

Pneumatik Radialkolbenmotoren

**Greater Power - Power Transmission Safety
in Hazardous Environments**

FEATURES

- High Start Torque • Instantly Reversible • Stalling Safety • Positive Start • Rugged Design
- Intrinsically safe in hazardous environment (ex. Mines, petrochemical, volatile atmosphere)
- Mounting Flexibility: Flange / Foot / Hub / IEC / NEMA / Custom Mounting Available
- Modular Design: All motors may be equipped with gear reducer, brake, hand, remote, pendant control as options.

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

APPLICATIONS

- Hoist / Winches
- Pump Drives
- Lifting Device
- Choppers / Grinders
- Mixing Equipment
- Mining Equipment



Series	Maximum Output							Max Speed RPM	Mass kg lb	
	Power		Speed RPM	Torque		Air Consumption				
	kw	hp		Nm	ft-lb	l/min	CFM			
M13S	1.36	1.82	2000	6.5	4.8	1680	59	2400	14	31
M14	2.8	3.7	1950	14	10.3	4680	165	2400	26	57.2
M15	6.2	8.3	1800	33	24.3	7925	280	2400	48	105.6
M16	10.8	14.5	1600	65	48	12000	424	2000	62	136.4
M17	16.2	21.7	1100	140	103.3	19810	700	1500	125	275
M18	23.2	31.2	1500	150	110.6	25500	900	2000	125	275

Working Fluid: Compressed Air Operating Pressure : 6 kg/cm² Max. Operating Pressure: 7 kg/cm² Ambient Temperature: -10 ~ +120°C
Power & Torque values given above are based on Operating Pressure of 6.1 Bar, peak power might be higher, refer to Curves for all specs
 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.

Ordering Code

M16 - F B G5 RCV

Motor	Mounting	Brake Option	Reducer Option	Valve Option
M14	F = Flange	Blank = No Brake	Blank = No Reducer	Blank = No Valve
M15	L = Foot	B = Brake	G3 - 1/5 G30 - 1/30	HCV = Hand Control Valve
M16	I = IEC		G5 - 1/5 G40 - 1/40	RCV = Remote Control Valve
M17	N = NEMA		G10 - 1/10 G60 - 1/60	
M18			G15 - 1/15 G80 - 1/80	
			G20 - 1/20 G100 - 1/100	

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AIR GEARMOTORS

For applications where precise and variable turning power and speed is a requirement. Examples are bolt tensioning equipment or rock drilling rigs, precise lifting, lowering, traversing or turning. Unlike electric gearmotors, no chance of burn-out nor heat buildup with TONSON Air Motors. Direction of rotation is instantly reversible.



M16LG

BRAKES

For applications where positive braking is a requirement, a range of caliper brakes is offered. These are designed to withstand full stall torque of the air motor. The brake consists of two spring applied shoes pressed against a central hub. The shoes are released by applying air pressure to the cylinder/piston assembly. The brake torque can be varied by adjustment of two spring adjusters but it is normally set so that a pilot pressure of 4 bar (60 PSI) will fully release it.



M14-IBRC

Valve Options (1/2", 3/4", 1", 1 1/4", 1 1/2", 2")

A range of bolt on Hand Control Valves and Remote Control Valves are available for use on all TONSON Piston Air Motors. Designed to completely eliminate all static friction, thereby reducing hysteresis effect and offering a very high degree of sensitive speed control. Suitable for applications where forward and reverse hand control is required, with spring centre to neutral position by a lever mechanism or controlled by air pilot signal.

Two control styles are manufactured:

- i) Equal power and speed in both directions
- ii) Biased to give a degree of control for hoisting applications.



Hand Control Valve



Remote Control Valve

One pilot port, 1/4" on each end. Caps may be positioned with port at top, bottom or either side. The pilot pressure range is between 1.4 bar (20 psi) and 4.8 bar (70 psi), increased pilot pressure gives increased speed



M18-IHCV