IN-LINE PLANETARY GEAR, MULTI–VANE MOTORS

SERIES M002 MULTI–VANE AIR MOTORS
SPECIFICATIONS

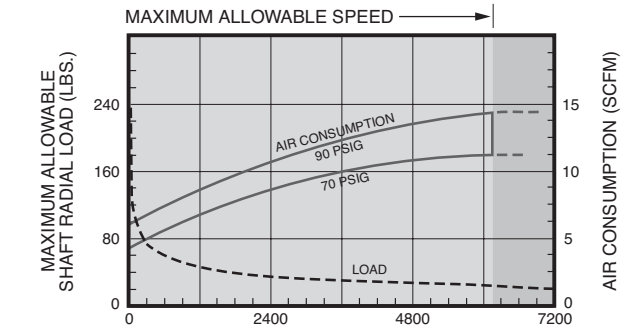
Model	Max. Power		Speed at Max. Power	Free Speed ▲	Starting Torque		Stall Torque		Air Consumption at Max. Power		Weight	
	hp	kw	rpm	rpm	lb-ft	Nm	lb-ft	Nm	scfm	m^3/m	lb	kg
NON-REVERSIBLE Direction of rotation is counterclockwise when facing the shaft												
M002RHR000AR3	0.25	0.19	12,250	26,000	0.15	0.20	0.20	0.27	12.0	0.34	1	0.46
M002RHR004AR3	0.22	0.16	3,250	6,920	0.45	0.61	0.61	0.83	11.9	0.34	1	0.46
M002RHR006AR3	0.22	0.16	2,060	4,385	0.72	0.98	0.96	1.30	11.9	0.34	1 1/8	0.49
M002RHR008AR3	0.22	0.16	1,520	3,240	0.98	1.33	1.31	1.78	11.9	0.34	1	0.46
M002RHR013AR3	0.19	0.14	880	1,840	1.36	2.50	1.82	2.47	11.8	0.33	1 1/8	0.50
M002RHR021AR3	0.19	0.14	555	1,165	2.16	2.93	2.88	3.90	11.8	0.33	1 1/8	0.50
M002RHR028AR3	0.19	0.14	410	860	2.92	3.96	3.90	5.29	11.8	0.33	1 1/8	0.50
M002RHR044AR3	0.19	0.14	262	545	4.61	6.25	6.15	8.34	11.8	0.33	1 1/8	0.50
M002RHR101AR3	0.16	0.12	112	228	*8.32	*11.2	*11.1	*15.0	11.7	0.33	1 3/16	0.54
M002RHR159AR3	0.16	0.12	71	145	*13.1	*17.7	*17.5	*23.7	11.7	0.33	1 3/16	0.54
REVERSIBLE												
M002RVR000AR3	0.20	0.15	11,500	23,000	0.13	0.18	0.18	0.24	9.8	0.28	1	0.46
M002RVR004AR3	0.17	0.13	3,045	6,090	0.40	0.54	0.54	0.73	9.7	0.27	1	0.46
M002RVR006AR3	0.17	0.13	1,930	3,860	0.64	0.87	0.86	1.17	9.7	0.27	1 1/8	0.49
M002RVR008AR3	0.17	0.13	1,425	2,850	0.87	1.18	1.16	1.57	9.7	0.27	1	0.46
M002RVR013AR3	0.14	0.10	820	1,645	1.17	1.58	1.56	2.11	9.6	0.27	1 1/8	0.50
M002RVR021AR3	0.14	0.10	520	1,045	1.85	2.51	2.47	3.35	9.6	0.27	1 1/8	0.50
M002RVR028AR3	0.14	0.10	385	770	2.50	3.39	3.34	4.53	9.6	0.27	1 1/8	0.50
M002RVR044AR3	0.14	0.10	240	485	3.96	5.37	5.28	7.16	9.6	0.27	1 1/8	0.50
M002RVR101AR3	0.11	0.08	104	209	*6.78	*9.19	*9.05	*12.2	9.5	0.27	1 3/16	0.54
M002RVR159AR3	0.11	0.08	66	132	*10.7	*14.5	*14.2	*19.3	9.5	0.27	1 3/16	0.54

