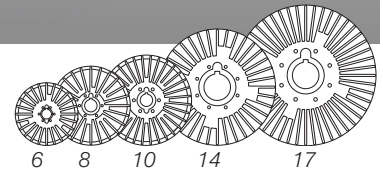


Standard-Series

Dual Disc Brakes

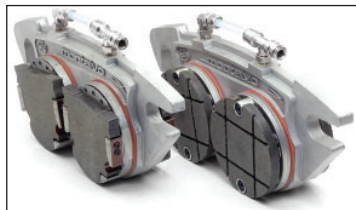


Montalvo Standard-Series Dual Disc Brakes

The Standard Series is Montalvo’s innovative and original pneumatic tension brake. With its multiple range, high thermal capacity and compact design it has dominated the industry for over forty years.

Features

- ▶ Choose from two friction pad designs - new quick-change or Montalvo “industry” STANDARD.
- ▶ Performance engineered to provide superior thermal capacity and heat dissipation.
- ▶ Choose from a wide torque range of **2 to 21,000** in-lb.
- ▶ Custom milled for shafts from **7/8” to 5”**.
- ▶ Easily installed in new equipment or as an application upgrade.
- ▶ Options: mounting plates, safety covers and I/P converters.



Standard-Series

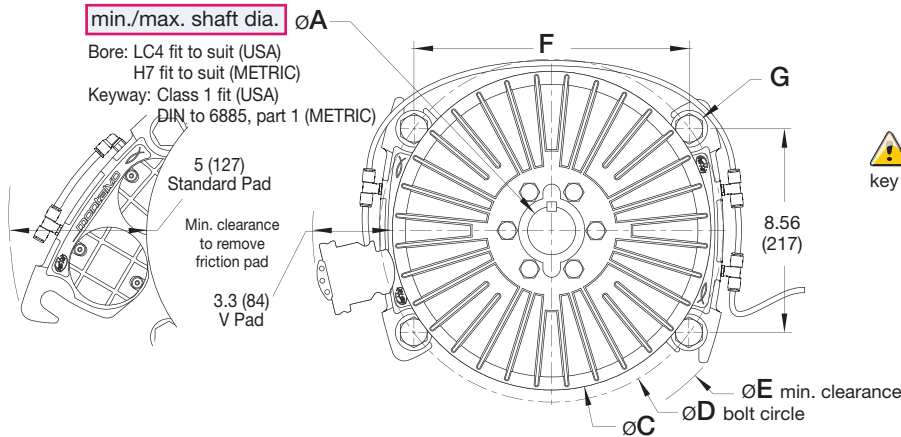
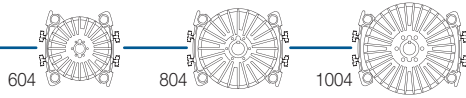
Dual Disc Brakes

Standard w/o adapters

601-604

801-804

1001-1004 (shown)



⚠ Tighten set-screws over key and shaft before operation!

mounting surface or machine frame

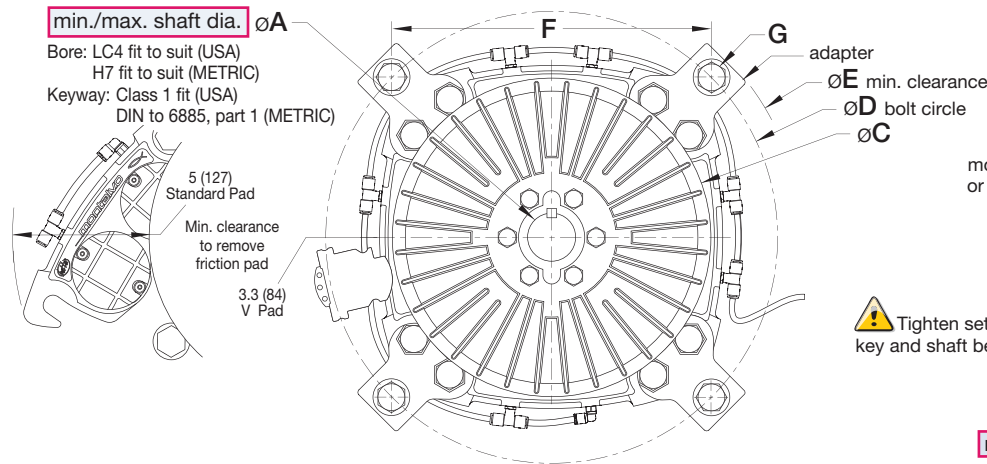
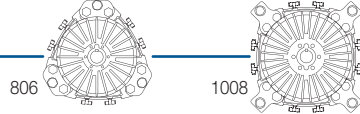
min. shaft length

