

# 3-Finger centric grippers

## Series CGC

Magnetic

Sizes 50 - 64 - 80 - 100 - 125



- » Compact design
- » High gripping force
- » Long stroke

The proximity switches can be inserted in the U-shaped grooves on the body in order to detect whether the gripper is in an open or closed position.

The 3-finger centric gripper Mod. CGC is available in 5 different sizes.

Significant for Mod. CGC is the compact design that allows the combination of a high gripping force and long stroke.

The piston is equipped with permanent magnet for the use of magnetic proximity switches mod. CSB.

### GENERAL DATA

|                                                        |                                                                                                                                                                |                                         |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <b>Model</b>                                           | CGC-50; CGC-64; CGC-80; CGC-100; CGC-125                                                                                                                       |                                         |
| <b>Bore sizes</b>                                      | Ø 32 Ø 45 Ø 58 Ø 77 Ø 98                                                                                                                                       |                                         |
| <b>Type of operation</b>                               | double-acting                                                                                                                                                  |                                         |
| <b>Materials</b>                                       | housing: high tensile special hard-coated aluminium alloy, Functional parts: hardened steel                                                                    |                                         |
| <b>Operating pressure (bar)</b>                        | 2 ÷ 7 bar                                                                                                                                                      |                                         |
| <b>Operating temperature</b>                           | 5°C ÷ 60°C                                                                                                                                                     |                                         |
| <b>Repeatability</b>                                   | ± 0,05 mm                                                                                                                                                      |                                         |
| <b>Max. operating frequency</b>                        | 60 cycles/min                                                                                                                                                  |                                         |
| <b>Lubrication</b>                                     | lever section                                                                                                                                                  | lubrication required on sliding section |
| <b>Theoretical holding force (N)</b>                   | Ø 32 = 78, Ø 45 = 185                                                                                                                                          |                                         |
| <b>with gripping point at 30 mm with 5 bar opening</b> | Ø 58 = 340, Ø 77 = 580                                                                                                                                         |                                         |
|                                                        | Ø 98 = 940                                                                                                                                                     |                                         |
| <b>Theoretical holding force (N)</b>                   | Ø 32 = 68, Ø 45 = 160                                                                                                                                          |                                         |
| <b>with gripping point at 30 mm with 5 bar closing</b> | Ø 58 = 290, Ø 77 = 510                                                                                                                                         |                                         |
|                                                        | Ø 98 = 860                                                                                                                                                     |                                         |
| <b>Weight (g)</b>                                      | Ø 32 = 230, Ø 45 = 410                                                                                                                                         |                                         |
|                                                        | Ø 58 = 800, Ø 77 = 1400                                                                                                                                        |                                         |
|                                                        | Ø 98 = 2400                                                                                                                                                    |                                         |
| <b>Stroke per finger (mm)</b>                          | Ø 32 = 4, Ø 45 = 6                                                                                                                                             |                                         |
|                                                        | Ø 58 = 8, Ø 77 = 10                                                                                                                                            |                                         |
|                                                        | Ø 98 = 13                                                                                                                                                      |                                         |
| <b>Port sizes</b>                                      | Ø 32- 45 -58 - M5                                                                                                                                              |                                         |
|                                                        | Ø 77 - Ø 98 -G1/8                                                                                                                                              |                                         |
| <b>Fluid</b>                                           | filtered air without lubrication. If lubricated air is used, it is recommended to use oil ISO VG32. Once applied, the lubrication should never be interrupted. |                                         |

