

Disc brake

Technical data and dimensions

Caliper SH9A

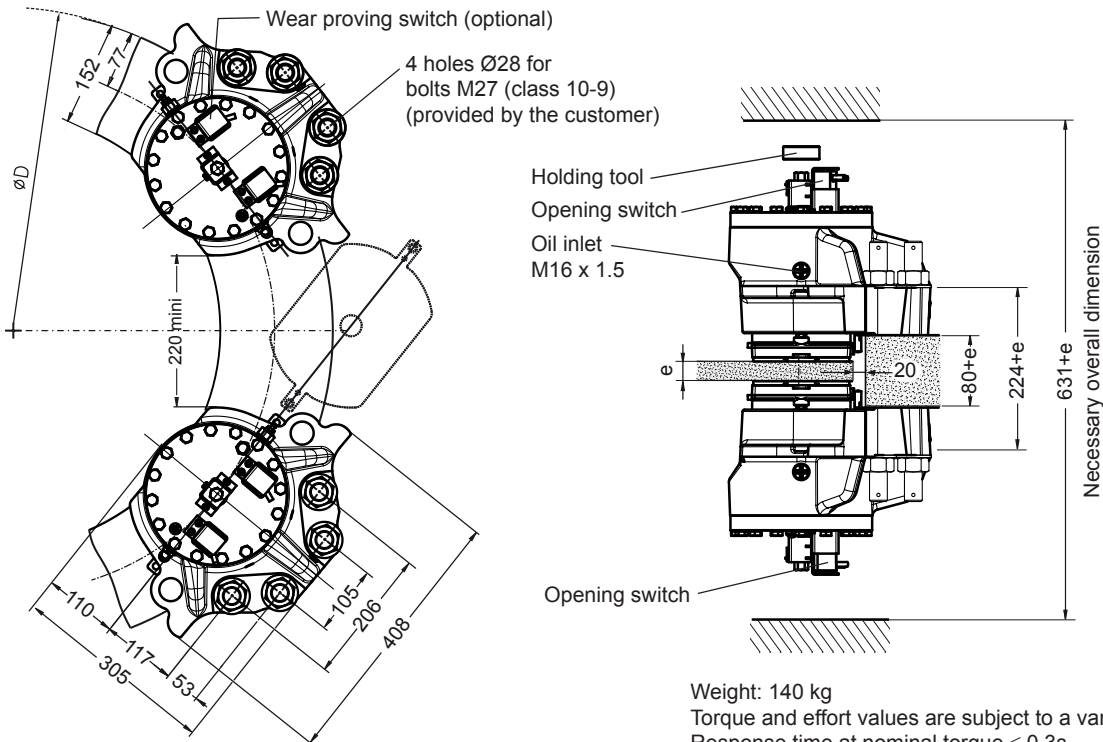
Emergency brake
Fail safe
Spring application
Hydraulic release
Opening proving switches.

- Operating conditions:**
- Ambient temperature: -10°C to +60°C
 - Relative humidity: ≤ 70%
 - Dust in atmosphere ≥ 65µ
- Other conditions: consult us.

- Use:**
- The brake should be applied only in case of emergency stop, overspeed or shutdown of electric mains. Other use, consult us.

- US2-1, US2-5 for low energy braking ≤ 1 MJ
 - EF3-1 for high energy braking ≤ 15 MJ
- Other use, consult us

- Options:**
- Lining wear control switch
 - Switch for P.L.C. (induction sensor)
 - Marine protection
 - Caliper on support with integral hydraulic power unit
 - Option GF



Weight: 140 kg
Torque and effort values are subject to a variation of ±10%
Response time at nominal torque ≤ 0.3s

Designation	Caliper		SH9A-3			SH9A-2			SH9A-1		
	Lining *		US2-1	US2-5	EF3-1	US2-1	US2-5	EF3-1	US2-1	US2-5	EF3-1
Braking force BF for 1mm air gap	Static	N	94 500	90 000	70 500	80 100	76 200	60000	66 150	63 000	49 600
	Dynamic	N	105 000	100 000	78 200	89 000	84 700	66 500	73 500	70 000	55 000
Linear speed of the disc for BF		m/s	≤10	≤30	≤ 50▲	≤10	≤30	≤ 50▲	≤10	≤30	≤ 50▲
Dynamic braking torque BT (N.m) for 1 caliper and disc ØD (mm) **	995 mm	N.m	44 150	42 050	32 880	37 420	35 620	27 960	30 910	29 440	23 130
	1500 mm	N.m	70 670	67 300	52 630	59 900	57 000	44 750	49 470	47 110	37 020
	2000 mm	N.m	96 920	92 300	72 180	82 150	78 180	61 380	67 840	64 610	50 770
BT for other ØD (mm)		N.m	BT = BF (D/2000 - 0.077)								
Regulation pressure	Minimum	bar	180			150			110		
	Maximum	bar	200			180			140		
Setting pressure of HPP limit valve		bar	225			210			165		
Total volume of oil displaced		cm ³	55 for one disc/linings stroke (nominal wear and opening)								

