



Technical Data

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

2VM ATEX Pneumatic Vane Motor



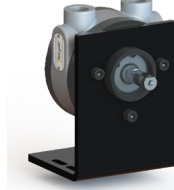
Foot



Hub



IEC / NEMA



Foot with Aluminium
end plates

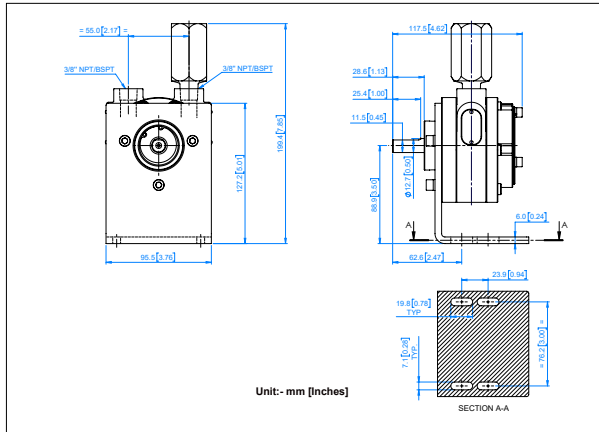


Hub with
Aluminium end plate

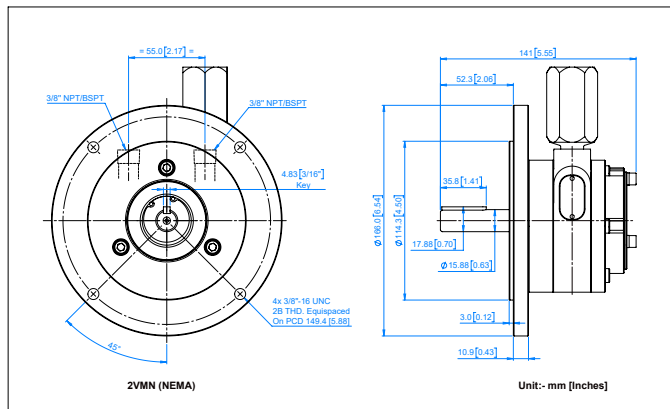


IEC/NEMA with
Aluminium end plate

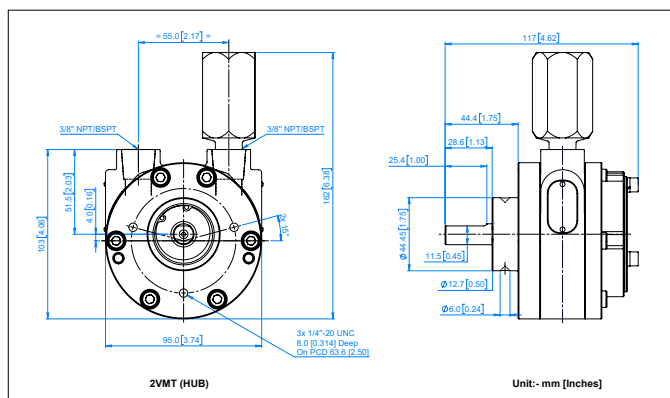
Dimensional Data - Foot Mounting-2VM



Dimensional Data - NEMA Mounting-2VM



Dimensional Data - Hub Mounting-2VM

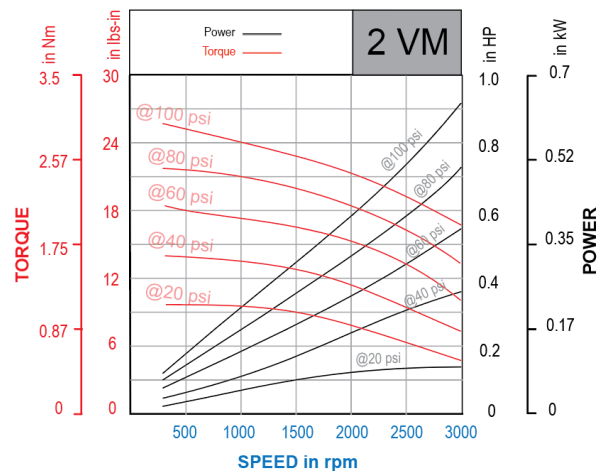


Performance

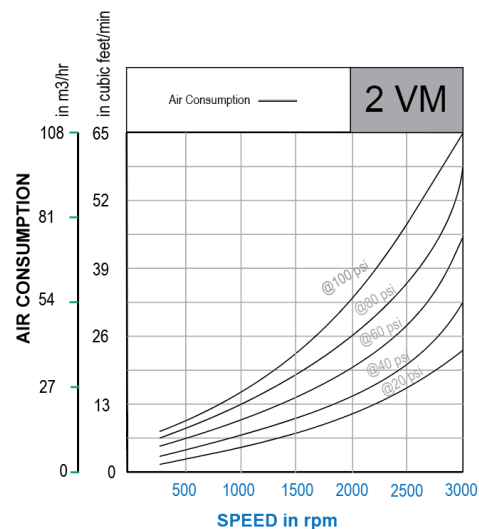
Max output power	0.68kW (0.91hp)
Speed at max power	3000 RPM
Maximum torque	3.05Nm (26.99lb-in)
Air consumption at max. power	49.5m ³ /hr (30cfm)
Ambient Safe Operating Temperature	
• Non explosive zone	0°C to 120°C
• Explosive zone	Up to 40°C
Max. allowable operating speed in any direction	3000 RPM
Working pressure	7kg/cm ² (100 psi)

