

Cylinders Series 60

1

Single and double-acting, magnetic cushioned
 ø 32, 40, 50, 63, 80, 100, 125 (DIN/ISO 6431)



- » DIN/ISO 6431 VDMA 24562
- » Rolled stainless steel rod
- » Adjustable pneumatic cushioning



The Series 60 cylinders have been designed to comply with the dimensions laid down in the DIN/ISO 6431 standards. A permanent magnet is mounted on the piston in these cylinders which enables, by means of proximity switches positioned along the cylinder tube, receiving information about the piston's position.

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

GENERAL DATA

| | |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of construction | with tie-rods |
| Operation | double-acting, single-acting, tandem |
| Materials | aluminium end-blocks, NBR seals, PU rod, other parts see coding |
| Type of mounting | with tie-rods, front flange, rear flange, feet, centre trunnion, front and rear trunnion, swivel combination |
| Strokes min - max | 10 + 2500 mm |
| Operating temperature | 0°C + 80°C (with dry air - 20°C) |
| Special design | see coding examples |
| Operating pressure | 1 + 10 bar |
| Speed | 10 + 1000 mm/sec (No load) |
| Fluid | clean air, without lubrication If lubricated air is used, it is recommended to use oil ISOVG32. Once applied the lubrication should never be interrupted. |

STANDARD STROKES FOR CYLINDERS SERIES 60

■ = Single acting
 ✕ = Double acting

| ∅ | 25 | 50 | 75 | 100 | 125 | 150 | 160 | 200 | 250 | 300 | 320 | 400 | 500 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 32 | ■ ✕ | ■ ✕ | ■ ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ |
| 40 | ■ ✕ | ■ ✕ | ■ ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ |
| 50 | ■ ✕ | ■ ✕ | ■ ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ |
| 63 | ■ ✕ | ■ ✕ | ■ ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ |
| 80 | ■ ✕ | ■ ✕ | ■ ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ |
| 100 | | ■ ✕ | ■ ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ |
| 125 | | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ | ✕ |

CODING EXAMPLE

| | | | | | | | |
|----|---|---|---|-----|---|------|--|
| 60 | M | 2 | L | 050 | A | 0200 | |
|----|---|---|---|-----|---|------|--|

| | |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 60 | SERIES |
| M | VERSIONS M = magnetic N = non magnetic |
| 2 | OPERATION 1 = single-acting (front spring) 2 = double-acting (front and rear cushions) 3 = double-acting (no cushion) 4 = double-acting (rear cushion) 5 = double-acting (front cushion) 6 = double-acting (through-rod with front and rear cushions) 7 = single-acting (through-rod) |
| L | MATERIALS L = rolled stainless steel rod AISI 420B - anodized aluminium round tube - NBR seals nuts and tie-rods zinc-plated steel - rod seals PU T = rolled stainless steel rod AISI 420B - anodized aluminium round tube - NBR seals nut stainless steel AISI 303 - tie-rods stainless steel AISI 420B - rod seals PU |
| 050 | BORE 32 mm 40 mm 50 mm 63 mm 80 mm 100 mm 125 mm |
| A | CONSTRUCTION A = standard with lock nut for rod RL = cylinder with rod lock F = cylinder with centre trunnion |
| 020 | STROKE (see table) |
| V | = standard V = rod seal FKM N = tandem R = rod seal NBR W = all seals FKM (0 +130C°) |

CYLINDERS ACCESSORIES SERIES 60



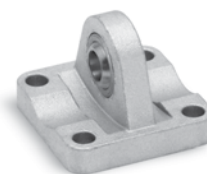
Piston rod socket joint Mod. GY



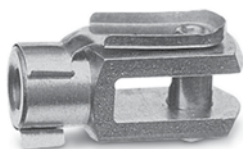
Piston rod lock nut Mod. U



Clevis pin Mod. S



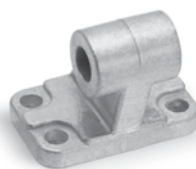
Rear trunnion ball-joint Mod. R



Rod fork end Mod. G



Swivel ball joint Mod. GA



90° male trunnion Mod. ZC



Swivel combination Mod. C+L+S



Centre trunnion Mod. F



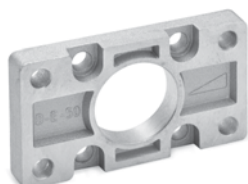
Self aligning rod Mod. GK (New)



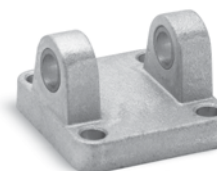
Counter bracket for centre trunnion Mod. BF



