



# Technical Data

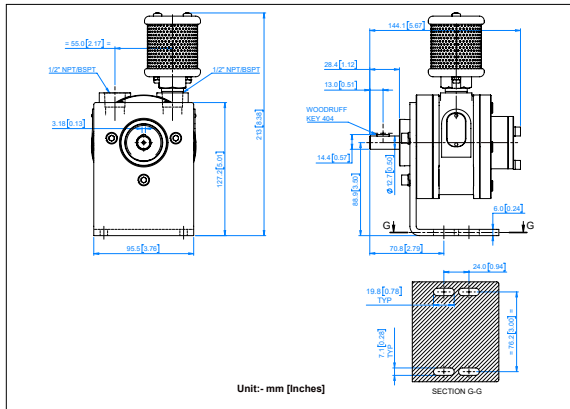
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REV: 04

## 4VM ATEX Pneumatic Vane Motor



Foot      Face      IEC / NEMA      Face with Aluminium end plates      Foot with Aluminium end plate      IEC/NEMA with Aluminium end plate

### Dimensional Data - Foot Mounting-4VM

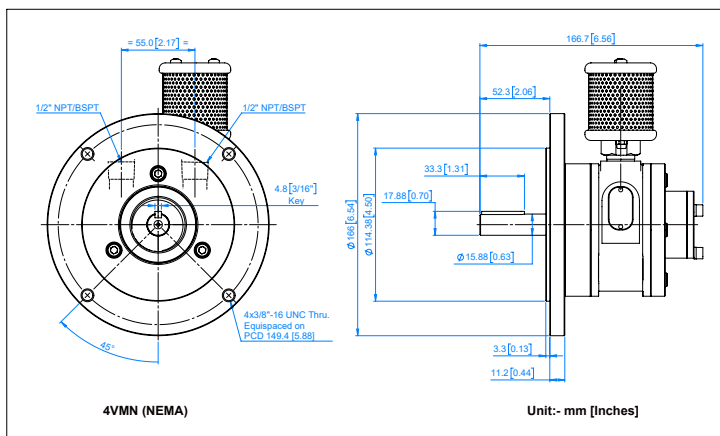


### Performance

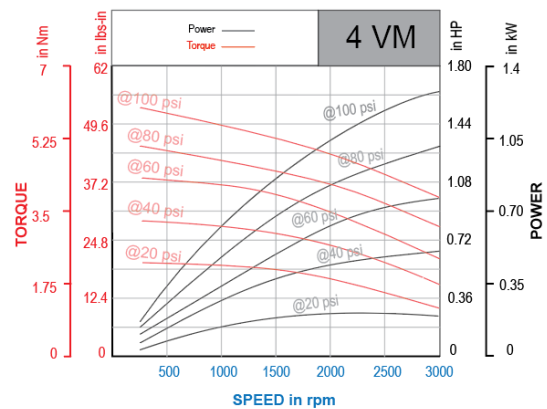
|                                                 |                                 |
|-------------------------------------------------|---------------------------------|
| Max. output power                               | 1.3kW (1.7hp)                   |
| Speed at max power                              | 3000 RPM                        |
| Maximum torque                                  | 6.3Nm (56lb-In)                 |
| Air consumption at max. power                   | 132.5m <sup>3</sup> /hr (78cfm) |
| 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 <sup>2</sup> (100 psi)   |

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

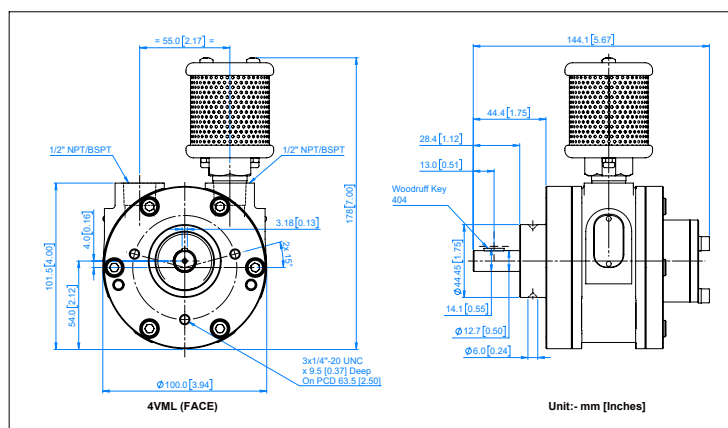
### Dimensional Data - NEMA Mounting-4VM



