

# Brake Calipers HS ... FHM

spring activated – hydraulically released



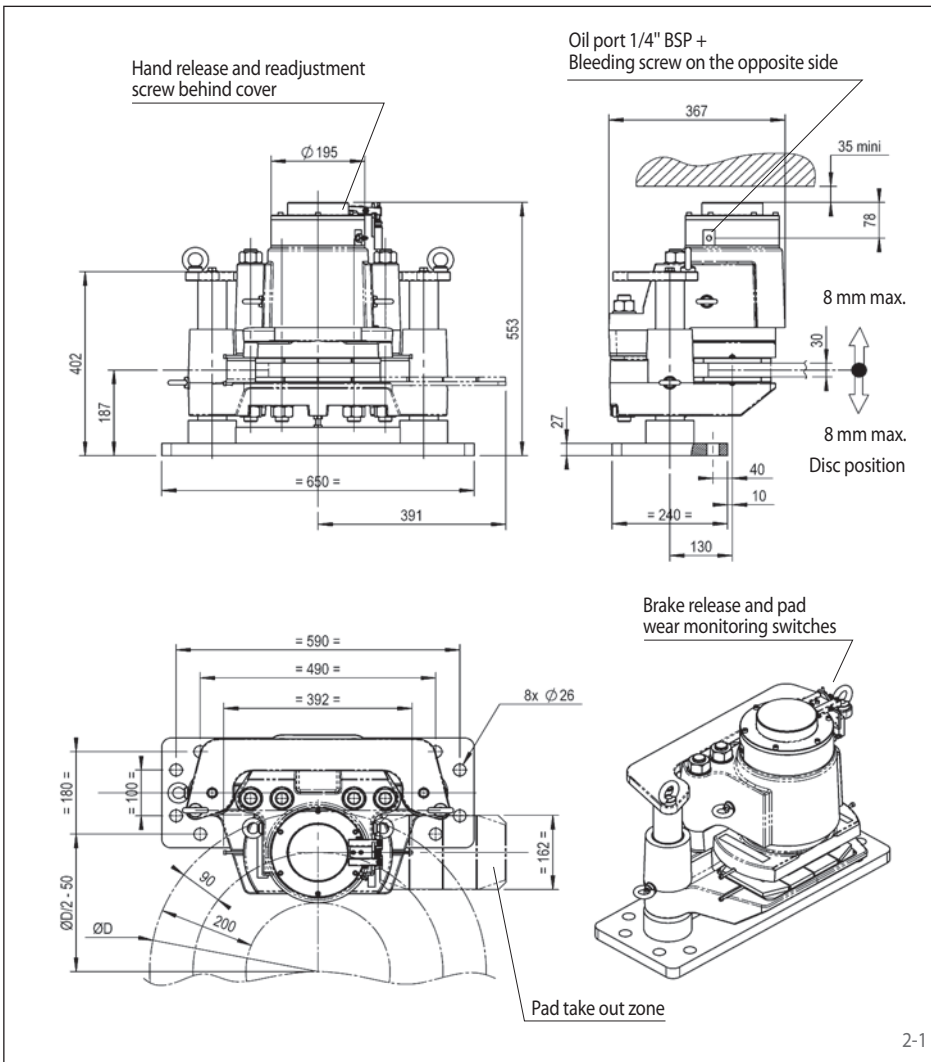
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# Brake Caliper HS 145 FHM-270 R-V

spring activated – hydraulically released



## Features

Features	Code
Brake Caliper	H
Floating caliper	S
Frame size 145	145
Spring activated	F
Hydraulically released	H
Manual adjustment to accommodate friction block wear	M
Max. clamping force 270 kN	270
Thrustor mounted right available	R
Mounting to the machine parallel to the brake disc	V

## Example for ordering

Brake Caliper HS 145 FHM, max. clamping force 270 kN, thrustor mounted right, mounting to the machine parallel to the brake disc:

HS 145 FHM-270 R-V

## Working conditions

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

## Monitoring switches

- 240 VAC 1,5 A; 250 VDC 0,1 A
- Wire 5 x 0,75 mm<sup>2</sup>, length 2 m, outside diameter 7,5 mm
- IP67 protection