Size	A(min.)	A(max.)	B(min.)	C	D	E(min.)	F	G	H	J	K	L
600	7/8 (20)	1-3/4 (45)	5.80 (148)	9.31 (236)	11.18 (284)	15.00 (381)	7.19 (183)	3/4-10 UNC (or M20)	1.42 (36)	3.90 (99)	1.85 (47)	4.86 (123)
800	1-1/4 (30)	2 (50)	5.80 (148)	11.75 (298)	13.16 (335)	17.00 (432)	10.00 (254)	3/4-10 UNC (or M20)	1.42 (36)	3.90 (99)	1.72 (44)	5.25 (133)
1000	1-3/8 (35)	2-1/2 (65)	5.80 (148)	13.38 (340)	14.60 (371)	18.00 (458)	11.86 (301)	3/4-10 UNC (or M20)	1.42 (36)	3.90 (99)	0.95 (24)	5.79 (147)

Standard with adapters

805 - 806

1005 - 1008 (shown)



⚠ Tighten set-screws over key and shaft before operation!

mounting surface or machine frame

min. shaft length

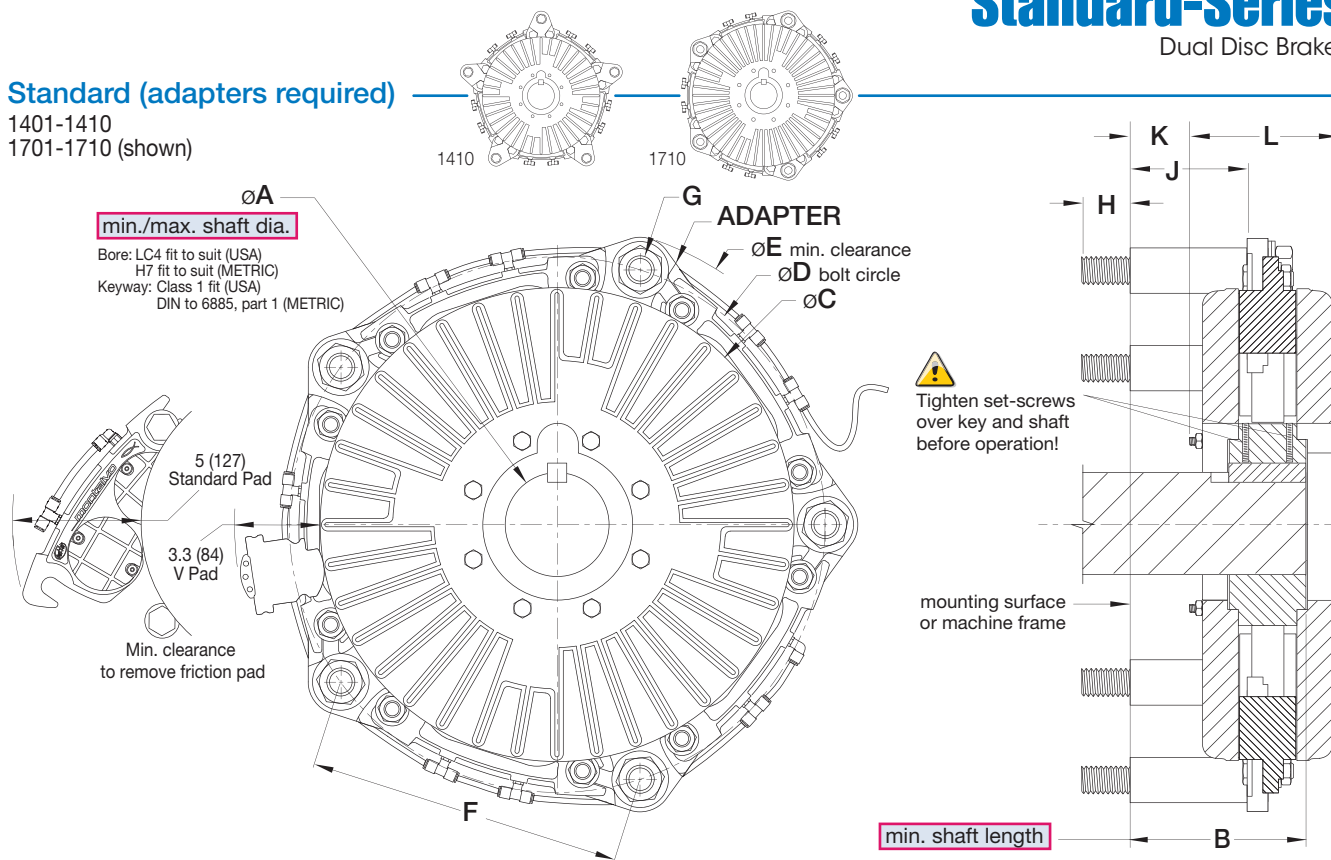
Size	A(min.)	A(max.)	B(min.)	C	D	E(min.)	F	G	H	J	K	L	# of Adapters	Degrees Apart
800	1-1/4 (30)	2 (50)	5.72 (146)	11.75 (298)	15.12 (384)	18.00 (458)	13.10 (333)	3/4-10 UNC (or M20)	1.60 (41)	3.90 (99)	1.42 (37)	5.25 (133)	3	120
1000	1-3/8 (35)	2-1/2 (65)	5.46 (139)	13.38 (340)	19.00 (483)	21.00 (534)	13.44 (343)	3/4-10 UNC (or M20)	1.85 (47)	3.90 (99)	0.95 (24)	5.79 (147)	4	90

