

# 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 |
|--|--|--|--|--------------|--|--|----|---------|
|  |  |  |  |              |  |  |    |         |

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