Foot mount Mod. B



Front and rear flange Mod. D-E

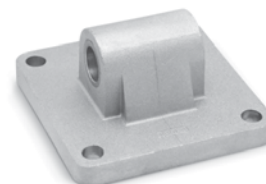


Rear female trunnion Mod. C and CH



Front female trunnion Mod. H and CH

All accessories are supplied separately, except for Piston Rod Lock Nut Mod. U



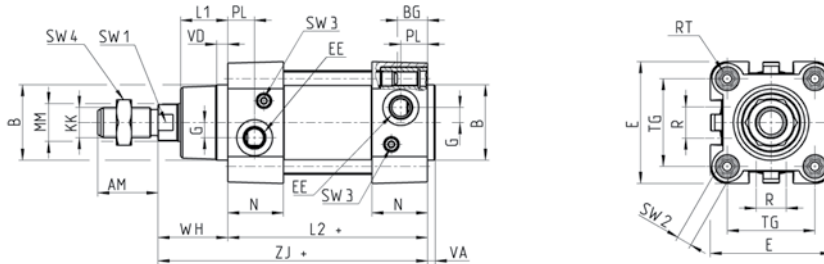
Rear trunnion male, Mod. L

Cylinders Series 60

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



+ = add the stroke



DIMENSIONS

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

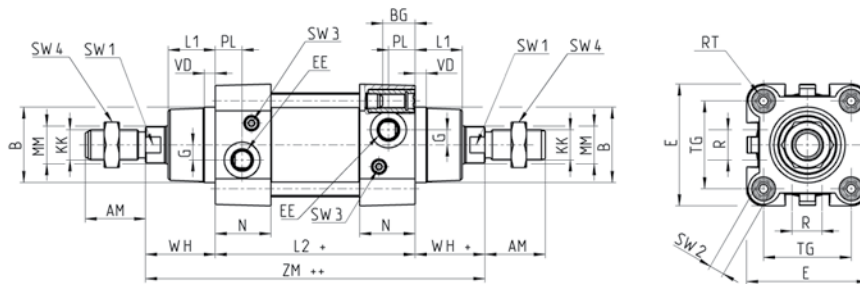
Cylinders Series 60

Through rod

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



+ = add the stroke
++ = add the stroke two times



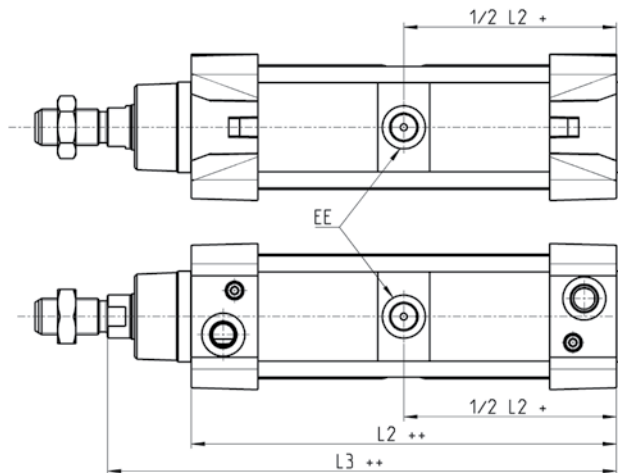
DIMENSIONS

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

Cylinders Series 60 tandem version



+ = add the stroke
 ++ = add the stroke two times



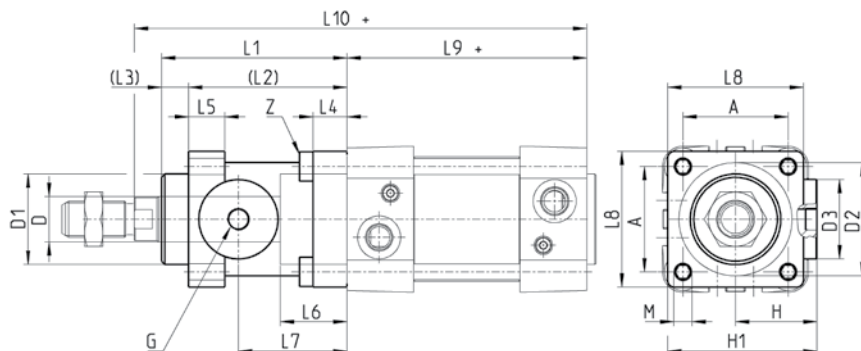
DIMENSIONS

| Ø | EE | L2 | L3 |
|-----|------|-------|-------|
| 32 | G1/8 | 171,5 | 197,5 |
| 40 | G1/4 | 191,5 | 221,5 |
| 50 | G1/4 | 188 | 225 |
| 63 | G3/8 | 204 | 230 |
| 80 | G3/8 | 225,5 | 271,5 |
| 100 | G1/2 | 231 | 282 |
| 125 | G1/2 | 264 | 329 |

