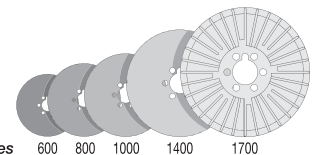




- Modular design*
- Industry standard*
- Interchangeable parts*
- High thermal capacity*
- Wide torque range & capacity*



STANDARD Series 600 800 1000 1400 1700

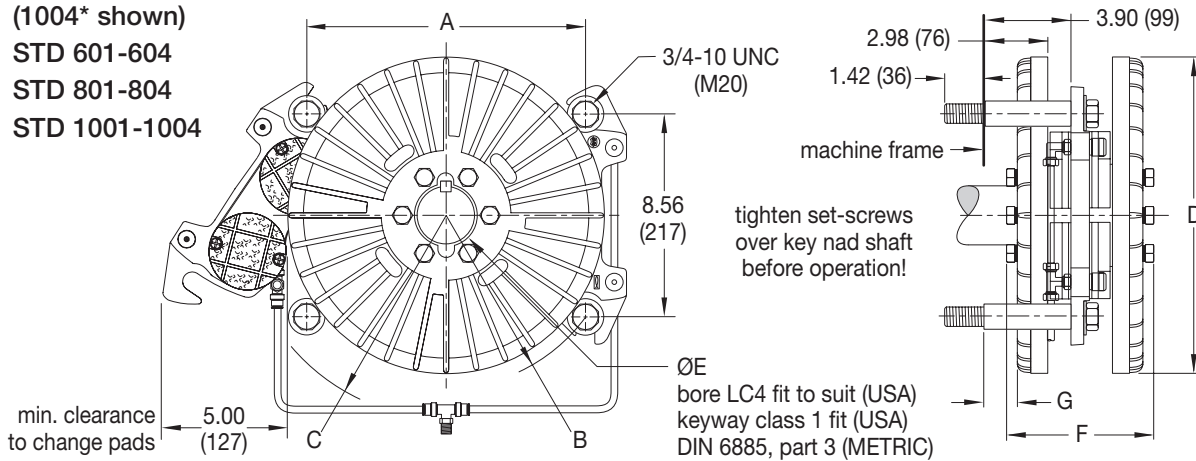
Montalvo Brakes

STANDARD Series Dual Disc Brakes

STANDARD Series dual disc brakes are the basis for every tension control brake design over the past thirty years. These are the original Montalvo Brakes, manufactured since 1970. Development and marketing of this dual disc, high thermal capacity design virtually eliminated the need for water cooled brake systems in paper and converting applications. The release of the STANDARD Series also offered the first multiple range design. This effectively put an end to traditional “piggy-back” configurations of brakes which were used to establish torque ranges broad enough to meet day to day converting application requirements. The series quickly became the “standard” for tension control. Offered in a wide range of sizes, STANDARD Series brakes feature interchangeable spare parts, easy maintenance and top-flight after sales service.

