



Compact

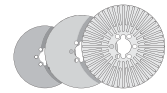
Low inertia

Modular design

High thermal capacity

Wide torque range & capacity

Easy installation & maintenance



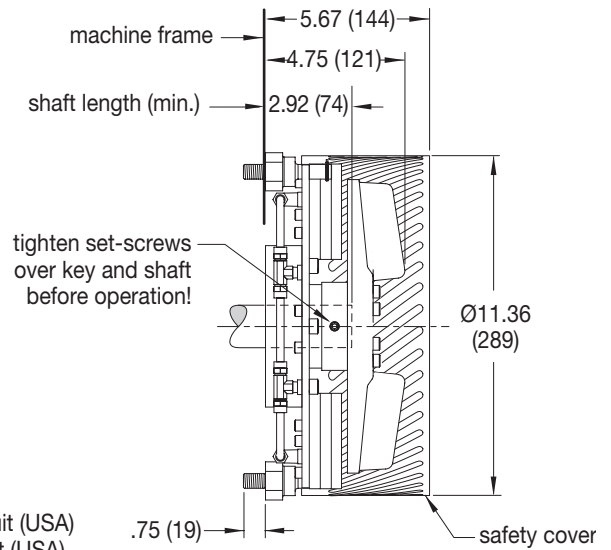
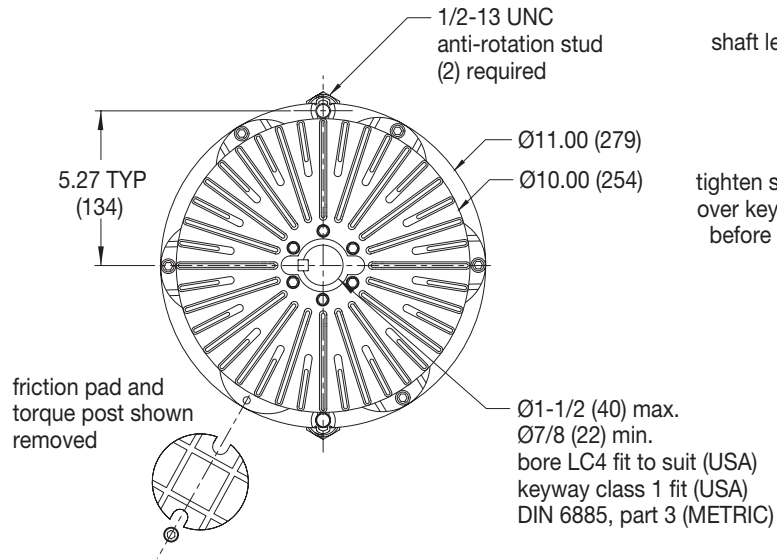
HPS Series 6 8 10

Montalvo Brakes

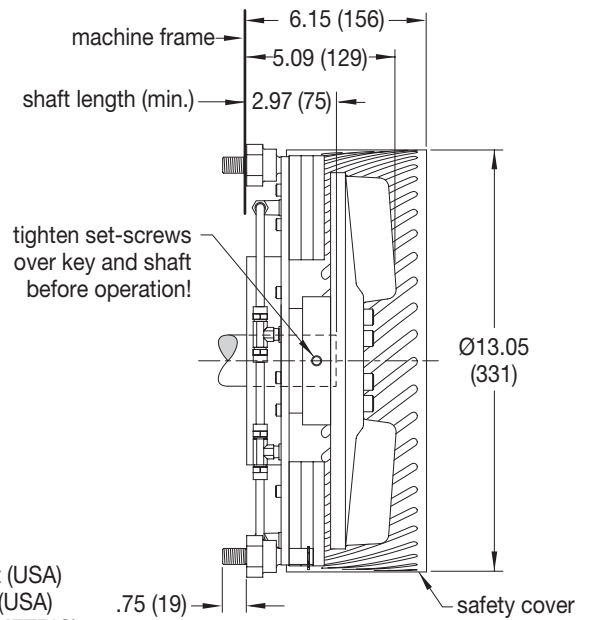
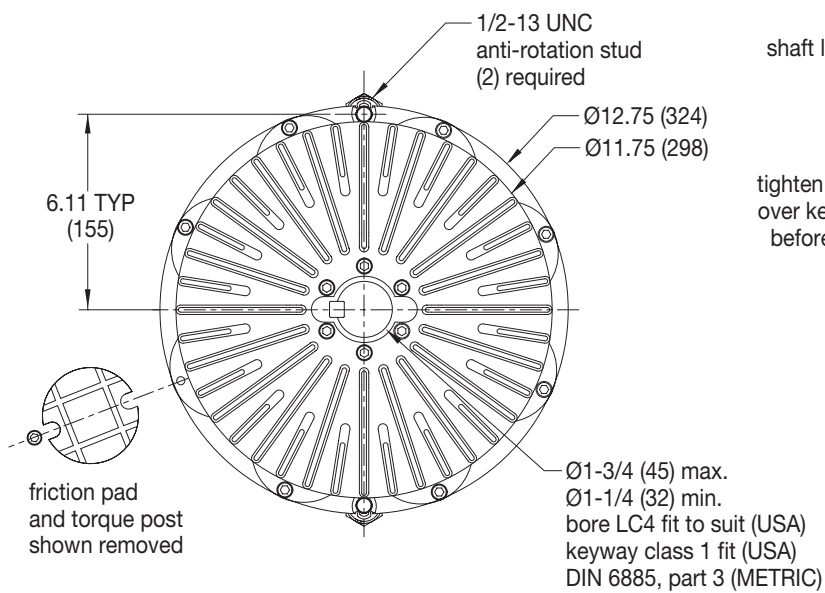
HPS-Series High Performance Single Disc Brakes

