



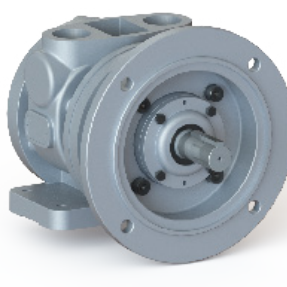
Technical Data

16VM ATEX Pneumatic Vane Motor

RELEASED: 25/06/2025
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REV: 03

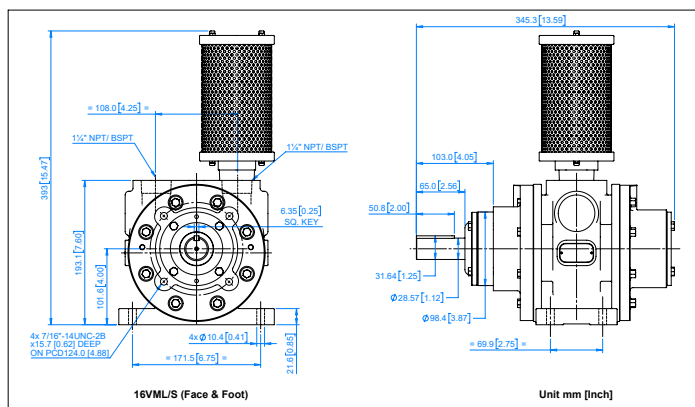


Foot / Face

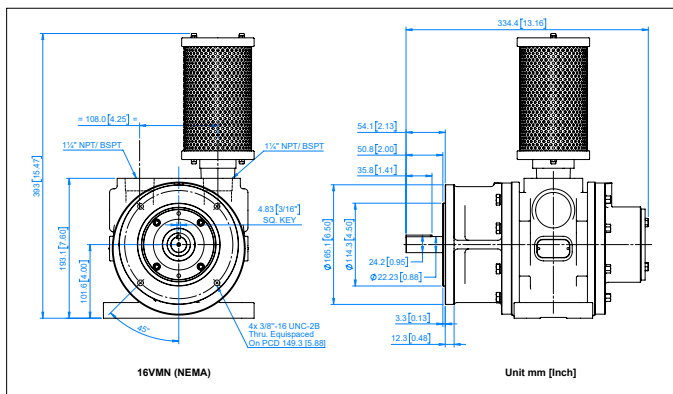


IEC / NEMA

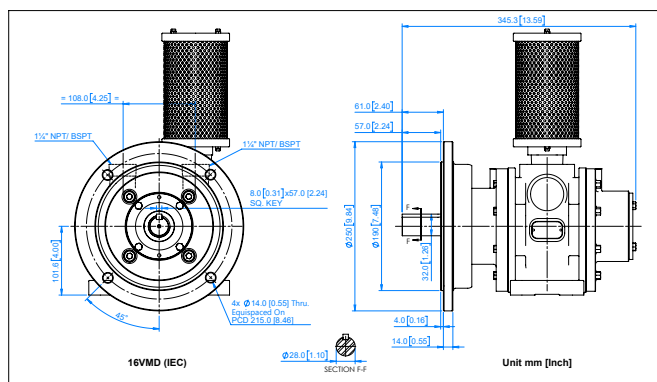
Dimensional Data - Face & Foot Mounting-16VM



Dimensional Data - NEMA Mounting-16VM



Dimensional Data - IEC Mounting-16VM

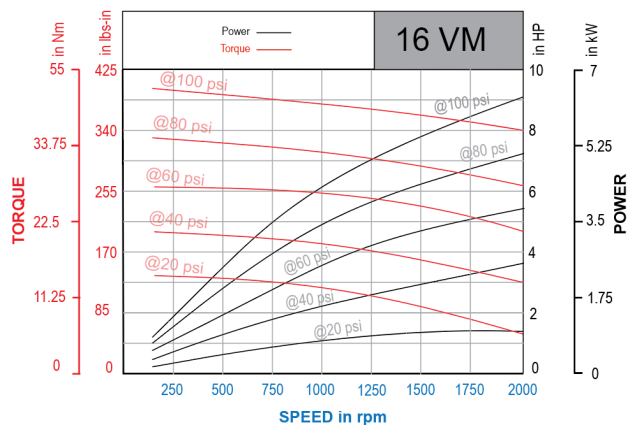


Performance

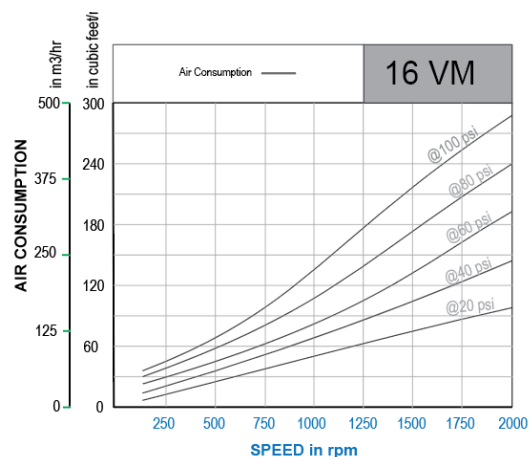
Max. output power	7.1kW (9.5hp)
Speed at max power	2000 RPM
Maximum torque	43Nm (380lb-in)
Air consumption at max. power	475m ³ /hr (275cfm)
Ambient safe operating temperature	0°C to 120°C
• Non explosive zone	Up to 40°C
• Explosive zone	
Max. allowable operating speed in any direction	2000 RPM
Working 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



Weight & Finish

Air Motor Type	Weight	Finish
Face mounting	36.1 kg (79.6 lbs)	Silver
Foot mount	36.1 kg (79.6 lbs)	Silver
IEC mounting	41.5 kg (91.5 lbs)	Silver
NEMA mount	36.5 kg (80.4 lbs)	Silver

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

- 4VMLEXRR4 is a size 4, Vane type, Face Mounted, SG Iron MOC, Explosion Proof, NPT Threading, Reversible with 4 Vanes
- 4VMLEXGR8 is a Size 4, Vane type, Face Mounted, SG Iron MOC, Explosion Proof, BSPT Threading, Reversible with 8 Vanes
- 1VMTOLXRA4 is a Size 1, Vane type, Hub Mounted, SG Iron MOC, Explosion Proof, NPT Threading, Anti-clockwise with 4 Vanes
- 2VMTOLXRR4 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 IIC T850C Db

Model : 8VM Series, and 16VM Series

Ex II 2GD Ex h IIC T4 Gb

Ex II 2GD Ex h IIC T1350C Db

Amb. Temp (up to +40° C)

Muffler for 16VM Series

Part No	Description	Thread Connection	Motor Size
8109801	Muffler NPT	1" NPT	8VM
8109802	Muffler BSPT	1" BSPT	8VM

Muffler is included in standard packing for 16VM motors

