

FEATURES

- 100% Explosion-proof
- Stalling Safety
- Stepless Speed Control
- Never Burn Out
- Self-Sealing & Cool Running
- Smooth Start
- Mounting Flexibility
- All Plane Operation
- Toleration of Environment

Air Motors can easily operate under conditions which are unfavourable for electric, hydraulic, stepper and servo motors.

APPLICATIONS

- Hoists / Winches
- Hose Reels
- Turntables
- Conveyor Drives
- Mixing Equipment
- Pump Drives
- Automation Devices
- Choppers / Grinders
- Food / Pharmacy Packaging

Vane Air Motors are all reversible  & available in 8 vanes 
Dual-Shaft , Diverse Gear Reductions  & Brakes  Available



Specifications

Series	Gear Ratio	Performance at Maximum Speed							Max. Torque		
		Power		Torque		Speed	Air Consumption		Speed	Torque	
		HP	kW	N-m	lb-in	RPM	l/min	CFM	RPM	N-m	lb-in
V1	1:1	0.45	0.33	0.31	2.75	10000	580	20.5	650	0.65	5.75
	15:1	0.38	0.28	4.07	36	666	590	21	30	8.15	72
VA1	1:1	0.50	0.37	0.60	5.31	6000	760	27	500	0.68	6.01
	15:1	0.46	0.23	8.13	72	400	590	21	30	8.02	71
V2	1:1	0.93	0.69	2.20	19.5	3000	850	30	350	3.05	27
V4	1:1	1.71	1.3	4.10	36.29	3000	2200	78	300	6.3	56
	10:1	1.3	0.94	31	274	300	1620	57	30	48	425
	15:1	1.27	0.90	45.2	400	200	1700	60	20	72.3	640
	20:1	1.17	0.87	55.0	487	150	2010	71	15	84	740
	40:1	0.95	0.71	90	800	75	2010	71	7	142	1255
	60:1	0.83	0.61	117.5	1040	50	2010	71	5	185.3	1640
V6	1:1	4	3	10	88.5	3000	3620	128	300	13	115
	10:1	3.43	2.54	81	720	300	3680	130	30	107	950
	20:1	2.65	1.98	124	1100	150	3680	130	15	175	1550
	40:1	2.1	1.57	195	1725	75	3820	135	8	283	2500
V8	1:1	5.25	3.9	15	132	2500	4955	175	300	21	185
	20:1	3.7	2.76	209	1850	125	5010	177	15	288	2550
V16	1:1	9.5	7.08	34	300	2000	7787	275	300	43	380
	20:1	6.5	4.85	472	4177	100	7787	275	15	585	5177

Working Fluid: Compressed Air Operating Pressure: 6 kg/cm² Max. Operating Pressure: 7 kg/cm² Ambient Temperature: -10 ~ +120°C

Air Motors are designed to operate by compressed air and to be used with filter, regulator and lubricator to improve performance and provide longer life. Users should be responsible for determining suitability of the product for intended use and assuming all risk and liability whatsoever in connection therewith.

Specifications are subject to change without notice. **TONSON**

PNEUMATIC POWER TECHNOLOGY **TONSON** Vane Air Motors

Model	V1-F	V1-L
Mounting	Face	Foot
Performance at Maximum Speed		
Power (HP / kW)	0.45 / 0.33	
Torque (N·m / lb·in)	0.31 / 2.75	
Speed (RPM)	10000	
Air Consumption (l/min / CFM)	580 / 20.5	
Mass (lb / kg)	0.8 / 1.76	0.9 / 1.98
Performance at Maximum Torque		
Torque (N·m / lb·in)	0.65 / 5.75	
Speed (RPM)	650	

V1



V1-F



V1-L



With Reducer/Face Mount With Reducer/Foot Mount



V1A

Model	VA1-F	VA1-L
Mounting	Face	Foot
Performance at Maximum Speed		
Power (HP / kW)	0.50 / 0.37	
Torque (N·m / lb·in)	0.60 / 5.31	
Speed (RPM)	6000	
Air Consumption (l/min / CFM)	760 / 27	
Mass (lb / kg)	1 / 2.2	1.1 / 2.42
Performance at Maximum Torque		
Torque (N·m / lb·in)	6.01 / 0.68	
Speed (RPM)	760	



VA1-F



VA1-L



With Reducer/Face Mount With Reducer/Foot Mount



Model	V2-F	V2-L	V2-B	V2-N	V2-I
Mounting	Face	Foot	Butterfly	NEMA 56C	IEC #72 D71, D71C
Performance at Maximum Speed					
Power (HP / kW)	0.93 / 0.69				
Torque (N·m / lb·in)	2.20 / 19.5				
Speed (RPM)	3000				
Air Consumption (l/min / CFM)	850 / 30				
Mass (kg / lb)	2.2 / 6.38	3.3 / 7.26	3 / 6.6	3.8 / 8.36	4.3 / 9.5, 4 / 8.8
Performance at Maximum Torque					
Torque (N·m / lb·in)	3 / 26.55				
Speed (RPM)	350				

V2



V2-F



V2-L



V2-B



V2-N



V2-I

V4

Model	V4-F	V4-L	V4-B	V4-N	V4-I
Mounting	Face	Foot	Butterfly	NEMA 56C	IEC #72 D71
Performance at Maximum Speed					
Power (HP / kW)	1.71 / 1.3				
Torque (N·m / lb·in)	4.10 / 36.29				
Speed (RPM)	3000				
Air Consumption (l/min / CFM)	2200 / 78				
Mass (kg / lb)	3.9 / 8.58	4.3 / 9.46	4.1 / 9.02	5.1 / 11.22	5.3 / 11.66
Performance at Maximum Torque					
Torque (N·m / lb·in)	6.3 / 56				
Speed (RPM)	300				



V4-F



V4-L



V4-B



V4-N



V4-I

V6



V6-F



V6-L



V6-N



V6-I

V8



V8-F



V8-L



V8-N



V8-I

Model	V6-F	V6-L	V6-N	V6-I
Mounting	Face	Foot	NEMA 56C	IEC #72 D80
Performance at Maximum Speed				
Power (HP/kW)	4 / 3			
Torque (N·m / lb·in)	10 / 88.5			
Speed (RPM)	3000			
Air Consumption (l/min / CFM)	3600 / 128			
Mass (kg / lb)	7.6 / 16.72	7.9 / 17.38	8.4 / 18.48	8.8 / 19.36
Performance at Maximum Torque				
Torque (N·m / lb·in)	115 / 13			
Speed (RPM)	300			

Model	V8-F	V8-L	V8-N	V8-I
Mounting	Face	Foot	NEMA 145TC	IEC #72 D90
Performance at Maximum Speed				
Power (HP/kW)	5.25 / 3.90			
Torque (N·m / lb·in)	15 / 132			
Speed (RPM)	3000			
Air Consumption (l/min / CFM)	4955 / 175			
Mass (kg / lb)	10.4 / 22.9	11 / 24.2	12 / 26.4	13 / 28.6
Performance at Maximum Torque				
Torque (N·m / lb·in)	21 / 185			
Speed (RPM)	300			

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Realizing Clever Conceptions

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