 | 112 | 50 | 8 | 27 | 22 | 19 | 27,5 | 23 | 22 | 27 | 16 | 22 | 40 | 11 |
| **GY-80-100** | 80-100 | M20x1,5 | 133 | 63 | 10 | 38 | 30 | 24 | 31,5 | 25 | 27,5 | 34 | 20 | 27 | 45 | 7,5 |

## Rod fork end Mod. G



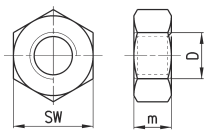
ISO 8140
Material: zinc-plated steel




| Mod. | ø CK | LE | CM | CL | ER | CE | KK | B | ø B1 |
|---|---|---|---|---|---|---|---|---|---|
| **G-25-32** | 10 | 20 | 10 | 20 | 12 | 40 | M10 X 1,25 | 26 | 18 |
| **G-40** | 12 | 24 | 12 | 24 | 14 | 48 | M12 X 1,25 | 32 | 20 |
| **G-50-63** | 16 | 32 | 16 | 32 | 19 | 64 | M16 X 1,5 | 40 | 26 |
| **G-80-100** | 20 | 40 | 20 | 40 | 25 | 80 | M20 X 1,5 | 48 | 34 |
| **G-41-125** | 30 | 54 | 30 | 55 | 38 | 110 | M27 X 2 | 74 | 48 |

## Piston rod lock nut Mod. U

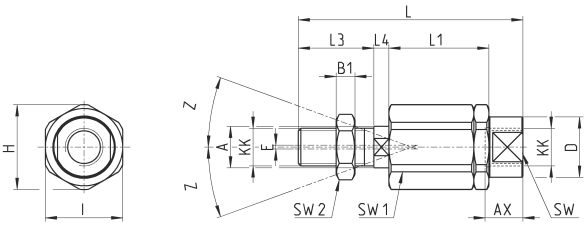
ISO 4035
Material: zinc-plated steel.




| Mod. | D | m | SW |
|---|---|---|---|
| **U-25-32** | M10X1,25 | 6 | 17 |
| **U-40** | M12X1,25 | 7 | 19 |
| **U-50-63** | M16X1,5 | 8 | 24 |
| **U-80-100** | M20x1,5 | 9 | 30 |
| **U-41-125** | M27x2 | 12 | 41 |

## Self aligning rod Mod. GK

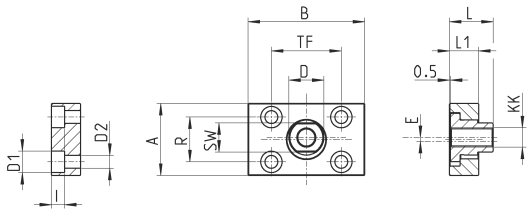
Material: zinc-plated steel.




| DIMENSIONS | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Ø | KK | L | L1 | L3 | L4 | øA | øD | H | I | SW | SW1 | SW2 | B1 | AX | Z | E |
| **GK-25-32** | 25-32 | M10x1,25 | 71,5 | 35 | 20 | 7,5 | 14 | 22 | 32 | 30 | 19 | 12 | 17 | 5 | 22 | 4 | 2 |
| **GK-40** | 40 | M12x1,25 | 75,5 | 35 | 24 | 7,5 | 14 | 22 | 32 | 30 | 19 | 12 | 19 | 6 | 22 | 4 | 2 |
| **GK-50-63** | 50-63 | M16x1,5 | 104 | 53 | 32 | 10 | 22 | 32 | 45 | 41 | 27 | 20 | 24 | 8 | 30 | 3 | 2 |
| **GK-80-100** | 80-100 | M20x1,5 | 119 | 53 | 40 | 10 | 22 | 32 | 45 | 41 | 27 | 20 | 30 | 10 | 37 | 3 | 2 |
| **GK-125** | 125 | M27x2 | 147 | 60 | 54 | 10 | 32 | 57 | 70 | 65 | 54 | 24 | 41 | 12 | 48 | 4 | 2 |

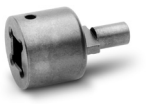
## Coupling piece Mod. GKF

Material: zinc-plated steel.

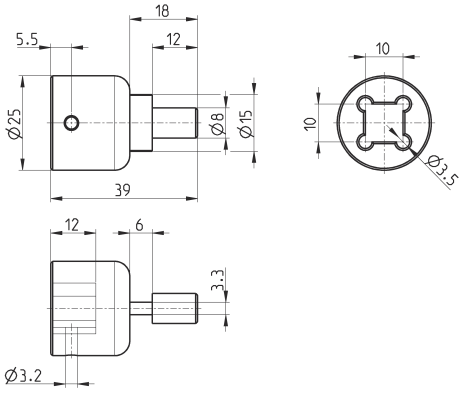



| DIMENSIONS | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Ø | KK | A | B | R | TF | L | L1 | I | Ø D | Ø D1 | Ø D2 | SW | E |
| **GKF-25-32** | 32 | M10x1,25 | 37 | 60 | 23 | 36 | 22,5 | 15 | 6,8 | 18 | 11 | 6,6 | 15 | 2 |
| **GKF-40** | 40 | M12x1,25 | 56 | 60 | 38 | 42 | 22,5 | 15 | 9 | 20 | 15 | 9 | 15 | 2,5 |
| **GKF-50-63** | 50-63 | M16x1,5 | 80 | 80 | 58 | 58 | 26,5 | 15 | 10,5 | 25 | 18 | 11 | 22 | 2,5 |
| **GKF-80-100** | 80-100 | M20x1,5 | 90 | 90 | 65 | 65 | 32,5 | 20 | 13 | 30,5 | 20 | 14 | 27 | 2,5 |
| **GKF-125** | 125 | M27x2 | 90 | 90 | 65 | 65 | 35,5 | 20 | 13 | 40 | 20 | 14 | 36 | 4 |

## Special key to disassemble cylinders Ø 80 and 100



Material: hardened steel




| Mod. |
|---|
| **80-62/8C** |



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