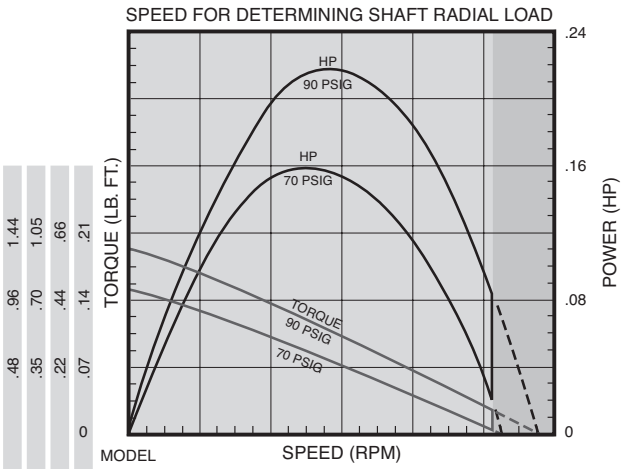
▲ ALL models must be operated with sufficient load to prevent speed from exceeding maximum allowable speed shown on performance curve.

* Applications with these models must be limited to 12 lb-ft (16.3 Nm) torque.

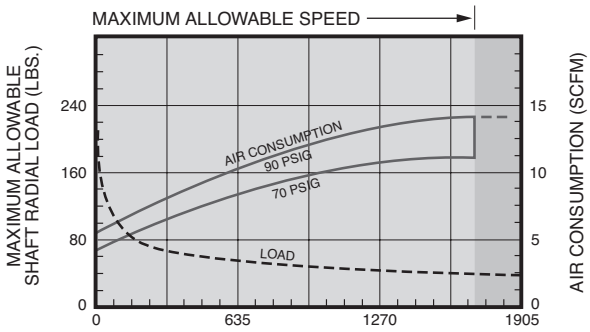
Performance figures are at 90 psig (620 kPa) air pressure.

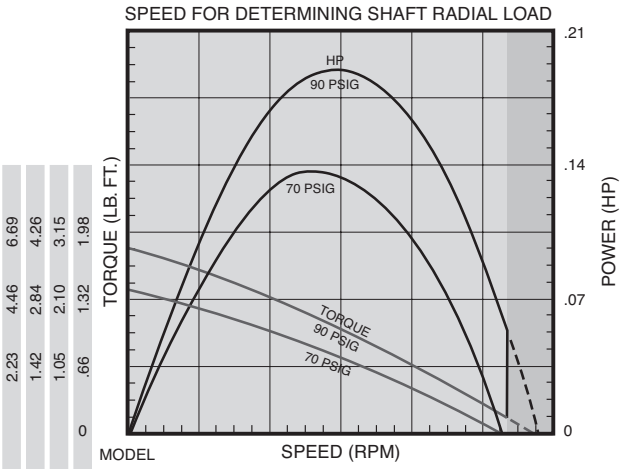
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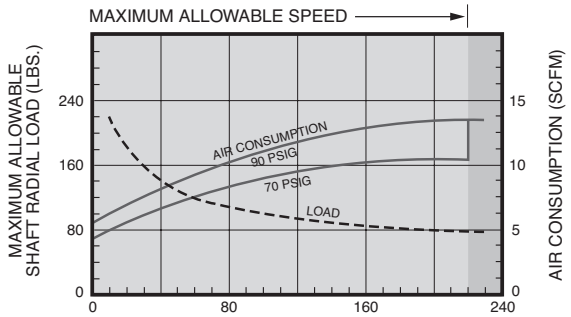


