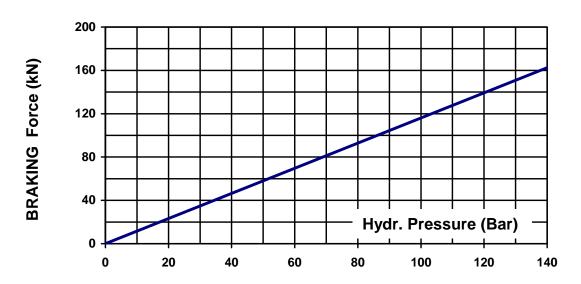


DATA SHEET

DEB-0500-009 21.03.2016 Date:

Revision:

TECHNICAL DATA AND CALCULATION FUNDAMENTALS FOR **DISC BRAKE BSAH 500**



The braking torque MB is calculated from following formulas:

$$M_{B} = a \cdot F_{B} \cdot \frac{(D_{O} - 0.22)}{2}$$
 [Nm]

$$\boxed{\mathbf{F}_{\mathsf{B}} = \mathbf{F}_{\mathsf{C}} \cdot 2 \cdot \mu \ [\mathsf{N}] \qquad \mathbf{F}_{\mathsf{C}} = \mathsf{A} \cdot \mathsf{P} \cdot \mathsf{10} \ [\mathsf{N}]}$$

Where:

a is the number of callipers acting on the disc

F_B is the braking force according to table above [N]

Do is the disc outer diameter [m]

Dualspring (DS)

Fc is the clamping force [N]

A [cm²], P [bar] and µ see values below

The actual braking torque may vary, depending on friction coefficient.

CALCULATION FUNDAMENTALS

Weight of caliper with bracket Weight of caliper without bracket

Overall dimensions

Pad width

Pad area (organic)

Max. wear of pad (organic)

Pad area (sintered)

Max. wear of pad (sintered)

Nominal coefficient of friction

Total piston area - each caliper half:

Total piston area - each caliper:

Volume for each caliper at 1 mm stroke:

Volume for each caliper at 3 mm stroke:

Actuating time (guide value for calculation):

Pressure connection/port:

Drain connection port R:

Max. operating pressure:

Recommended pipe size: Operating temperature range

(For temperatures outside this range contact Svendborg Brakes)

(*) On each brake pad



from -20 to +70 °C

Monospring (MS)



RELEASED by randa.juma