## Options

- Power pack
- Floating caliper alone delivered (no bracket)
- Reduced closing time
- Friction blocks with wear indicator cables or sintered friction linings (for high temperatures)
- Corrosion protected design
- Low temperature execution
- Offshore certifications
- ATEX certifications for explosive atmospheres

## Notes

- Including lifting rings
- **Fixation:**  
8 screws M 24, class 8.8 with tightening torque 630 Nm ±10% μ 0,15 (not supplied)
- 3D models available on request

## Technical Data

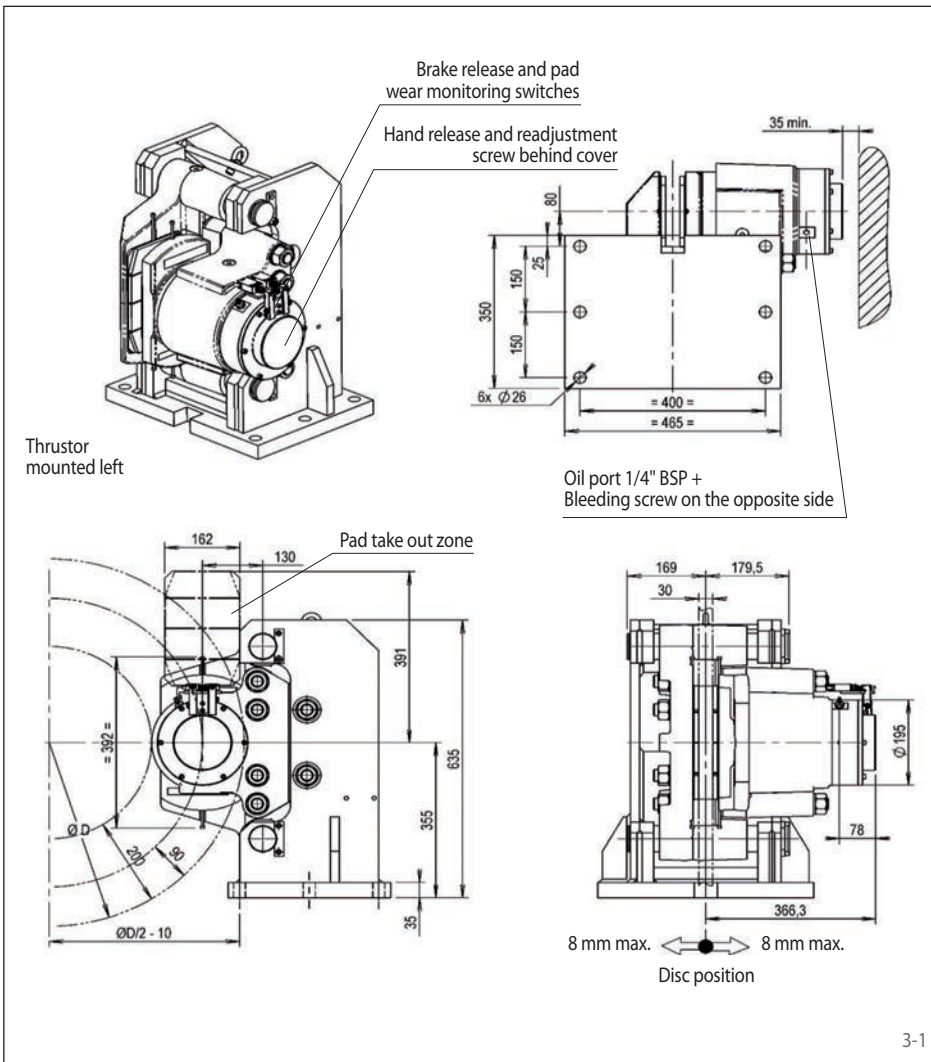
Braking force*	190 kN
Braking torque**	190 kN x Rf
Disc diameter	min. 700 mm
Friction radius	Rf [mm] = (ø D/2) -90 mm
Total gap between pads and disc (nominal value)	1 mm
Response time	0,2 s
Oil pressure	min. 230 bar max. 250 bar
Oil volume	max. 40 cm <sup>3</sup>
Disc thickness	30 mm
Weight	272 kg

