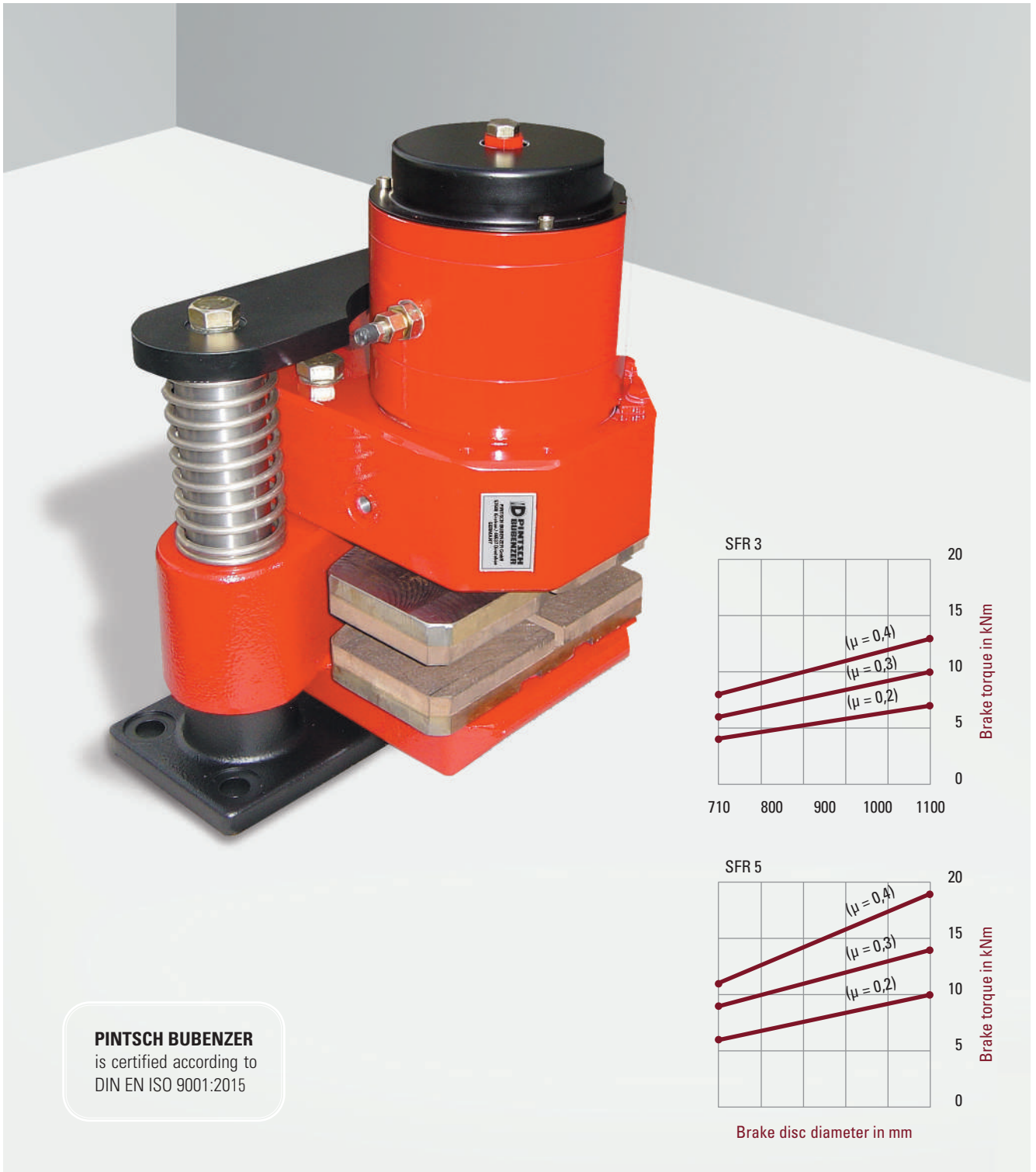
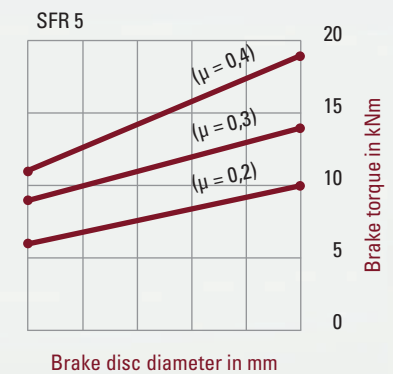
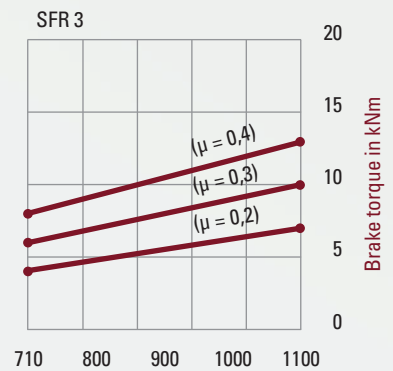



Rotor Brake (passive)
Hydraulic Caliper Disc Brakes SFR Series




PINTSCH BUBENZER
 is certified according to
 DIN EN ISO 9001:2015







Reliable



High Performance



Robust Design



Easy Maintenance

Rotor Brake (passive)

Description SFR



Main Features

- **Monospring** caliper brake, ready to operate, with spring pack set to nominal force
- **Sintered linings**
- Limit switch release control
- Easy, manual pad wear compensation
- Horizontal compensation +/- 5 mm
- Support for direct gear box mounting

