

Disc Brake Caliper



Description :

Modular design Disc Brake Caliper for axle or wheel mounted discs, allowing service brake, and parking brake. C3 Caliper is designed for all rail market segments to work under extreme operating conditions.

Application : Semi-High Speed Train / Metros

Key Benefits of Product :

- Compact caliper concept design
- Optimized weight for the best energy efficiency
- Minimum space envelop for easy installation
- Actuator with integrated slack adjuster
- Adjustable cylinder ratio by proven Wedge principle
- Integrated anti-compound valve & retention device
- Easy maintainability with low LCC
- High standardisation using service proven components
- High modularity
- Ball release system for parking brake
- Pad holder latch, alternative design-safe and easy to maintain, quick pad change
- Successfully in service since more than 10 years

Technical Features :

- Wheel thickness : 130 mm
- Wheel diameter : 952/877 mm
- Disc thickness : 130 mm after assembly
- Disc diameter : 750 mm
- Brake pad : UIC 400 cm² x 35 mm
- Pad disc clearance : 1.5 mm
- Parking brake (PB) actuator : CCC PB 8" + Retention device

- Service brake (SB) actuator : CCC SB 8"
- Caliper ratio : 1.65 (typical)
- Internal cylinder ratio : 2.59 (customizable)
- Global caliper efficiency : 95%
- Max. SB clamping force : 43.9 kN (customizable)
- Max. PB clamping force : 41.9 kN (customizable)
- PB release pressure : 6 bar
- Ambient temperature range : -25°C < T < +70°C
- Service brake Pipe thread : G1/2" ISO 228/1
- Parking brake Pipe thread : G1/4" ISO 228/1

Standards Compliance :

- Shock & vibration : EN 61373
- Salt spray test : EN 9227
- Fire and Smoke : NF F 16 101

References :

- EIC-X, Germany
- Sydney Metro, Australia
- Lucknow Metro, India
- RRTS / MRTS, India
- Indian Railways / Global

