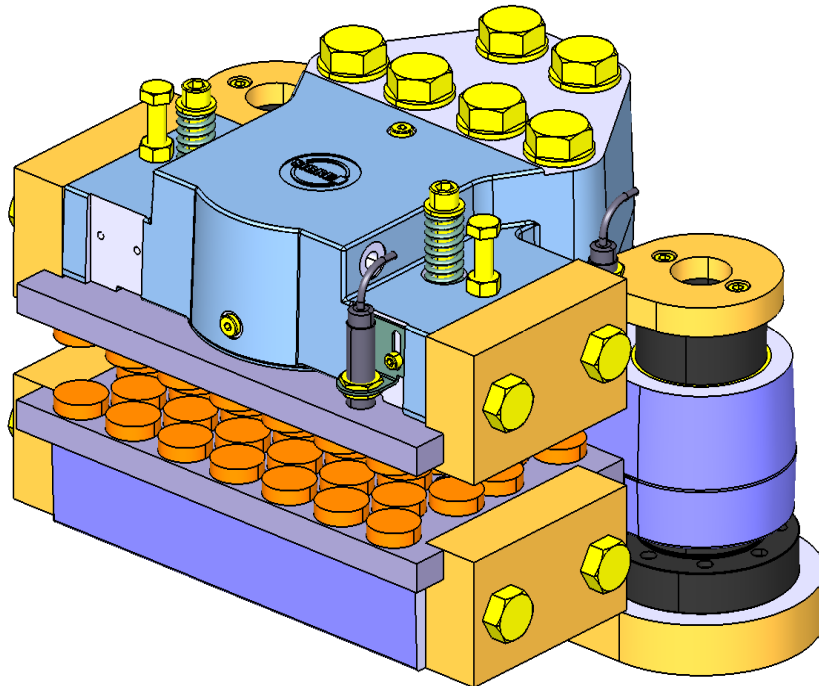




Description:

- The ABS 120-FC brake is an Active Brake, Hydraulically Applied; braking force produced by variation of hydraulic pressure.
- The ABS 120-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

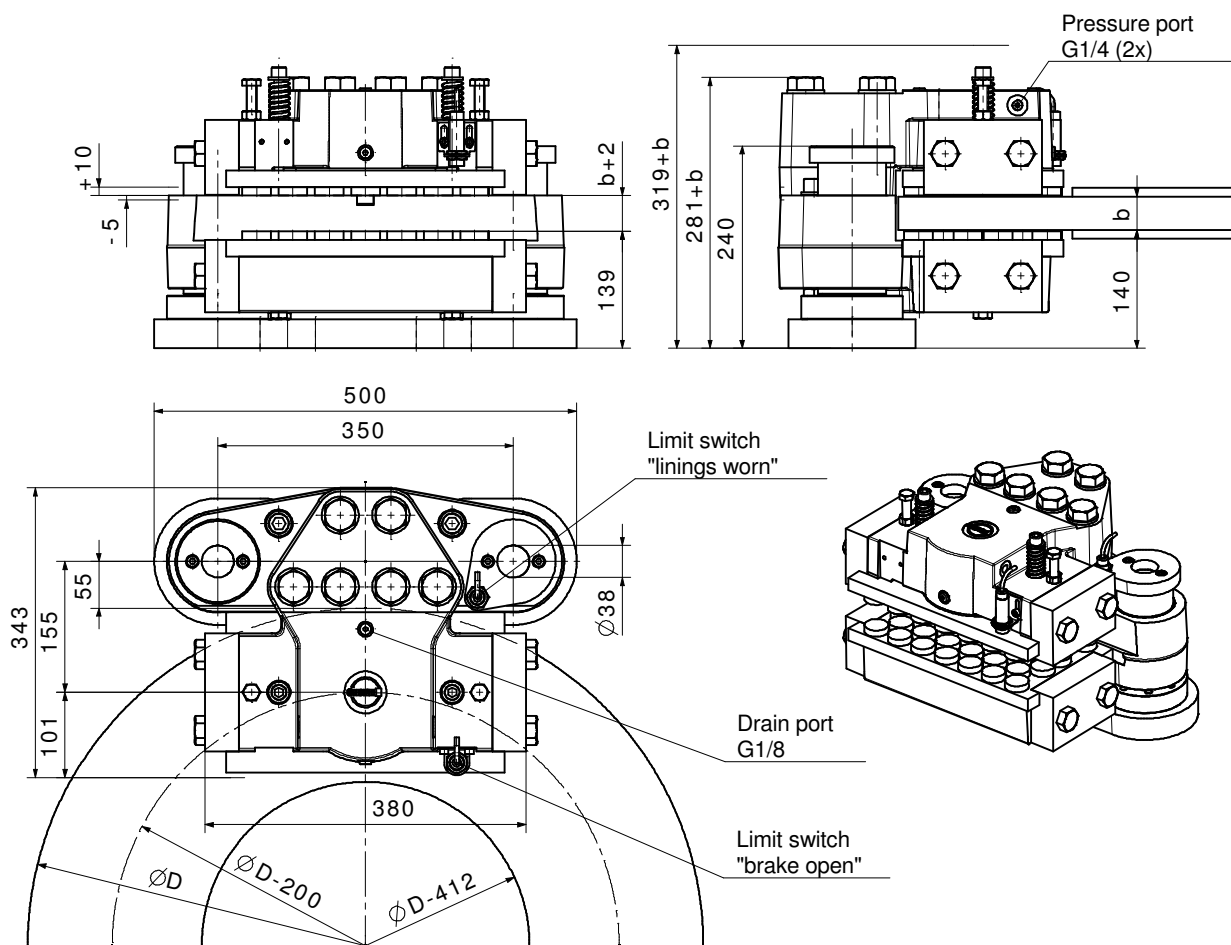
Application:

