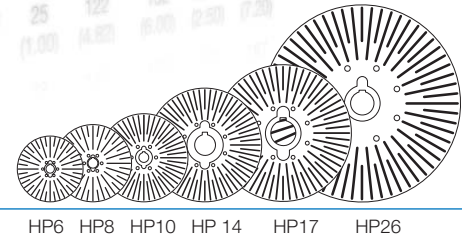
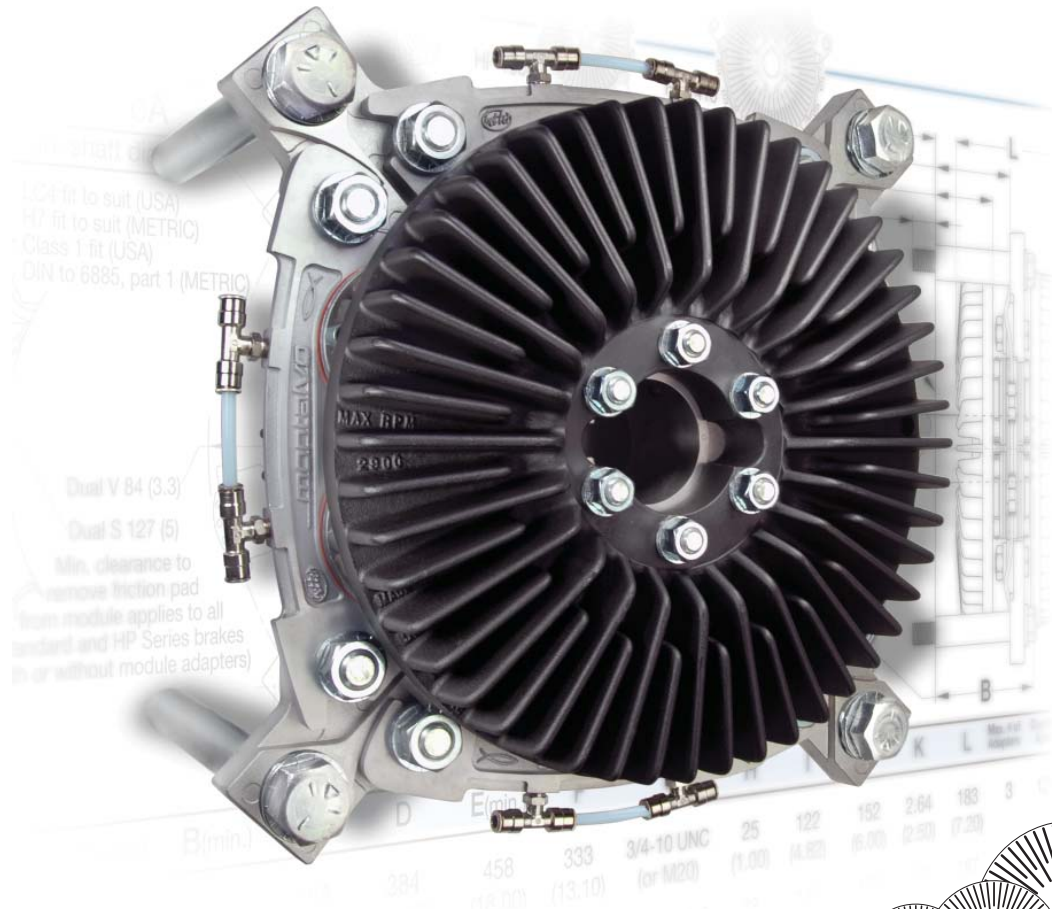


