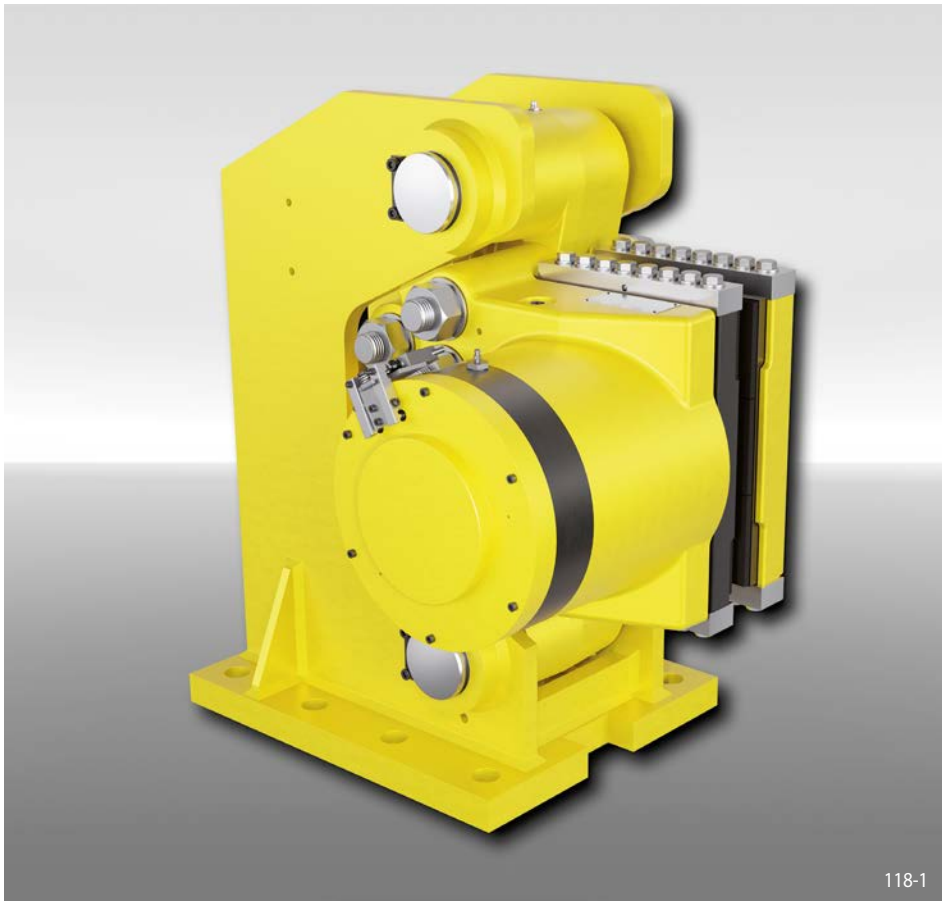
Brake Caliper HS 215 FHM-555 … -H

spring activated – hydraulically released

RINGSPANN®



Features

Features	Code
Brake Caliper	H
Floating caliper	S
Frame size 215	215
Spring activated	F
Hydraulically released	H
Manual adjustment to accommodate friction block wear	M
Max. clamping force 555 kN	555
Thruster mounted right or left available	R L
Mounting to the machine at right angles to the brake disc	H

Example for ordering

Brake Caliper HS 215 FHM, max. clamping force 555 kN, thruster mounted left, mounting to the machine at right angles to the brake disc:

HS 215 FHM-555 L-H

Technical Data

Brake disc diameter mm	Braking torque Nm
1 000	164 400
1 250	220 000
1 600	297 800
2 000	386 700
3 000	608 900
3 500	720 000
4 000	831 100
Clamping force	555 kN
Oil pressure	min. 230 bar max. 250 bar
Oil volume	max. 150 cm^3
Thickness of brake disc W	30 mm
Weight	880 kg

The braking torques shown in the table are based on a theoretical friction coefficient of 0,4.

Working conditions

- Ambient temperature: -20 °C / +60 °C
- Air humidity: <90%

Monitoring switch

- 240 VAC 1.5 A; 250 VDC 0.1 A
- Cable 5 x 0.75 mm^2, length 2 m, outer diameter 7.5 mm
- Protection type IP67

Options

- Integrated Hydraulic Power Unit
- Friction pads with wear indicator cables or sintered friction linings (for high temperatures)
- Corrosion-protected version
- Low temperature version
- Offshore certifications
- ATEX certifications for hazardous areas