Standard-Series

Dual Disc Brakes

Standard (adapters required)

1401-1410
1701-1710 (shown)

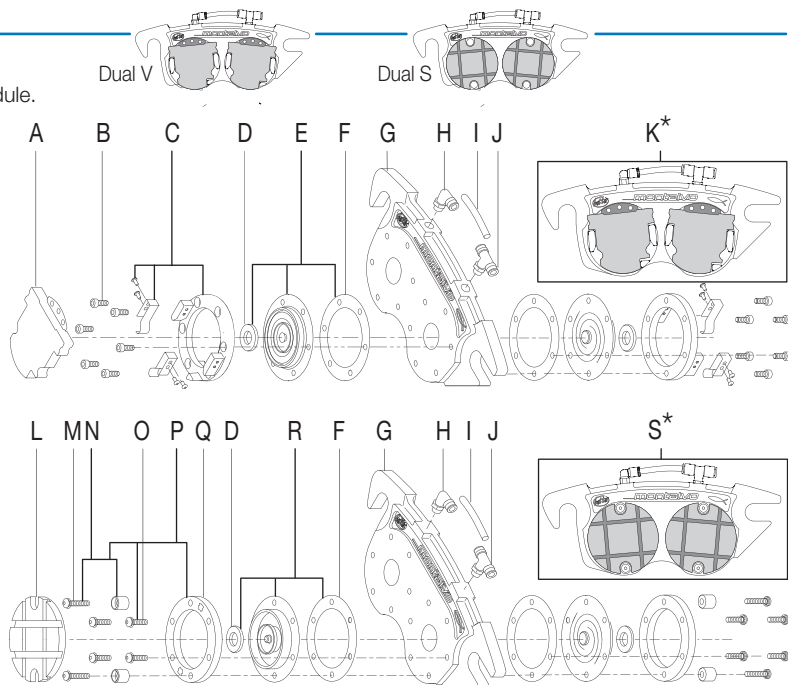


Size	A(min.)	A(max.)	B(min.)	C	D	E(min.)	F	G	H	J	K	L	Max. # of Adapters	Degrees Apart
1400	2 (50)	4-1/2 (115)	5.50 (140)	17.25 (438)	22.50 (572)	25 (635)	13.23 (336)	3/4-10 UNC (or M20)	1.40 (35)	3.90 (99)	0.64 (16)	6.00 (152)	5	72
1700	2-1/2 (65)	5 (125)	6.55 (166)	20.88 (530)	23.12 (588)	26.50 (673)	13.59 (345)	1-1/4-7 UNC (or M30)	1.83 (47)	5.00 (127)	1.36 (35)	6.86 (174)	5	72

Dual V and Dual S Friction Modules

For new brake orders choose either style to fit your needs.
For existing brakes, make sure to order parts for correct module.

Description	Ordering Part #
A V Friction pad (many types).....	call / visit website
B SHCS M5x12DIN912	18000489
C V Torque Collar Kit	27000018
D Piston Magnet	10000266
E V Piston Kit (magnet, piston, gasket)	27000430
F Piston Gasket	10000270
G Dual Friction Module Casting	10001772
H Elbow Fitting	(1/4") 18000319 or (6mm) 18000669
I Teflon Tubing	(1/4") 20000054 or (6mm) 20000323
J Branch Tee Fitting	(1/4") 18000344 or (6mm) 18000670
K Dual V Complete Module (w/friction pads)*	10001827
L Standard Friction pad (many types)	call / visit website
M Torque Post Screw (SEM BHSS M5x0.8x25)	10002014
N Torque Post Kit (post & screw)	10002009
O Torque Collar Screw (SEM BHSS M5x0.8x18)	10002015
P Torque Collar Kit (collar, posts & screws)	10001830
Q Torque Collar	10000279
R Standard Piston Kit (magnet, piston, gasket)	10002048
S Dual S Complete Module (w/friction pads)*	10001829