HP-Series

High Performance Dual Disc Brakes

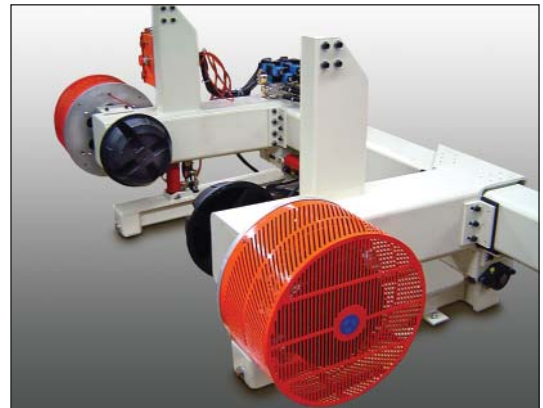


Montalvo HP-Series High Performance Dual Disc Brakes

Montalvo HP-Series pneumatic tension brakes are the result of years of innovative design, engineering excellence and renown customer service in the converting industry. The HP is the benchmark for performance in all applications from board to tissue.

Features

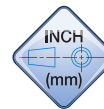
- ▶ Choose from two friction pad designs - new quick-change or Montalvo "industry" STANDARD.
- ▶ High performance fin design provides superior thermal capacity and heat dissipation.
- ▶ Choose from a wide torque range of **2 to 51,000** in-lb.
- ▶ Custom milled for shafts from **1.25" to 4.5"**.
- ▶ Easily installed in new equipment or as an application upgrade.
- ▶ Options: mounting plates, safety covers and I/P converters.



A pair of HP 1008s under cover on an unwind stand.

HP-Series

High Performance Dual Disc Brakes

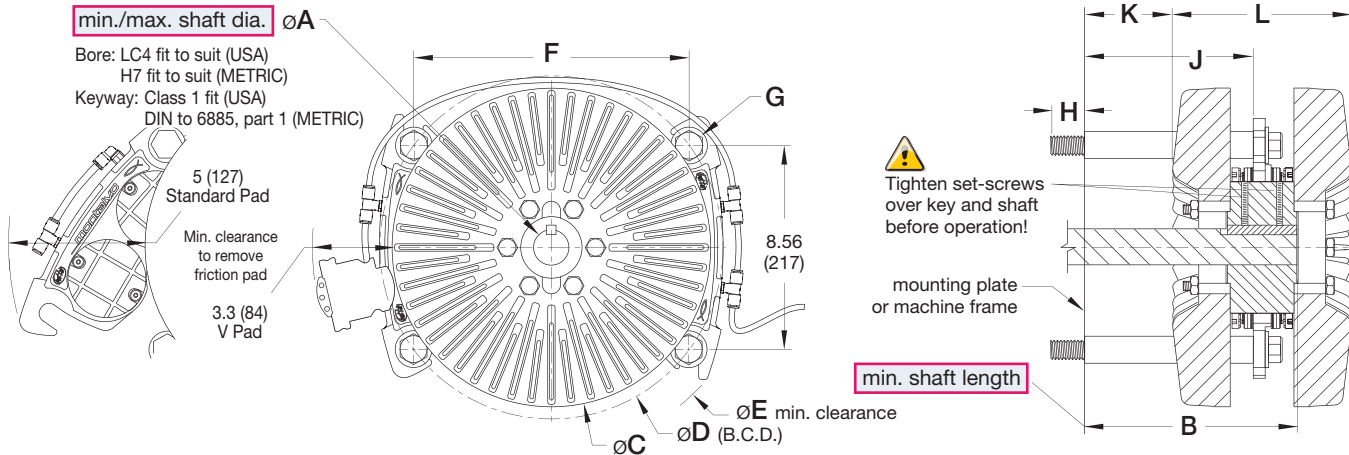
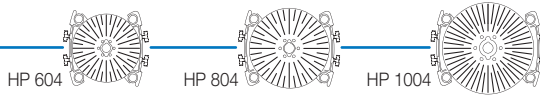


HP (without adapters)

601 - 604

801 - 804

1001 - 1004 (shown)



