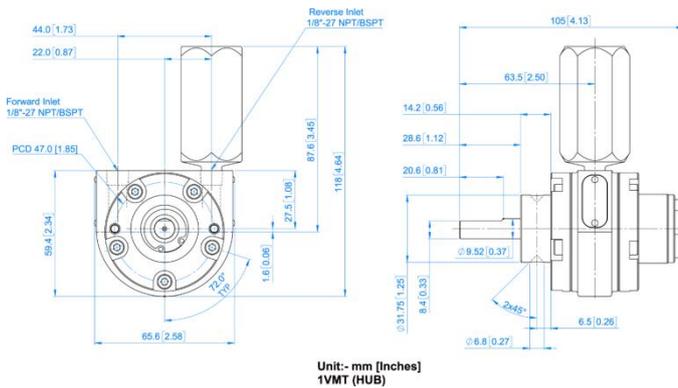


# TECHNICAL DATA

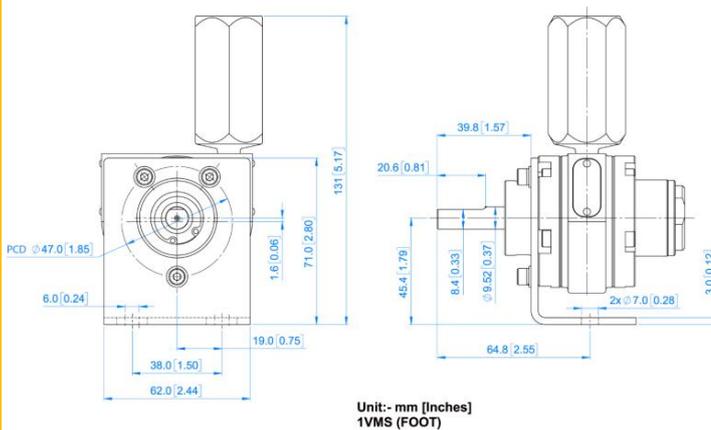
RELEASED: 11/04/2025  
 REVISED:01  
 REV:01

## 1VM Ex PNEUMATIC VANE MOTOR

### DIMENSIONAL DATA - HUB MOUNTING 1VM



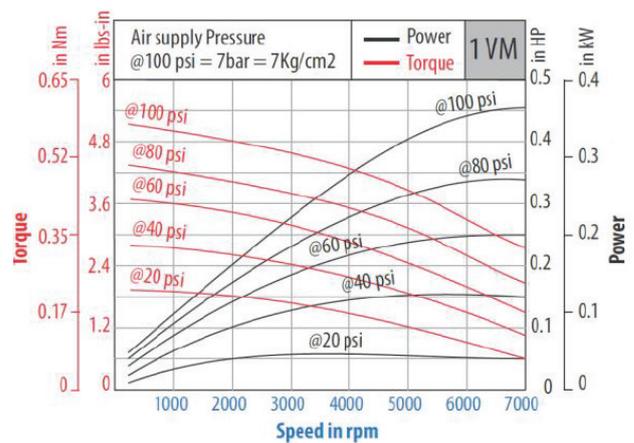
### DIMENSIONAL DATA - FOOT MOUNTING 1VM



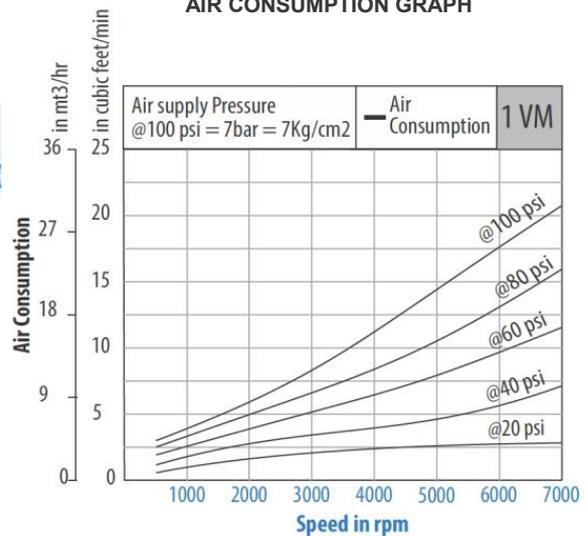
### PERFORMANCE DATA

Max Output Power	0.33kW (0.45hp)
Speed at Max Power	10000 RPM
Maximum Torque	0.65Nm (5.75lb-In)
Air Consumption at Max Power	35.1m3/hr (20.5cfm)
Ambient Safe Operating Temperature	
• Non Explosive Zone	0°C to 120°C
• Explosive Zone	0°C to 40°C
Maximum Allowable Operating Speed In any Direction	10000 RPM
Working Pressure	7kg/cm <sup>2</sup> (100 psi)

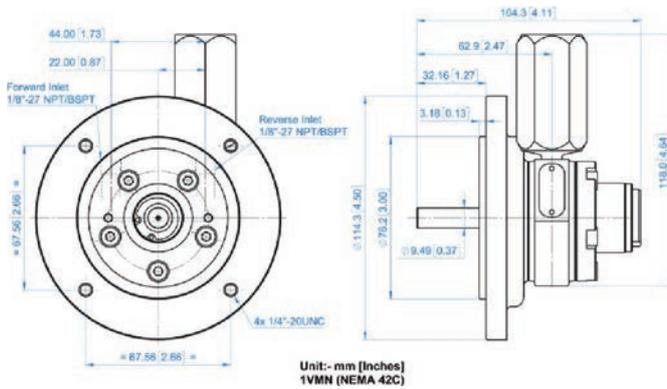
### POWER & TORQUE GRAPH



### AIR CONSUMPTION GRAPH



**DIMENSIONAL DATA - NEMA FLANGE MOUNTING 1VM**



**WEIGHTS & FINISH**

Air Motor Type	Weight	Finish
Hub Mounting	1.0 kgs (2.2 lbs)	Silver
Foot Mounting	1.1 kgs (2.1 lbs)	Silver
Nema Mounting	1.7 kgs (3.7 lbs)	Silver

**AIR MOTOR NOMENCLATURE**

Size	Motor Type	Mounting	Lubricated or Lube-Free	Material of Construction	Explosion Proof	Threading on Inlet and Outlet	Direction of Rotation	No of Vanes
1	VM- Vane Type	L- Face Type	A- Lubricated O - Lube Free	L - SG Iron S - SS A - Aluminum	EX	R- NPT G - BSPT P - BSPP	C - Clockwise A - Anticlockwise R - Reversible	4 6 8
2		S- Foot Type						
4		T - Hub						
6		D - IEC Flange Type						
8		N - NEMA Flange Type						
16								

**MODEL NUMBERS**

1VMT ALEX RR4
1VMS ALEX RR4
1VMN ALEX RR4
1VMT ALEX GR4
1VMS ALEX GR4
1VMN ALEX GR4



II 2GD Ex h IIC T6 Gb  
II 2GD Ex h IIIC T85° C Db