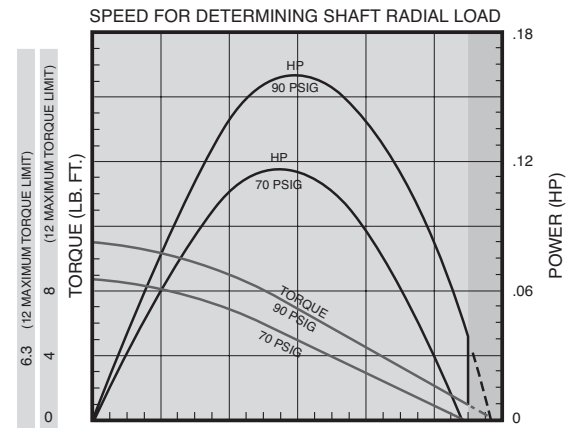
MODEL	SPEED (RPM)		
M002RHR000AR3	9000	18000	27000
M002RHR004AR3	2400	4800	7200
M002RHR006AR3	1520	3040	4560
M002RHR008AR3	1120	2240	3360



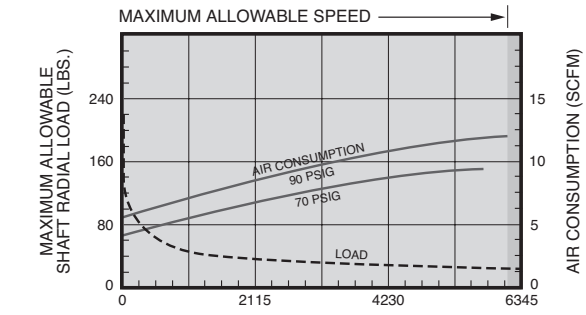


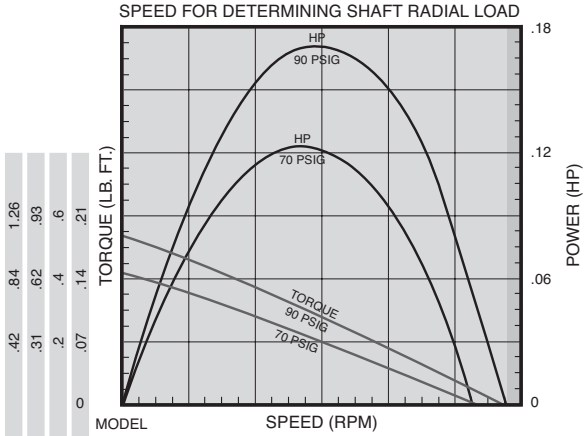
MODEL	SPEED (RPM)		
M002RHR013AR3	635	1270	1905
M002RHR021AR3	400	800	1200
M002RHR028AR3	300	600	900
M002RHR044AR3	185	370	555





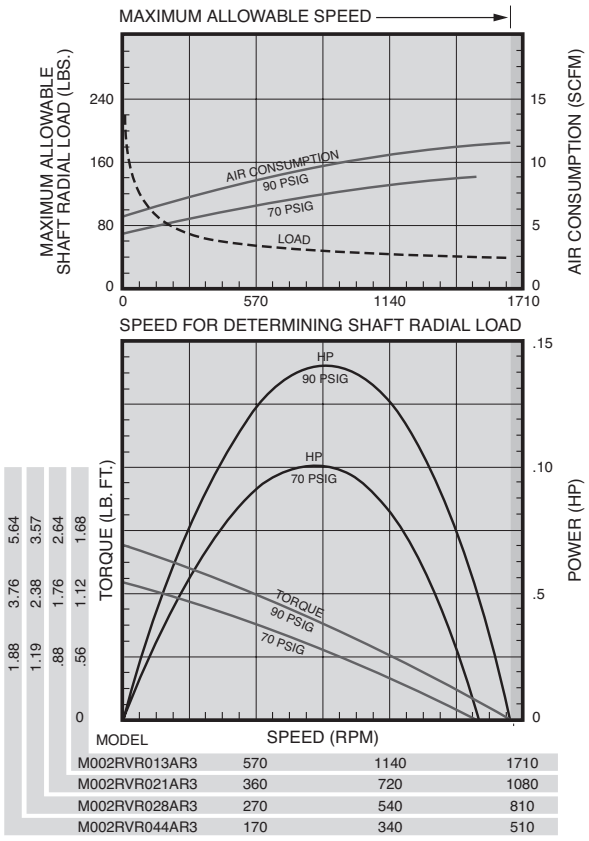
MODEL	SPEED (RPM)		
M002RHR101AR3	80	160	240
M002RHR159AR3	50	100	150



