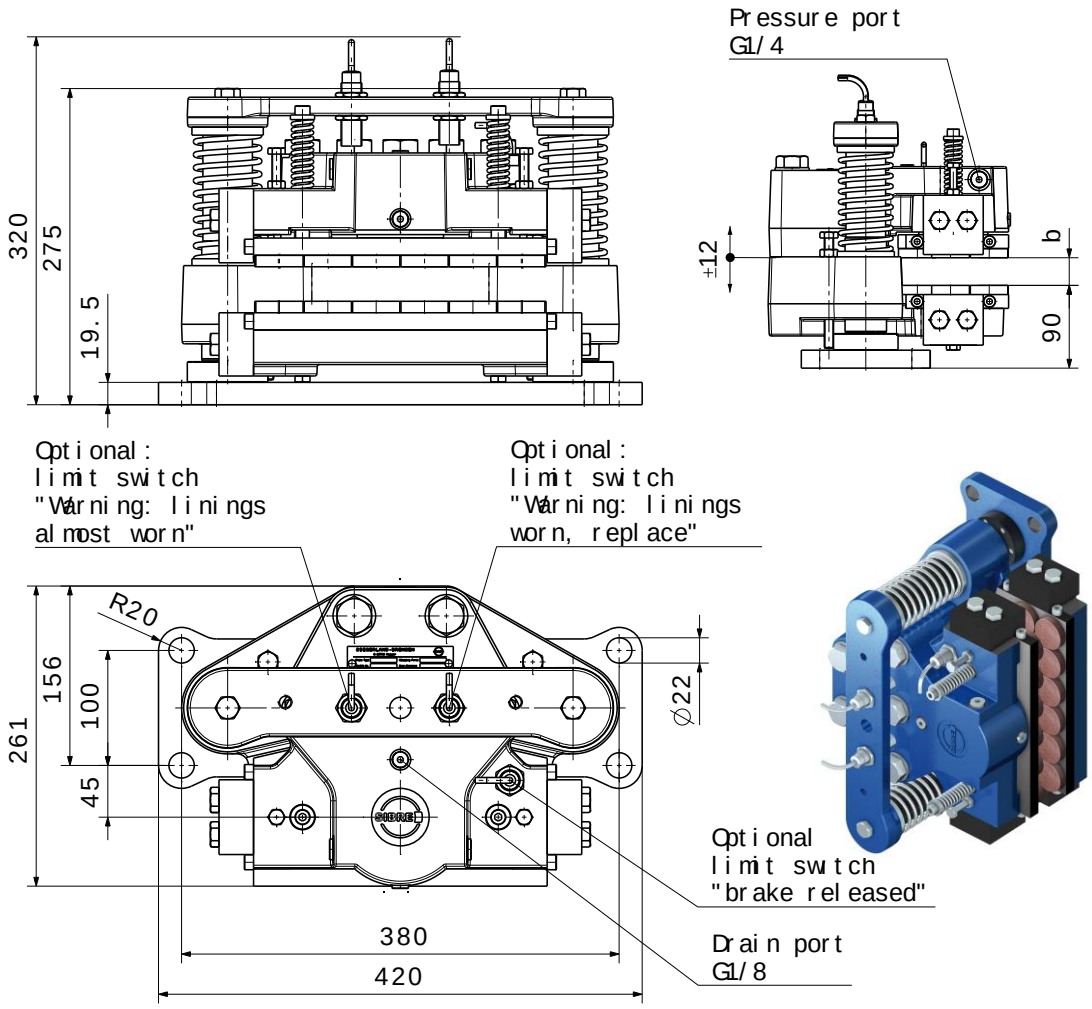

Application:

- **Stopping and/or holding brake for rotor of wind turbines**

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

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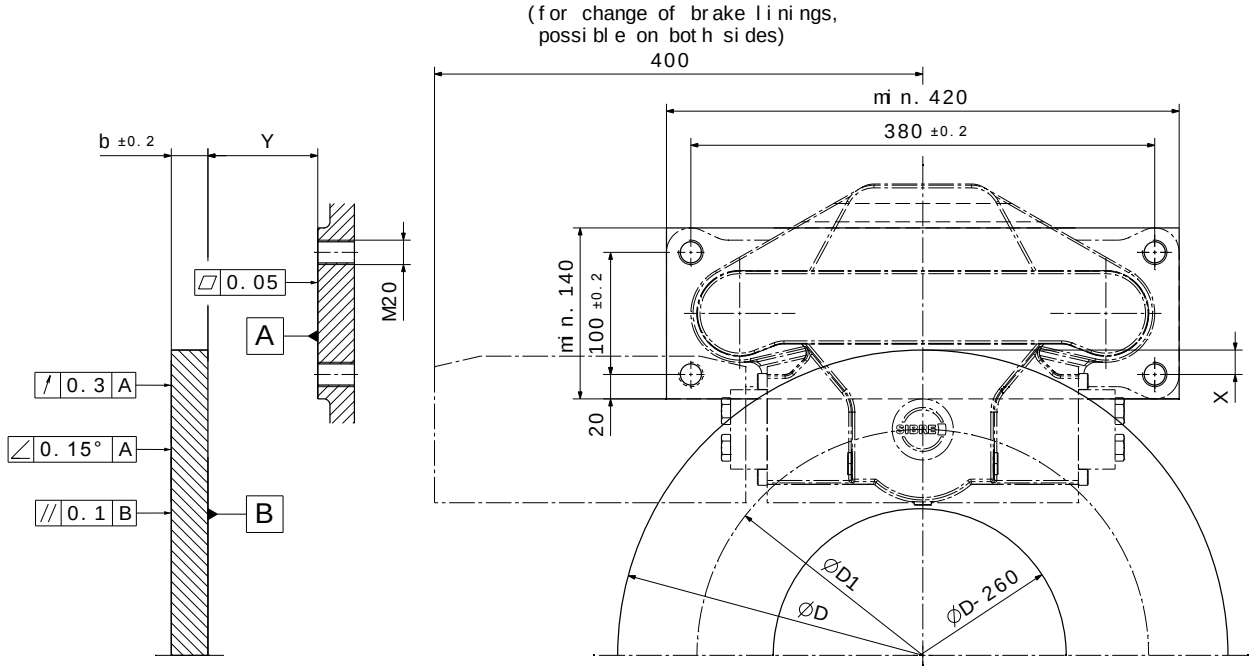
		ABS 75 FC
Piston diameter	$\varnothing d_P$	75 mm
Piston area each side	A_P	4418 mm²
Operating pressure	p	125 bar
Max. plant pressure	p_{max}	140 bar
Oil volume per 1 mm stroke	V_{Oil}	4,4 cm³
Lining type		sinter
Lining surface	A_L	200 cm²
Max. lining wear	s_L	7 mm
Nominal friction static	μ	0.4
Max. braking force	$F_{Br\ max}$	44 000 N
Disc thickness	b	20 – 40 mm
Min. disc diameter	$\varnothing D_{min}$	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	m	80 kg

Mounting: Y = 90 ± 12



Calculation of Braking Torque

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

ØD	ØD1	X
500 ≤ ØD < 1500	ØD1 = ØD – 130	20
1500 ≤ ØD < 1600	ØD1 = ØD – 126	18
1600 ≤ ØD < 2000	ØD1 = ØD – 120	15
2000 ≤ ØD < 4000	ØD1 = ØD – 110	10