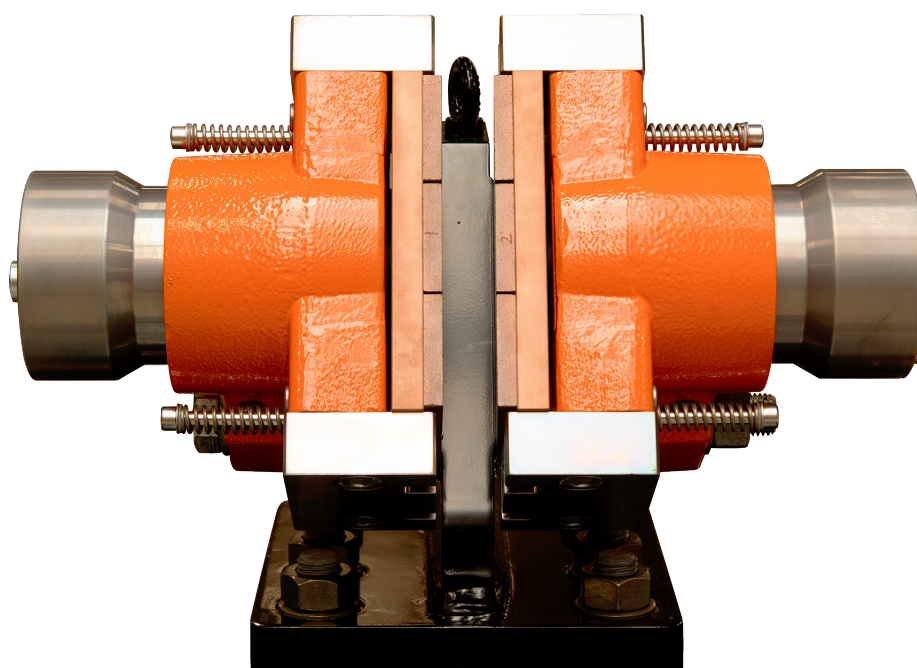


# Disc Brake

## BSFJ 3000 DUALspring

DEB-3000-045



### TECHNICAL DATA AND CALCULATION FUNDAMENTALS

Brake	Clamping Force $F_c$ [kN]			Pressure [MPa]	
	at airgap 1 mm	at airgap 2 mm	at airgap 3 mm	Operating	Maximum
<b>BSFJ 3110</b>	110	97	84	17.5	23.0
<b>BSFJ 3140</b>	140	126	112	21.0	23.0

## **CALCULATION FUNDAMENTALS**

Weight of brake with standard bracket, including brake pads and bolt set:

Weight of brake without bracket, brake pads and bolt set:

Overall dimensions (without bracket):

Brake pad width:

Brake pad thickness for new brake pad:

Brake pad area (organic) per pad:

Maximum wear of pad (organic):

Brake pad area (sintered) per pad:

Maximum wear of pad (sintered):

Minimum brake disc diameter:

Maximum hub/drum diameter:

Nominal coefficient of friction:

Total piston area - each caliper half:

Total piston area - each brake:

Volume for each brake at 1mm stroke:

Volume for each brake at 3mm stroke:

Actuating time (guide value for calculation):

Pressure connections/port:

Drain connection port:

Recommended pipe size:

Maximum operating pressure:

Operating temperature range:

(For temperatures outside this range contact Svendborg Brakes)

## **Dual Spring (DS)**

Approx. 171 kg

Approx. 110 kg

253 x 310 x 764 (+C) mm

135 mm

32 mm

29,400 mm<sup>2</sup>

10 mm (\*) (= 22 mm thick)

28,000 mm<sup>2</sup>

10 mm (\*) (= 22 mm thick)

650 mm

Do - 296 mm

$\mu = 0.4$

84.8 cm<sup>2</sup>

169.6 cm<sup>2</sup>

17 cm<sup>3</sup>

50.9 cm<sup>3</sup>

0.3 sec

G1/4

G1/8

10/8 mm

23.0 MPa

from -20°C to +70°C

(C = disc thickness)

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