



Technical Data

8VM ATEX Pneumatic Vane Motor

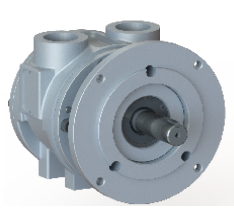
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REV: 03



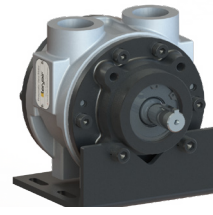
Foot



Face



IEC / NEMA



Foot with
Aluminium end plate

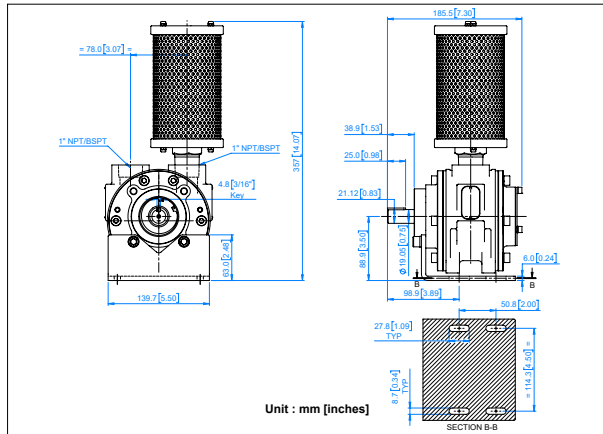


Face with Aluminium
end plates



IEC/NEMA with
Aluminium end plate

Dimensional Data - Foot Mounting-8VM

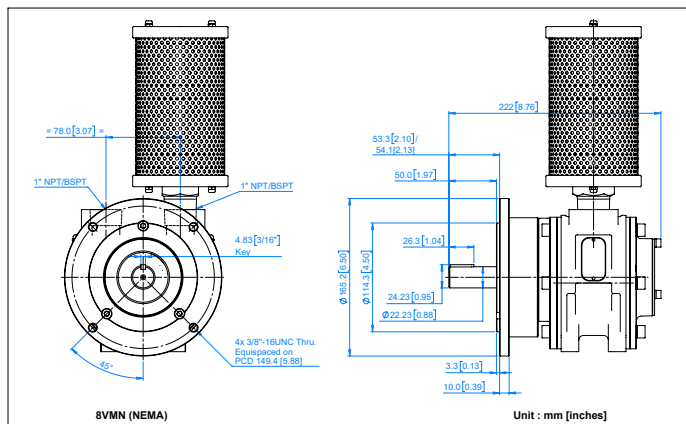


Performance

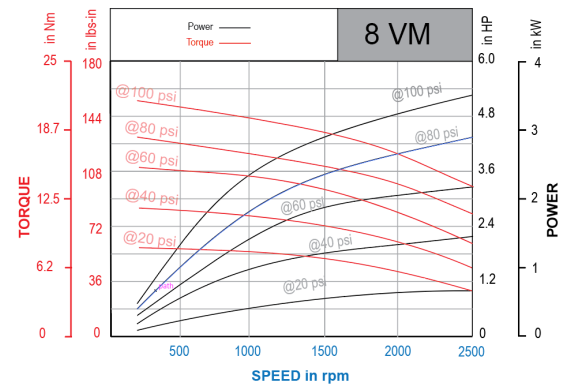
Max. output power	3.9kW (5.25hp)
Speed at max power	2500 RPM
Maximum torque	21Nm (185lb-In)
Air consumption at max. power	293m ³ /hr (175cfm)
Ambient safe operating temperature	
• Non explosive zone	0°C to 120°C
• Explosive zone	Up to 40°C
Max. allowable operating speed in any direction	2500 RPM
Working pressure	7kg/cm ² (100 psi)

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

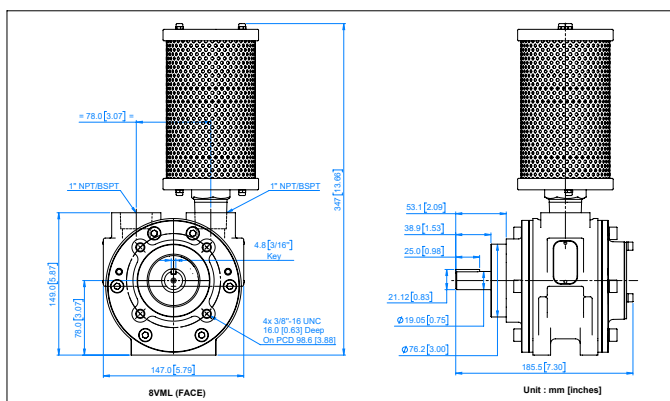
Dimensional Data - NEMA Mounting-8VM



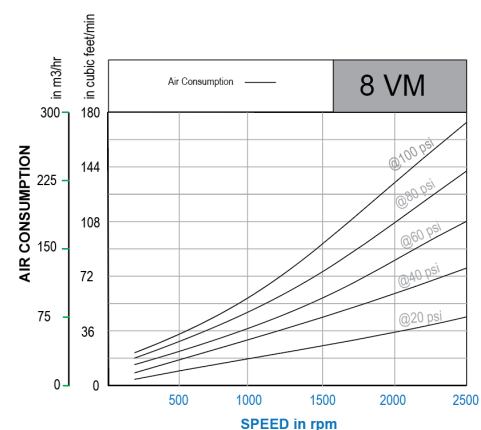
Power & Torque Graph



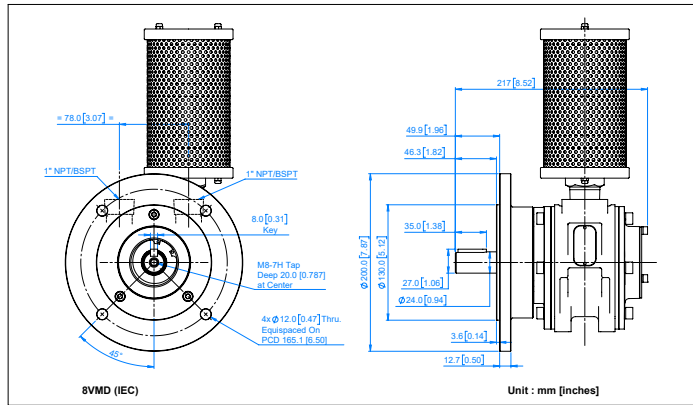
Dimensional Data - Face Mounting-8VM



Air Consumption Graph



Dimensional Data - IEC Mounting-8VM



Weight & Finish

Air Motor Type	Weight	Finish
Foot mounting	11.7 kg (25.5 lbs)	Silver
NEMA mount	14.0 kg (30.0 lbs)	
Face mounting	11.4 kg (25.0 lbs)	
IEC mount	14.0 kg (30.0 lbs)	
Foot mounting with aluminium end plates	10.2 kg (12.5 lbs)	Silver+Black End plates
NEMA mount with aluminium end plates	12.5 kg (27.5 lbs)	
Face mounting with aluminium end plates	10.0 kg (22.0lbs)	
IEC mount with aluminium end plates	12.5 kg (27.5 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 G - BSPT P - BSPP	C - Clockwise A - Anticlockwise R - Reversible	4 6 8
2		S- Foot type		S - Stainless Steel				
4		T - Hub		H - SGI Housing with Aluminum End Plates				
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
- 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 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 8VM Series

Part No	Description	Thread Connection	Motor Size
8069801	Muffler NPT	1" NPT	8VM
8069802	Muffler BSPT	1" BSPT	8VM

Muffler is included in standard packing for 8VM motors

