

#### **Description:**

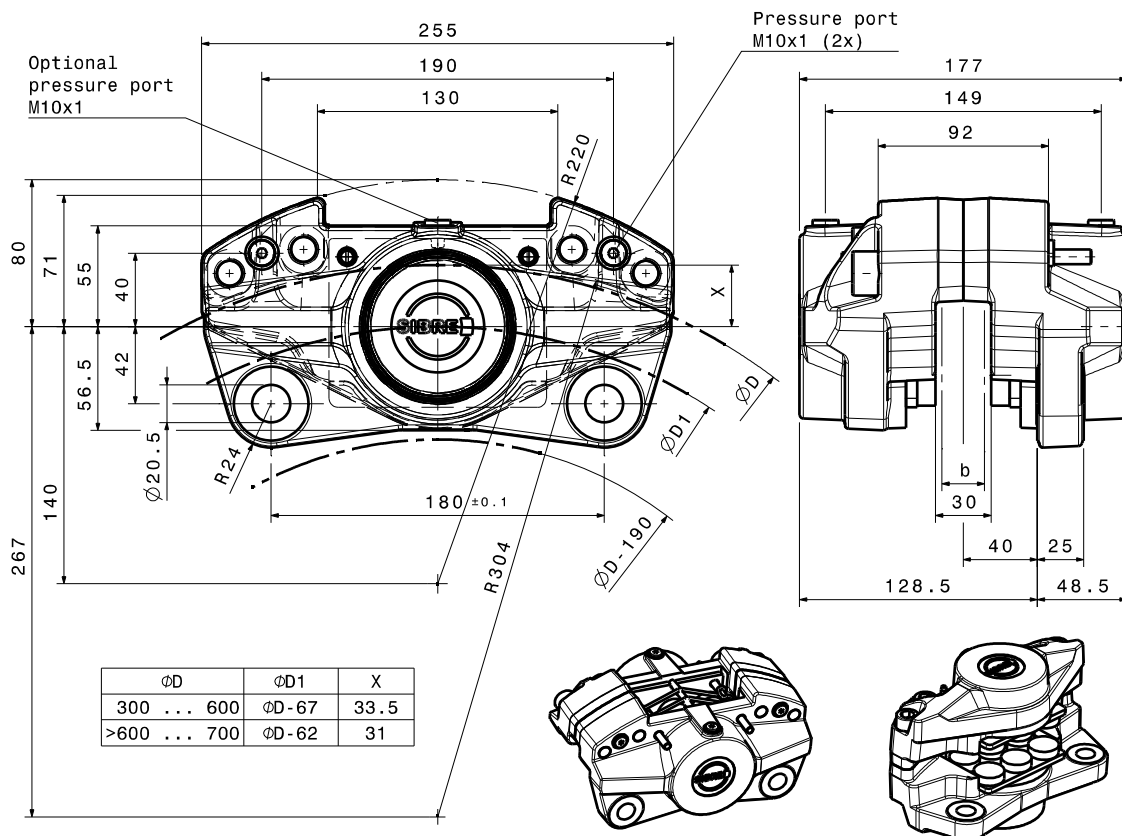
- The ABS 75 G brake is an active, hydraulically applied brake.
- The ABS 75 G brake consists of two independent caliper halves with opposite hydraulic cylinders.
- The ABS 75 G brake is suitable for horizontal and vertical brake discs under any angular displacement.

#### **Design Advantage:**

- Compact and robust construction
- Fast response time; fast braking for maximum safety
- Stainless steel piston
- High performance lining with stable friction coefficient
- Suitable for low temperature applications
- Long service life
- Easy access for minimal maintenance
- Suitable as rotor brake

#### **Application:**

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



		<b>ABS 75 G</b>
Piston diameter	$\varnothing d_p$	75 mm
Piston area each side	$A_p$	4417 mm <sup>2</sup>
Operating pressure	p	150 bar
Max. plant pressure	$p_{max}$	180 bar
Oil volume per 1 mm stroke	$V_{oil}$	9 cm <sup>3</sup>
Lining type		sinter
Lining surface	$A_L$	52 cm <sup>2</sup>
Max. lining wear	$s_L$	8 mm
Nominal friction static	$\mu$	0.4
Max. braking force ( $\mu = 0.4$ )	$F_{Br max}$	53000 N
Maximum disc diameter	$\varnothing D_{max}$	700 mm
Minimum disc diameter	$\varnothing D_{min}$	300 mm
Disc thickness	b	20 – 25 mm
Temperature range (for lower temperatures please contact us)	T	-20 °C to 70 °C
Weight	m	18 kg

**Calculation of Braking Torque** 
$$M_{Br} = F_{Br} \cdot \frac{D_1}{2} = A_p \cdot p \cdot \mu \cdot D_1$$

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)