



Technical Data

6VM ATEX Pneumatic Vane Motor

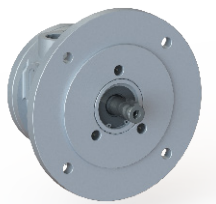
RELEASED: 25/06/2025
REVISED: 27/06/2026
REV: 03



Foot



Face



IEC / NEMA



Foot with
Aluminium end plate

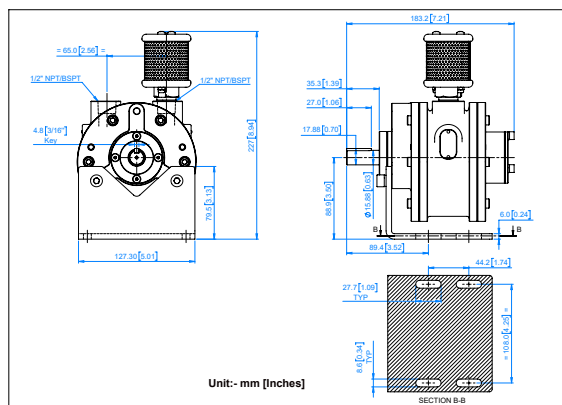


Face with Aluminium
end plates



IEC/NEMA with
Aluminium end plate

Dimensional Data - Foot Mounting-6VM

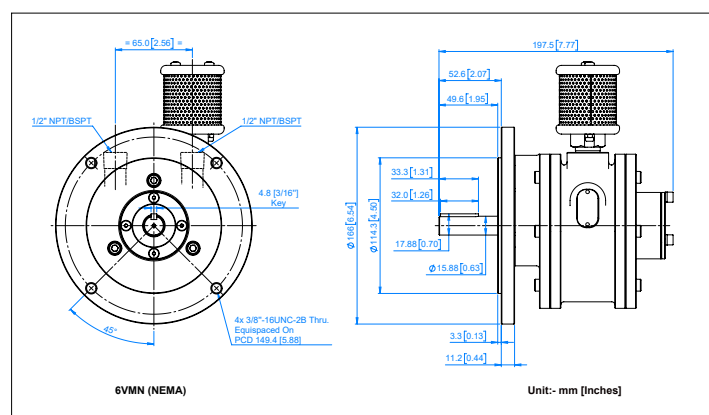


Performance

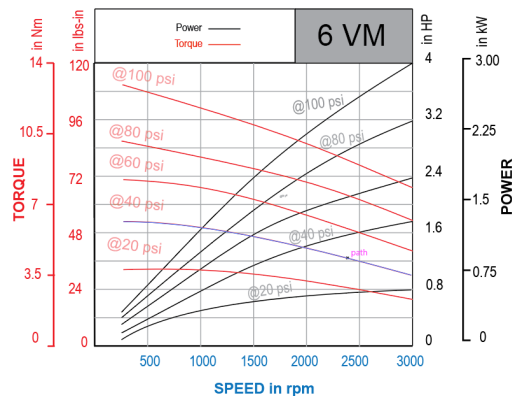
Max. output power	3kW (4hp)
Speed at max power	3000 RPM
Maximum torque	13Nm (115lb-In)
Air consumption at max. power	228m ³ /hr (134cfm)
Ambient safe operating temperature	
• Non explosive zone	0°C to 120°C
• Explosive zone	Up to 40°C
Max. allowable operating speed in any direction	3000 RPM
Working pressure	7kg/cm ² (100 psi)