Cylinders Series 60 with rod lock



+ = add the stroke



DIMENSIONS

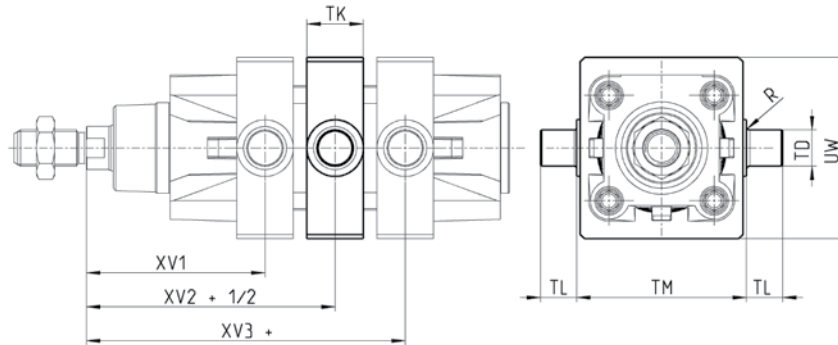
| Ø | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 | ØD | ØD1 | ØD2 | ØD3 | A | G | H | H1 | M | Z |
|-----|-----|-----|----|----|----|------|------|-----|-----|-----|----|------|-----|-----|------|------|------|-------|-----|--------|
| 32 | 58 | 48 | 10 | 8 | 13 | 20,5 | 34 | 45 | 94 | 160 | 12 | 30,5 | 35 | 25 | 32,5 | M5 | 25,5 | 46,5 | M6 | M6X20 |
| 40 | 65 | 55 | 10 | 8 | 13 | 22,5 | 38 | 50 | 105 | 178 | 16 | 35 | 40 | 28 | 38 | G1/8 | 30 | 53 | M6 | M6X20 |
| 50 | 82 | 70 | 12 | 15 | 16 | 29,5 | 48 | 60 | 106 | 200 | 20 | 40 | 50 | 35 | 46,5 | G1/8 | 36 | 64 | M8 | M8X30 |
| 63 | 82 | 70 | 12 | 15 | 16 | 29,5 | 49,5 | 70 | 121 | 215 | 20 | 45 | 60 | 38 | 56,5 | G1/8 | 40 | 75 | M8 | M8X30 |
| 80 | 110 | 90 | 20 | 18 | 20 | 35 | 61 | 90 | 128 | 254 | 25 | 45 | 80 | 48 | 72 | G1/8 | 50 | 95 | M10 | M10X35 |
| 100 | 115 | 100 | 15 | 18 | 20 | 39 | 69 | 105 | 138 | 269 | 25 | 55 | 100 | 58 | 89 | G1/8 | 58 | 110,5 | M10 | M10X35 |
| 125 | 167 | 122 | 45 | 22 | 30 | 51 | 86,5 | 140 | 160 | 350 | 32 | 60 | 130 | 65 | 110 | G1/8 | 80 | 150 | M12 | M12X40 |

The company reserves the right to vary models and dimensions without notice.
 Products designed for industrial applications. Sale to general public is forbidden.

Cylinders Series 60 with centre trunnion Mod F. mounted



+ = add the stroke



DIMENSIONS

| Ø | XV1 | XV2 | XV3 | TM | TK | TD | TL | UW | R |
|------------|-------|------|-------|-----|----|----|----|-----|------|
| 32 | 62 | 73 | 84 | 50 | 20 | 12 | 12 | 65 | 0,1 |
| 40 | 71,5 | 82,5 | 93,5 | 63 | 25 | 16 | 16 | 74 | 0,15 |
| 50 | 79 | 90 | 101 | 75 | 25 | 16 | 16 | 85 | 0,15 |
| 63 | 88,5 | 97,5 | 106,5 | 90 | 30 | 20 | 20 | 100 | 0,15 |
| 80 | 97 | 110 | 123 | 110 | 30 | 20 | 20 | 120 | 0,15 |
| 100 | 104,5 | 120 | 135,5 | 132 | 30 | 25 | 25 | 135 | 0,2 |
| 125 | 123 | 145 | 167 | 162 | 30 | 25 | 25 | 160 | 0,2 |

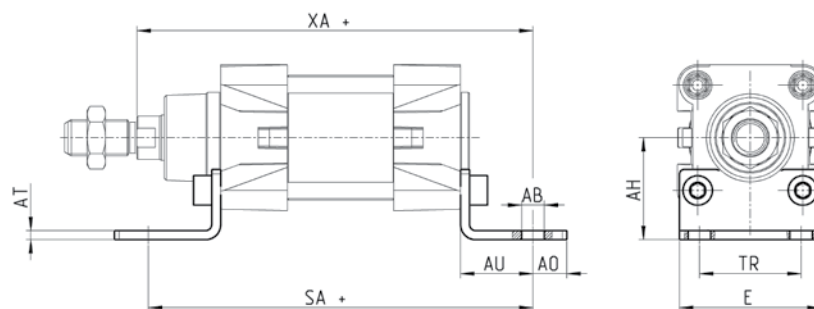
Foot mount Mod. B

Material: zinc-plated steel



Supplied with:
2x feet
4x screws

+ = add the stroke

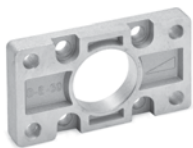


DIMENSIONS

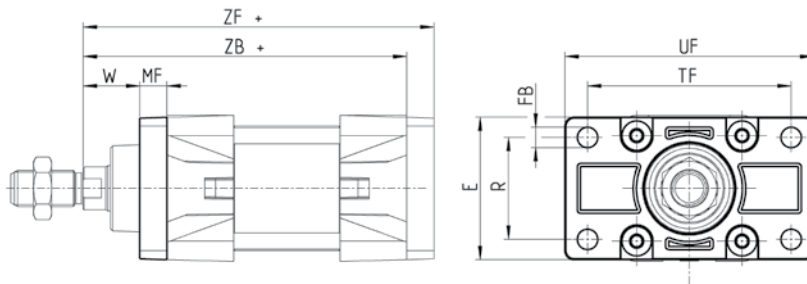
| Mod. | Ø | AT | SA+ | XA+ | TR | E | AB | AH | AO | AU | torque force |
|-----------------|-----|----|-----|-----|----|-------|------|----|----|----|--------------|
| B-41-32 | 32 | 4 | 142 | 144 | 32 | 45 | 7 | 32 | 11 | 24 | 6 Nm |
| B-41-40 | 40 | 4 | 161 | 163 | 36 | 53,5 | 10 | 36 | 15 | 28 | 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

