

Eaton Water-Cooled Third Generation Brake

Airflex® Product Line



Overview

Eaton has redesigned its 36" water-cooled tensioning brakes to create an industry leading high energy absorbing dynamic brake. The improved internal design and increased water flow allow improved fluid dynamics with better energy dissipation characteristics. The new brake is available with the Airflex dual piston design as well as the air and water cooled combination style brake that acts as both a dynamic tensioning and static holding brake.

Applications

- Drawworks
- Mooring Winches
- Dynamometers
- Paper Mills
- Steel Service Centers



Features/Benefits

- Highest HP in class - 1000 HP per disc offers faster tripping time and the potential to downsize the brake in the same application
- More robust design for demanding applications eliminates copper cracking seen in competitive units
- Self-supporting brake eliminates costly support brackets
- Higher coolant flow with 60% lower pressure drop
- Robust Teflon®* tape seal eliminates leakage
- Corrosion resistance standard on all brakes
- Retrofits to existing WC brake mounting
- Easier maintenance and wear adjustments, no machining is required for friction or wear plates
- ABS/CDS agency approval

* Teflon is a registered trademark of DuPont

English				lb-in @ 80 psi			hp	GPM	
136WCBD3	146572AE	416538	417019	295,000	223,000	71,000	1000	100	
236WCBD3	146573AE	416536	417023	590,000	446,000	143,000	2000	200	
336WCBD3	146574AE	416535	416435	885,000	670,000	214,000	3000	300	
436WCBD3	146575AE	416537	416495	1,180,000	893,000	286,000	4000	400	
436WCSB3	146576AE	416676	417099	1,389,000	1,055,640	333,360	3000	300	
Metric Size	Brake Part Number	Gear Part Number	CR Gear Part Number	Torque Rating Both Pistons		Large Piston Only	Small Piston Only	Thermal Rating	Water Flow
136WCBD3	146572AE	416538	417019	33,331	25,196	8,022	750	380	
236WCBD3	146573AE	416536	417023	66,661	50,391	16,157	1490	760	
336WCBD3	146574AE	416535	416435	99,992	75,700	24,179	2240	1140	
436WCBD3	146575AE	416537	416495	133,322	100,895	32,314	2980	1510	
436WCSB3	146576AE	416676	417099	156,818	119,182	37,636	2240	1140	
Nm @ 5,5 bar							kW	dm³/min	

Eaton
Hydraulics Business USA
14615 Lone Oak Road
Eden Prairie, MN 55344
USA
Tel: 952-937-9800
Fax: 952-294-7722
www.eaton.com/hydraulics

Eaton
Airflex
9199 Clinton Road
Cleveland, OH 44144-1077
USA
Tel: 216-281-2211
Fax: 216-281-3890

Eaton
Eaton Industrial Clutches & Brakes
Shanghai Co., Ltd.
No. 281 Fa Sai Road
WaiGaoQiao Free Trade Zone
Shanghai 200131, China
Main: 011-86 21-50484811
Fax: 011-86 21-50484911