

Industrial Brakes

## **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 hydraulical 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.



- Tower Cranes
- Port Cranes
- Offshore applications

#### **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









### **TECHNICAL DATA/DIMENSIONS**

## TEOTIMORE DATA / DIVIENCION

- 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 ≤ 70%
- Dust in atmosphere  $\geq 65\mu m$  Other conditions, consult Stromag.

#### Use:

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

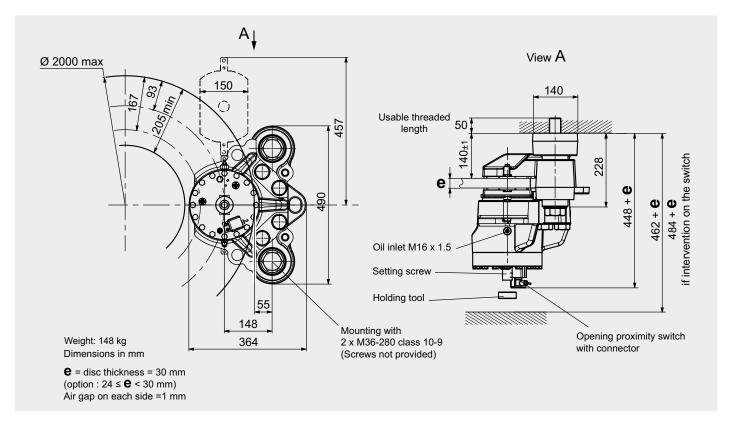
## **Options:**

- Lining wear proximity switch
- Discs thickness 24 ≤ e < 30 mm.</li>
- Option GF :

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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  $\leq 0.3$ 

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 ØD (mm) / D max ≤ 2000mm		N.m	BT = BF (D/2000 - 0,093)
Regulation pressure	Minimum Maximum	bar bar	180 200
Setting pressure limit valve of hydraulic unit		bar	220
Total volume of oil displaced for air gap disc/lining of:			
2 x 1mm (nominal opening)		cm <sup>3</sup>	28
2 x 1,5mm (nominal opening and wear before setting)		cm <sup>3</sup>	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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