

FC-G - C410

Centrifugal Brakes

Characteristics

- Part (1) or core, mandatory driving, integral with two fly-weights (3) and return springs (4)
- Part (2), or drum connected to the driven part (clutch assembly) or to a fixed part (brake assembly)

Particularities

- Without wear compensation adjustment
- Deferred action
- Dry application

Utilisation

- The acceleration of the driving shaft and thus of the core (1) applies a stress to fly-weights (3). Up to a given speed shown on the table of characteristics, the return springs (4) compensate for the action of the centrifugal force. Beyond “nil torque” speed, the fly-weights (3) move apart from each other, then come into contact with drum (2). The transmitted torque is a function of the rotational speed.

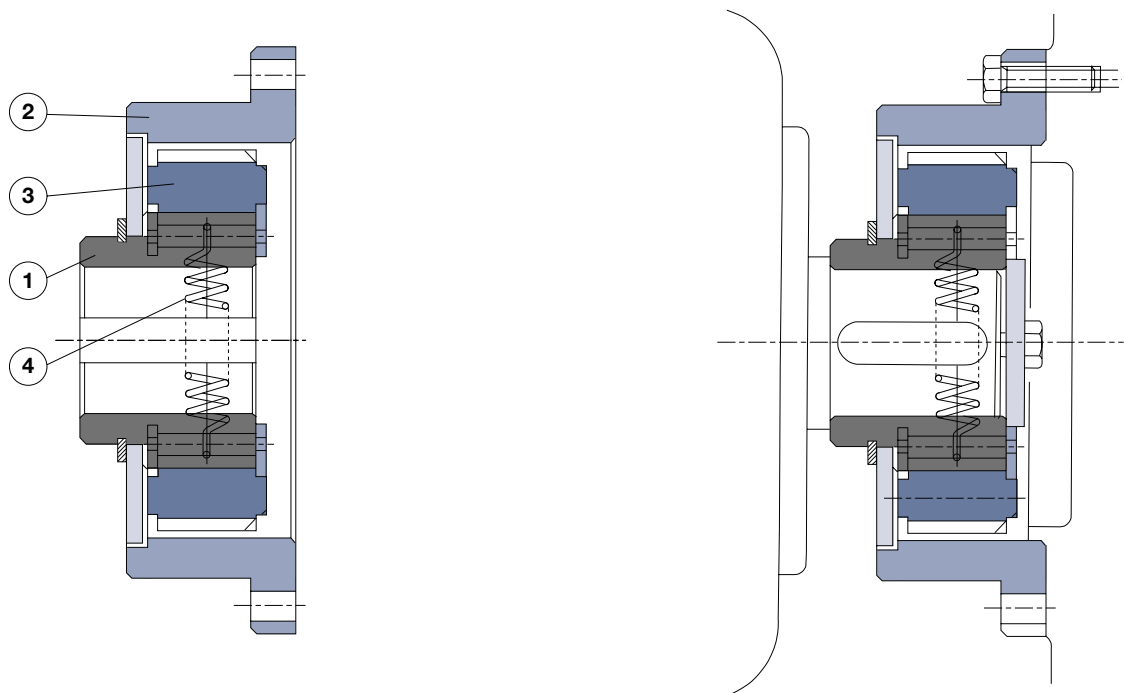
Adjustment

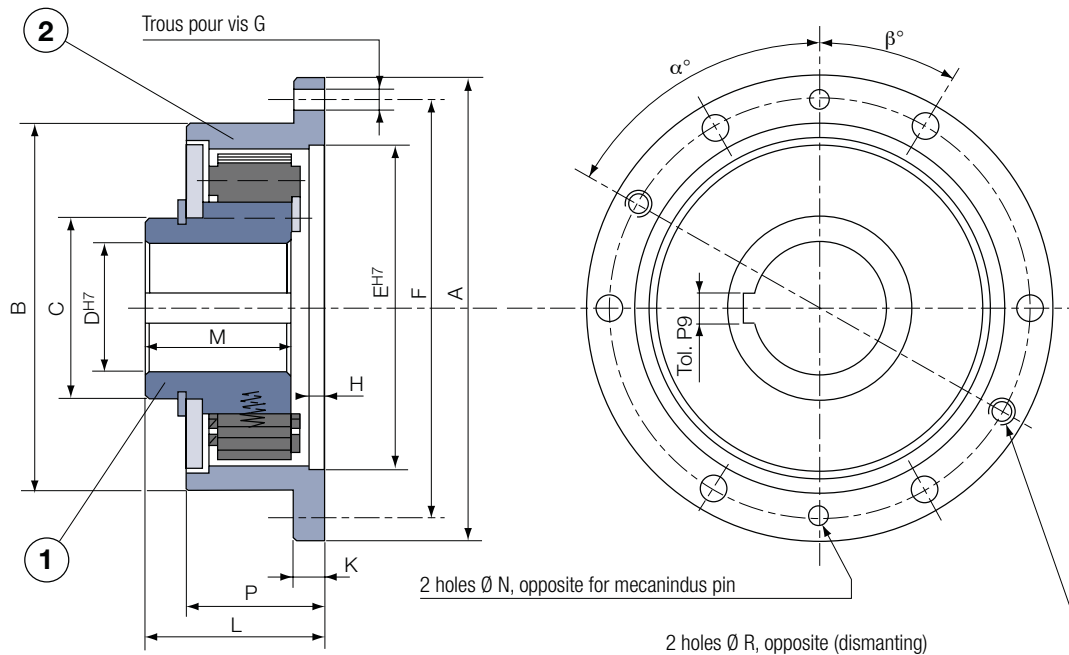
- No adjustment is required

Maintenance Manual

- SM409

Mounting Example





| Speeds | | | | |
|---------------------|-------|------|------|------|
| Nil torque | [RPM] | 1300 | 1650 | 1850 |
| Rated torque | [RPM] | 2500 | 2700 | 2800 |

| Sizes | | 5 | 10 | 20 | 40 | 80 |
