

# 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.

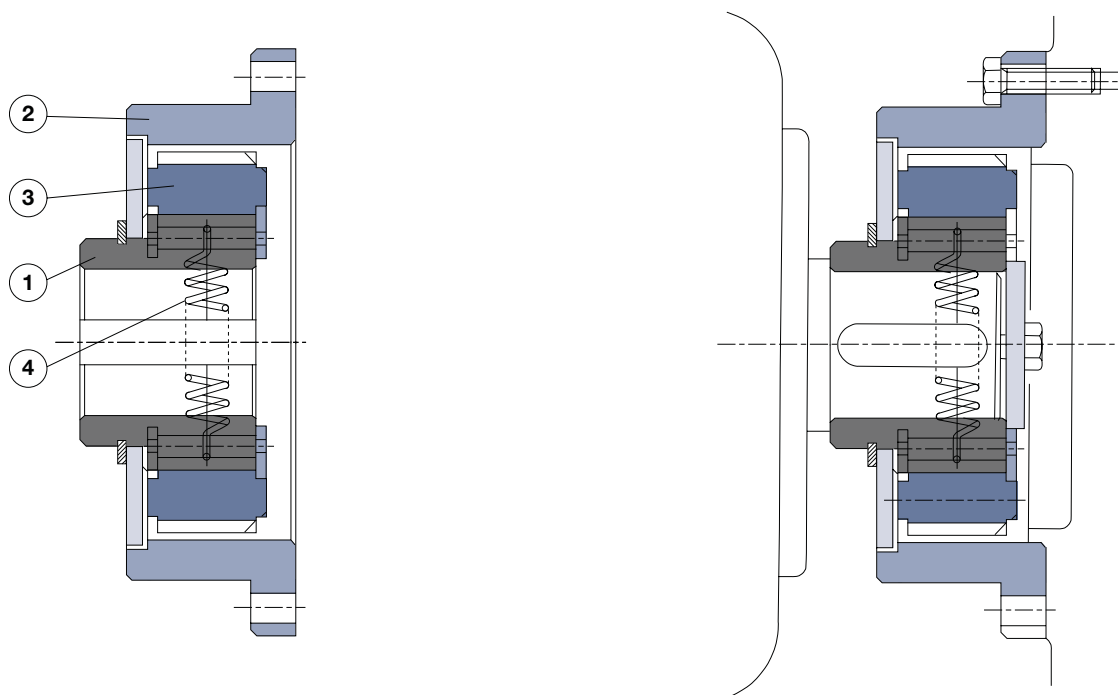
### Adjustment

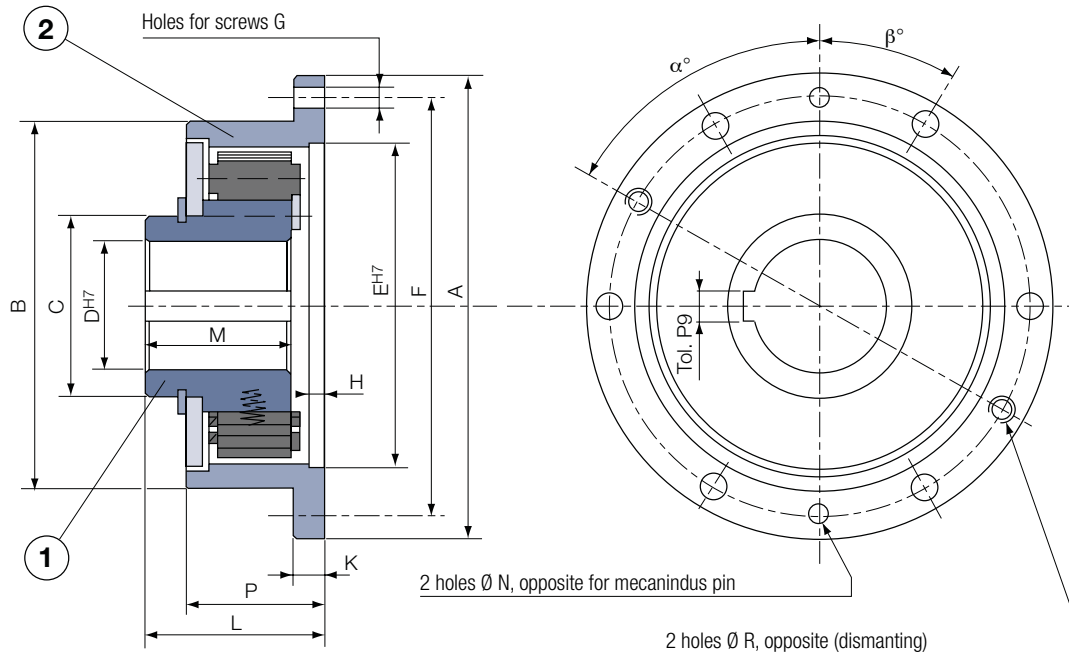
- No adjustment is required

### 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 <sup>2</sup> ]	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
	$\alpha^\circ$	120°	120°	120°	120°	90°
	$\beta^\circ$	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

Keyways according to ISO/R 773 / BS 4235 / DIN 6885-1 / NF E 22-175, tolerance P9