The HPS-Series brake uses a single HP-Series disc to control tension (torque) in limited space applications. The major design criteria in the development of the HP-Series was that each size in the new series should have the heat dissipating capacity of the next larger size in the Standard Series. Montalvo met and exceeded its goal with the HP Series. Having developed the dual disc HP-Series to such a high standard resulted in further development. The reasoning: if an HP will dissipate the same heat horsepower as the next size in the Standard Series, it makes sense that a single HP disc will handle approximately the same heat load as a dual disc unit of the same size in the Standard Series. This proved true. And it gave birth to the compact, easy to install and set up, HPS-Series. Another standard from Montalvo.

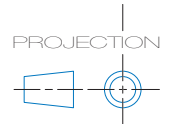
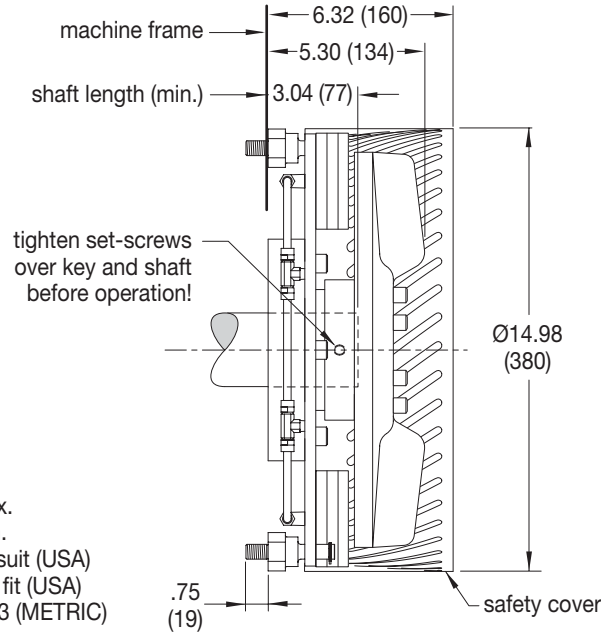
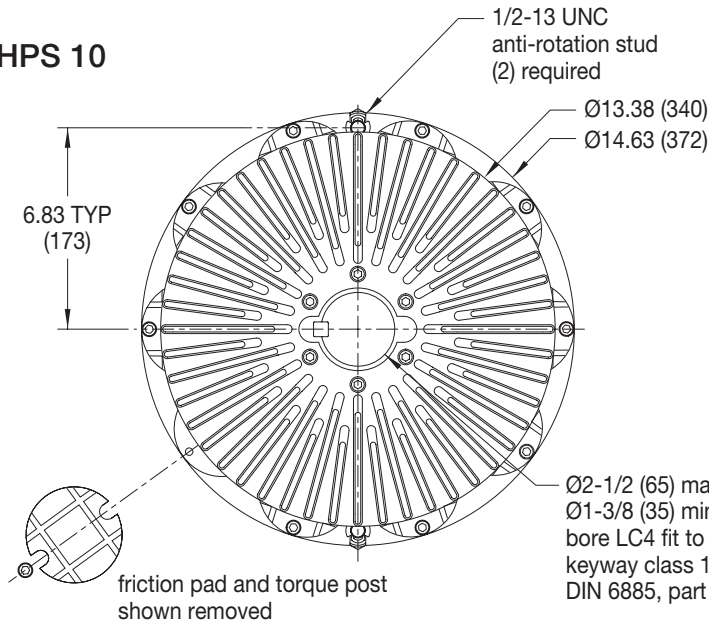
HPS 6



