

BCH caliper for Windmills



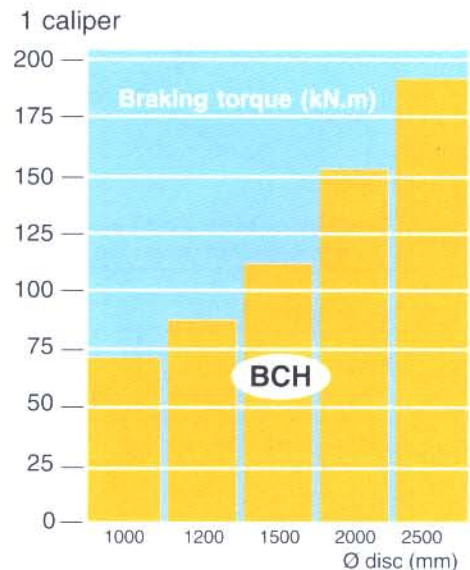
Left: BCH on lowspeed drive

Down: BCH on yaw drive

The BCH caliper range consists of several hydraulic, positive disc brakes, especially designed to equip wind turbines.

Among a choice of parameters: mounting holes - quantity, position, diameter -, operating pressures, climatic adaptations, ... The BCH family is the widest of its type on the market ! SIME-Stromag brakes feature:

- Specific jack design
- Exclusive lining
- Pads are fitted
- No oil leaks
- Silent operation
- Low stress on azimuth drive



Other characteristics:

- Hydraulic caliper
- Direct acting caliper
- Few components
- Easy mounting and removing of the linings
- Automatic wear compensation
- Installation on any type of disc
- Wide range of mounting combinations
- Option "W": additional hydraulic circuit
- Option: "marine protection"

Advantages:

- Powerful braking
- Reliability / low maintenance costs
- Maintenance is easier and less frequent
- Short maintenance time
- No on-site setting, constant braking torque
- No disc diameter or thickness limitation
- Fits all wind turbines specificities
- Remote monitoring of end of lining wear
- Adapted to off-shore operation

Disc brakes

Technical data and dimensions

Caliper BCH 859A-P-828

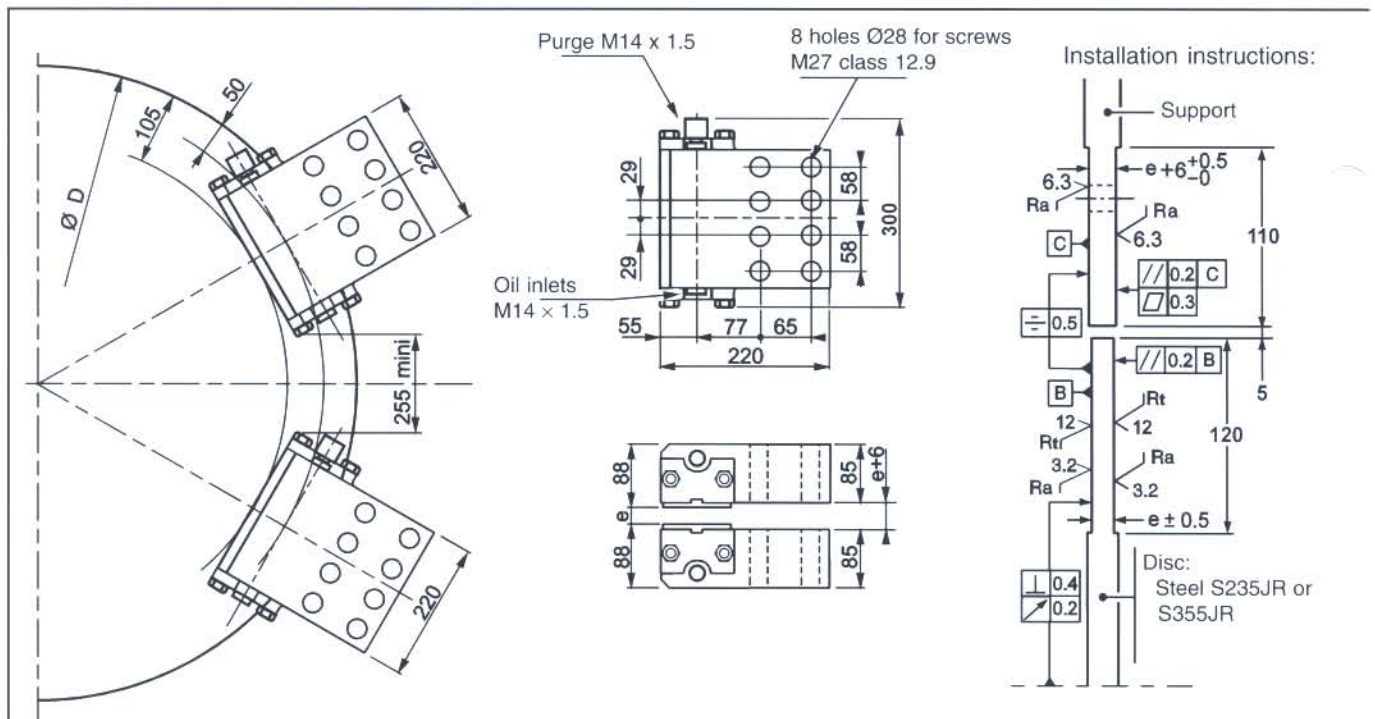
Operating conditions:

- Ambient temperature: -10°C to +60°C
- Relative humidity ≤ 70%
- Other conditions, consult SIME.

Braking by application of hydraulic pressure
 Brake to operate with full or controlled torque

Use:

For braking the yaw movement on windmills.



The braking force will be available only after bedding in of the friction pads.
 Torque and effort values are subject to a variation of ±10%

Designation	Caliper		BCH 859A-P-828
	Lining*		US 2-5
Braking Force BF for max. working pressure	Static N		160 000
	Dynamic N		160 000
Linear speed of the disc **	m/s		≤ 10
Braking torque BT for 1 caliper on disc ØD	630 mm		44 400
	710 mm		48 800
	800 mm		56 000
	1000 mm		72 000
	1200 mm		88 000
BT for other Ø D (mm)	1500 mm		112 000
	Nm		BT = BF (D/2000 - 0.05)
Maximum working pressure	bars		160
Total volume of oil displaced	cm		10 with new pads
	cm ³		320 with worn pads
Weight	kg		56

* Linings US 2-5 for disc temperature ≤ 300°C

** For higher speed, consult us.

Due to continuous development and improvement, all dimensions and characteristics are subject to change without notice.

SIME-StromagSAS

13 rue de la Perdrix BP 40004 - 95911 ROISSY CDG CEDEX FRANCE
 Tel.: +33 (0)1.49.90.32.20 - Fax: +33 (0)1.49.89.06.38 - Email: sales@sime-stromag.com



05/00

3960-3