STANDARD Series Brakes *without* Adapters

(1004* shown)
 STD 601-604
 STD 801-804
 STD 1001-1004

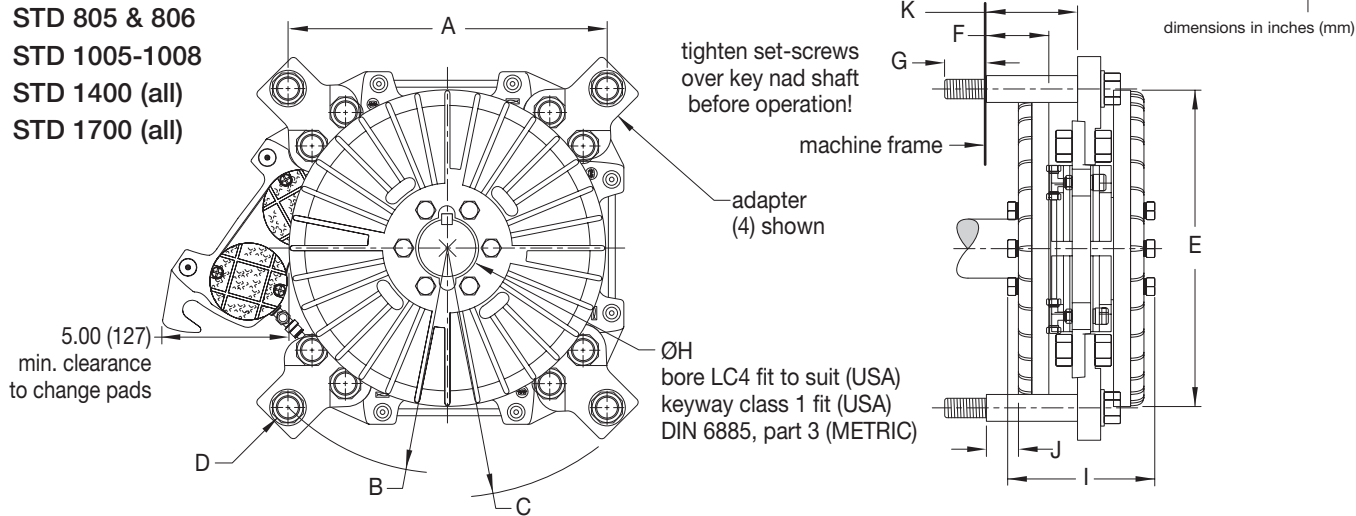


Size	A	B	C	D	E(max.)	E (min.)	F	G	Shaft Length (min.)
600	7.19 (183)	5.59r (149)	7.50r (191)	9.31 (236)	1-3/4 (45)	7/8 (20)	4.86 (123)	2.10 (53)	5.70 (145)
800	10.00 (254)	6.582r (167)	8.50r (216)	11.75 (298)	2 (50)	1-1/4 (30)	5.25 (133)	2.03 (52)	5.70 (145)
1000	11.86 (301)	7.30r (185)	9.00r (229)	13.38 (340)	2-1/2 (65)	1-3/8 (35)	5.79 (147)	1.85 (47)	5.70 (145)

* Illustration of brake mounted without using adapters. Does not represent appearance of all STANDARD brakes. Appearance and dimensions vary.

STANDARD Series Brakes *with* Adapters (1008 shown)**

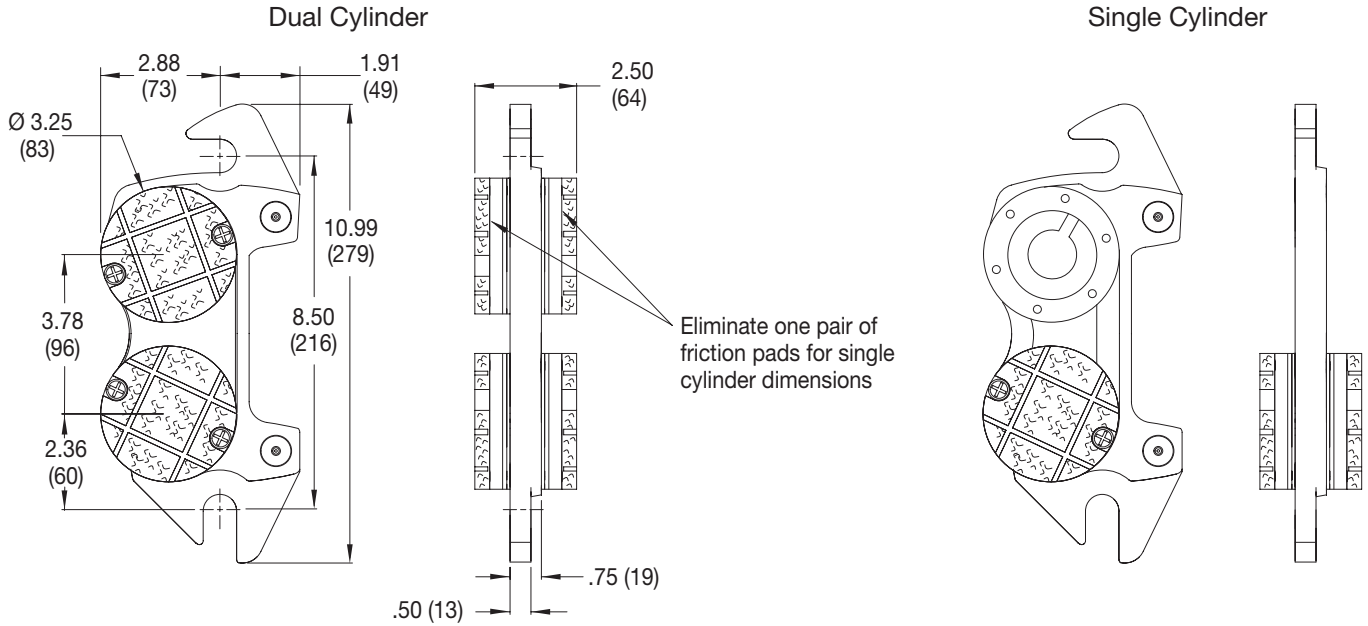
STD 805 & 806
 STD 1005-1008
 STD 1400 (all)
 STD 1700 (all)



