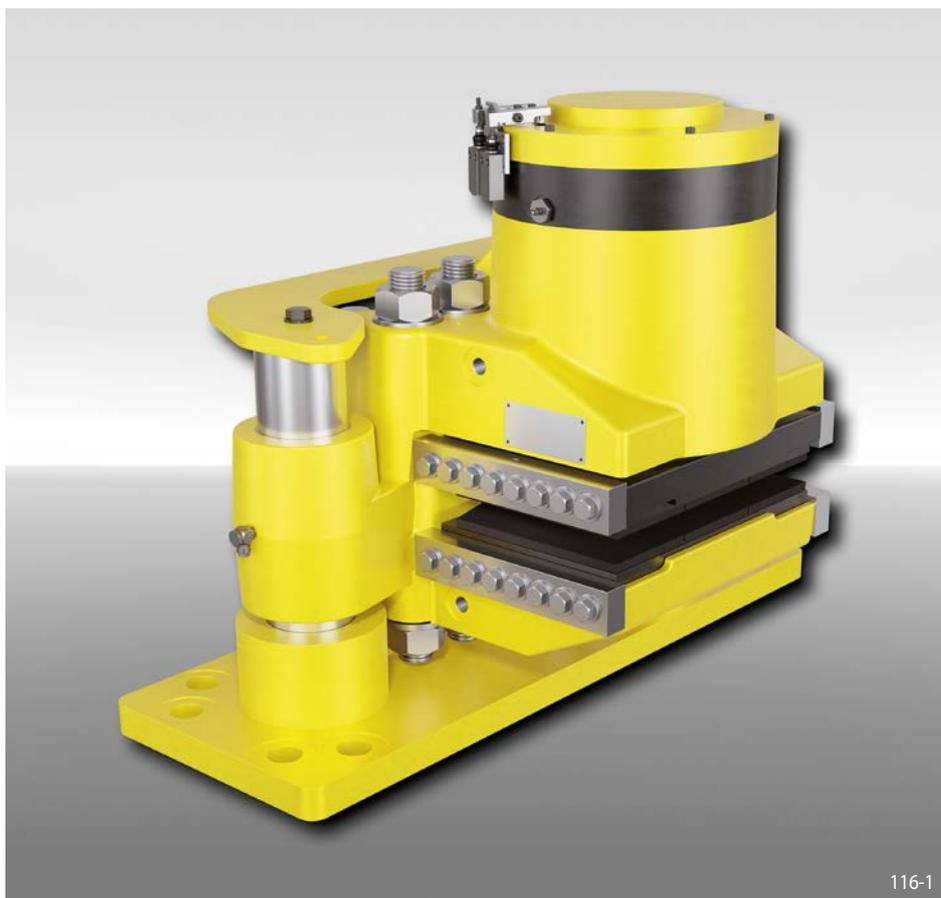


# Brake Caliper HS 215 FHM-555 R-V

spring activated – hydraulically released



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 available	R
Mounting to the machine parallel to the brake disc	V

### Example for ordering

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

HS 215 FHM-555 R-V

### 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 <sup>3</sup>
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<sup>2</sup>, length 2 m, outer diameter 7.5 mm
- Protection type IP67