\*Braking force loss at 1 mm pad wear: 7%

\*\* Braking torque increases by up to 12% in dynamic mode

# Brake Caliper HS 145 FHM-270 ... -H

spring activated – hydraulically released



## Features

Features	Code
Brake Caliper	H
Floating caliper	S
Frame size 145	145
Spring activated	F
Hydraulically released	H
Manual adjustment to accommodate friction block wear	M
Max. clamping force 270 kN	270
Thrustor 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 145 FHM, max. clamping force 270 kN, thrustor mounted left, mounting to the machine at right angles to the brake disc:

HS 145 FHM-270 L-H

## Working conditions

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

## Monitoring switches

- 240 VAC 1,5 A; 250 VDC 0,1 A
- Wire 5 x 0,75 mm<sup>2</sup>, length 2 m, outside diameter 7,5 mm
- IP67 protection

## Options

- Integrated power pack
- Floating caliper alone delivered (no bracket)
- Reduced closing time
- Friction blocks with wear indicator cables or sintered friction linings (for high temperatures)
- Corrosion protected design
- Low temperature execution
- Offshore certifications
- ATEX certifications for explosive atmospheres

## Notes

- Including lifting ring
- **Fixation:**  
6 screws M 24, class 8.8 with tightening torque 630 Nm ±10% μ 0,15 (not supplied)
- 3D models available on request

## Technical Data

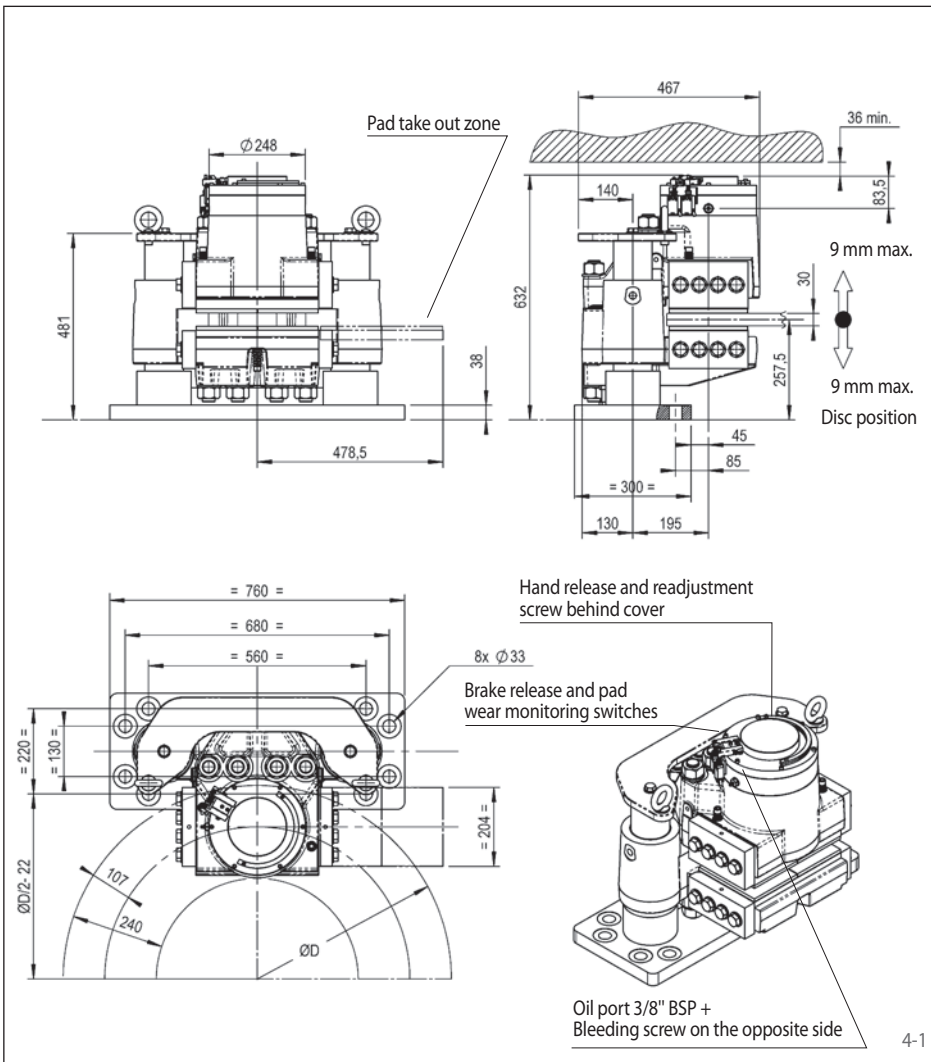
Braking force*	190 kN
Braking torque**	190 kN x Rf
Disc diameter	min. 700 mm
Friction radius	Rf [mm] = (ø D/2) - 90 mm
Total gap between pads and disc (nominal value)	1 mm
Response time	0,2 s
Oil pressure	min. 200 bar max. 230 bar
Oil volume	max. 40 cm <sup>3</sup>
Disc thickness	30 mm
Weight	330 kg