* Specify (1/4" or 6mm) fittings and tubing and pad type when ordering a complete module

Standard-Series

Dual Disc Brakes

Torque†

Max. - Min. (in-lb)
(Max. @ 75 psi) - (Min. @ 1 psi x 1 cylinder)

	LOW Friction	MEDIUM Friction	HIGH Friction
STANDARD 600			
601	165	500	750
602	330	1000	1500
603	500	1500	2250
604	660	2000	3000

	LOW Friction	MEDIUM Friction	HIGH Friction
STANDARD 800			
801	230	690	1035
802	460	1380	2070
803	690	2070	3105
804	920	2760	4140
805	1150	3450	5175
806	1380	4140	6210

	LOW Friction	MEDIUM Friction	HIGH Friction
STANDARD 1000			
1001	270	820	1230
1002	545	1640	2460
1003	820	2460	3690
1004	1090	3280	4920
1005	1365	4100	6150
1006	1640	4920	7380
1007	1910	5740	8610
1008	2190	6560	9840

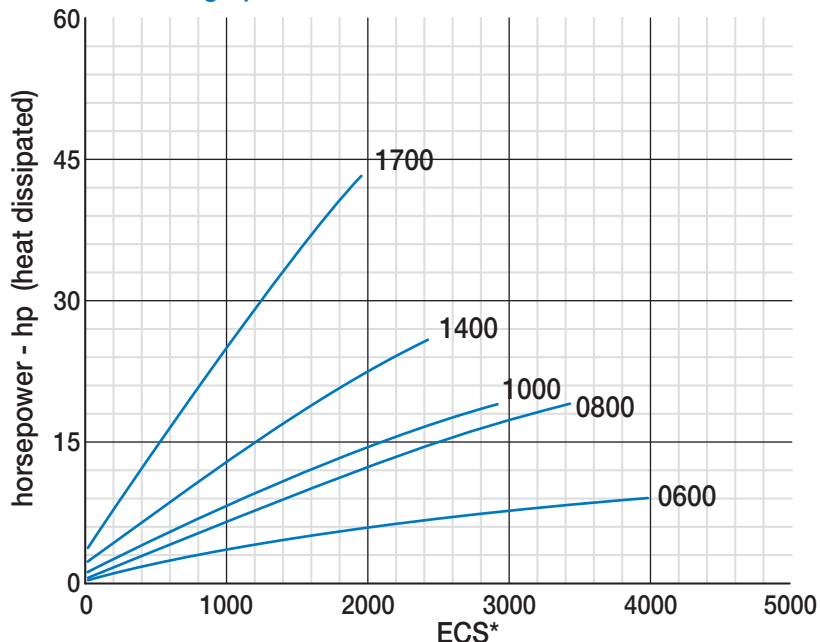
	LOW Friction	MEDIUM Friction	HIGH Friction
STANDARD 1400			
1401	380	1150	1725
1402	765	2300	3450
1403	1150	3450	5175
1404	1530	4600	6900
1405	1915	5750	8625
1406	2300	6900	10350
1407	2680	8050	12075
1408	3065	9200	13800
1409	3450	10350	15525
1410	3830	11500	17250

	LOW Friction	MEDIUM Friction	HIGH Friction
STANDARD 1700			
1701	460	1390	2090
1702	930	2790	4180
1703	1390	4180	6270
1704	1860	5575	8360
1705	2322	6970	10450
1706	2785	8360	12545
1707	3250	9755	14630
1708	3715	11150	16725
1709	4180	12545	18815
1710	4645	13930	20905

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

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	+45 75 57 27 11
	+49 (0)511 760 691 41

Effective Cooling Speed*



*Effective Cooling Speed (ECS)
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
Cast Iron Bulk 350°F (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 Wlr² of discs-hub (lb-ft²)	Weight discs-hub (lb)
600	4285	1.45	24
800	3415	3.34	33
1000	2920	7.66	63
1400	2325	23.9	121
1700	1940	53.7	176

* Do not use to calculate horsepower.

Related Montalvo Products

<p>Safety Cover</p> <p>Rugged enclosure protects operators from brake moving parts and high temps.</p>	<p>Mounting Plate</p> <p>Pre-machined to simplify brake/module and safety cover mounting. Ventilated.</p>	<p>I/P Converter</p> <p>Convert electrical input from control to regulated air output to brake.</p>	<p>Range Expander</p> <p>Connection to friction modules to produce multiple torque ranges.</p>
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The Montalvo Corporation

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