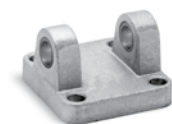


DIMENSIONS

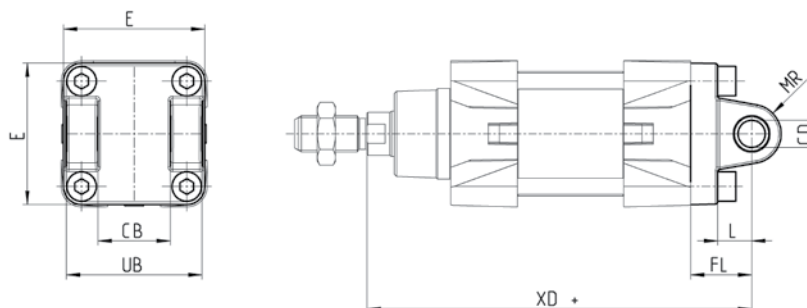
| Mod. | ∅ | W | MF | ZB | TF | R | UF | E | FB | ZF | torque force |
|-------------------|-----|----|----|-----|-----|----|-----|-----|----|-----|--------------|
| D-E-41-32 | 32 | 16 | 10 | 120 | 64 | 32 | 86 | 45 | 7 | 130 | 6 Nm |
| D-E-41-40 | 40 | 20 | 10 | 135 | 72 | 36 | 88 | 52 | 9 | 145 | 6 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 |

Rear trunnion, female Mod. C and CH

Material: aluminium



Supplied with:
1x female trunnion
4x screws
+ = add the stroke



DIMENSIONS

| Mod. | ∅ | 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 | 13 | 52 | 28 | 52 | 6 Nm |
| C-41-50 | 50 | 12 | 15 | 27 | 170 | 13 | 63 | 32 | 60 | 13 Nm |
| C-H-41-63 | 63 | 16 | 20 | 32 | 190 | 15 | 73 | 40 | 70 | 13 Nm |
| C-H-41-80 | 80 | 16 | 24 | 36 | 210 | 15 | 95 | 50 | 90 | 19 Nm |
| C-H-41-100 | 100 | 20 | 29 | 41 | 230 | 18 | 115 | 60 | 110 | 22 Nm |
| C-H-41-125 | 125 | 25 | 30 | 50 | 275 | 25 | 135 | 70 | 130 | 26 Nm |

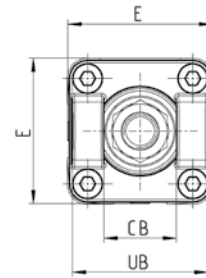
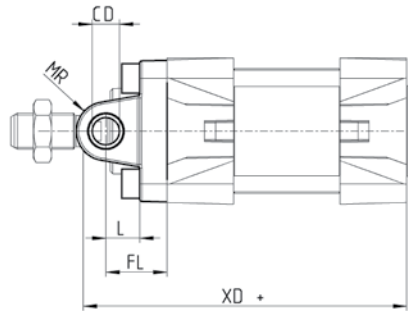
Front trunnion female Mod. H and C-H

Material: aluminium



Supplied with:
1x trunnion
4x screws

+ = add the stroke

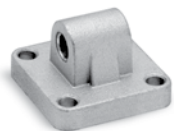


DIMENSIONS

| Mod. | CB | UB | E | XD+ | FL | L | CD | MR | torque force |
|-------------------|----|-----|-----|-----|----|----|----|----|--------------|
| H-41-32 | 26 | 45 | 45 | 120 | 22 | 12 | 10 | 10 | 6 Nm |
| H-41-40 | 28 | 52 | 52 | 135 | 25 | 15 | 12 | 13 | 6 Nm |
| H-41-50 | 32 | 60 | 63 | 143 | 27 | 15 | 12 | 13 | 13 Nm |
| H-60-63 | 40 | 70 | 73 | 158 | 32 | 20 | 16 | 15 | 13 Nm |
| C-H-41-80 | 50 | 90 | 95 | 174 | 36 | 24 | 16 | 15 | 19 Nm |
| C-H-41-100 | 60 | 110 | 115 | 189 | 41 | 29 | 20 | 18 | 22 Nm |
| C-H-41-125 | 70 | 130 | 135 | 225 | 50 | 30 | 25 | 25 | 22 Nm |

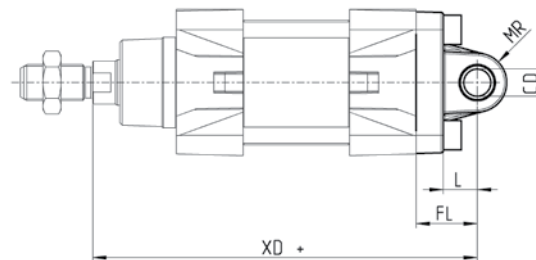
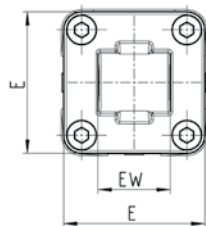
Rear trunnion, male Mod. L

