









Industrial Brakes

SH18B ATEX

Hydraulic Disc Brakes

This brake meets requirements of the handling applications with harsh and explosive environment.

This emergency brake has a reinforced an explosion-proof design (ATEX certification) and an anti-corrosion protection against harsh atmosphere. It is a new answer to the technological challenge imposed by harsch and explosive environments such as offshore oil and gas drilling.

The SH18B caliper is a emergency hydraulic brake with a symmetrical design : Its robust construction and simplicity of operation meet already customer approval for quality and safety in handling applications such as cranes and conveyors with severe operating conditions.

Applications

- Marine winches
- Bop cranes
- Mast cranes
- **Benefits include**
- Fail-safe hydraulic braking
- Direct acting brake
- Pivoting shoes
- Proximity opening proving switches
- Independent stroke setting of each half-caliper
- Low force loss per add. air gap mm
- Offshore protection (breather pot, special seals, anti-corrosion protection, opeining switch protected by watertight cover)
- ATEX zone : 1 and 2

- Drilling rigs
- Cable drums

TECHNICAL DATA/DIMENSIONS

Caliper SH18B OFFSHORE ATEX

- Emergency brake
- Fail safe
- Spring application
- Hydraulic release
- Proximity opening proving switches
- Offshore protection

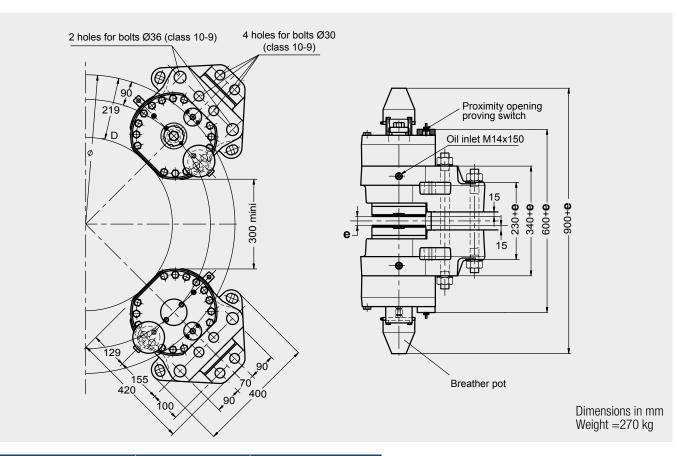
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Working conditions:

- Ambient temperature: -10°C to +60°C
- Relative humidity: $\leq 90\%$
- Dust in atmosphere $\ge 65\mu$
- ATEX zone : 1 and 2
- Other conditions: consult us.

Use:

• The brake should be applied only in case of emergency stop, overspeed or shutdown of electric mains and maximum one time per hour for emergency brakes. Other use, consult us.



	Caliper		SH18B	
Designation	Lining *		UX2-1	
	Air gap dis	c/lining	2 x 1 mm	2 x 2 mm
BRAKING FORCE BF on stainless steel disc	Dynamic Static	N N	150 000 135 000	138 000 124 200
Linear speed of the disc		m/s	≤ 6	
Dynamic braking torque BT (N.m) for 1 caliper and disc ØD (mm)	1000 mm 1200 mm 1500 mm 2000 mm	N.m N.m N.m N.m	61 500 76 500 99 000 136 500	56 580 70 380 91 080 125 580
BT for other ØD (mm)			BT = BF (D/2000 - 0.09)	
Regulation pressure:	mini. maxi.	bar bar	180 200	
Setting pressure limit valve of hydr. unit		bar	225	
Total volume of oil displaced for one stroke disc/lining (nominal wear & opening)		CM3	85	119

Altra Industrial Motion

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Production center Avenue de l'Europe 18150 La Guerche sur L'Aubois France Torque and effort values are subject to a variation of $\pm 10\%$

Opening proving switches

Supply of the proximity switches must be provided through switch amplifiers.



 $\begin{array}{l} \mbox{Reference NJ2-12GM-N-V1} \\ \mbox{Rated operating voltage}: 8,2 \mbox{V DC} \\ \mbox{Current consumption}: - target undetected}: \geq 3mA \\ - target detected: \leq 1mA \\ \mbox{delivered with a M12 female connector fitted with a } 15 \mbox{m long}, 2 \mbox{ x } 0,34 \mbox{ mm}^2 \mbox{ cable}. \end{array}$

*** UX2-1**: disc temperature during one braking $\leq 150^{\circ}C$

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