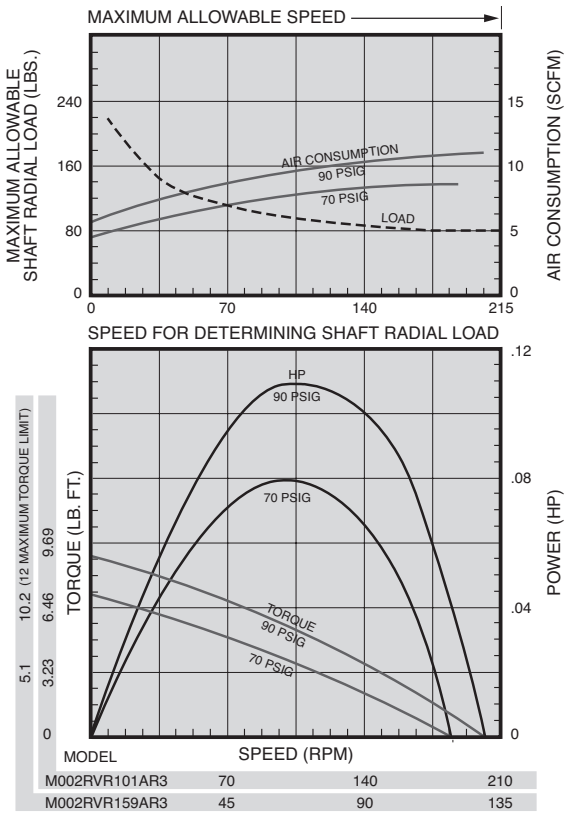


MODEL	SPEED (RPM)		
M002RVR000AR3	8000	16000	24000
M002RVR004AR3	2115	4230	6345
M002RVR006AR3	1340	2680	4020
M002RVR008AR3	990	1980	2970

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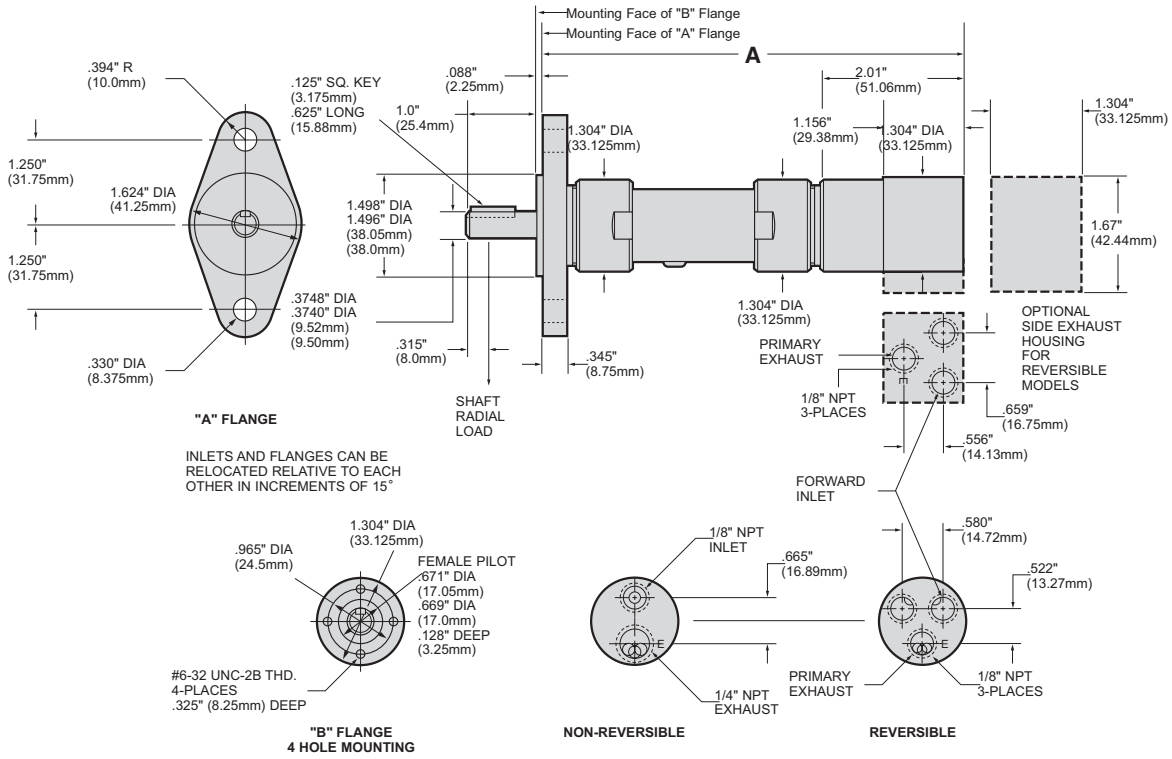