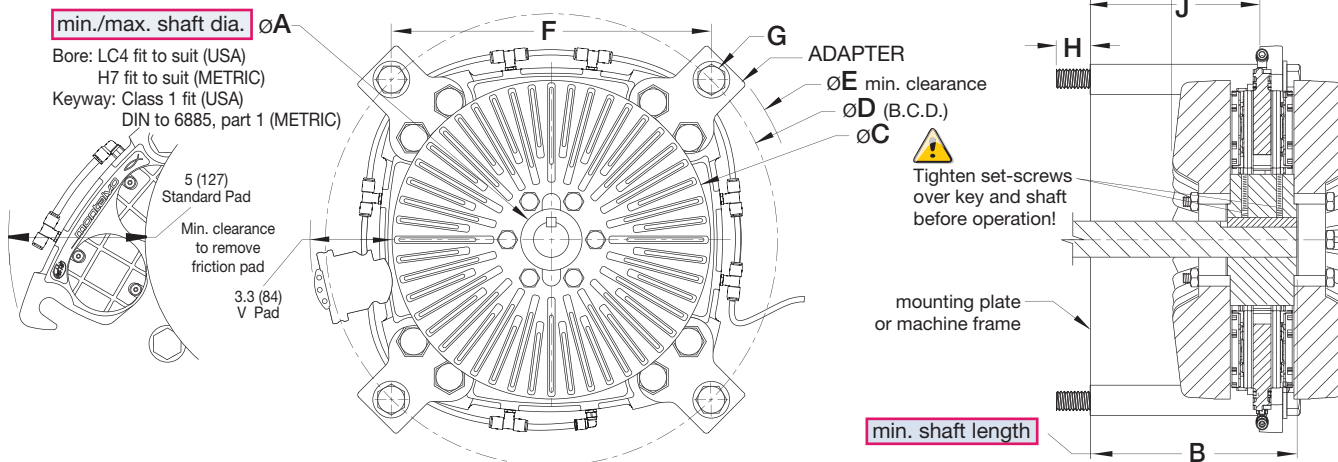
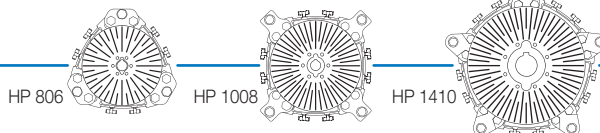
Size	A(min.)	A(max.)	B(min.)	C	D(B.C.D.)	E(min.)	F	G	H	J	K	L
HP 6	1-1/4 (35)	1-3/4 (45)	6.80 (173)	10.00 (254)	11.65 (296)	15.00 (382)	7.92 (201)	3/4-10 UNC (or M20)	1.25 (32)	5.00 (127)	2.11 (54)	6.52 (166)
HP 8	1-1/4 (35)	2 (50)	7.80 (198)	11.75 (298)	13.16 (334)	17.00 (432)	10.00 (254)	3/4-10 UNC (or M20)	1.00 (26)	6.00 (152)	2.77 (70)	7.20 (183)
HP 10	1-1/2 (40)	2-1/2 (65)	8.80 (224)	13.38 (340)	14.60 (371)	18.00 (458)	11.83 (300)	3/4-10 UNC (or M20)	1.25 (32)	7.00 (178)	3.68 (93)	7.36 (187)

HP (with adapters)

805-806

1005-1008 (shown)