Size	A	B	C	D	E	F	G	H(max.)	H(min.)	I	J	K	# of Adapters	Degrees Apart	Shaft Length (min.)
800	13.10 (333)	7.56r (192)	9.00r (229)	3/4-10 UNC (M20)	11.75 (298)	2.72 (69)	1.40 (36)	2 (50)	1-1/4 (30)	5.25 (133)	1.78 (45)	3.90 (99)	3	120	6.83 (173)
1000	13.44 (341)	9.50r (241)	10.50r (267)	3/4-10 UNC (M-20)	13.38 (340)	2.72 (69)	1.85 (47)	2-1/2 (65)	1-3/8 (35)	5.79 (147)	1.60 (41)	3.90 (99)	4	90	5.46 (139)
1400	13.23 (336)	11.25r (286)	12.50r (318)	3/4-10 UNC (M-20)	17.25 (438)	2.73 (69)	1.42 (36)	4-1/2 (115)	2 (50)	6.00 (152)	1.50 (38)	3.90 (99)	5	72	5.45 (138)
1700	13.59 (345)	11.56r (294)	13.25r (337)	11/4-7 UNC (M30)	20.88 (530)	3.82 (97)	2.34 (59)	5 (125)	2-1/2 (60)	6.86 (174)	2.38 (60)	5.00 (127)	5	72	6.55 (166)

** Illustration of brake mounted using adapters. Does not represent appearance of all STANDARD brakes. Appearance and dimensions vary.

STD Friction Module



Parts Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1 Friction pad (many types available)																
2 Torque Post Screw																
3 Torque Post Kit																
4 Torque Collar Screw (3/4")																
5 Torque Collar Kit																
6 Torque Collar																
7 Standard Piston Magnet																
8 Standard Piston Kit																
9 Piston Gasket																
10 J Valve (w/ o rings & extension)																
11 O rings (3/8")																
12 STANDARD Friction Module Casting																
13 Retaining Ring (1/2")																
14 Elbow Fitting (1/4")																
15 Branch Tee Fitting (1/4")																
16 Teflon Tubing (1/4")																

Torque

Size	Max. - Min. Torque†(in-lb)		
	Max. @ 75 psi - Min. @ 1 psi		
	0.10	0.30	0.45
	Fric. Coef.	Fric. Coef.	Fric. Coef.

STANDARD 600

STD601	165	500	750
STD602	330	1000	1500
STD603	500	1500	2250
STD604	660	2000	3000

2.2 60 10.0

STANDARD 800

STD801	230	690	1035
STD802	460	1380	2070
STD803	690	2070	3105
STD804	920	2760	4140
STD805	1150	3450	5175
STD806	1380	4140	6210

3.0 9.2 13.8

STANDARD 1000

STD1001	270	820	1230
STD1002	545	1640	2460
STD1003	820	2460	3690
STD1004	1090	3280	4920
STD1005	1365	4100	6150
STD1006	1640	4920	7380
STD1007	1910	5740	8610
STD1008	2190	6560	9840