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

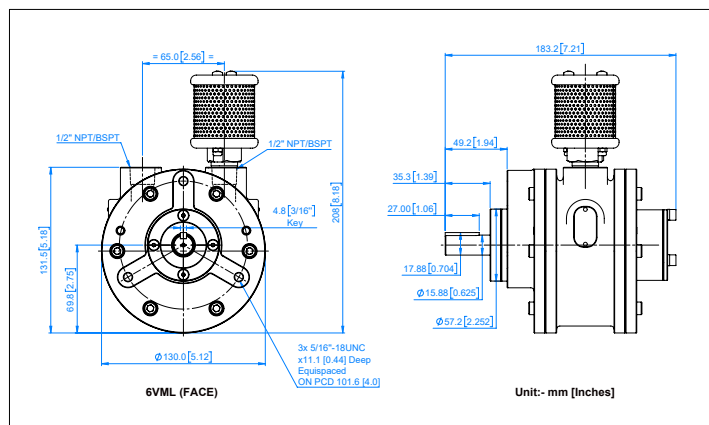
Dimensional Data - NEMA Mounting-6VM



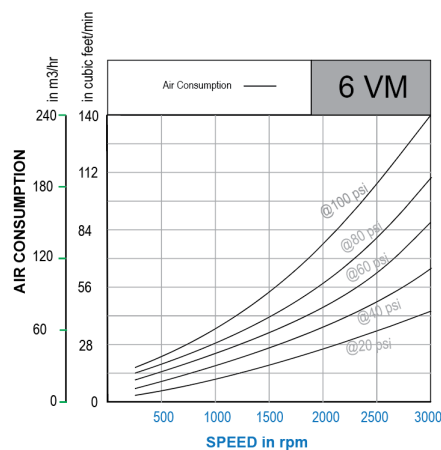
Power & Torque Graph



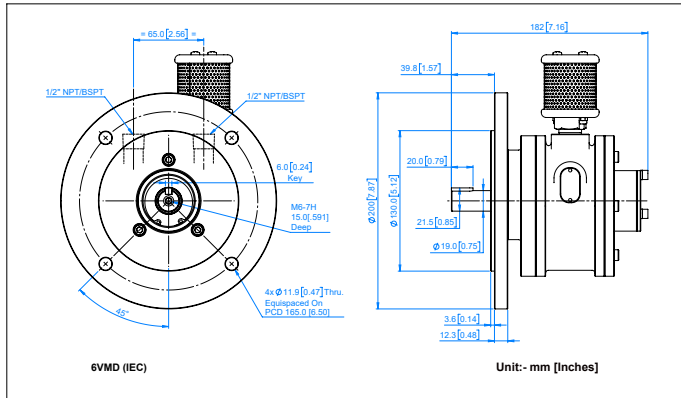
Dimensional Data - Face Mounting-6VM



Air Consumption Graph



Dimensional Data - IEC Mounting-6VM



Weight & Finish

Air Motor Type	Weight	Finish
Foot mounting	8.3 kg (20.5 lbs)	Silver
NEMA mount	8.5 kg (18.7 lbs)	
Face mounting	7.6 kg (16.7 lbs)	
IEC mount	9.5 kg (20.9 lbs)	
Foot mounting with aluminium end plates	5.9 kg (15.4 lbs)	Silver+Black End plates
NEMA mount with aluminium end plates	6.3 kg (16.3 lbs)	
Face mounting with aluminium end plates	5.4 kg (11.9 lbs)	
IEC mount with aluminium end plates	7.6 kg (19.2 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

1. 4VMLEXRR4 is a size 4, Vane type, Face Mounted, SG Iron MOC. Explosion Proof, NPT Threading, Reversible with 4 Vanes
2. 4VMLEXGR8 is a Size 4, Vane type, Face Mounted, SG Iron MOC, Explosion Proof, BSPT Threading, Reversible with 8 Vanes
3. 1VMTOLXRA4 is a Size 1, Vane type, Hub Mounted, SG Iron MOC, Explosion Proof, NPT Threading, Anti-clockwise with 4 Vanes
4. 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 6VM Series

Part No	Description	Thread Connection	Motor Size
8059801	Muffler NPT	1/2" NPT	6VM
8059802	Muffler BSPT	1/2" BSPT	6VM

Muffler is included in standard packing for 6VM motors