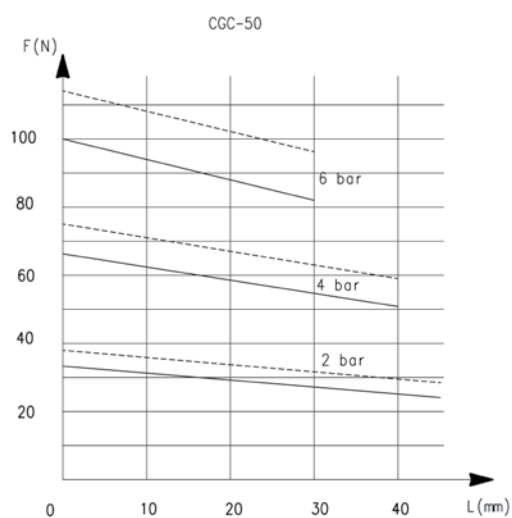
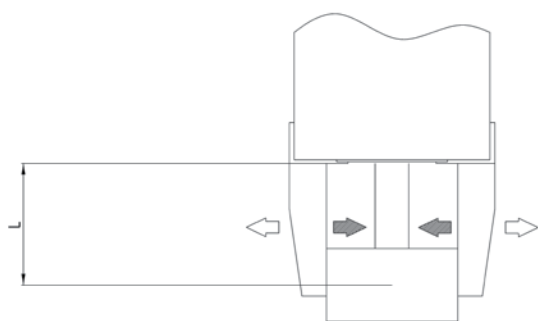
## CODING EXAMPLE

|     |   |     |
|-----|---|-----|
| CGC | - | 050 |
|-----|---|-----|

| CGC | SERIES |
|-----|--------|
|-----|--------|

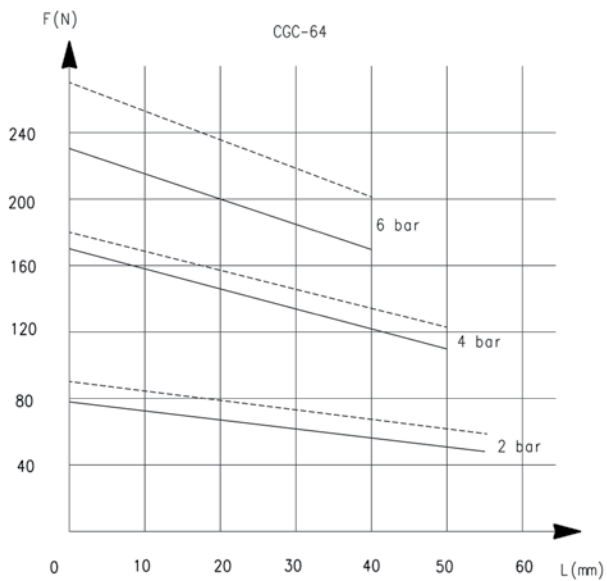
| 050 | SIZE        |
|-----|-------------|
|     | 050 = 32 mm |
|     | 064 = 45 mm |
|     | 080 = 58 mm |
|     | 100 = 77 mm |
|     | 125 = 98 mm |