|--------------------|---------------------|--------|--------|-------|-------|--------|
| Nom. Torque | [Nm] | 50 | 100 | 200 | 400 | 800 |
| Inertie ① | [kgm ²] | 0,0054 | 0,0110 | 0,017 | 0,030 | 0,044 |
| Inertie ② | [bar] | 0,0393 | 0,0590 | 0,133 | 0,198 | 0,268 |
| | A | 220 | 220 | 280 | 280 | 280 |
| | B | 180 | 180 | 230 | 230 | 230 |
| | C | 80 | 80 | 110 | 110 | 110 |
| | D min | 16 | 16 | 20 | 20 | 20 |
| | D max | 55 | 55 | 70 | 70 | 70 |
| | E | 140 | 140 | 170 | 170 | 170 |
| | F | 200 | 200 | 255 | 255 | 255 |
| | G | 6xM8 | 6xM8 | 6xM12 | 6xM12 | 12xM12 |
| | H | 6 | 6 | 8 | 8 | 8 |
| | K | 15 | 15 | 20 | 20 | 20 |
| | L | 70 | 105 | 80 | 120 | 170 |
| | M | 57 | 92 | 64 | 104 | 150 |
| | N | 8 | 8 | 12 | 12 | 12 |
| | P | 55 | 97 | 63 | 110 | 161 |
| | R | M8 | M8 | M10 | M10 | M10 |
| | α° | 120° | 120° | 120° | 120° | 90° |
| | β° | 30° | 30° | 30° | 30° | 15° |
| Weight | [kg] | 8,5 | 15 | 18,5 | 30 | 43 |

Example of designation of a unit size 20, nil torque at 1650 RPM and rated torque at 2700 RPM :

FC 20 1650/2700 G

Rainure de clavette conforme à:
ISO/R 773 / BS 4235 / DIN 6885-1 / NF E 22-175, tolérance P9