

ICP

4 HEAVY DUTY BRAKES

HEAVY DUTY SPRING ENGAGED BRAKE ELEMENTS DFB & OFB SERIES

This **16 Model** Series of spring engaged, air released **Dual Faced** and **Quad Faced Elements** are designed for heavy duty industrial applications requiring high torque and low inertia:

- Static Torque ratings up to 164,800 In. Lbs.
- Speeds up to 2200 rpm
- Thermal Horsepower values up to 14.7
- **Bore range** of 6.500 inches
- Brake can be Thru-Shaft or Shaft-End mounted. Units are inteded for horizontal shaft mounting only
- Dual Faced Elements have two interface surfaces, Quad Faced Elements have four interface surfaces
- Available with either Standard or High coefficient friction Facings
- Single or Double Disc
 Assemblies available in disc sizes
 from 11,500 to 25,000 inches
- Rugged design ensures long product life
- O-ring sealed piston & cylinder design reduces maintenance costs
- Air is supplied directly at the cylinder air inlets

"Air Champ"

With this Heavy Duty Series, tough applications are made easy. Each of the 16 Models are detailed on the next few pages.

PEAK INPUT RATE

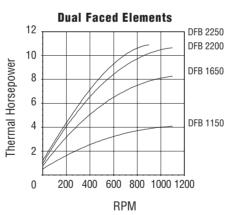
The DFB and QFB Series of Brakes are designed for applications requiring high torque and low inertia. The peak input rate may be the limiting factor in high inertia starts or stops, even though the Heat Sink Capacity is efficient.

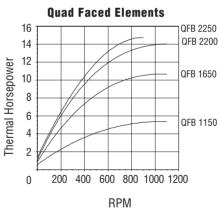
The peak input rate capacity is the rate at which the brake absorbs heat at the friction interface during the deceleration period while interfaces are slipping, or until the load and the clutch are operating at the same speed. See page 368 in the Engineering Data Section for information explaining how to calculate the Peak Input Rate and how to avoid potential problems.

▶ HEAT SINK CAPACITIES & PEAK INPUT RATE

| Model | Heat Sink | Peak | Effective |
|--------------|-------------------|----------------|---------------------|
| | Capacity (Ft Lbs) | Input Rate(HP) | Interface Areas |
| DFB 1150-S/H | 390,000 | 105 | 117 in ² |
| DFB 1650-S/H | 870,000 | 204 | 227 in ² |
| DFB 2200-S/H | 1,187,000 | 297 | 330 in ² |
| DFB 2500-S/H | 1,146,000 | 363 | 404 in ² |
| QFB 1150-S/H | 780,000 | 210 | 234 in ² |
| QFB 1650-S/H | 1,740,000 | 408 | 454 in ² |
| QFB 2200-S/H | 2,374,000 | 594 | 660 in ² |
| QFB 2500-S/H | 2,920,000 | 727 | 808 in ² |

D CONTINUOUS RATED THERMAL HORSEPOWER DISSIPATION VS RPM





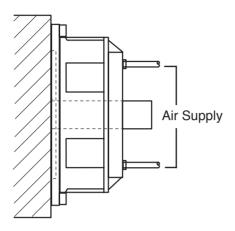




"Air Champ"

HEAVY DUTY BRAKES D

▶ SHAFT-END MOUNTED BRAKE ELEMENT



▶ To Apply DFB & OFB Brakes

Element can be Shaft-End or Thru-Shaft Mounted, but must be in a horizontal position.

The housing is flange mounted to the machine frame.

The Hub is keyed to the shaft. Air is supplied directly at the cylinder air inlets.

Brake Air Connection:

Connect the air supply directly to the two air ports, located 180 degrees apart in the cylinder.