## GRIPPING FORCE CHARACTERISTICS

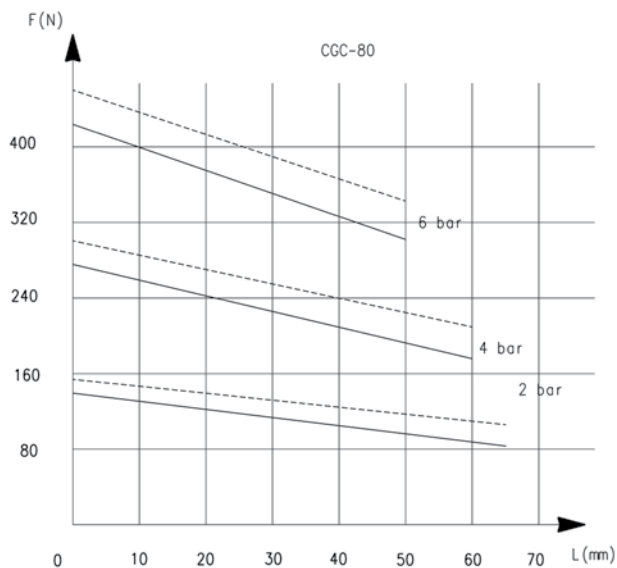


F = Gripping Force  
L = Gripping point length

## GRIPPING FORCE CHARACTERISTICS

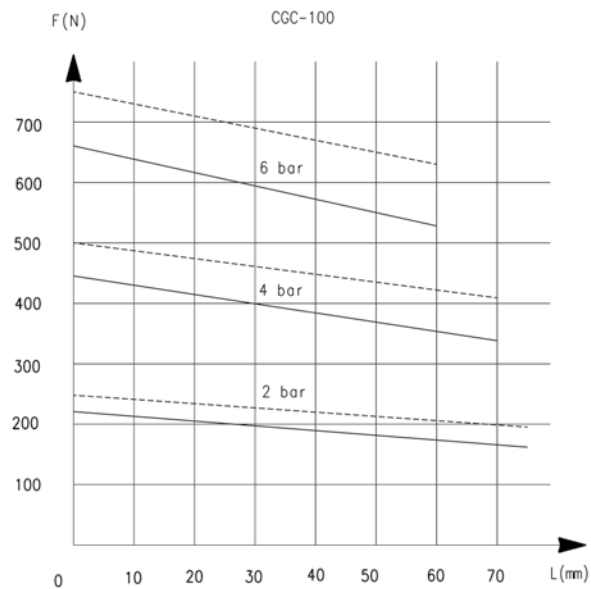


F = Gripping Force  
L = Gripping point length

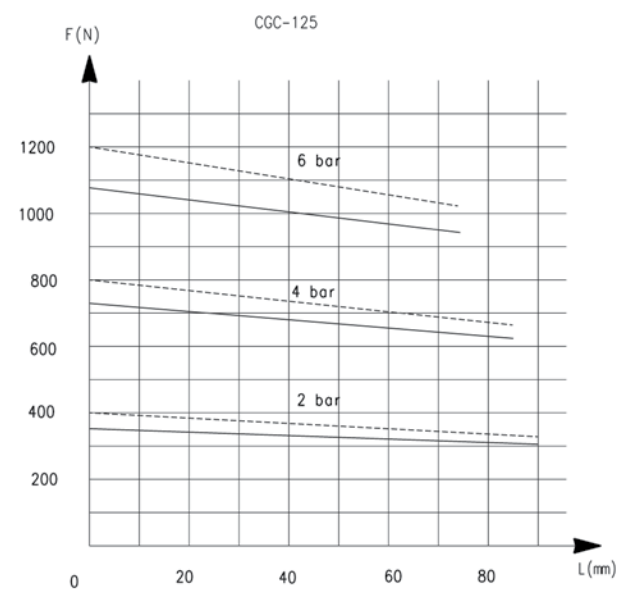


F = Gripping Force  
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## GRIPPING FORCE CHARACTERISTICS

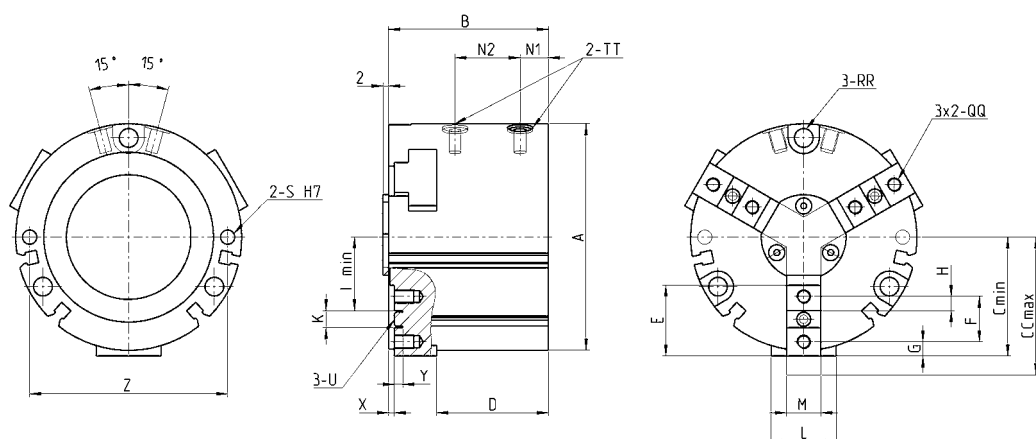


F = Gripping Force  
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## CGC Dimensions