\*Braking force loss at 1 mm pad wear: 7%

\*\* Braking torque increases by up to 12% in dynamic mode

# Brake Caliper HS 165 FHM-420 R-V

spring activated – hydraulically released



## Features

Features	Code
Brake Caliper	H
Floating caliper	S
Frame size 165	165
Spring activated	F
Hydraulically released	H
Manual adjustment to accommodate friction block wear	M
Max. clamping force 420 kN	420
Thrustor mounted right available	R
Mounting to the machine parallel to the brake disc	V

## Example for ordering

Brake Caliper HS 165 FHM, max. clamping force 420 kN, thrustor mounted right, mounting to the machine parallel to the brake disc:

HS 165 FHM-420 R-V

## Working conditions

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

## Monitoring switches

- 240 VAC 1,5 A; 250 VDC 0,1 A
- Wire 5 x 0,75 mm<sup>2</sup>, length 2 m, outside diameter 7,5 mm
- IP67 protection

## Options

- Power pack
- Floating caliper alone delivered (no bracket)
- Reduced closing time
- Friction blocks with wear indicator cables or sintered friction linings (for high temperatures)
- Corrosion protected design
- Low temperature execution
- Offshore certifications
- ATEX certifications for explosive atmospheres

## Notes

- Including lifting rings
- **Fixation:**  
8 screws M 30, class 8.8 with tightening torque 1 200 Nm ±10% μ 0,15 (not supplied)
- 3D models available on request

## Technical Data

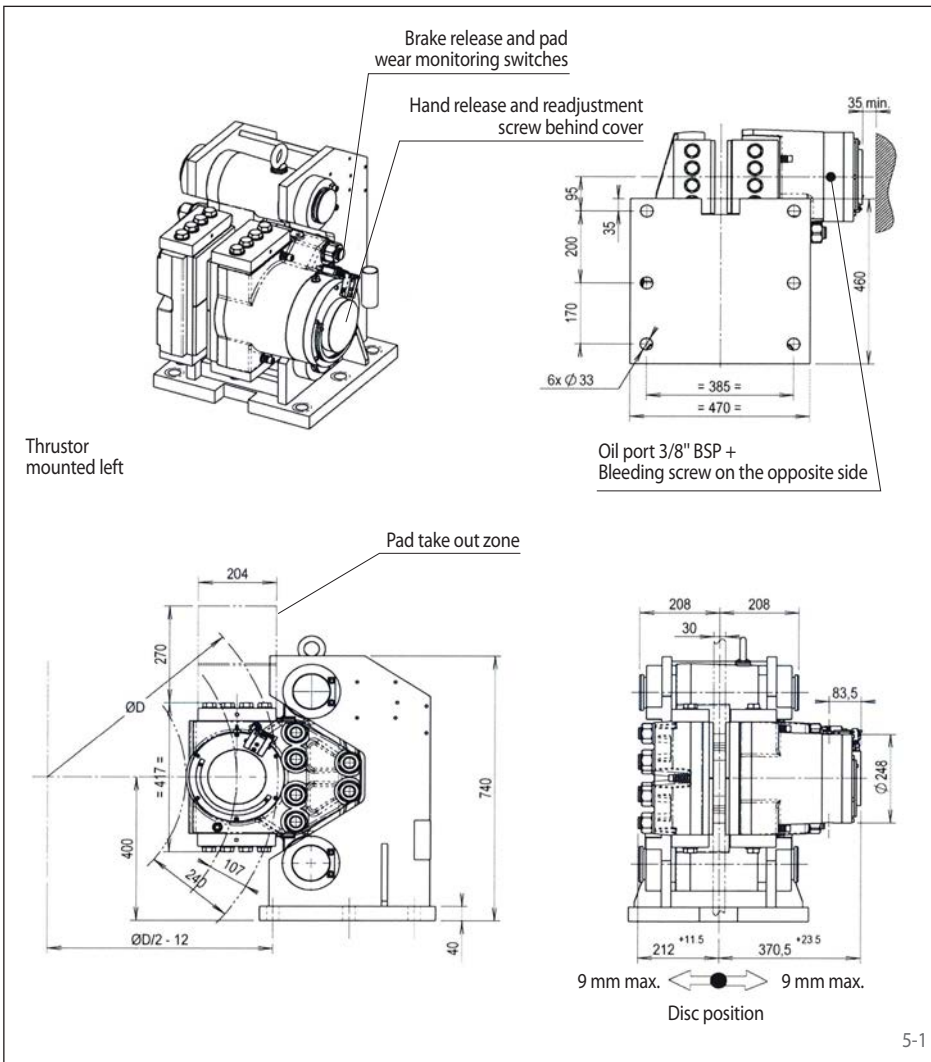
Braking force*	300 kN
Braking torque**	300 kN x Rf
Disc diameter	min. 800 mm
Friction radius	Rf [mm] = (ø D/2) - 107 mm
Total gap between pads and disc (nominal value)	1 mm
Response time	0,2 s
Oil pressure	min. 230 bar max. 250 bar
Oil volume	max. 70 cm <sup>3</sup>
Disc thickness	30 mm
Weight	528 kg