Material: aluminium



Supplied with:
2x male trunnions
4x screws

+ = add the stroke



DIMENSIONS

| Mod. | ∅ | CD | L | FL | XD+ | MR | E | EW | torque force |
|-----------------|-----|----|----|----|-----|----|-----|----|--------------|
| L-41-32 | 32 | 10 | 12 | 22 | 142 | 9 | 45 | 26 | 6 Nm |
| L-41-40 | 40 | 12 | 15 | 25 | 160 | 13 | 52 | 28 | 6 Nm |
| L-41-50 | 50 | 12 | 15 | 27 | 170 | 13 | 63 | 32 | 13 Nm |
| L-41-63 | 63 | 16 | 20 | 32 | 190 | 15 | 73 | 40 | 13 Nm |
| L-41-80 | 80 | 16 | 24 | 36 | 210 | 15 | 95 | 50 | 19 Nm |
| L-41-100 | 100 | 20 | 29 | 41 | 230 | 18 | 115 | 60 | 22 Nm |
| L-41-125 | 125 | 25 | 30 | 50 | 275 | 25 | 135 | 70 | 26 Nm |

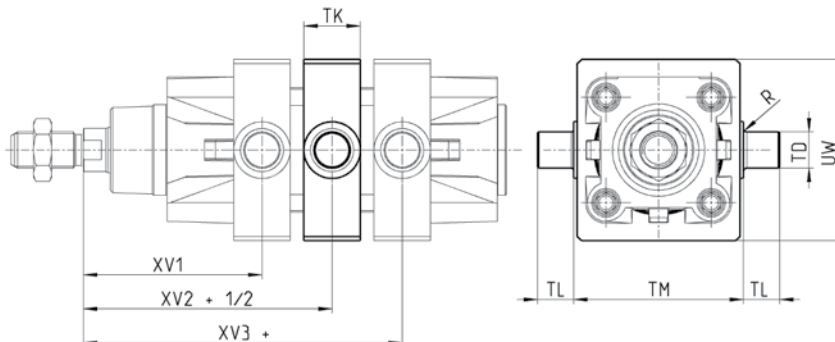
Centre trunnion Mod. F

Material: zinc-plated steel



Supplied with:
1x intermediate trunnion
4x clamping elements
4x locking screws

+ = add the stroke

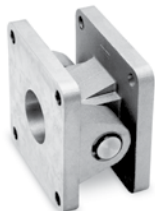


DIMENSIONS

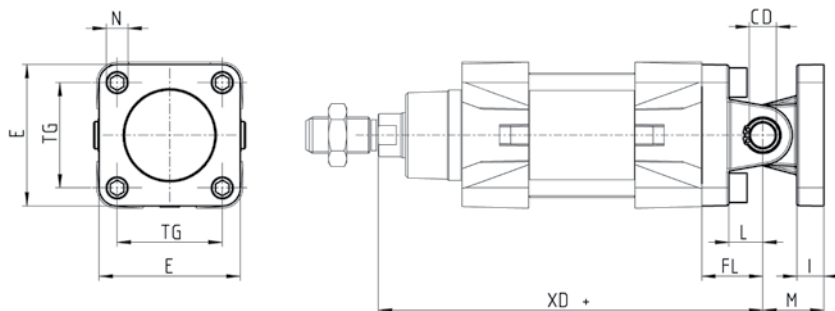
| Mod. | ∅ | XV1 | XV2 | XV3 | TM | TK | TD | TL | UW | R |
|--------------|-----|-------|------|-------|-----|----|----|----|-----|------|
| F-32 | 32 | 62 | 73 | 84 | 50 | 20 | 12 | 12 | 65 | 0,1 |
| F-40 | 40 | 71,5 | 82,5 | 93,5 | 63 | 25 | 16 | 16 | 74 | 0,15 |
| F-50 | 50 | 79 | 90 | 101 | 75 | 25 | 16 | 16 | 85 | 0,15 |
| F-63 | 63 | 88,5 | 97,5 | 106,5 | 90 | 30 | 20 | 20 | 100 | 0,15 |
| F-80 | 80 | 97 | 110 | 123 | 110 | 30 | 20 | 20 | 120 | 0,15 |
| F-100 | 100 | 104,5 | 120 | 135,5 | 132 | 30 | 25 | 25 | 135 | 0,2 |
| F-125 | 125 | 123 | 145 | 167 | 160 | 30 | 25 | 25 | 160 | 0,2 |