MODEL			
M002RVR013AR3	570	1140	1710
M002RVR021AR3	360	720	1080
M002RVR028AR3	270	540	810
M002RVR044AR3	170	340	510



MODEL			
M002RVR101AR3	70	140	210
M002RVR159AR3	45	90	135

SERIES M002 MULTI–VANE AIR MOTORS
DIMENSIONS



SERIES M002 MODEL NUMBER SYMBOLIZATION

M	002	RV	R	028	A	R3
Motor	HP	Rotation	Air Inlet & Exhaust	Gear Ratio	Flange	Shaft

HP = Approximate horsepower range (.11 to .25)

Rotation = RV Reversible
RH Non-Reversible, Right Hand from Rear of Motor (CCW facing shaft)
LH Non-Reversible, Left Hand from Rear of Motor (CW facing shaft)

Air Inlet & Exhaust = R Rear, S Side (Side Inlet and Exhaust available on Reversible Models only)

Gear Ratio = 028 is 1 to 28, 044 is 1 to 44, etc.

Flange = A 2 Hole Flange, B 4 Hole Face Mounting

Shaft = R3 3/8″ Round Keyed
T3 3/8″-24 UNF-2A Threaded
Threaded Shaft Extension is 1″ (25.4 mm) with
Threaded Length from Shaft End of .87″ (22 mm)
Threaded Shaft Pilot at End is .315″ (8 mm)
Dia. Max. by .374″ (9.5 mm) Long
S3 3/8″ Square Drive
Square Shaft Extension is 1.791″ (45.5 mm)

DIMENSIONS

Gear Ratios (Refer to Model No.)	A	
	in	mm
000, 004, 008	4.989	126.73
006, 013, 021, 028, 044	5.510	139.93
101, 159	6.020	152.91

EQUIPMENT OPTIONS

Furnished with Cataloged Models	Standard Options	Extra Options
2 Hole Flange Mounting	4 Hole Face Mounting	R1440-212-1 3⁄8″ Square Drive Adapter, 1″ long with 3⁄8″-24 Female threads for use with Threaded Shaft Required for 3⁄8″ Adapter (2) 4UA9-561 set screws (1) 8U-722 Bail
3⁄8″ Round Keyed Shaft	3⁄8″-24 Threaded Shaft	
	Side Inlet and Exhaust Housing (for Reversible Models only)	

Note: On all Series M002, M004, and M007 Air Motors, performance is the same for both directions of rotation. On Non-Reversible models, direction of rotation may be easily changed without the need of additional parts by inverting cylinder.