

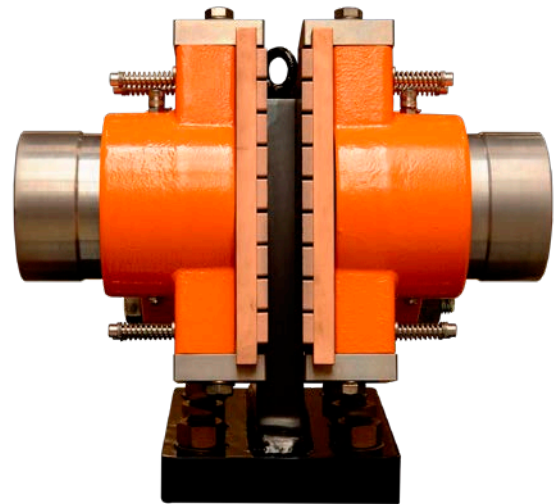
## DISC BRAKES

### BSFL 500 DUAL SPRING

#### HYDRAULIC CALIPER BRAKES

Emergency brakes are the last safety device to prevent a falling load and are installed directly on the flange of the drums. These brakes are applied in case of overspeed detection, power failure, mechanical transmission breakage or emergency stop controlled by operator.

The BSFL 500 Dual Spring is a fail-safe disc brake designed for heavy-duty industrial applications. It features a spring-applied and hydraulically released mechanism, ensuring reliable safety and performance in demanding environments. It is known for its robust construction and dual-spring design. Its durability and precision make it a dependable choice for critical operations.



Brake	Clamping Force $F_c$ [kN]			Pressure [MPa]	
	at airgap 1 mm	at airgap 2 mm	at airgap 3 mm	Operating	Maximum
BSFL 517	170	160	150	12.5	23.0
BSFL 524	240	218	197	16.5	23.0



# DISC BRAKES

## BSFL 500 DUAL SPRING

CALCULATION FUNDAMENTALS	DUAL SPRING (DS)
Weight of brake with standard bracket, including organic brake pads and bolt set:	Approx. 360 kg
Weight of brake without bracket, with organic brake pads and bolt set	Approx. 190 kg
Overall dimensions (without bracket)	372 x 453 x 591 (+C) mm
Brake pad width	220 mm
Brake pad thickness for new brake pad	36 mm
Brake pad area (organic)	76,910 mm <sup>2</sup>
Maximum wear of pad (organic) per pad	10 mm (*) (= 26 mm thick)
Brake pad area (sintered)	68,040 mm <sup>2</sup>
Maximum wear of pad (sintered) per pad	10 mm (*) (=26 mm thick)
Minimum brake disc diameter	H=0.4
Maximum hub/drum diameter	182.8 cm <sup>2</sup>
Nominal coefficient of friction	365.6 cm <sup>2</sup>
Total piston area - each caliper half	1100 mm
Total piston area - each brake	Do - 464 mm
Volume for each brake at 1 mm stroke	36.6 cm <sup>3</sup>
Volume for each brake at 3 mm stroke	109.8 cm <sup>3</sup>
Actuating time (guide value for calculation)	0.4 sec
Pressure connections / port	G3/8
Drain connection port	G1/4
Recommended pipe size	16/12 mm
Maximum operating pressure	23.0 MPa
Operating temperature range (For temperatures outside this range contact Svendborg Brakes)	from -20°C to +70°C

(C = disc thickness)

(\*) The thickness stated is the minimum/worn brake pad thickness allowed before replacement.

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