

CBA50 SERIES

SERVICE BRAKE

TECHNICAL DATA



EXPERIENCED. GLOBAL. INNOVATIVE.

FEATURES

- Automatic adjustment
- Lightweight rugged construction
- Compact design
- Increased braking capacity per pound
- Reduces overhang and minimizes bending stress on supporting member
- Lightweight rugged construction
- Easy to install
- Simplified maintenance, when required

APPLICATIONS

- Front-end loaders
- Wheel loaders

FUNCTION

The Carlisle CBA-50 Series Service Brake is a hydraulically actuated, double opposed piston, caliper disc brake designed for small construction applications. Both the caliper and disc require fixed mountings. Multiple calipers may be used on a single disc to proportionally increase torque output.

SPECIFICATIONS

Caliper material	High-strength cast iron
Mounting Attitude	Multiple
Maximum Pressure	90 bar
Inlet Type	Multiple (10mm ORB standard)
Lining Material	NF-782 (See your CBF representative for other options)
Lining Area per Brake	5,000mm ²
Lining Volume per Brake	54,000mm ³
Disc Thickness	20 mm
Disc Diameter	288 mm
Displacement per Brake Event	2 cc
Number of Pistons	2
Final Assembly Weight	6.58 kg

FORMULAS

$$\text{Torque(Nm)} = K \times \text{Input Pressure (MPa)} \times \text{Disc Radius (mm)}$$

$$K \text{ Static} = 0.63$$

$$K \text{ Dynamic} = 0.57$$

* Torques calculated are based on dry friction coefficient and optimum lining break-in.

** Dimensions available upon request.

DIMENSIONS