### Options

- 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

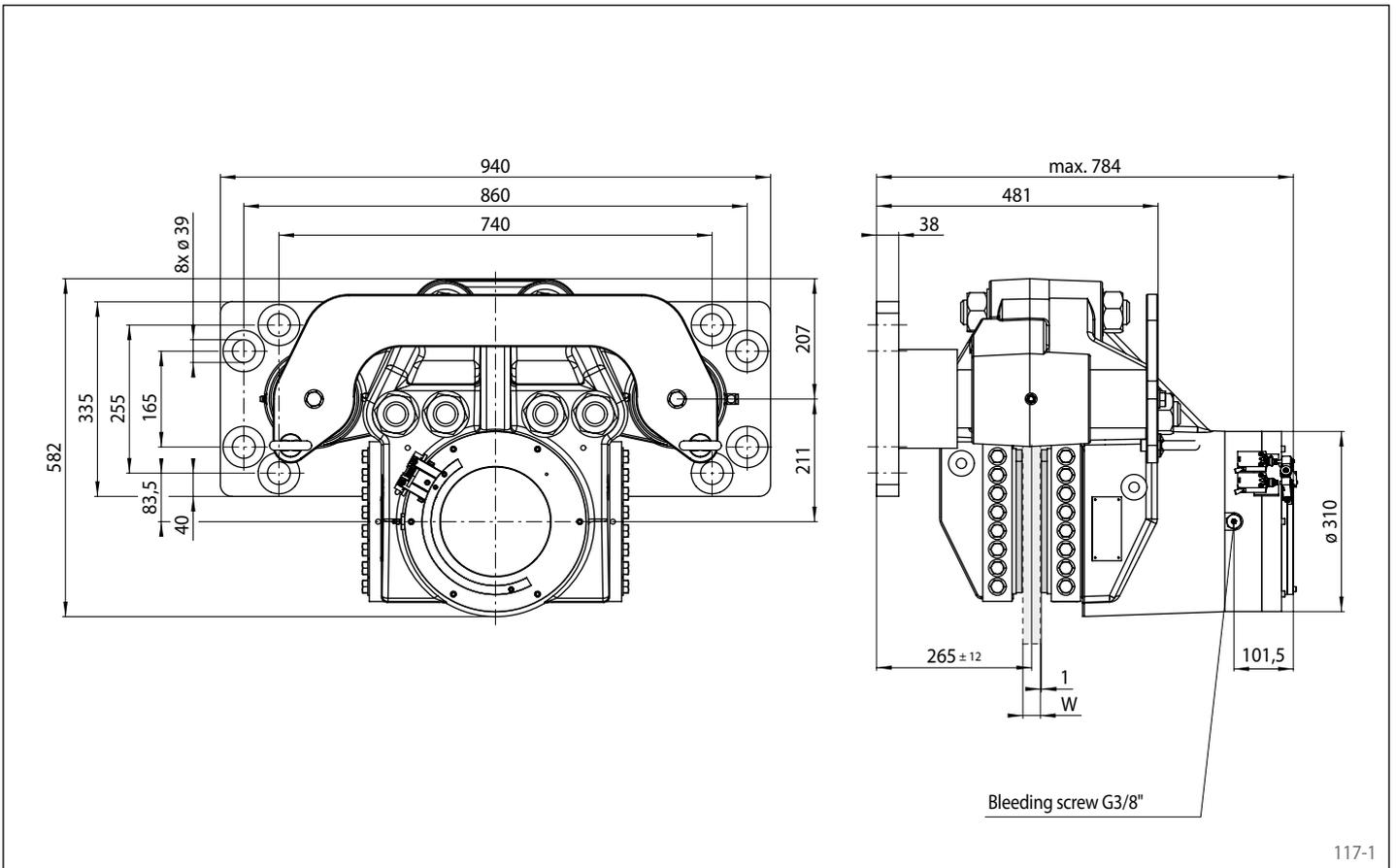
### Notes

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

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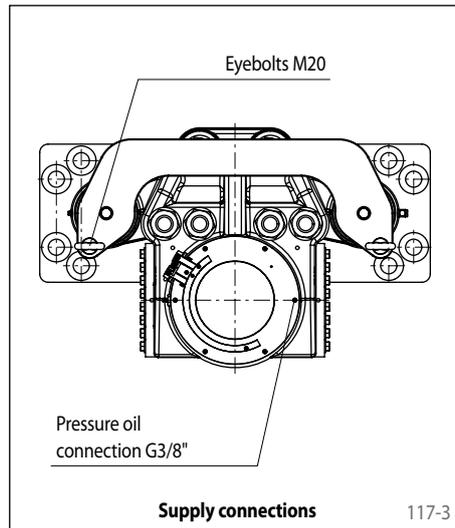
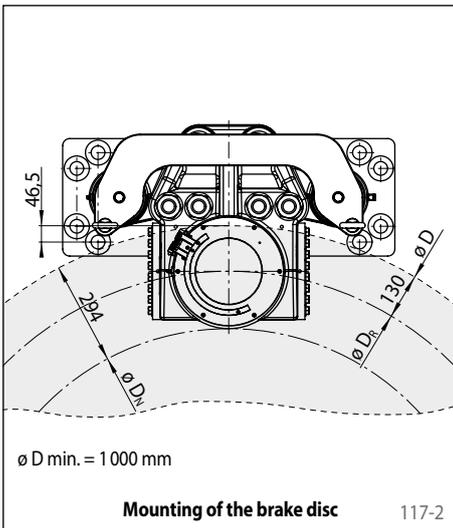
**RINGSPANN®**

spring activated – hydraulically released



117-1

## Mounting



## Calculation of the friction diameter

$$D_R = D - 260 \text{ mm}$$

## Calculation of the hub diameter

$$D_N = D - 588 \text{ mm}$$

## 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]

$\mu$  = Friction coefficient