

#### **Description:**

- The ABS 75-FC brake is an Active Brake, Hydraulically Applied; braking force produced by variation of hydraulic pressure.
- The ABS 75-FC brake is designed as a floating caliper with one hydraulic cylinder. ABS brakes are suitable for horizontal and vertical brake discs under any angular displacement.

#### **Design Advantage:**

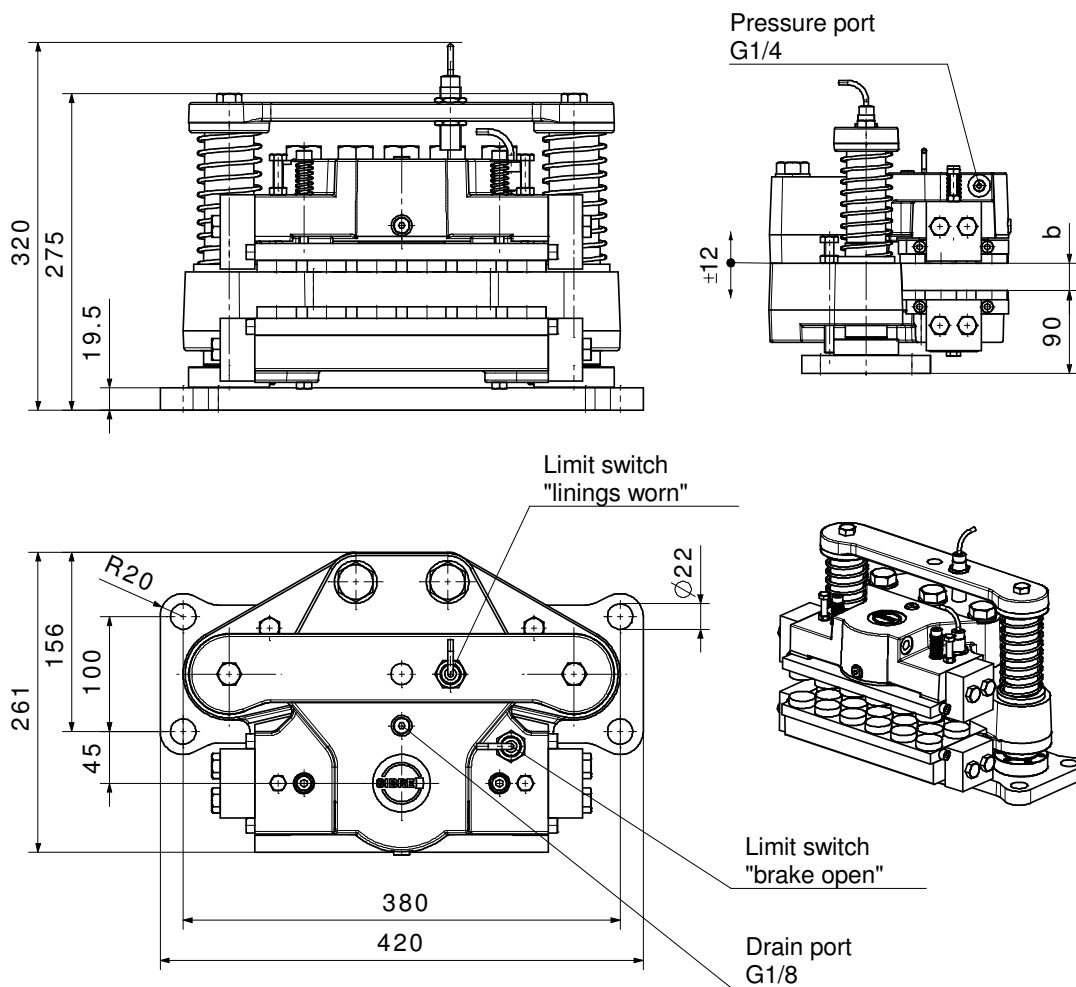
- Compact and robust construction
- Fast response time, fast braking for maximum safety
- Stainless steel piston
- Sinter linings for high speed/high energy application
- Lining retraction springs ensure air gap between lining and disc, when brake is open
- Removable retainers allow easy change of linings
- Suitable for low temperature application
- Long service life
- Easy maintenance

#### **Application:**

**Stopping and/or holding brake for wind turbines**

Alterations reserved

Siegerland Bremsen – Emde GmbH & Co. KG – Auf der Stücker 1-5 – D-35708 Haiger, Germany  
Tel.: +49 2773 94000 – Fax: +49 2773 9400-10 – e-mail: [info@sibre.de](mailto:info@sibre.de) – [www.sibre.de](http://www.sibre.de)