* US2-1: disc temperature during one braking ≤ 150°C
 US2-5: disc temperature during one braking ≤ 350°C
 EF3-1: High energy braking, disc temperature during one braking ≤ 600°C

** For disc ØD < 995 mm, consult us.
 ▲ For higher speed, consult us.

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

Installation and maintenance	Leaflet n° M10077-01	Lining safety data sheets	US2-1 No. FDS00015-01	30/05/13	1/2
Spare parts	n° S10077-01		US2-5 No. FDS00020-01		
			EF3-1 No. FDS00026-01		
				T10077-01-B	

Disc brake

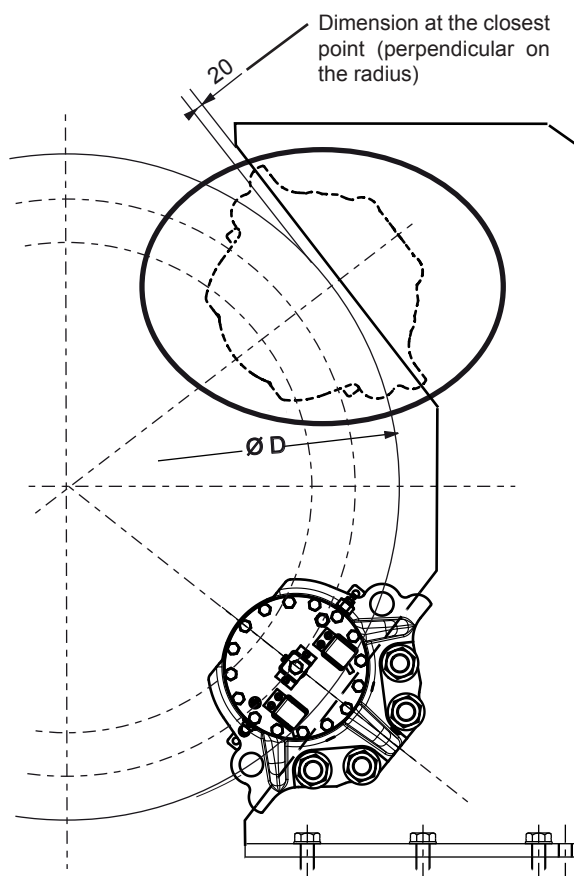
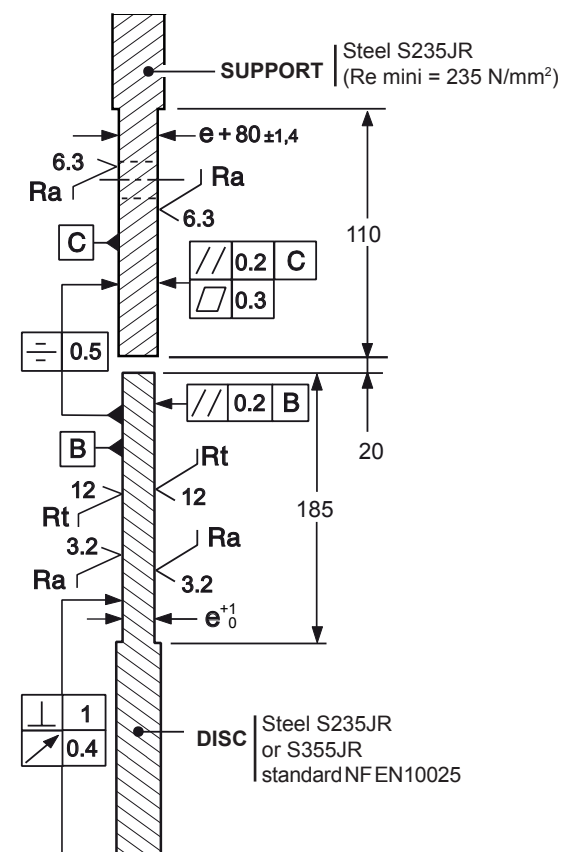
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Installation instructions for the caliper SH9A

Electrical data :

- Opening proving switch:
240V 1,5A AC
250V 0,1A DC
with a 5 x 0,75mm² wire
of 5m length

Disc and support :



Standard disc thickness: $30 \leq e \leq 50$ mm.
Other thickness, consult us.

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Installation and maintenance
Spare parts

Leaflet n° M10077-01 Lining safety data sheets
n° S10077-01

US2-1 No. FDS00015-01
US2-5 No. FDS00020-01
EF3-1 No. FDS00026-01

30/05/13

2/2

T10077-01-B