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 – www.sibre.de

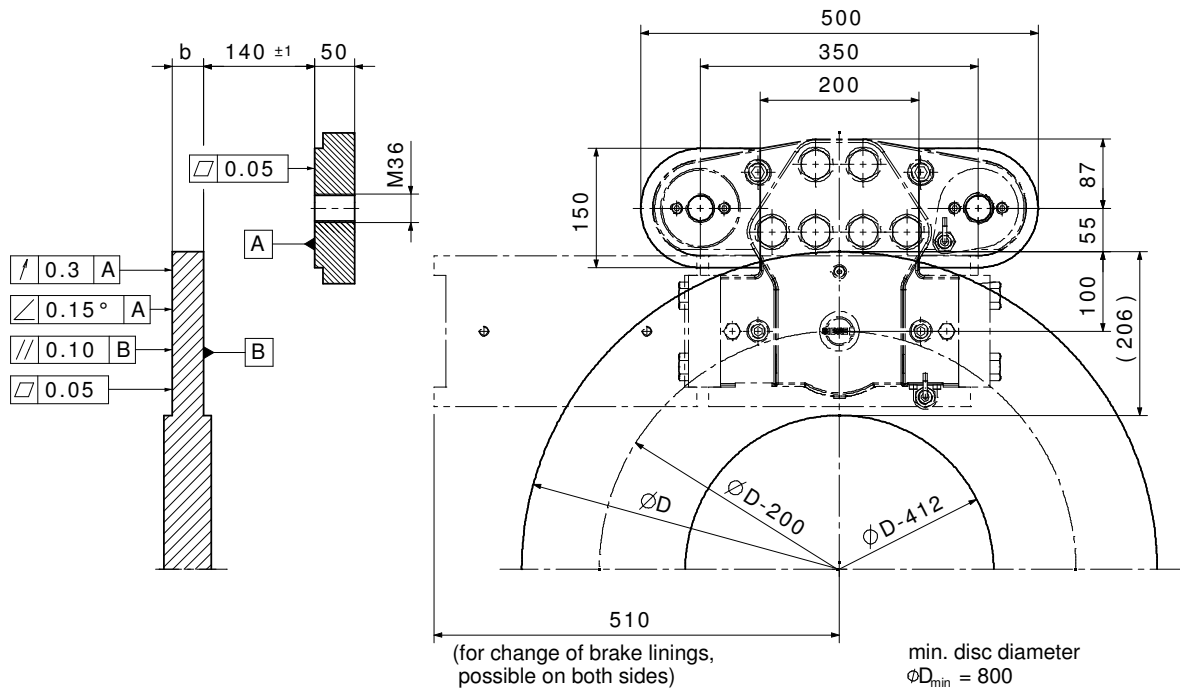


Piston diameter	$\varnothing d_p$	120 mm
Piston area	A_p	11310 mm ²
Operating pressure	p	115 bar
Max. plant pressure	p_{max}	130 bar
Oil volume per 1 mm stroke	V_{oil}	11,3 cm ³
Lining type		sinter
Lining surface	A_L	363 cm ²
Max. lining wear	s_L	7 mm
Nominal friction coefficient	μ	0,4
Max. braking force	$F_{Br max}$	104000 N
Standard disc thickness (for other disc thickness ask Sibre)	b	40 mm
Minimum disc diameter	$\varnothing D_{min}$	800 mm
Floating range on guidance pins	r	-5 mm / +10 mm