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

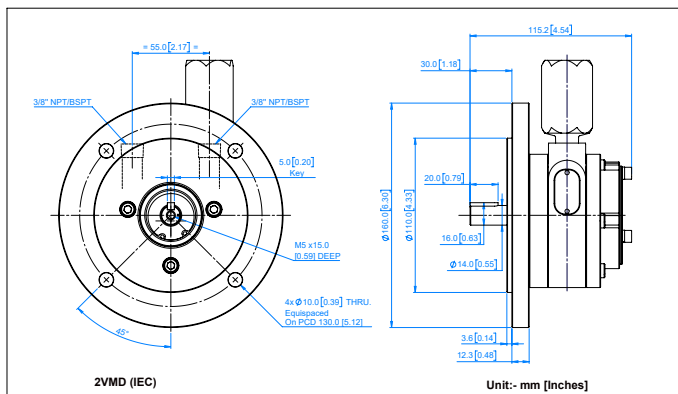
Power & Torque Graph



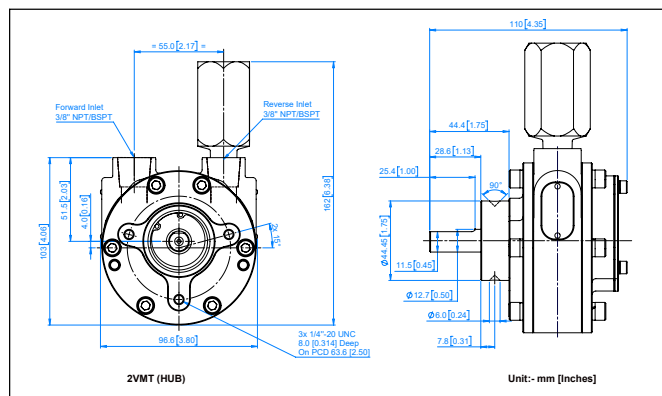
Air Consumption Graph



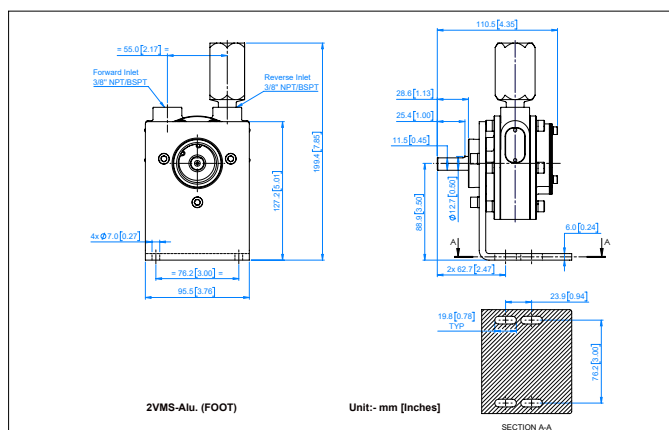
Dimensional Data - IEC Mounting-2VM



Dimensional Data - Hub Mounting with Aluminium End Plates-2VM



Dimensional Data - Foot Mounting with Aluminium End Plates-2VM



Weight & Finish

Air Motor Type	Weight	Finish
Hub mounting	3.1 kg (6.8 lbs)	Silver
Foot mounting	4.1 kg (7.0 lbs)	
IEC mounting	4.6 kg (10.1 lbs)	
NEMA mounting	4.6 kg (10.1 lbs)	
Hub mounting with aluminium end plates	2.3 Kg (5.0 Lbs)	Silver+Black End plates
Foot mounting with aluminium end plates	3.1 Kg (6.8 Lbs)	
IEC mounting with aluminium end plates	2.99 Kg (6.6 Lbs)	
Nema mounting with aluminium end plates	3.07 Kg (6.8 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

- 4VMOLEXRR4 is a size 4, Vane type, Face Mounted, SG Iron MOC. Explosion Proof, NPT Threading, Reversible with 4 Vanes
- 4VMOLEXGR8 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
- 2VMTOHXRR4 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 2VM Series

Part No	Description	Thread Connection	Motor Size
8039803	Muffler NPT	3/8" NPT	2VM
8039804	Muffler BSPT	3/8" BSPT	2VM



Muffler is included in standard packing for 2VM motors