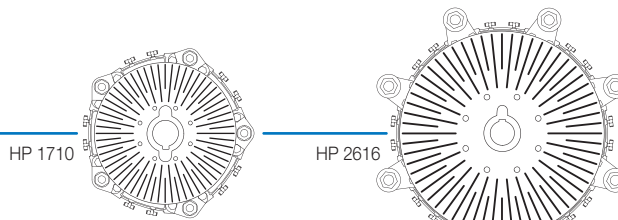
1401-1410



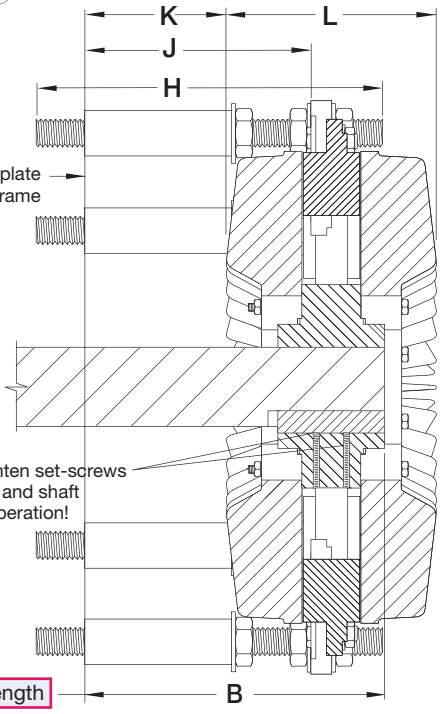
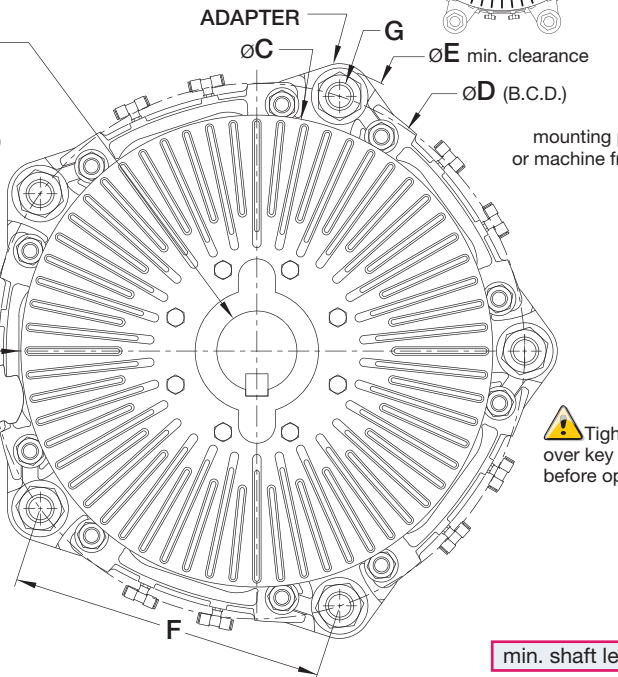
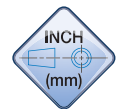
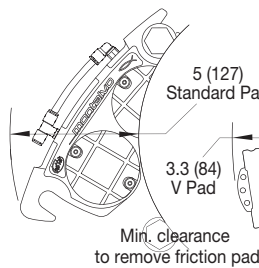
Size	A(min.)	A(max.)	B(min.)	C	D(B.C.D.)	E(min.)	F	G	H	J	K	L	Max. # of Adapters	Degrees Apart
HP 8	1-1/4 (35)	2 (50)	7.80 (198)	11.75 (298)	15.12 (384)	18.00 (458)	13.10 (333)	3/4-10 UNC (or M20)	1.00 (25)	6.00 (152)	2.52 (64)	7.20 (183)	3	120
HP 10	1-1/2 (40)	2-1/2 (65)	8.82 (224)	13.38 (340)	19.00 (482)	21.00 (534)	13.44 (341)	3/4-10 UNC (or M20)	1.25 (33)	7.00 (178)	3.44 (87)	7.36 (187)	4	90
HP 14	2 (50)	4 (100)	9.95 (253)	17.25 (438)	22.50 (572)	25.00 (636)	13.23 (336)	3/4-10 UNC (or M20)	1.37 (35)	8.40 (213)	4.47 (114)	8.10 (206)	5	72

HP (with adapters)

1701 - 1710 (shown)
2601 - 2616



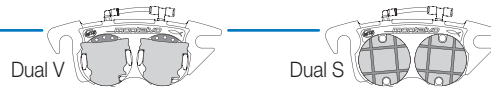
min./max. shaft dia. ϕA
Bore: LC4 fit to suit (USA)
H7 fit to suit (METRIC)
Keyway: Class 1 fit (USA)
DIN to 6885, part 1 (METRIC)