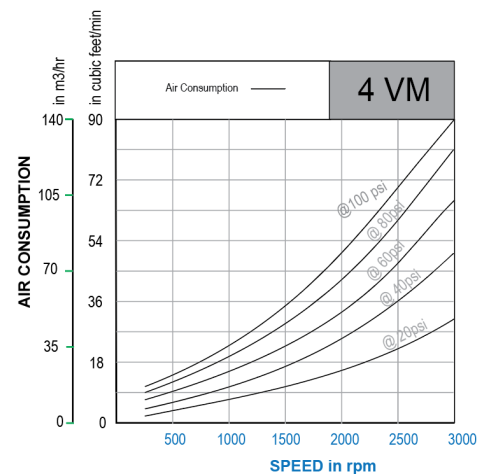
### Power & Torque Graph



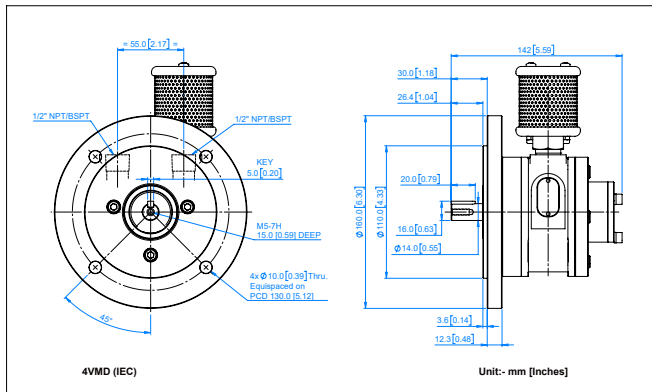
### Dimensional Data - Face Mounting-4VM



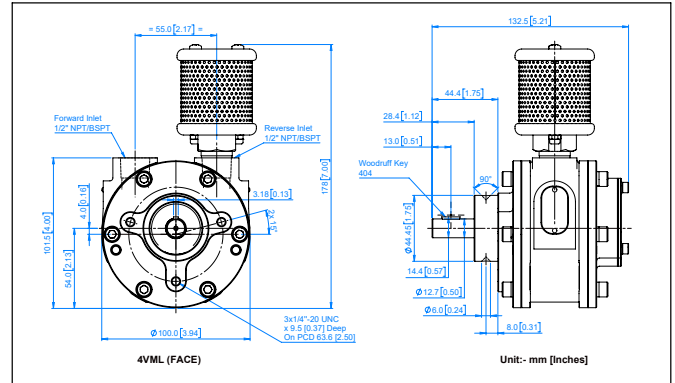
### Air Consumption Graph



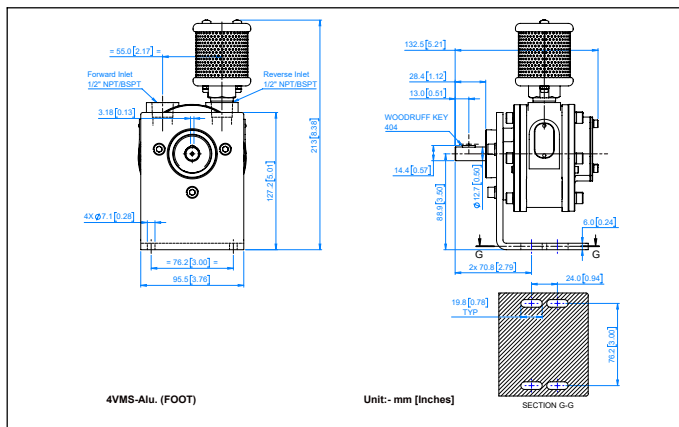
## Dimensional Data - IEC Mounting-4VM



## Dimensional Data - Face Mounting with Aluminium End Plates-4VM



## Dimensional Data - Foot Mounting with Aluminium End Plates-4VM



## Weight & Finish

| Air Motor Type                          | Weight            | Finish                  |
|-----------------------------------------|-------------------|-------------------------|
| Foot mounting                           | 4.8 kg (10.6 lbs) | Silver                  |
| NEMA mount                              | 6.1kg (13.4 lbs)  |                         |
| Face mounting                           | 4.0kg (8.8 lbs)   |                         |
| IEC mount                               | 6.0 kg (13.2 lbs) |                         |
| Foot Mounting with aluminium end plates | 3.9 kg (8.6 lbs)  | Silver+Black End plates |
| NEMA mount with aluminium end plates    | 5.2 kg (11.4 lbs) |                         |
| Face mounting with aluminium end plates | 3.1 kg (6.8lbs)   |                         |
| IEC mount with aluminium end plates     | 5.1 kg (11.2lbs)  |                         |

## 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. 4VMLOLEXRR4 is a size 4, Vane type, Face Mounted, SG Iron MOC. Explosion Proof, NPT Threading, Reversible with 4 Vanes
2. 4VMLOLEXGR8 is a Size 4, Vane type, Face Mounted, SG Iron MOC, Explosion Proof, BSPT Threading, Reversible with 8 Vanes
3. 1VMTOLEXRA4 is a Size 1, Vane type, Hub Mounted, SG Iron MOC, Explosion Proof, NPT Threading, Anti-clockwise with 4 Vanes
4. 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 4VM Series

| Part No | Description  | Thread Connection | Motor Size |
|---------|--------------|-------------------|------------|
| 8059801 | Muffler NPT  | 1/2" NPT          | 4VM        |
| 8059802 | Muffler BSPT | 1/2" BSPT         | 4VM        |

Muffler is included in standard packing for 4VM motors