Accessory combination Mod. C+L+S

Material: aluminium



+ = add the stroke



DIMENSIONS

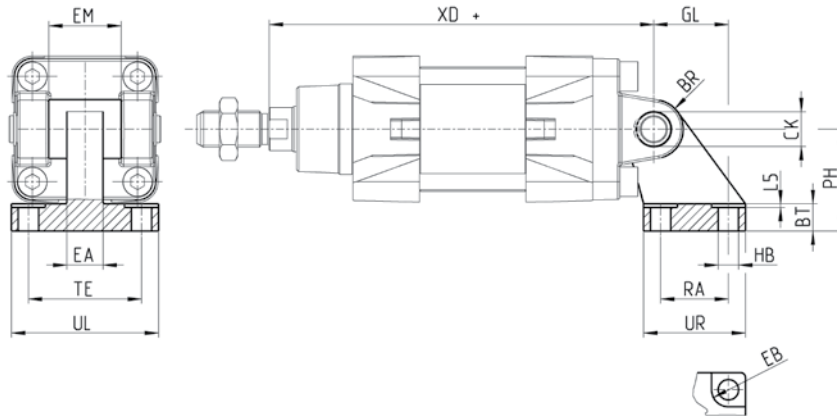
| Mod. | ∅ | CD | L | FL | XD+ | TG | E | I | M | N | torque force |
|--------------|-----|----|----|----|-----|------|-----|----|----|-----|--------------|
| C+L+S | 32 | 10 | 12 | 22 | 142 | 32,5 | 45 | 10 | 22 | 6,5 | 6 Nm |
| C+L+S | 40 | 12 | 15 | 25 | 160 | 38 | 52 | 10 | 25 | 6,5 | 6 Nm |
| C+L+S | 50 | 12 | 15 | 27 | 170 | 46,5 | 63 | 12 | 27 | 9 | 13 Nm |
| C+L+S | 63 | 16 | 20 | 32 | 190 | 56,5 | 73 | 12 | 32 | 9 | 13 Nm |
| C+L+S | 80 | 16 | 24 | 36 | 210 | 72 | 95 | 12 | 36 | 11 | 19 Nm |
| C+L+S | 100 | 20 | 29 | 41 | 230 | 89 | 115 | 12 | 41 | 11 | 22 Nm |
| C+L+S | 125 | 25 | 30 | 50 | 275 | 110 | 135 | 20 | 50 | 13 | 26 Nm |

90° male trunnion Mod. ZC

CETOP RP 107P
Material: aluminium



Supplied with:
1x male trunnion

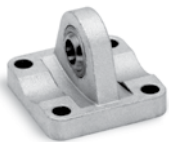


DIMENSIONS

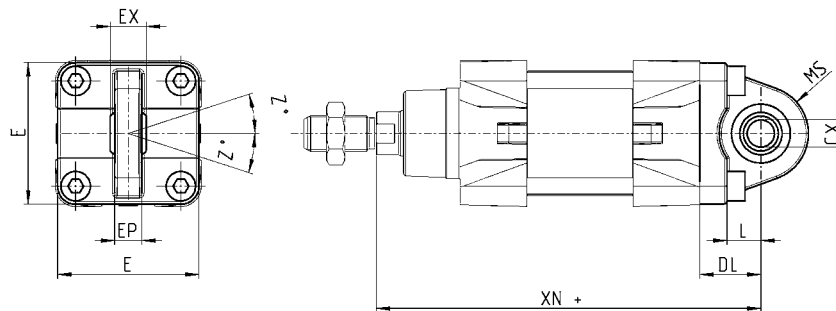
| Mod. | ∅ | EB | ∅CK | HB | XD+ | TE | UL | EA | GL | L5 | RA | EM | UR | PH | BT | BR |
|---------------|-----|----|-----|-----|-----|----|-----|----|----|-----|----|----|----|----|----|------|
| ZC-32 | 32 | 11 | 10 | 6,6 | 142 | 38 | 51 | 10 | 21 | 1,6 | 18 | 26 | 31 | 32 | 8 | 10 |
| ZC-40 | 40 | 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 | 12 | 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 | 15 | 19 |
| ZC-125 | 125 | 20 | 25 | 14 | 275 | 94 | 124 | 30 | 70 | 3,2 | 60 | 70 | 90 | 90 | 20 | 22,5 |

Rear trunnion ball-joint Mod. R

Material: aluminium



Supplied with:
1x trunnion ball joint
4x screws
* not according to standard
+ = add the stroke



DIMENSIONS

| Mod. | ∅ | ∅CX | L | DL | XN+ | MS | E | EX | EP | Z | torque force |
|-----------------|-----|-----|----|----|-----|----|-----|----|------|---|--------------|
| R-41-32 | 32 | 10 | 12 | 22 | 142 | 16 | 45 | 14 | 10,5 | 4 | 6 Nm |
| R-41-40 | 40 | 12 | 15 | 25 | 160 | 20 | 52 | 16 | 12 | 4 | 6 Nm |
| R-41-50 | 50 | 12 | 15 | 27 | 170 | 20 | 63 | 16 | 12 | 4 | 13 Nm |
| R-41-63 | 63 | 16 | 20 | 32 | 190 | 24 | 73 | 21 | 15 | 4 | 13 Nm |
| R-41-80 | 80 | 16 | 24 | 36 | 210 | 24 | 95 | 21 | 15 | 4 | 19 Nm |
| R-41-100 | 100 | 20 | 29 | 41 | 230 | 30 | 115 | 25 | 18 | 4 | 22 Nm |
| R-41-125 | 125 | 30 | 30 | 50 | 275 | 40 | 140 | 37 | 25 | 4 | 26 Nm |