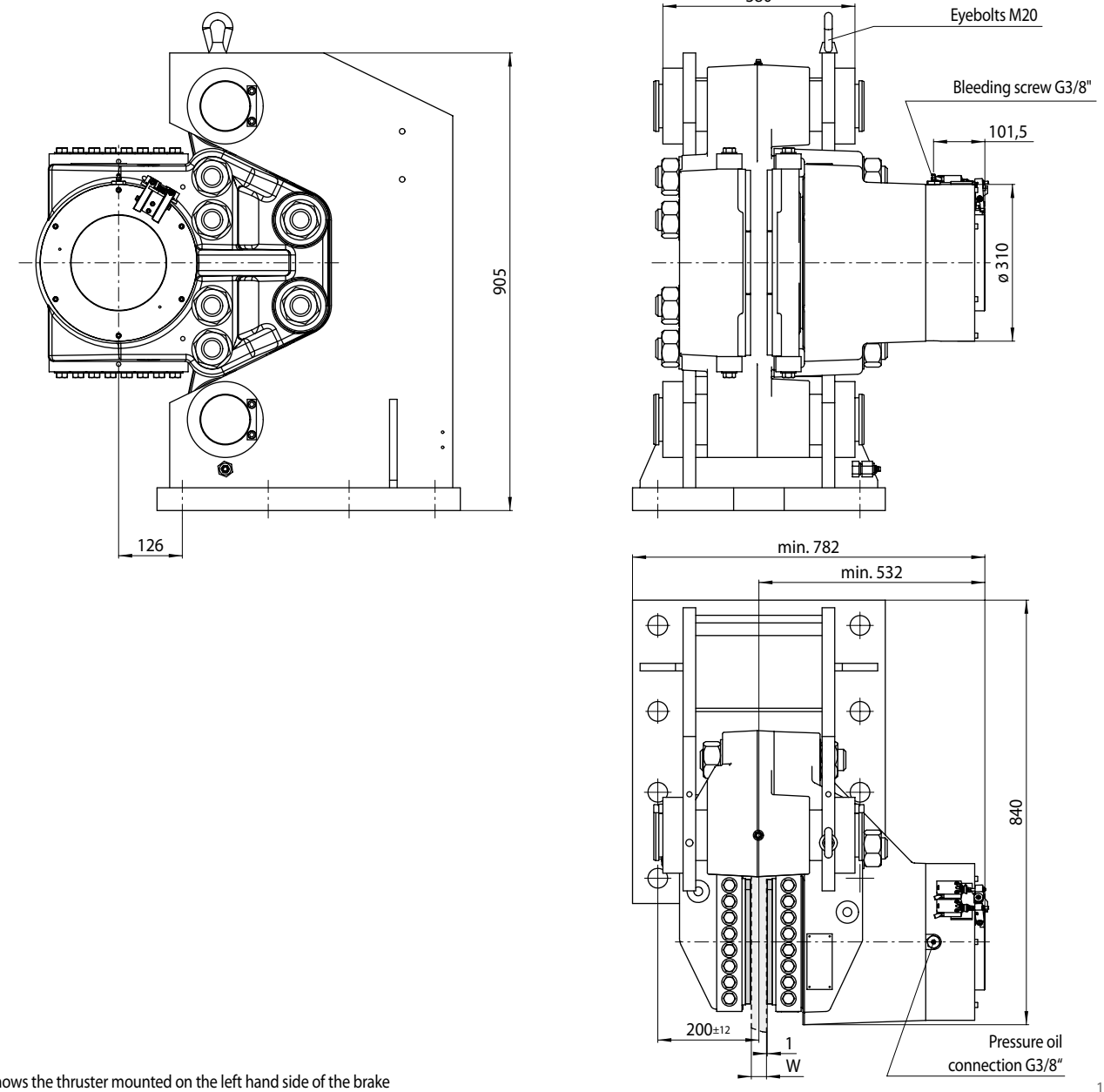
Notes

- Eyebolts included
- Fastening:
  8 screws M36, class 8.8 with tightening torque 2 200 Nm ±10% µ 0.15 (not supplied)

Brake Caliper HS 215 FHM-555 … -H

spring activated – hydraulically released

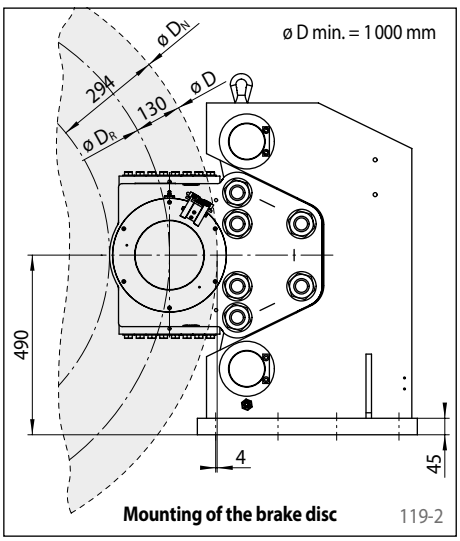
RINGSPANN®



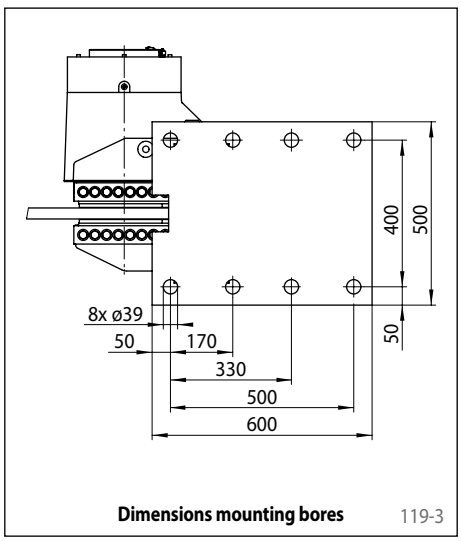
Drawing shows the thruster mounted on the left hand side of the brake

119-1

Mounting



Mounting of the brake disc 119-2



Dimensions mounting bores 119-3

Calculation of the friction diameter

$D_R = D - 260$ mm

Calculation of the hub diameter

$D_N = D - 588$ mm

Calculation of the braking torque

$M_B = F_K \cdot D_R \cdot \mu$

Formula symbols

D	=	Outer diameter brake disc [mm]
D_N	=	Hub diameter [mm]
D_R	=	Friction diameter [mm]
F_K	=	Clamping force [N]
M_B	=	Braking torque [Nm]
μ	=	Friction coefficient