

STROMAG SHD9

HYDRAULIC DISC BRAKES

EMERGENCY STOPPING BRAKE FOR HOISTING APPLICATIONS.

SHD9 caliper belongs to the SIME Brakes SHD range of Stromag. This fail-safe single-spring hydraulic caliper is an appreciated answer to the technological challenge imposed by lifting equipment. Robust construction and simplicity of operation bring to this caliper a high reliability. Its compact and light weight design allows an easy mounting and operation in a restricted space. A large torques range enables the installation of this caliper on multiple equipments. Hydraulic Power Pack and further options can be provided in accordance with the installation requirement.

Benefits include

- Hydraulic caliper
- Direct acting caliper / few components
- Designed for 200,000 cycles
- Compact and light weight design
- Braking force from 43 kN to 100 kN
- Protection level C3-H
- Positive lining fastening: easy replacement
- Opening and wear monitoring switches preset in factory
- Option: Closing monitoring switch

Applications

- Tower Cranes
- Port Cranes
- Offshore applications



Photo courtesy of FM GRU

SHD9 CALIPER

TECHNICAL DATA / DIMENSIONS

Revision number: T10042-01-E Revision date: 31.08.2017

Caliper SHD9

- Fail safe braking
- Braking by spring application
- Hydraulic release
- Opening proximity switch for PLC (induction sensor)
- Lining wear detectors
- Association with discs thickness 30 mm

Working conditions:

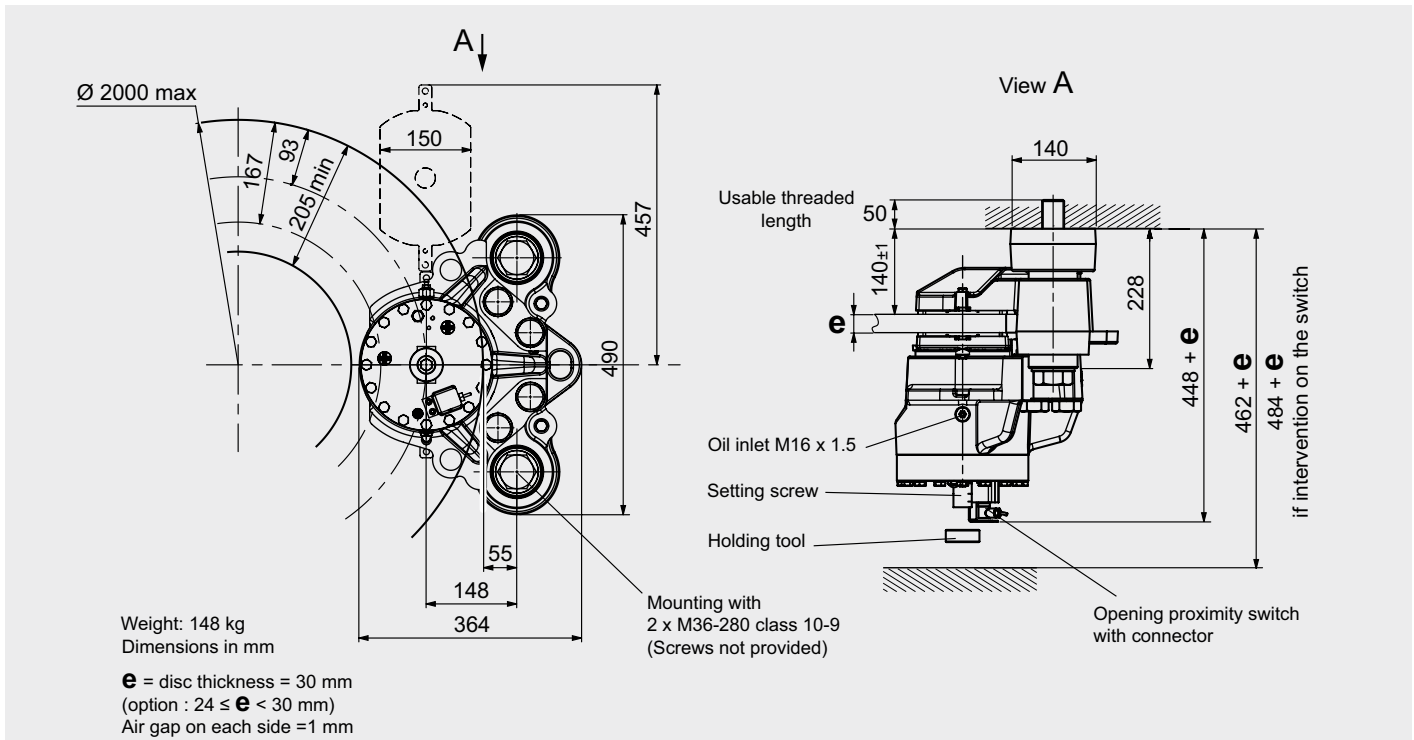
- Ambient temperature: -10°C to +60°C
 - Relative humidity $\leq 70\%$
 - Dust in atmosphere $\geq 65\mu\text{m}$
- Other conditions, consult Stromag.

Use:

- Emergency stopping brake in case of overspeed or loss of electrical supply

Options:

- Lining wear proximity switch
- Discs thickness $24 \leq e < 30 \text{ mm}$.
- Option GF:
Ambient temperature:
- Dynamic braking : -30°C to +60°C
- Parking braking : -40°C to +60°C
- Marine protection



Torque and effort values are subject to a variation of $\pm 10\%$
Response time at nominal torque ≤ 0.3

Designation	Caliper		SHD9-6
	Lining		US2-1
Braking force BF for air gap disc/lining of 2x1mm	Dynamic	N	100 000
	Static	N	88 000
Linear speed of the disc		m/s	≤ 10
Dynamic braking torque BT (m.N) for 1 caliper and disc $\varnothing D$ (mm) / $D \text{ max} \leq 2000 \text{ mm}$		N.m	$BT = BF (D/2000 - 0,093)$
Regulation pressure	Minimum	bar	180
	Maximum	bar	200
Setting pressure limit valve of hydraulic unit		bar	220
Total volume of oil displaced for air gap disc/lining of:			
2 x 1 mm (nominal opening)		cm^3	28
2 x 1,5 mm (nominal opening and wear before setting)		cm^3	39

Electrical data:

Opening proximity switch
Standard caliper and caliper option GF
3 wires PNP NO
10 to 58 VDC 200 mA with connector M12

Wear proximity switch (option):

Temperature -10°C to +60°C
3 wires PNP NO
10 to 58 VDC 200 mA with connector M12
Temperature -40°C to +60°C / Option GF
3 wires PNP NO
10 to 36 VDC 200 mA with connector M12

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