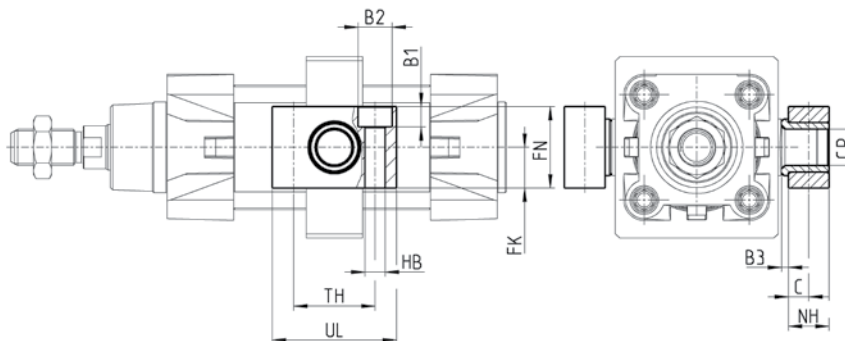


Counter bracket for centre trunnion Mod. BF

Material: aluminium



Supplied with:
2x supports



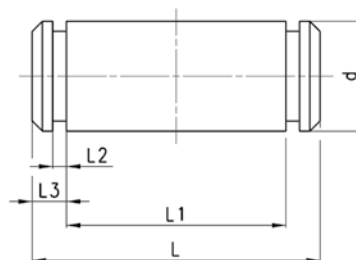
DIMENSIONS

| Mod. | CR | NH | C | b3 | TH | UL | FK | FN | B1 | B2 | HB |
|-------------------|----|----|------|-----|----|----|----|----|-----|----|-----|
| BF-32 | 12 | 15 | 7,5 | 3 | 32 | 46 | 15 | 30 | 6,8 | 11 | 6,6 |
| BF-40-50 | 16 | 18 | 9 | 3 | 36 | 55 | 18 | 36 | 9 | 15 | 9 |
| BF-63-80 | 20 | 20 | 10 | 3 | 42 | 65 | 20 | 40 | 11 | 18 | 11 |
| BF-100-125 | 25 | 25 | 12,5 | 3,5 | 50 | 75 | 25 | 50 | 13 | 20 | 14 |

Clevis pin Mod. S



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



DIMENSIONS

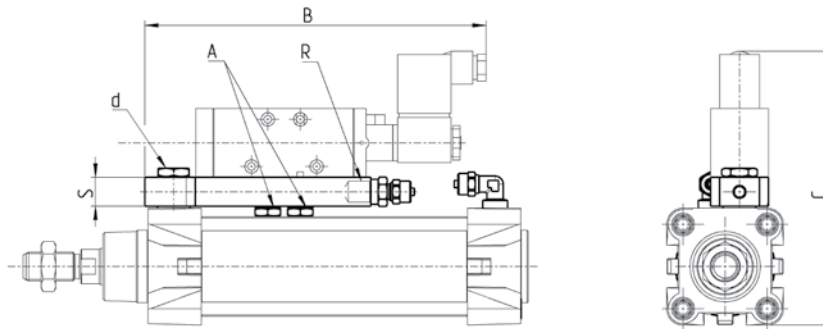
| Mod. | ∅ | d | L | L1 | L2 | L3 |
|--------------|-----|----|-------|-----|-----|------|
| S-32 | 32 | 10 | 52 | 46 | 1,1 | 3 |
| S-40 | 40 | 12 | 59 | 53 | 1,1 | 3 |
| S-50 | 50 | 12 | 67 | 61 | 1,1 | 3 |
| S-63 | 63 | 16 | 77 | 71 | 1,1 | 3 |
| S-80 | 80 | 16 | 97 | 91 | 1,1 | 3 |
| S-100 | 100 |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

Accessory for mounting valves on the cylinder

The mountings Mod. PCV, enable the valve to be mounted directly on the cylinder. The subbase is fixed on the cylinder using screws Mod. 1635 or flow controllers, Mod. SCU. The other end of the plate has a threaded port.



d* = mounting on the cylinder using Mod. 1635 or Mod. SCU.
Note: the minimum possible stroke is 100mm.

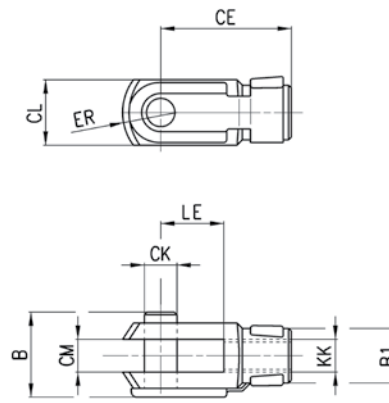


DIMENSIONS

| Mod. | Ø | A | B | C | R | S | d* |
|-----------|----|------|-------|-------|------|----|------|
| PCV-32 | 32 | G1/8 | 185 | 131,5 | G1/8 | 16 | G1/8 |
| PCV-40-50 | 40 | G1/8 | 188,5 | 140,5 | G1/4 | 16 | G1/4 |
| PCV-40-50 | 50 | G1/8 | 188,5 | 150 | G1/4 | 16 | G1/4 |
| PCV-63-80 | 63 | G1/4 | 215 | 167 | G1/4 | 16 | G3/8 |
| PCV-63-80 | 80 | G1/4 | 215 | 185 | G1/4 | 16 | G3/8 |

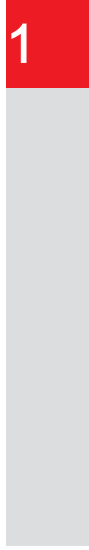
Rod fork end Mod. G

ISO 8140
Material: zinc-plated steel



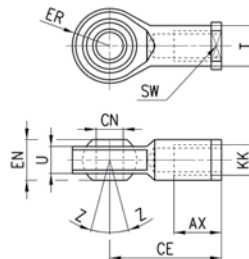
DIMENSIONS

| | CK | LE | CM | CL | ER | CE | KK | B | B1 |
|----------|----|----|----|----|----|-----|----------|----|----|
| G-25-32 | 10 | 20 | 10 | 20 | 12 | 40 | M10X1,25 | 26 | 18 |
| G-40 | 12 | 24 | 12 | 24 | 14 | 48 | M12X1,25 | 32 | 20 |
| G-50-63 | 16 | 32 | 16 | 32 | 19 | 64 | M16X1,5 | 40 | 26 |
| G-80-100 | 20 | 40 | 20 | 40 | 25 | 80 | M20X1,5 | 48 | 34 |
| G-41-125 | 30 | 55 | 30 | 55 | 38 | 110 | M27X2 | 74 | 48 |



