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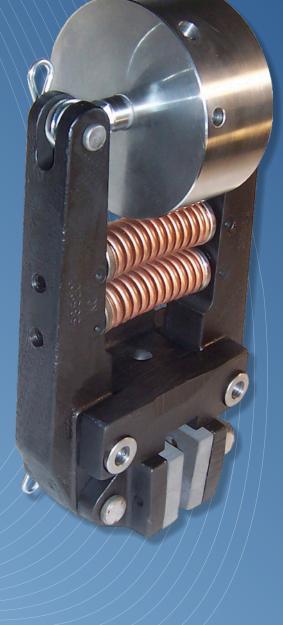
Website: www.emco-dynatorq.in

EMCO®

Pneumatic Caliper Disc Brake

Wichita, Kansas, USA





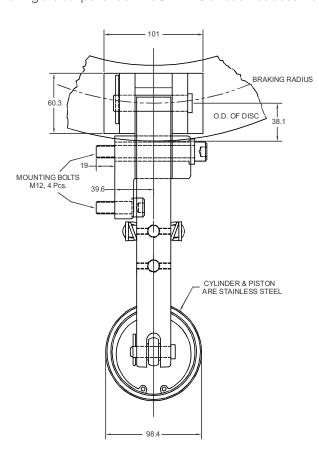


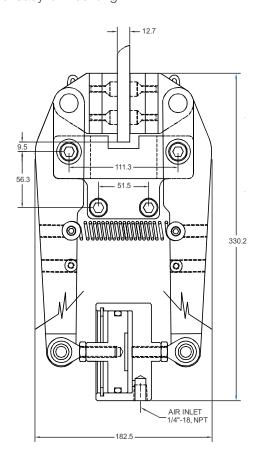


CBAA - Air Applied Spring Release Caliper Disc Brake



CBAA20 The Model CBAA20 is air applied, spring released caliper brake which is used in stopping applications of industrial equipment. It has a unique design, using an actuator located between two caliper arms. This allows the brake to have a compact physical size in relation to its high torque capacity. Friction linings are changed by pulling the clip pin and removing the caliper shoe. The CBAA20 unit comes assembled and ready for mounting.





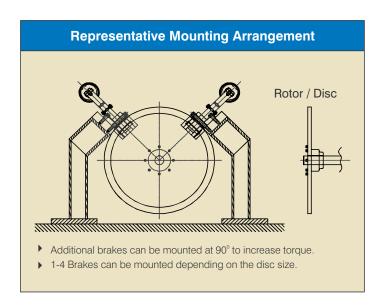
CBAA20 Static Braking Force (SBF) 8450N at 80 PSI with Full Lining Brake torque depends upon disc size

$$\Gamma = SBF \times \left(\frac{Disc Radius (mm) - 38.1}{1000}\right) Nm$$

T = Torque SBF = Static Braking Force

Disc	Size				
Inches	(mm)	at 80 PSI (Nm)	Weight		
12	(305)	950			
14	(356)	1180			
16	(406)	1400	13.6 Kg		
18	(457)	1600	(Approx.)		
24	(610)	2260			
36	(914)	3650			

- i) Caliper Brakes are to be operated with solenoid valve.
- ii) Dynamic torque is approximately 85% of static torque.

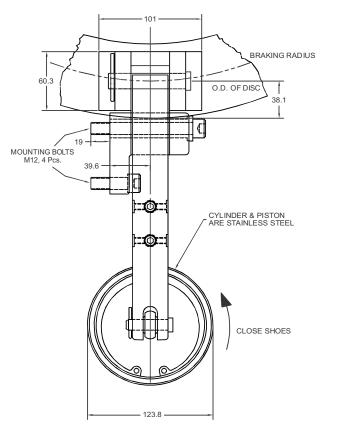


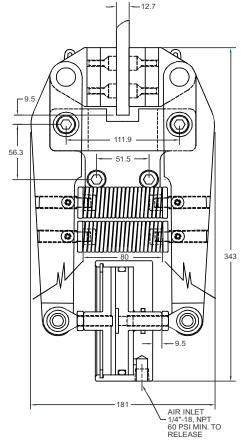
Application Areas: Steel mills, Cranes, Conveyors, Wind turbines, Textile machinery, Paper industries, Wire drawing machinery, Test rigs, Tyre industries, Printing machines, Mines, Special purpose machines, Bulk material handling equipment, Cable machinery, Sugar centrifuges, Ball mills, Nuclear power plants, Cement mills & plants, Hydro turbines etc.