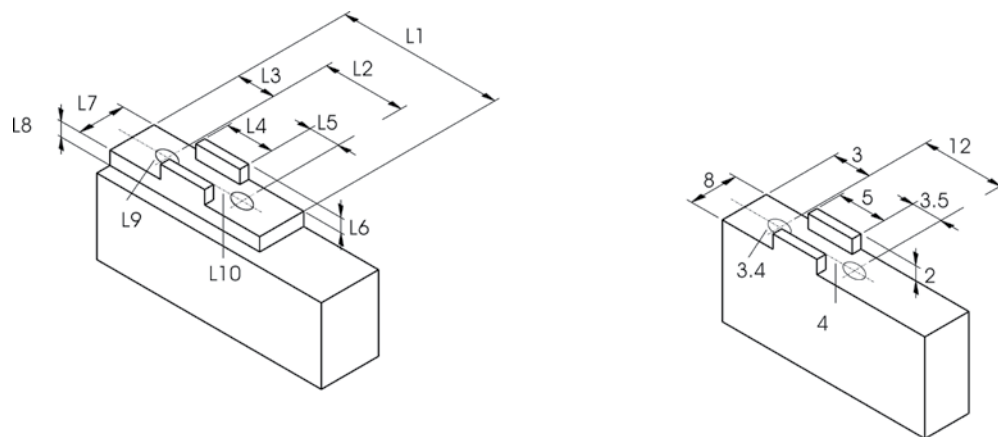


## DIMENSIONS

| Mod.           | A   | B    | C    | CC   | D    | E  | F  | G   | H   | I  | K | L  | M    | N1   | N2   | RR    | QQ     | S   | TT     | U   | X | Y   | Z   | Weight (g) |
|----------------|-----|------|------|------|------|----|----|-----|-----|----|---|----|------|------|------|-------|--------|-----|--------|-----|---|-----|-----|------------|
| <b>CGC-050</b> | 50  | 39   | 26,5 | 30,5 | 27   | 18 | 12 | 3   | 3,5 | 15 | 5 | 14 | 8    | 9    | 13,5 | Ø 3,4 | M3x0,5 | Ø 3 | M5     | Ø 4 | 1 | 2   | 44  | 230        |
| <b>CGC-064</b> | 64  | 47,5 | 32   | 38   | 32   | 20 | 13 | 4   | 4   | 19 | 5 | 18 | 10,2 | 10   | 16   | Ø 5,5 | M4x0,7 | Ø 4 | M5     | Ø 4 | 2 | 2,5 | 56  | 410        |
| <b>CGC-080</b> | 80  | 56,5 | 42   | 50   | 39,5 | 25 | 16 | 5   | 5   | 26 | 6 | 23 | 12,2 | 10   | 23   | Ø 6,6 | M5x0,8 | Ø 5 | M5     | Ø 5 | 2 | 3   | 70  | 800        |
| <b>CGC-100</b> | 100 | 65   | 52   | 62   | 45,5 | 32 | 20 | 6   | 6   | 32 | 8 | 27 | 14,2 | 12   | 25   | Ø 6,6 | M6x1   | Ø 5 | PT 1/8 | Ø 6 | 3 | 3   | 90  | 1400       |
| <b>CGC-125</b> | 125 | 76   | 65,5 | 78,5 | 52   | 40 | 24 | 8,5 | 8   | 41 | 8 | 30 | 16,2 | 13,5 | 27,5 | Ø 9   | M6x1   | Ø 6 | PT 1/8 | Ø 6 | 3 | 3,5 | 112 | 2400       |

## CGC Dimensions

Dimensions for external mounting support



## DIMENSIONS

| Mod.           | L1   | L2 | L3  | L4 | L5  | L6  | L7   | L8  | øL9 | L10 | L11 | L12 | L13 |
|----------------|------|----|-----|----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| <b>CGC-050</b> | 18,5 | 12 | 4   | 5  | 3,5 | 2   | 8    | 3   | 3,4 | 4   | 26  | 50  | 18  |
| <b>CGC-064</b> | 20   | 13 | 4   | 5  | 4   | 2,5 | 10,2 | 4,5 | 4,5 | 4   | 32  | 64  | 18  |
| <b>CGC-080</b> | 25   | 16 | 5   | 6  | 5   | 3   | 12,2 | 5,5 | 5,5 | 5   | 41  | 80  | 23  |
| <b>CGC-100</b> | 32   | 20 | 6   | 8  | 6   | 3   | 14,2 | 5,5 | 6,6 | 6   | 51  | 100 | 27  |
| <b>CGC-125</b> | 40   | 24 | 8,5 | 8  | 8   | 3,5 | 16,2 | 5,5 | 6,6 | 6   | 60  | 125 | 30  |