HPS 8

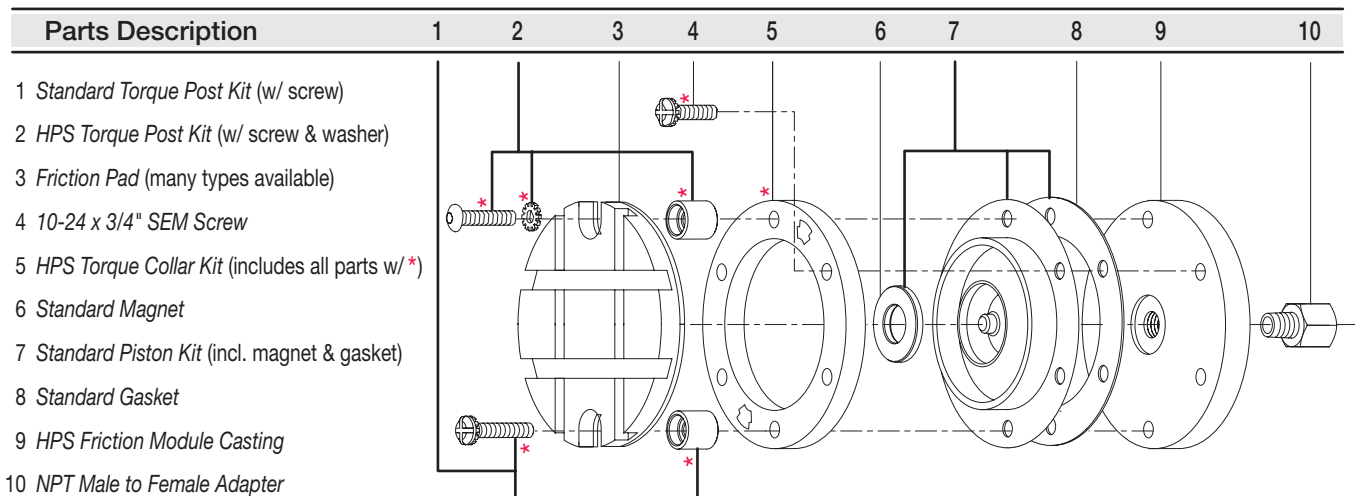


HPS 10



dimensions in inches (mm)

HPS Friction Module



Torque

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

HPS 6

HPS601	107	320	480
HPS602	213	640	960
HPS603	320	960	1440
HPS604	427	1280	1920
HPS605	533	1600	2400
HPS606	640	1920	2880

1.4 4.3 6.4

HPS 8

HPS801	131	391	587
HPS802	260	783	1174
HPS803	391	1174	1761
HPS804	522	1564	2348
HPS805	652	1957	2935
HPS806	783	2348	3522
HPS807	913	2740	4109
HPS808	1044	3131	4696

1.7 5.2 7.8

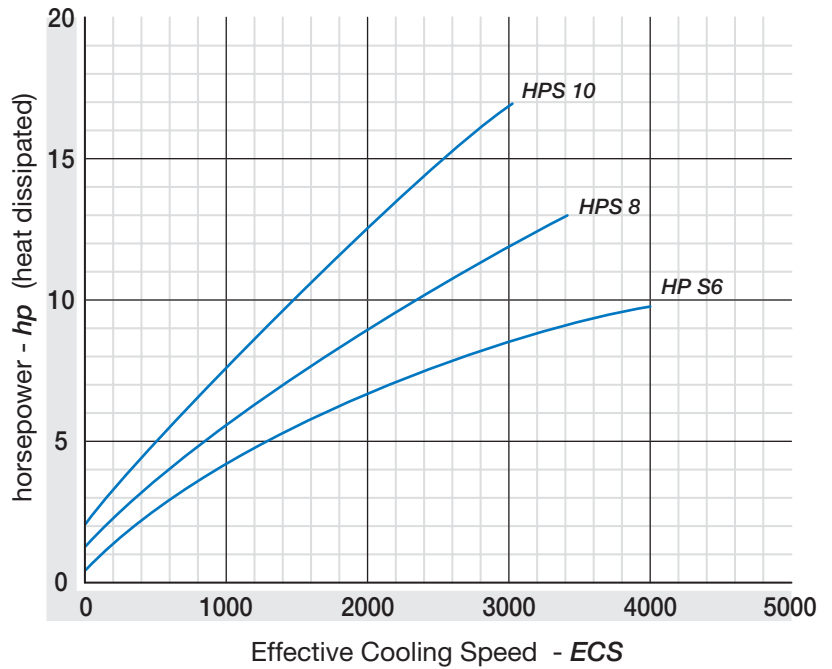
HPS 10

HPS1001	156	468	702
HPS1002	312	936	1404
HPS1003	468	1404	2106
HPS1004	624	1872	2808
HPS1005	780	2340	3510
HPS1006	936	2808	4212
HPS1007	1092	3276	4915
HPS1008	1248	3744	5617
HPS1009	1404	4212	6319
HPS1010	1560	4681	7021

2.1 6.2 9.4

† 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.

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

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 (W _r ²) (disc-hub) lb/ft ²	Weight (disc-hub) lb	Bal. in-oz
HPS 6	4300	2.2	38	.16
HPS 8	3400	5.4	59	.41
HPS 10	2900	10.5	98	.90

* Do not use to calculate horsepower.