

Airflex® Type 200DPA Caliper

Section H



The Eaton Airflex® Type 200DPA is a symmetrical opposed piston caliper brake design that is well suited for most high torque, high energy stopping applications.

Engineered for hydraulic actuation, the Airflex® 200DPA is a robust design able to withstand the tough operating conditions associated with industrial applications. Standard features include

- A large piston area and 2000 psi operating pressure range give high frictional force resulting in more torque
- Base or split mounting for flexibility of mounting and accommodation of different disc thicknesses or diameters to meet diverse customer requirements
- Guide pins transmit torque from friction shoes which prevents piston seal leakage that could result from misalignment between the friction shoe and disc
- Large friction area for long life and reduced maintenance due to friction material wear
- Automatic friction shoe wear adjustment with each engagement
- Solid or ventilated discs to optimize performance and lining life

Common Applications

- Conveyors
- Flywheel brakes
- Inertia brakes
- Mining Equipment
- Parking brakes
- Rotary brakes
- Tension brakes
- Top Drive brakes
- Wind Turbine brakes

Why the Airflex® 200DPA

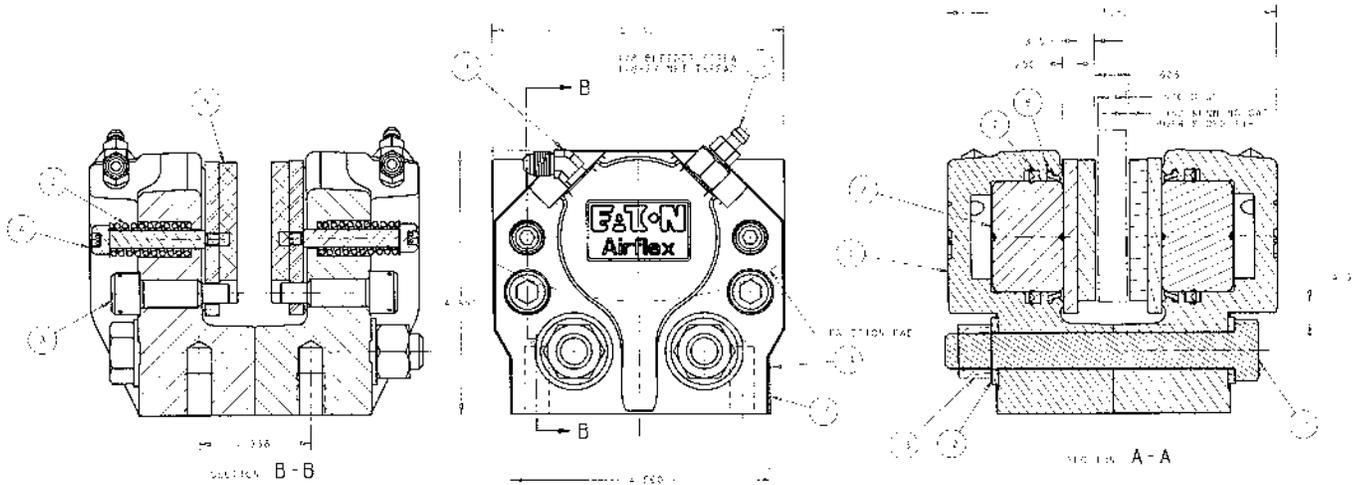
- High quality
- High performance
- Low cost of ownership
- Low maintenance
- Long lining life

Parameter	English Units	SI Units
Dynamic frictional Force Fr		
Standard linings @ 2000 psi	5700 lb	25354 N
Static Friction Force		
Standard linings @ 2000 psi	6300 lb	28023 N
Parasitic Loss Pp	76 psi	5 bar
Disc Constants		
Cd	7.73	196.3
Ct	2.76	70.1
Minimum Disc Diameter	12 in	305 mm
Friction Area	23.3 in ²	150 cm ²
Typical Disc Running Clearance per Side	.053 in	1.35 mm
Cylinder Volume - Engaged		
New lining and disc	.324 in ³	0.01 dm ³
Worn lining and disc	1.637 in ³	0.03 dm ³
Lining Thickness		
New	.315 in	8 mm
Worn	0.10 in	2.5 mm
Weight/Mass	23 lb	10 kg

Part Number	Description
146505	200DPA CALIPER ASSY
146505X	200DPA CALIPER SEAL KIT
146505Y	200DPA CLPR REBUILD KIT

200 DPA Component Parts

Section H



Bill of Materials

Item	Quantity	Description	Part No
1	2	200DPA Cylinder	515093
2	2	200DPA Caliper Piston	308452
3	4	200DPA Caliper Guide Pin	308453
4	4	200DPA FSA Shoulder Screw	308521
5	2	200DPA Caliper FSA	
6	4	200DPA Return Spring	308520
7	2	U Seal	000153X1277
8	2	Rod Wiper	000153X1272
9	2	45DEG Elbow, 37DEG Flare X 1/8 NPT Male	000153X1276
10	2	Air Bleeder	000153X1274
11	2	M16X2.0X130 Hex Head Screw	000391X1608
12	4	Flat Washer	000067X0059
13	2	M16X2.0 Hexagon Nut	000414X0011
14	1	Name Plate, 200DPA Caliper	308483
15	1	Warning Plate	308484