CBSA - Spring Applied Air Release Caliper Disc Brake



CBSA20 The Model CBSA20 is spring applied, air released caliper brake which is used in stopping and holding applications of industrial equipment. It has a unique design, using an actuator located between two caliper arms. This allows the brake to have a compact physical size in relation to its high torque capacity. Friction linings are changed by pulling the clip pin and removing the caliper shoe. The CBSA20 unit comes assembled and ready for mounting.





CBSA20 Static Braking Force (SBF) 8450N with Full Lining

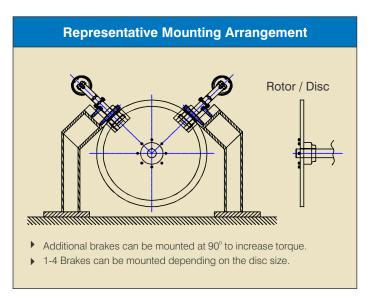
Brake torque depends upon disc size

$$T = SBF \times \left(\frac{Disc Radius (mm) - 38.1}{1000} \right) Nm$$

T = Torque SBF = Static Braking Force

Disc Inches	Size Static Torque (Nm)		Min. Release Pressure	Weight
12	(305)	950		
14	(356)	1180		
16	(406)	1400	60 PSI	15.5 Kg (Approx.)
18	(457)	1600	00 PSI	(Approx.)
24	(610)	2260		
36	(914)	3650		

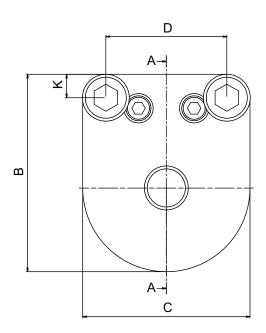
- i) Caliper Brakes are to be operated with solenoid valve
- ii) Dynamic torque is approximately 85% of static torque

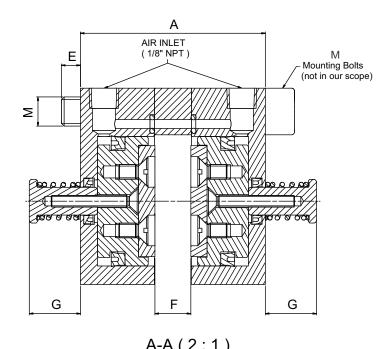


Application Areas: Steel mills, Cranes, Conveyors, Wind turbines, Textile machinery, Paper industries, Wire drawing machinery, Test rigs, Tyre industries, Printing machines, Mines, Special purpose machines, Bulk material handling equipment, Cable machinery, Sugar-centrifuges, Ball mills, Nuclear power plants, Cement mills & plants, Hydro turbines etc.

CB Caliper Brake - Pneumatic Caliper Disc Brake







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Model	Α	В	C	D	E	F	G	K	M Mounting Bolts	Static Tangential Force @ 80 PSI	Lining Radius
CB 100	63.5	66.7	57	41.3	12.7	9.5	17	8	2 x M10	556 N	20.2 mm
CB 200	73	95	59	57	16	10	16	11.1	2 x M12	1100 N	30.5 mm

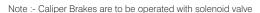
CS Static Braking Force (SBF) 8450N with Full Lining

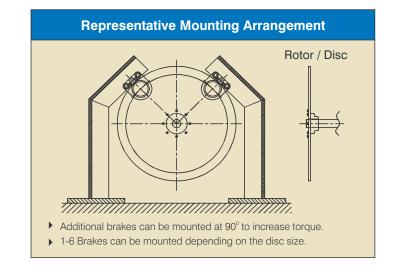
Brake torque depends upon disc size

$$T = SBF x \left(\frac{Disc Radius (mm) - Lining Radius (mm)}{1000} \right) Nm$$

T = Torque SBF = Static Braking Force

Disc	Size	CB 100	CB 200			
		Static Torque Ratings @ 80 PSI				
Inches	(mm)	_	essure			
6	(152)	31 Nm	50 Nm			
9	(229)	52 Nm	92 Nm			
12	(305)	73 Nm	134 Nm			

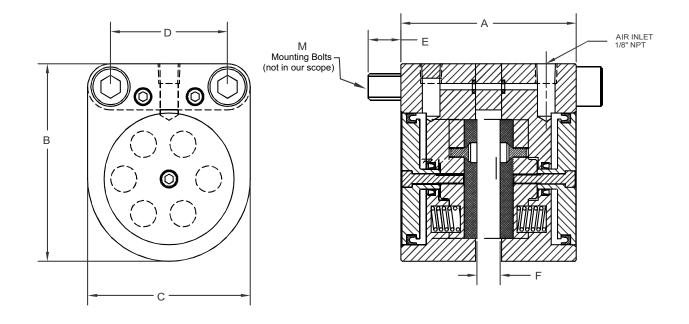




Applications: Steel mills, Cranes, Conveyors, Wind turbines, Textile machinery, Paper industries, Wire drawing machinery, Test rigs, Tyre industries, Printing machines, Mines, Special purpose machines, Bulk material handling equipment, Cable machinery, Sugar-centrifuges, Ball mills, Nuclear power plants, Cement mills & plants, Hydro turbines etc.