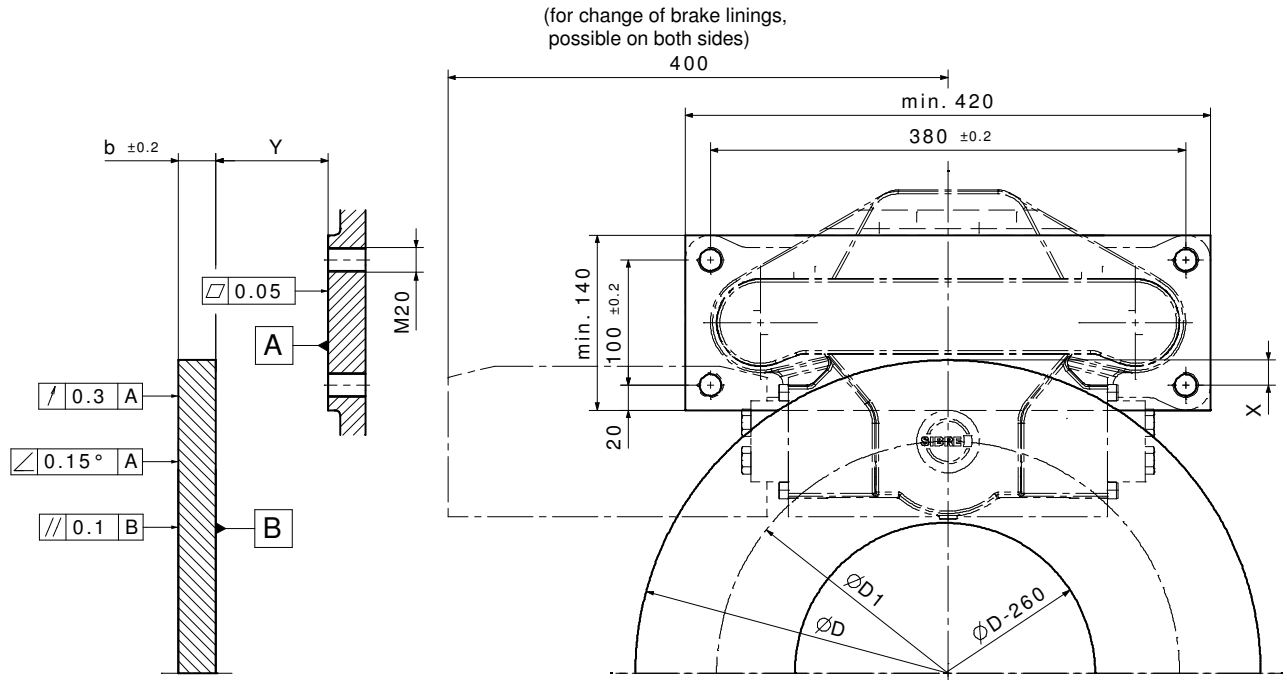
Piston diameter	$\varnothing d_p$	75 mm
Piston area	$A_p$	4418 mm <sup>2</sup>
Operating pressure	$p$	125 bar
Max. plant pressure	$p_{max}$	140 bar
Oil volume per 1 mm stroke	$V_{oil}$	4,4 cm <sup>3</sup>
Lining type		sinter
Lining surface	$A_L$	200 cm <sup>2</sup>
Max. lining wear	$s_L$	7 mm
Nominal friction coefficient	$\mu$	0,4
Max. braking force	$F_{Br max}$	44000 N
Disc thickness	$b$	20 – 40 mm
Minimum disc diameter	$D_{min}$	500 mm
Floating range on guidance pins	$r$	± 12 mm
Temperature range (for lower temperatures please contact us)	$T$	-20 °C to 70 °C
Weight (complete)	$m$	80 kg

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## Mounting

$$Y = 90 \pm 12$$



$\varnothing D$	$\varnothing D1$	X
$500 \leq \varnothing D < 1500$	$\varnothing D1 = \varnothing D - 130$	20
$1500 \leq \varnothing D < 1600$	$\varnothing D1 = \varnothing D - 126$	18
$1600 \leq \varnothing D < 2000$	$\varnothing D1 = \varnothing D - 120$	15
$2000 \leq \varnothing D < 4000$	$\varnothing D1 = \varnothing D - 110$	10

## Calculation of Braking Torque

$$M_{Br} = F_{Br} \cdot \frac{D_1}{2} = 2 \cdot A_p \cdot p \cdot \mu \cdot \frac{D_1}{2} = A_p \cdot p \cdot \mu \cdot D_1$$

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