Temperature range (for lower temperatures please contact us)	T	-20 °C to 70 °C
Weight (complete)	m	180 kg

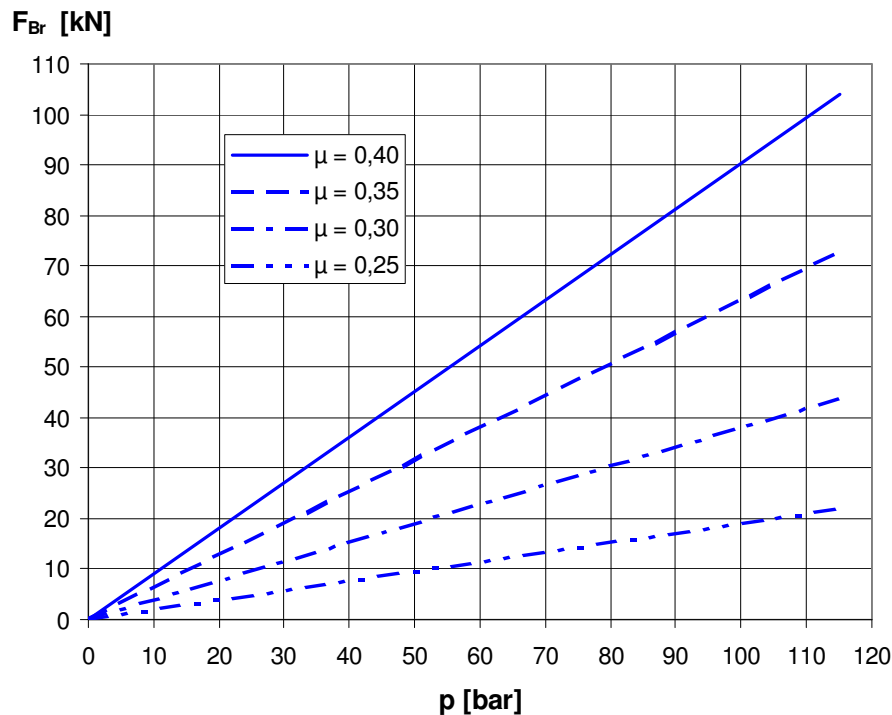
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Siegerland Bremsen – Emde GmbH & Co. KG – Auf der Stücker 1-5 – D-35708 Haiger, Germany
Tel.: +49 2773 94000 – Fax: +49 2773 9400-10 – e-mail: info@sibre.de – www.sibre.de

Mounting



Calculation of Braking Torque



$$M_{Br} = F_{Br} \cdot \frac{D - 200}{2} = 2 \cdot A_P \cdot p \cdot \mu \cdot \frac{D - 200}{2} = A_P \cdot p \cdot \mu \cdot (D - 200)$$

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