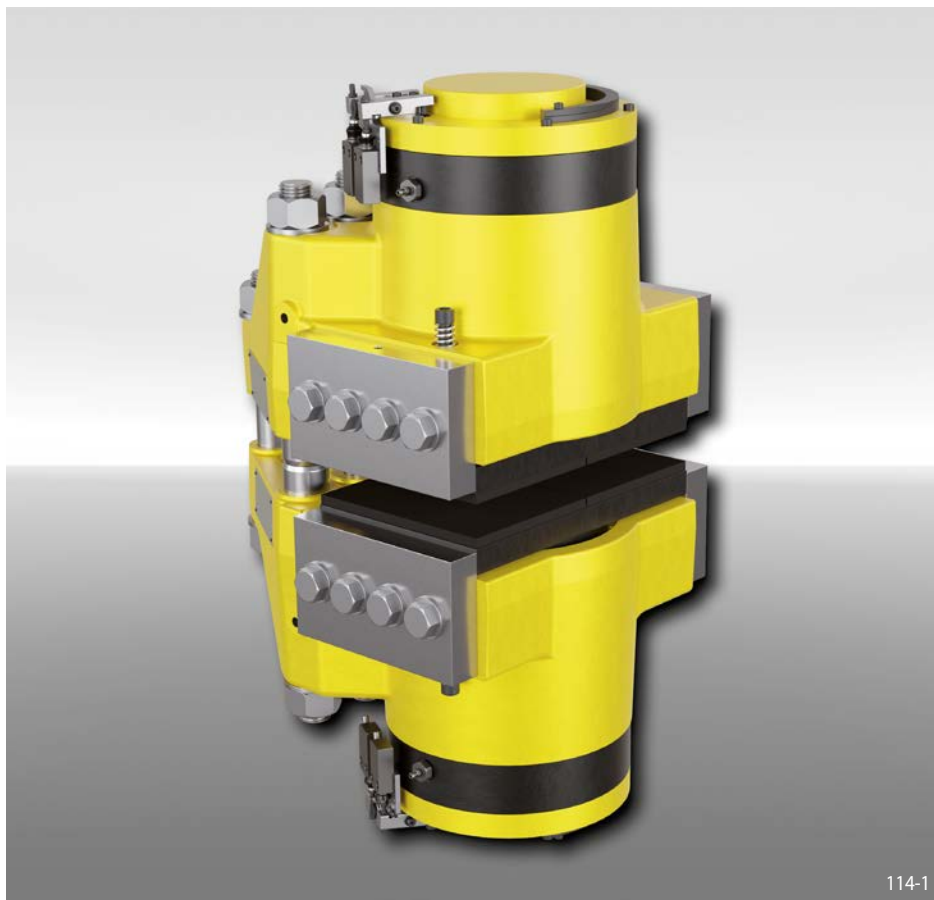


Brake Caliper HW 165 FHM

spring activated – hydraulically released

RINGSPANN®



Features

Features	Code
Brake Caliper	H
Standard	W
Frame size 165	165
Spring activated	F
Hydraulically released	H
Manual adjustment to accommodate friction block wear	M
Max. clamping force 405 kN	405

Example for ordering

Brake Caliper HW 165 FHM, max. clamping force 405 kN:

HW 165 FHM-405

Technical Data

Brake disc diameter mm	Braking torque Nm
800	95 000
1 000	127 400
1 250	168 000
1 600	224 700
2 000	289 600
3 000	451 700
3 500	532 800
4 000	613 900
Clamping force	405 kN
Oil pressure	min. 230 bar max. 250 bar
Oil volume	max. 120 cm ³
Thickness of brake disc W	min. 30 mm
Weight	425 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 mm², length 2 m, outer diameter 7.5 mm
- Protection type IP67

Options

- 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

- Includes two pairs of $\varnothing 46_{g6}$ shear pins
- Eyebolts included
- Fastening:
6 screws M33, class 10.9 with tightening torque 1 950 Nm $\pm 5\%$ μ 0.10 (not supplied)

spring activated – hydraulically released

RINGSPANN®



Mounting


$$D_R = D - 214 \text{ mm}$$
$$D_N = D - 480 \text{ mm}$$
$$M_B = F_K \cdot D_R \cdot \mu$$

D = Outer diameter brake disc [mm]

$$D_N = \text{Hub diameter [mm]}$$
$$D_R = \text{Friction diameter [mm]}$$
$$F_K = \text{Clamping force [N]}$$
$$M_B = \text{Braking torque [Nm]}$$
 μ = Friction coefficient