3.6 10.9 16.4

STANDARD 1400

STD1401	380	1150	1725
STD1402	765	2300	3450
STD1403	1150	3450	5175
STD1404	1530	4600	6900
STD1405	1915	5750	8625
STD1406	2300	6900	10350
STD1407	2680	8050	12075
STD1408	3065	9200	13800
STD1409	3450	10350	15525
STD1410	3830	11500	17250

5.0 15.3 23.0

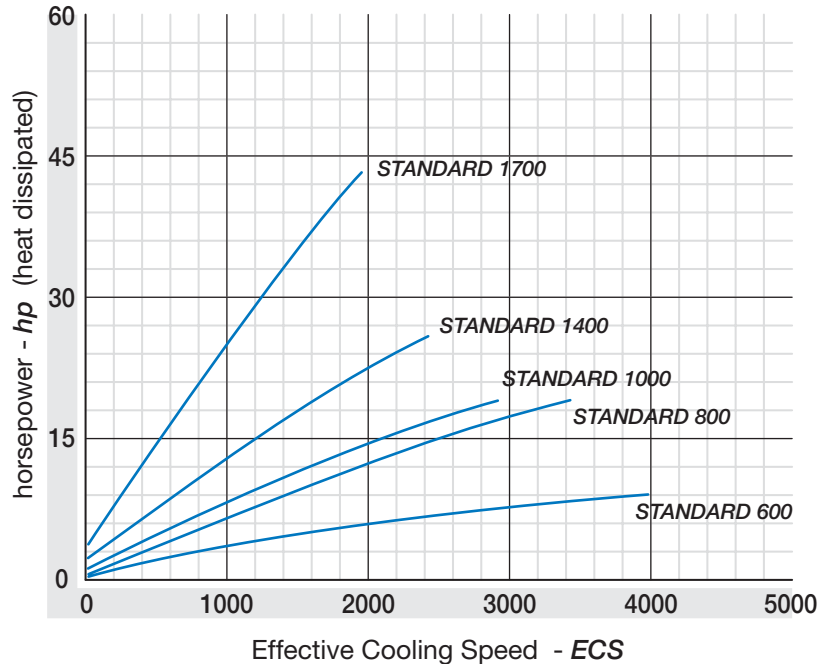
STANDARD 1700

STD1701	460	1390	2090
STD1702	930	2790	4180
STD1703	1390	4180	6270
STD1704	1860	5575	8360
STD1705	2322	6970	10450
STD1706	2785	8360	12545
STD1707	3715	9755	14630
STD1708	3715	11150	16725
STD1709	4180	12545	18815
STD1710	4645	13930	20905

6.1 18.1 27.9

† Friction coefficients are nominal. Rated torque may vary depending on operating temperature.

Horsepower



Effective Cooling Speed

The speed at which a brake will dissipate a given heat horsepower.

$$ECS = \frac{2 (rpm \text{ min.}) + rpm \text{ max.}}{3}$$

Testing

The brakes were mounted as recommended in the Brakes Installation Instruction Manual. No guard or cover was used. Addition of machine guarding, fan or blower cooling, differences in ambient conditions, location, mounting method, etc. will affect heat (hp) dissipation capacity of any air cooled brake. Careful consideration should be given to all conditions surrounding installation. Please consult The Montalvo Corporation for help in application sizing.

Temperature

- Ambient 55 - 60°F (13 -16°C)
- Cast Iron Bulk 350°F (177°C)
- (humidity) 65 - 70%

Note

Montalvo Brakes are called upon to operate within a wide speed range when used in converting applications They do not carry "nominal" ratings.

Size	Max. Speed* rpm	Inertia (disc-hub) (W _r ²) lb/ft ²	Weight (disc-hub) lb	Bal. in-oz
STD 600	4285	1.45	24	.13
STD 800	3415	3.34	33	.20
STD 1000	2920	7.66	63	.32
STD 1400	2325	23.9	121	1.0
STD 1700	1940	53.7	176	2.0

* Do not use to calculate horsepower.