\*Braking force loss at 1 mm pad wear: 9%

\*\* Braking torque increases by up to 12% in dynamic mode

# Brake Caliper HS 165 FHM-420 ... -H

spring activated – hydraulically released



## Features

Features	Code
Brake Caliper	H
Floating caliper	S
Frame size 165	165
Spring activated	F
Hydraulically released	H
Manual adjustment to accommodate friction block wear	M
Max. clamping force 420 kN	420
Thrustor 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 165 FHM, max. clamping force 420 kN, thrustor mounted left, mounting to the machine at right angles to the brake disc:

HS 165 FHM-420 L-H

## Working conditions

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

## Monitoring switches

- 240 VAC 1,5 A; 250 VDC 0,1 A
- Wire 5 x 0,75 mm<sup>2</sup>, length 2 m, outside diameter 7,5 mm
- IP67 protection

## Options

- Integrated power pack
- Floating caliper alone delivered (no bracket)
- Reduced closing time
- Friction blocks with wear indicator cables or sintered friction linings (for high temperatures)
- Corrosion protected design
- Low temperature execution
- Offshore certifications
- ATEX certifications for explosive atmospheres

## Notes

- Including lifting ring
- **Fixation:**  
6 screws M 30, class 8.8 with tightening torque 1 200 Nm ±10% μ 0,15 (not supplied)
- 3D models available on request

