

Disc brakes

Technical data and dimensions

Caliper SH1

Emergency brake Fail to safe

Spring application

Hydraulic release

15, 20 and 30mm.

Linings with wear indicators

Holding tool for maintenance operation Manual wear centering and compensation Asociation with discs thickness: 12,7 (1/2"),

Lining pads type US2-1 or ES3-7 Lining pads with full wear indicators Protection C5-M M

Operating conditions:

· Ambient temperature: Dynamic braking: -30°C to +70°C Brake applied (parking): -40°C to +70°C

- Relative humidity: ≤ 70%
- Dust in atmosphere ≥ 65µm

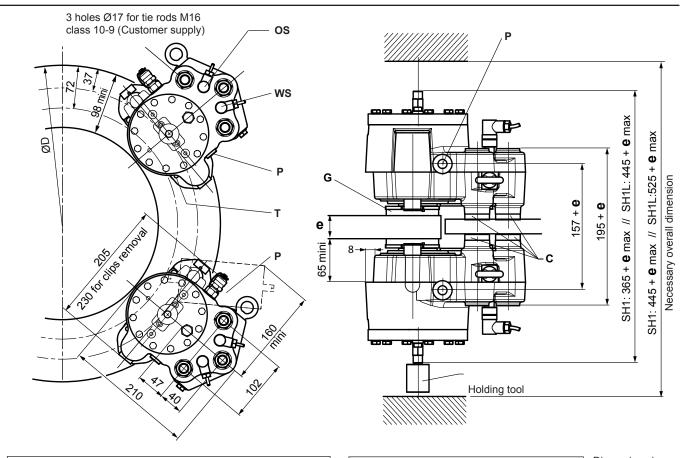
Other conditions: consult us.

• The brake should be applied only in case of emergency stop, overspeed or shutdown of electric mains.

Other use, consult us.

Options:

- Opening proving switch (OS)
- Lining wear proving switch (WS)
- All non-standard disc thickness > 12,7mm (1/2")
- Lining temperature sensor (T)
- Mechanical release tool (DM)
- SH1L : caliper requiring no manual wear compensation:
- braking force before lining wear = +10% maxi.
- braking force after lining wear = -10% maxi.



Electrical data:

Inductive switches of opening and wear (options):

3 wires PNP NO

12 to 24 VDC 200mA

with male connector M12 / 5 positions

according to standard IEC61076-2-101 / code A

Sensor PT100 (option)

Detection of the temperature threshold: 100°C ± 5

Cable length = 2,5 meters 2 wires red/yellow

136.6 Ω 95°C 138,5 Ω 100°C 105°C 140.4 Ω

C = Spacers according to disc thickness

G = Linings : Thickness of new lining 8 mm Thickness to wear 6 mm

Each 1mm of wear on each side: manual centering and compensation

OS = Opening switch (option)

WS = Lining wear switch (option)

P = 2 oil ports 1/4"G per half-caliper Bleeder screws delivered separately

T = PT100 sensors (option)

ØD = Disc diameter = 300 mm minimum

e = Disc thickness

Dimensions in mm Weight = 35 kg

Due to continuous development and improvement, all dimensions and characteristics are subject to change without notice.

Installation and maintenance Leaflet No. M10097-01 Spare parts

No. S10097-01

Safety data sheets

ES3-7 No. FDS00028-01 US2-1 No. FDS00015-01

07/06/19

1/2

T10097-01-H



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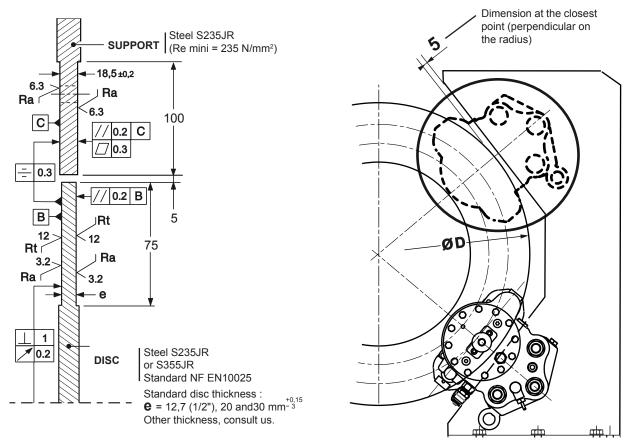
Torque and effort values are subject to a variation of ±10% - Closing time at nominal torque ≤ 0.3s

Designation	Caliper SH1-		5	4	3	2	1	5	4	3	2	1
	Lining *				US2-1					ES3-7		
Braking force BF for air gap disc/lining of 2x1mm	Dynamic	N	11 000	8 000	6 000	4 000	3 000	11 000	8 000	6 000	4 000	2 000
	Static	N	9 680	7 040	5 280	3 520	2 640	9 900	7 200	5 400	3 600	1 800
Linear speed of the disc ▲ m/s		m/s	≤ 10					≤ 50				
Dynamic braking torque BT (m.N) for 1 caliper and disc \emptyset D (mm) / 300 \leq D \leq 1000 mm		N.m	BT = BF (D/2000-0,037)									
Regulation pressure Minimum Maximum		bar bar	150 170									
Setting pressure limit valve of hydraulic unit ba		bar	190									
Total volume of oil displaced for air gap disc/lining of:	2 x 1mm (nominal opening)	cm ³	5 cm ³									
	2 x 3mm (wear+opening)	cm ³	13 cm ³									
	2 x 7mm SH1L (wear+open.)	cm ³	29 cm ³									

[▲] For higher speed, consult us.

*** ES3-7**: disc temperature during one braking $\leq 600^{\circ}$ C **US2-1**: disc temperature during one braking $\leq 100^{\circ}$ C

Disc and support:



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