Swivel ball joint Mod. GA

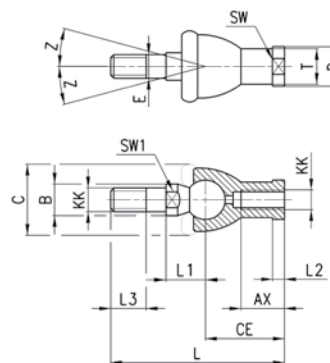
ISO 8139.
Material: zinc-plated steel.



| DIMENSIONS | | | | | | | | | | | | |
|-------------------|--------|---------------------|------|----|----|----|-----|----------|------|-----|----|--|
| Mod. | ∅ | ∅ _{CN(H7)} | U | EN | ER | AX | CE | KK | T | Z | SW | |
| GA-32 | 32 | 10 | 10,5 | 14 | 14 | 20 | 43 | M10X1,25 | 15 | 6,5 | 17 | |
| GA-40 | 40 | 12 | 12 | 16 | 16 | 22 | 50 | M12X1,25 | 17,5 | 6,5 | 19 | |
| GA-50-63 | 50-63 | 16 | 15 | 21 | 21 | 28 | 64 | M16X1,5 | 22 | 7,5 | 22 | |
| GA-80-100 | 80-100 | 20 | 18 | 25 | 25 | 33 | 77 | M20x1,5 | 27,5 | 7 | 30 | |
| GA-112-125 | 125 | 30 | 25 | 37 | 35 | 51 | 110 | M27x2 | 40 | 7,5 | 41 | |

Piston rod socket joint Mod. GY

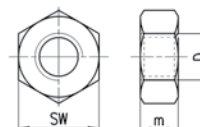
Material: zama and zinc-plated steel.



| DIMENSIONS | | | | | | | | | | | | | | | |
|------------------|--------|----------|-----|----|-----|----|----|------|----|----------------|----------------|----|----------------|----------------|-----|
| Mod. | ∅ | KK | L | CE | L2 | AX | SW | L1 | L3 | ∅ _T | ∅ _D | E | ∅ _B | ∅ _C | Z |
| GY-32 | 32 | M10X1,25 | 74 | 35 | 6,5 | 18 | 17 | 19,5 | 15 | 15 | 19 | 10 | 14 | 28 | 15 |
| GY-40 | 40 | M12X1,25 | 84 | 40 | 6,5 | 20 | 19 | 22 | 17 | 17,5 | 22 | 12 | 19 | 32 | 15 |
| GY-50-63 | 50-63 | M16X1,5 | 112 | 50 | 8 | 27 | 22 | 27,5 | 23 | 22 | 27 | 16 | 22 | 40 | 11 |
| GY-80-100 | 80-100 | M20x1,5 | 133 | 63 | 10 | 38 | 30 | 31,5 | 25 | 27,5 | 34 | 20 | 29 | 45 | 7,5 |

Piston rod lock nut Mod. U

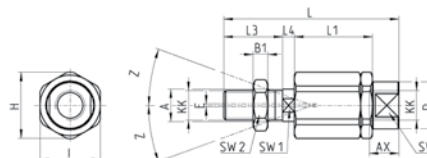
UNI EN ISO 4035
Material: zinc-plated steel



| DIMENSIONS | | | | |
|------------------|--------|----------|----|----|
| Mod. | ∅ | KK | m | SW |
| U-25-32 | 32 | M10X1,25 | 6 | 17 |
| U-40 | 40 | M12X1,25 | 7 | 19 |
| U-50-63 | 50-63 | M16X1,5 | 8 | 24 |
| U-80-100 | 80-100 | M20X1,5 | 9 | 30 |
| U-112-125 | 125 | M27X2 | 12 | 41 |

Self aligning rod Mod. GK

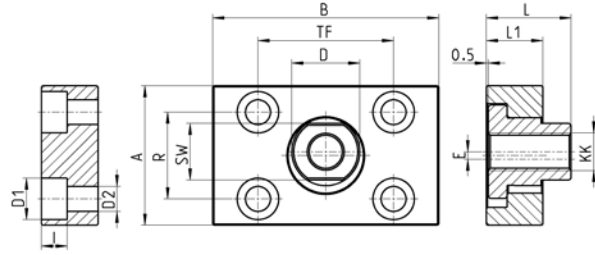
New



| DIMENSIONS | | | | | | | | | | | | | | | | | |
|------------------|--------|----------|------|----|----|-----|----------------|----------------|----|----|----|-----|-----|----|----|---|---|
| Mod. | ∅ | KK | L | L1 | L3 | L4 | ∅ _A | ∅ _D | H | I | SW | SW1 | SW2 | B1 | AX | Z | E |
| GK-25-32 | 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 |

Coupling piece Mod. GKF

New



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 |