## Technical Data

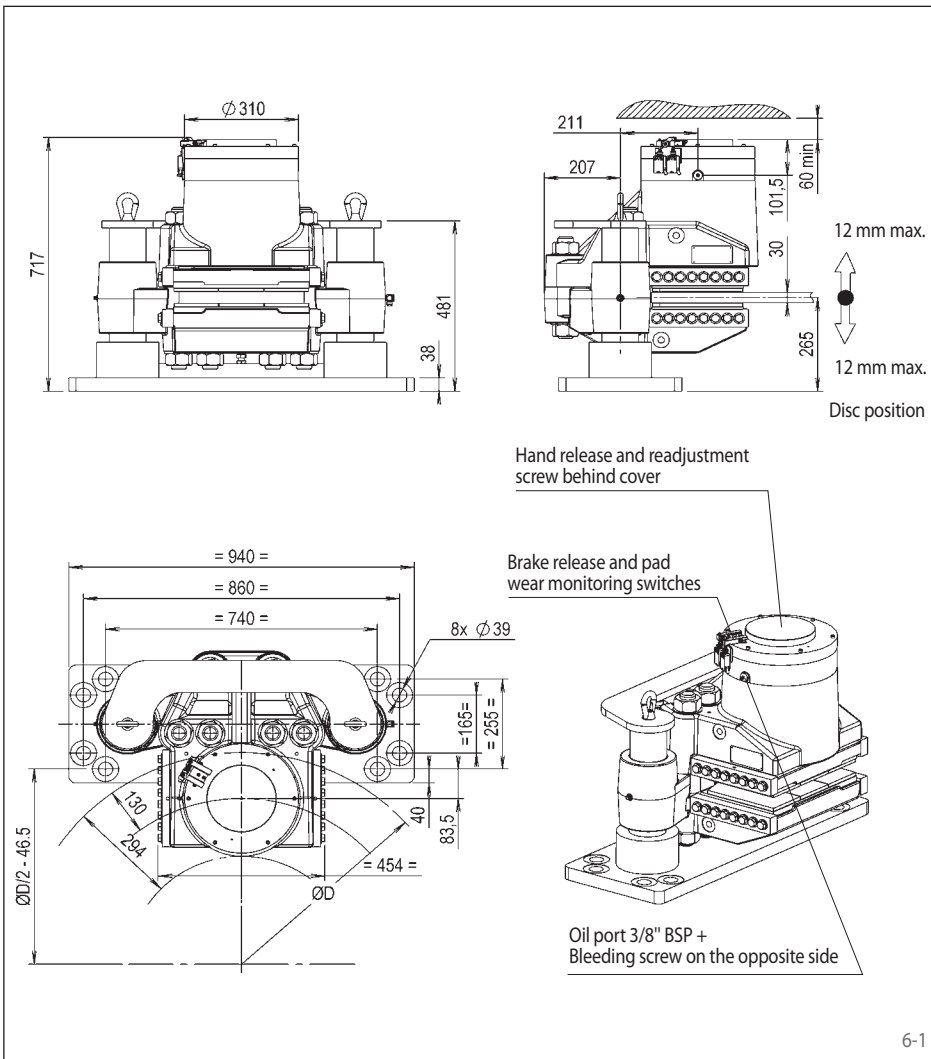
Braking force*	300 kN
Braking torque**	300 kN x Rf
Disc diameter	min. 800 mm
Friction radius	Rf [mm] = (ø D/2) - 107 mm
Total gap between pads and disc (nominal value)	1 mm
Response time	0,2 s
Oil pressure	min. 200 bar max. 230 bar
Oil volume	max. 70 cm <sup>3</sup>
Disc thickness	30 mm
Weight	625 kg

\*Braking force loss at 1 mm pad wear: 9%

\*\* Braking torque increases by up to 12% in dynamic mode

# Brake Caliper HS 215 FHM-560 R-V

spring activated – hydraulically released



## 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 560 kN	560
Thrustor 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 560 kN, thrustor mounted right, mounting to the machine parallel to the brake disc:

HS 215 FHM-560 R-V

## Working conditions

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

## Monitoring switches

- 240 VAC 1,5 A; 250 VDC 0,1 A
- Wire 5 x 0,75 mm<sup>2</sup>, length 2 m, outside diameter 7,5 mm
- IP67 protection

## Options

- Power pack
- Floating caliper alone delivered (no bracket)
- Reduced closing time
- Friction blocks with wear indicator cables or sintered friction linings (for high temperatures)
- Corrosion protected design
- Low temperature execution
- Offshore certifications
- ATEX certifications for explosive atmospheres

## Notes

- Including lifting rings
- **Fixation:**  
8 screws M 36, class 8.8 with tightening torque 2 200 Nm ±10% μ 0,15 (not supplied)
- 3D models available on request