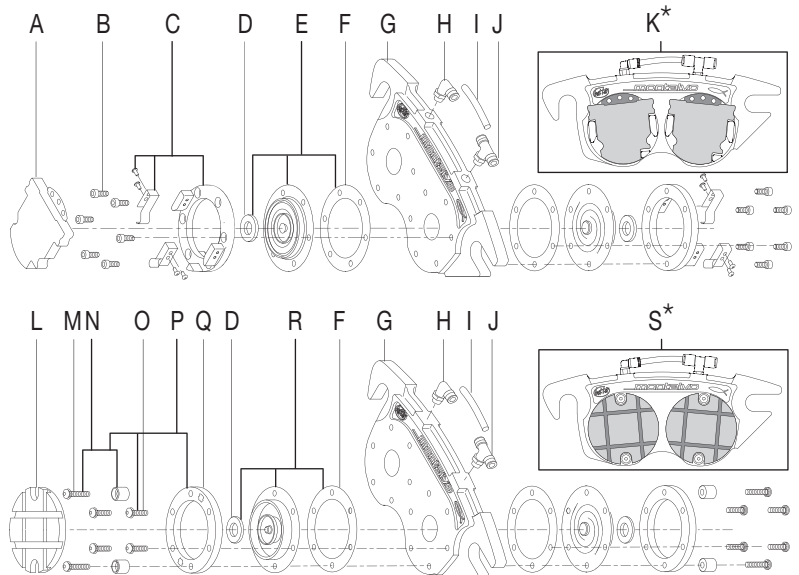
Size	A(min.)	A(max.)	B(min.)	C	D(B.C.D.)	E(min.)	F	G	H	J	K	L	Max. # of Adapters	Degrees Apart
HP 17	2-1/2 (65)	4-1/2 (115)	12.48 (317)	20.88 (530)	23.12 (587.2)	26.50 (673)	13.59 (345)	1-1/4-7 UNC (or M30)	15.50 (394)	10.00 (254)	5.53 (140)	9.18 (233)	5	72
HP 26	3-3/4 (95)	4-1/2 (115)	16.48 (419)	30.00 (762)	36.00 (914)	40.00 (1016)	13.78 (350)	1-1/2-6 UNC (or M36)	20.00 (508)	14.00 (356)	8.00 (203)	12.25 (311)	8	45