Applications

■ The high capacity of these brakes makes them particularly suitable as rotor brakes in wind turbines

Options

- Limit switch wear control
- Hydraulic power units
- Brake discs and couplings
- Seals for special fluids
- **Sensors** for **remote monitoring** and diagnostic, like e.g. spring force-, temperature-, wear- and release gap monitoring
- CMB contact force measurement
- Automatic wear compensator
- Temperature sensor

Operating Restrictions

■ Brakes of this range are tested both mechanically and hydraulically and are set to nominal force. This setting can only be changed by the manufacturer. Operating conditions other than described in this brochure require the manufacturer's approval and may influence the function of the caliper and its components



Please Note

We supply a detailed operating manual with every order. Nevertheless, we would point out that brakes are only as safe as the servicing and maintenance performed while they are in operation. The guarantee for the correct functioning of our brakes is therefore only valid if the user adheres to the German DIN standard 15434 part 2 (drum and disc brakes, servicing and maintenance in operation), or to comparable standards in his own country.



PINTSCH BUBENZER Service

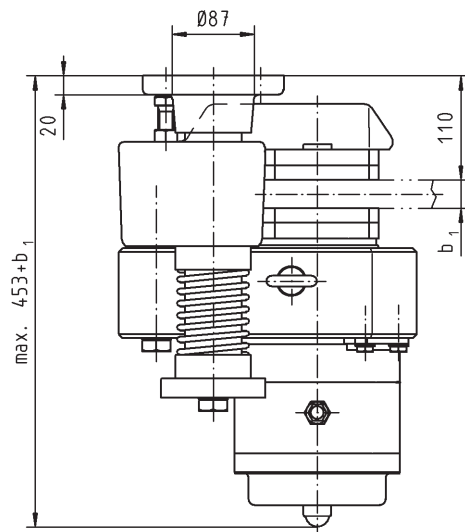
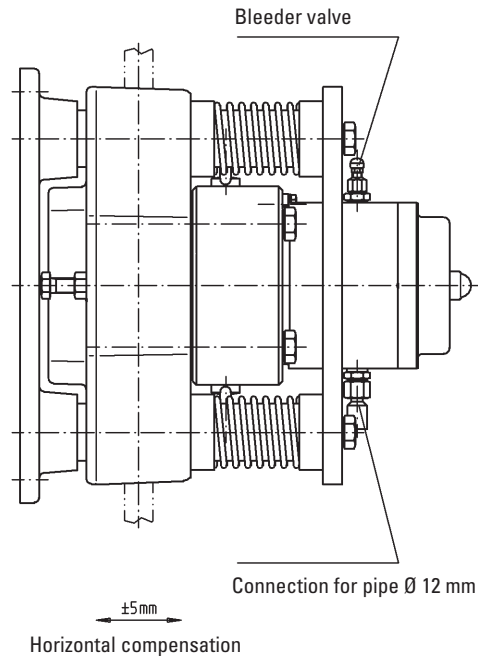
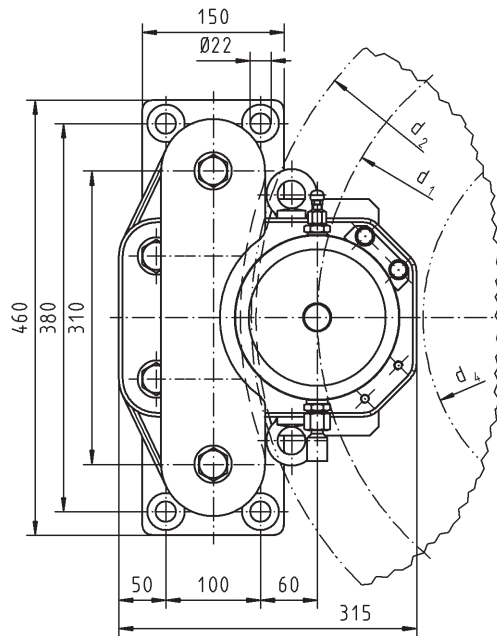
This includes the verification of the brake selection, if required. A detailed questionnaire is provided for this purpose. Installation and commissioning on site is possible by PINTSCH BUBENZER service engineers. Drawings as DWG/DXF files for your engineering department are available upon request.

Rotor Brake (passive) SFR 3-5

Dimensions and technical data



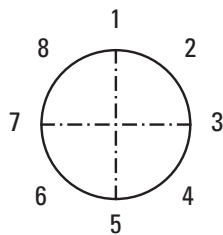
Rev. 03-09



*) Average friction factor of standard material combination dependent upon operational conditions

All dimensions in mm
Alterations reserved without notice

Brake torque M_{Br} in Nm = F_A (kN) x μ x d_1 (mm)



Please indicate mounting position in case of order

Type SFR		3	5
Contact force F_A	kN	35	50
Operating pressure	bar	55	80
Max. pressure	bar	135	135
Rel. stroke (per side)	mm	1	1
Oil volume	l	0.023	0.023
Pad surface (1 pad)	cm ²	250	250
Theor. friction	μ^*	0,2... 0,3... 0,4	0,2... 0,3... 0,4
Weight	kg	159	159
Bolt	Ø	M20	M20
Bolt material		10.9	10.9
Tighten. torque	Nm	560	560

Brake disc		
Brake disc Ø d_2	mm	710... 1100
Friction Ø d_1	mm	d2-140
Max. perm. Hub Ø d_4	mm	d2-360
Disc thickness b_1	mm	30... 40