CSB Caliper Brake - Spring Applied / Air Release





Model	А	В	С	D	E	F	M Mounting Bolts	Static Tangential Force	Lining Radius
CSB 100	79.4	67.5	57.1	41.3	12.7	11	2 x M10	330 N	20.2 mm
CSB 200	85.7	95	79	57	16	11	2 x M12	660 N	30.5 mm

CSB Static Braking Force (SBF) 8450N with Full Lining Brake torque depends upon disc size

$$T = SBF \ x \ \left(\frac{\text{Disc Radius (mm) - Lining Radius (mm)}}{1000} \right) Nm$$

T = Torque SBF = Static Braking Force

Disc	Size	CSB 100	CSB 200		
		Release Pressure			
Inches	(mm)	@ 70) PSI		
6	(152)	18 Nm	30 Nm		
9	(229)	31 Nm	55 Nm		
12	(305)	44 Nm	81 Nm		

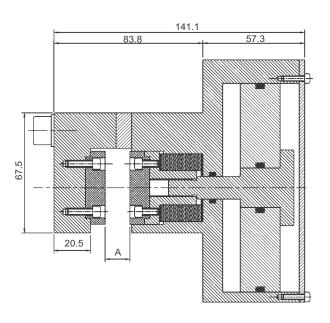


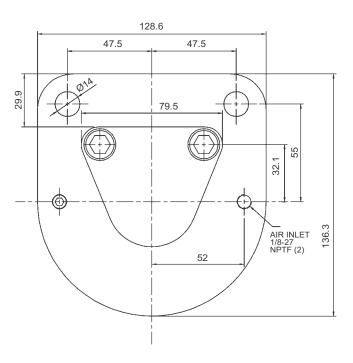
Representative Mounting Arrangement Rotor / Disc ▶ Additional brakes can be mounted at 60° to increase torque. ▶ 1-6 Brakes can be mounted depending on the disc size.

Applications: Steel mills, Cranes, Conveyors, Wind turbines, Textile machinery, Paper industries, Wire drawing machinery, Test rigs, Tyre industries, Printing machines, Mines, Special purpose machines, Bulk material handling equipment, Cable machinery, Sugar-centrifuges, Ball mills, Nuclear power plants, Cement mills & plants, Hydro turbines etc.

E-CSB-300 Caliper Brake - Spring Applied Air Release







Brake Model	Disc Thickness (A) (mm)	Disc Dia. (mm)	Braking Radius (mm)	Torque (Nm)
		160	58	90
	4	203	79	122
E-CSB-300-01		254	104	161
		305	130	201
	6.4	406	180	208

NOTE

Disc spacers for other disc thickness available.

▶ 85 PSI (5.87 Kg/m²)release pressure

- ▶ Aluminum construction
- ▶ 2640 sq. mm. total friction pad area
- Unlimited disc diameter
- ▶ Replaceable friction pads
- ► Non-asbestos friction material

Torque Selection Guideline

Torque (Nm) = 9550 x (Motor kW / RPM) x Safety Factor (K)

Load Condition	Safety factor (K)
Load Condition	2.0
Low masses, equal loading & non-intermittent operation	2.5
Low masses, light shock load & intermittent operation	3.0
Medium masses, light shock & intermittent operation	4-5
Large masses, light shock & intermittent operation	5-6
Diesel engine drive	2-3
Compressor drive	3-4
Non overhauling loads	2-3
Overhauling loads	3-4

Our other products

Custom clutches & brakes manufactured



EMCO - Simplatroll®
Electromagnetic D.C. Spring Applied Brakes
Normally On, Type 14.458



EMCO-Simplatroll
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Type 1000 / Type 5000 (Self Adjusting)





Electromagnetic DC Clutch Brake Combinations
Type 14.125 / Type 14.800 (Foot Mounted) / Type 14.800 (Flange Mounted)



EMCO - Simplatroll®
Flame Proof & Marine Duty Brakes
Type FLP.458 / Type WP.458



Electromagnetic D.C. Clutches
Normally Off, Type 14.105



EMCO®
Electr-hydraulic Disc Brakes
Type EHT1/2/3 & EHT21