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

HP-Series

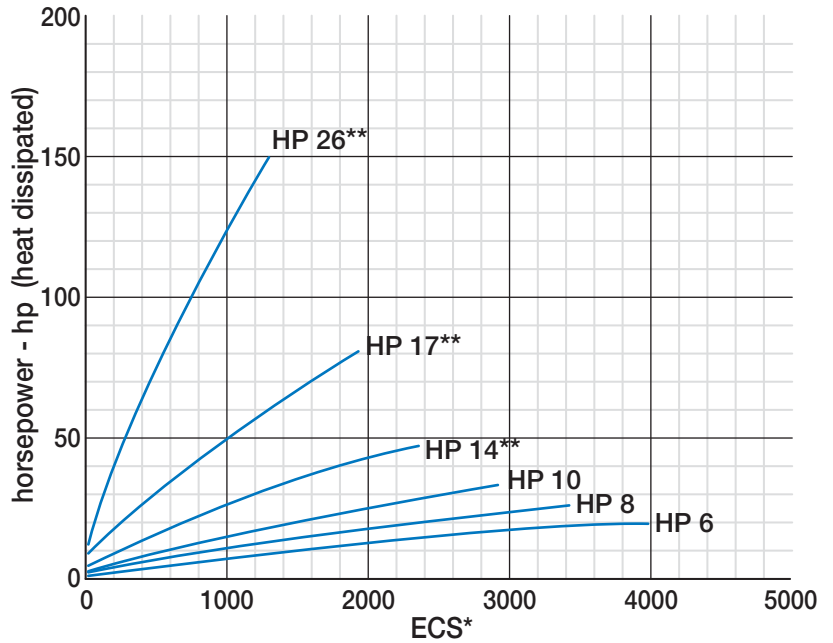
High Performance Dual Disc Brakes

Torque†

	Max. - Min. (in-lb)					
	(Max. @ 75 psi) - (Min. @ 1 psi x 1 cylinder)					
	LOW Friction	MEDIUM Friction	HIGH Friction			
HP 600						
HP601	165	500	750			
HP602	330	1000	1500	2.2	6.0	10.0
HP603	500	1500	2250			
HP604	660	2000	3000			
HP 800						
HP801	230	690	1035			
HP802	460	1380	2070			
HP803	690	2070	3105	3.0	9.2	13.8
HP804	920	2760	4140			
HP805	1150	3450	5175			
HP806	1380	4140	6210			
HP 1000						
HP1001	270	820	1230			
HP1002	545	1640	2460			
HP1003	820	2460	3690			
HP1004	1090	3280	4920	3.6	10.9	16.4
HP1005	1365	4100	6150			
HP1006	1640	4920	7380			
HP1007	1910	5740	8610			
HP1008	2190	6560	9840			
HP 1400						
HP1401	380	1150	1725			
HP1402	765	2300	3450			
HP1403	1150	3450	5175			
HP1404	1530	4600	6900			
HP1405	1915	5750	8625	5.0	15.3	23.0
HP1406	2300	6900	10350			
HP1407	2680	8050	12075			
HP1408	3065	9200	13800			
HP1409	3450	10350	15525			
HP1410	3830	11500	17250			
HP 1700						
HP1701	460	1390	2090			
HP1702	930	2790	4180			
HP1703	1390	4180	6270			
HP1704	1860	5575	8360			
HP1705	2322	6970	10450	6.1	18.1	27.9
HP1706	2785	8360	12545			
HP1707	3245	9755	14630			
HP1708	3715	11150	16725			
HP1709	4180	12545	18815			
HP1710	4645	13930	20905			
HP 2600						
HP2601	710	2130	3195			
HP2602	1420	4260	6390			
HP2603	2130	6390	9505			
HP2604	2840	8250	12780			
HP2605	3550	10650	15975			
HP2606	4260	12780	19170			
HP2607	4970	14910	22365			
HP2608	5680	17040	25560	9.5	28.4	42.6
HP2609	6390	19170	28755			
HP2610	7100	31300	31950			
HP2611	7810	23430	35145			
HP2612	8520	25560	38340			
HP2613	9230	27690	41535			
HP2614	9940	28820	44730			
HP2615	10650	31950	47925			
HP2616	11360	34480	51120			

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

Effective Cooling Speed*



*Effective Cooling Speed (ECS)

The equivalent constant speed with regards to heat dissipation.

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

**Maximum Power Absorption (MPA) Rating

HP 14, 17 & 26 disc/hubs have the capacity to dissipate rated horsepower, however, excessive power absorption by the friction pads may result in higher pad wear. For optimum pad wear, do not exceed the MPA rating: MPA rating = 4.0 hp per cylinder (example: HP1403 = 3 x 4 hp = 12 hp MPA rating).

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.

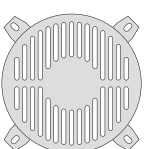
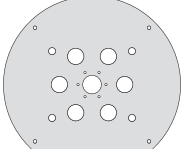
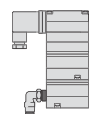

Size	Max. Speed* (rpm)	Inertia W ² of discs-hub (lb-ft ²)	Weight discs-hub (lb)
HP 6	4300	4.3	35
HP 8	3400	10.8	61
HP 10	2900	20.8	105
HP 14	2300	71.1	182
HP 17	1900	188	305
HP 26	1300	1070	845

* Do not use to calculate horsepower.

Temperature

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

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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