



Technical Data

1VM ATEX Pneumatic Vane Motor

RELEASED: 25/06/2025
REVISED: 27/06/2026
REV: 04



Foot



Hub



NEMA



Foot with Aluminium
end plates

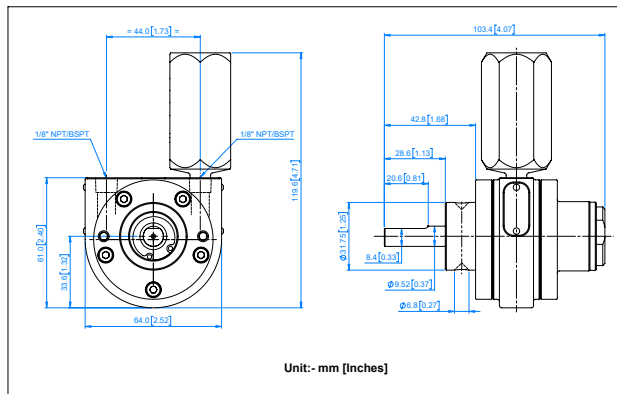


Hub with
Aluminium end plate



NEMA with
Aluminium end plate

Dimensional Data - Hub Mounting-1VM

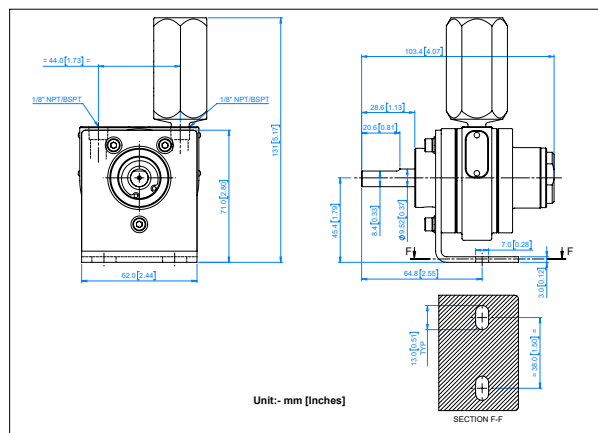


Performance

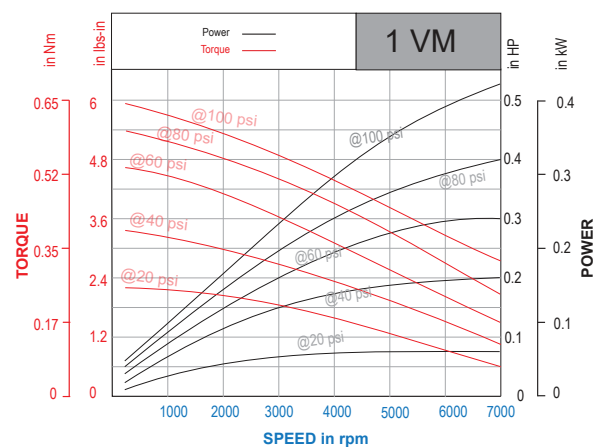
Max. output power	0.33kW (0.45hp)
Speed at max power	7000 RPM
Maximum torque	0.65Nm (5.75lb-In)
Air consumption at max. power	35.1m ³ /hr (20.5cfm)
Ambient safe operating temperature	
• Non explosive zone	0°C to 120°C
• Explosive zone	Up to 40°C
Max. allowable operating speed in any direction	7000 RPM
Working pressure	7kg/cm ² (100 psi)

Note: These performance figures apply to a 4 vane model with an unrestricted exhaust.

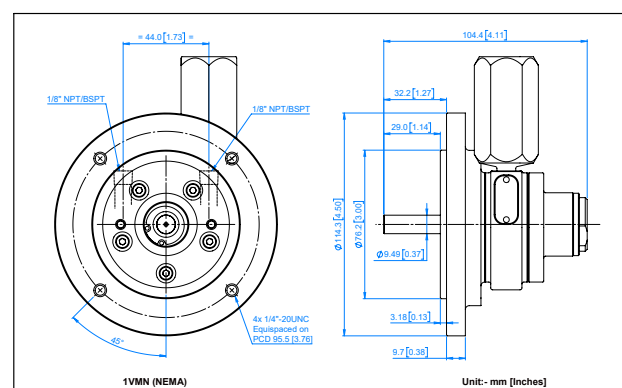
Dimensional Data - Foot Mounting-1VM



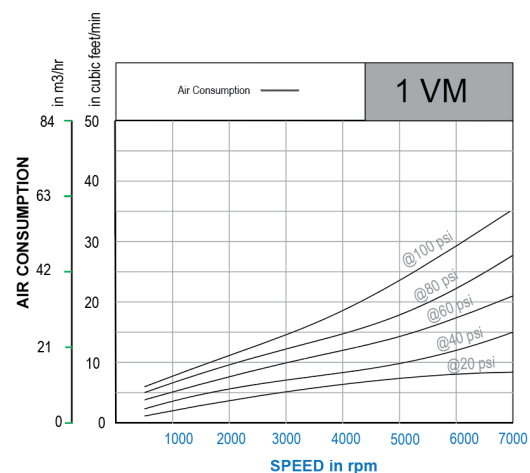
Power & Torque Graph



Dimensional Data - NEMA Mounting-1VM



Air Consumption Graph



Weight & Finish

Air Motor Type	Weight	Finish
Foot mounting	1.1 kg (2.1 lbs)	Silver
Nema mounting	1.7 kg (3.7 lbs)	
Hub mounting	1.0 kg (2.2 lbs)	
Foot mounting with aluminium flanges	0.9 kg (2.0 lbs)	Silver+Black End plates
NEMA mounting with aluminium flanges	1.5 kg (3.3 lbs)	
Hub mounting with aluminium flanges	0.8 kg (1.7 lbs)	

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 Motor	L- Face type	O - Lube Free	L - SG Iron	EX	R- NPT	C - Clockwise	4
2		S- Foot type		S - Stainless Steel		G - BSPT	A - Anticlockwise	6
4		T - Hub		H - SGI Housing with Aluminum End Plates		P - BSPP	R - Reversible	8
6		D - IEC Flange type						
8		N - NEMA Flange type						
16								

For example

- 4VMLOLEXRR4 is a size 4, Vane type, Face Mounted, SG Iron MOC. Explosion Proof, NPT Threading, Reversible with 4 Vanes
- 4VMLOLEXGR8 is a Size 4, Vane type, Face Mounted, SG Iron MOC, Explosion Proof, BSPT Threading, Reversible with 8 Vanes
- 1VMTOLEXRA4 is a Size 1, Vane type, Hub Mounted, SG Iron MOC, Explosion Proof, NPT Threading, Anti-clockwise with 4 Vanes
- 2VMTOHEXRR4 is a Size 2, Vane type, Hub Mounted, SG Iron Hsg. with Aluminium End Plates, Explosion Proof, NPT Threading, reversible with 4 Vanes

ATEX Code

Model : 1VM Series, 2VM Series,
4VM Series, 6VM Series.

Ex II 2 GD Ex h IIC T6 Gb

Ex II 2 GD Ex h IIIC T850C Db

Model : 8VM Series, and 16VM Series

Ex II 2GD Ex h IIC T4 Gb

Ex II 2GD Ex h IIIC T1350C Db

Amb. Temp (up to +40° C)

Muffler for 1VM Series

Part No	Description	Thread Connection	Motor Size
8119801	Muffler NPT	1/8" NPT	1VM
8119802	Muffler BSPT	1/8" BSPT	1VM

Muffler is included in standard packing for 1VM motors