## Technical Data

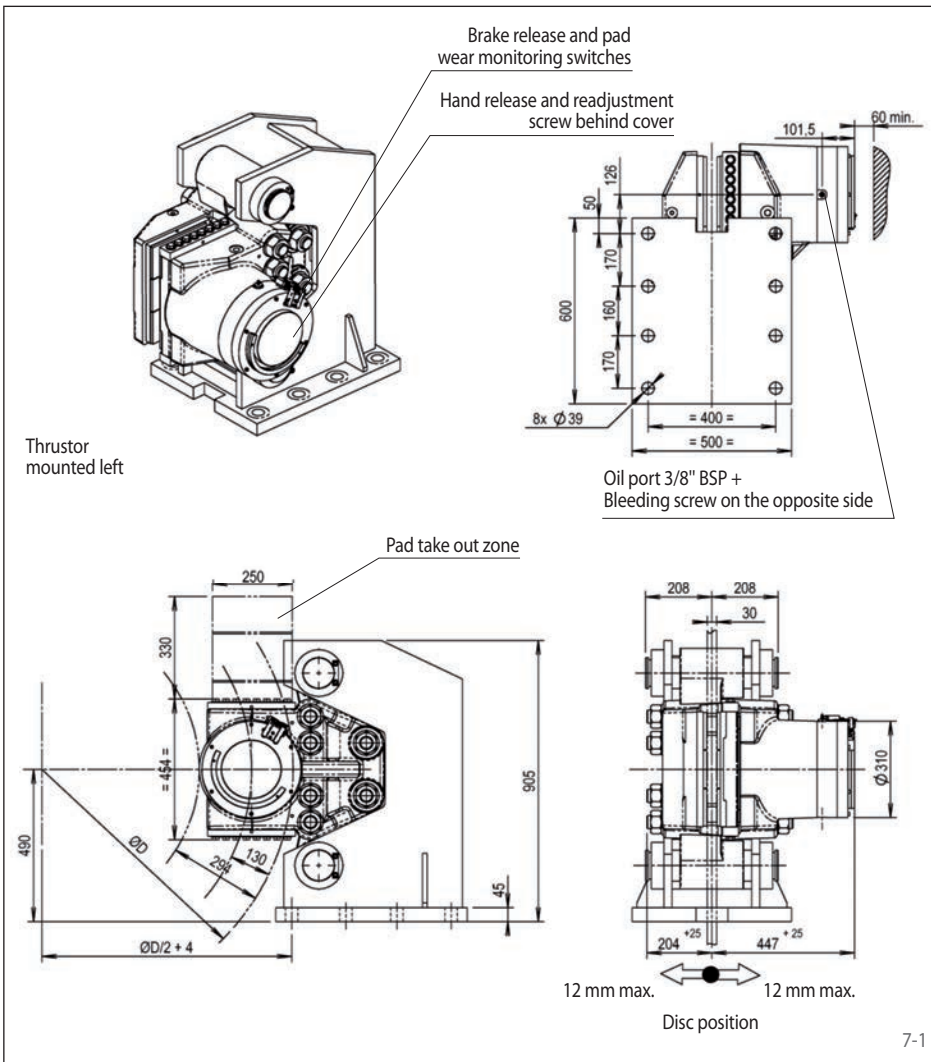
Braking force*	400 kN
Braking torque**	400 kN x Rf
Disc diameter	min. 1 000 mm
Friction radius	Rf [mm] = (ø D/2) - 130 mm
Total gap between pads and disc (nominal value)	2 mm
Response time	0,3 s
Oil pressure	min. 200 bar max. 230 bar
Oil volume	max. 150 cm <sup>3</sup>
Disc thickness	30 mm
Weight	757 kg

\*Braking force loss at 1 mm pad wear: 7%

\*\* Braking torque increases by up to 12% in dynamic mode

# Brake Caliper HS 215 FHM-560 ... -H

spring activated – hydraulically released



## 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 560 kN	560
Thrustor 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 560 kN, thrustor mounted left, mounting to the machine at right angles to the brake disc:

HS 215 FHM-560 L-H

## Working conditions

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

## Monitoring switches

- 240 VAC 1,5 A; 250 VDC 0,1 A
- Wire 5 x 0,75 mm<sup>2</sup>, length 2 m, outside diameter 7,5 mm
- IP67 protection

## Options

- Integrated power pack
- Floating caliper alone delivered (no bracket)
- Reduced closing time
- Friction blocks with wear indicator cables or sintered friction linings (for high temperatures)
- Corrosion protected design
- Low temperature execution
- Offshore certifications
- ATEX certifications for explosive atmospheres

## Notes

- Including lifting ring
- **Fixation:**  
8 screws M 36, class 8.8 with tightening torque 2 200 Nm ±10% μ 0,15 (not supplied)
- 3D models available on request

## Technical Data

Braking force*	400 kN
Braking torque**	400 kN x Rf
Disc diameter	min. 1 000 mm
Friction radius	Rf [mm] = (ø D/2) - 130 mm
Total gap between pads and disc (nominal value)	2 mm
Response time	0,3 s
Oil pressure	min. 200 bar max. 230 bar
Oil volume	max. 150 cm <sup>3</sup>
Disc thickness	30 mm
Weight	880 kg

\*Braking force loss at 1 mm pad wear: 7%

\*\* Braking torque increases by up to 12% in dynamic mode

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