

## GFPP PMS4 Series Spring Return Pneumatic Actuators

FOR 1/2" TO 4" BALL VALVES/  
UP TO 4" BUTTERFLY VALVES

### KEY FEATURES

- Ideal for Corrosive Atmosphere and Environments
- Corrosion-Resistant GFPP Housing
- Anodized Aluminum Two-Piston Rack and Stainless Steel Pinion
- Position Indicator
- Permanent Lubrication
- Lightweight – Easy for Installation
- Namur-Style Solenoid Mounting
- ISO 5211 Mounting Base
- Stainless Steel Fasteners
- Alternative Operating Media for 40 PSI to 120 PSI
- All Units are Marked for Traceability
- 100% Factory Tested

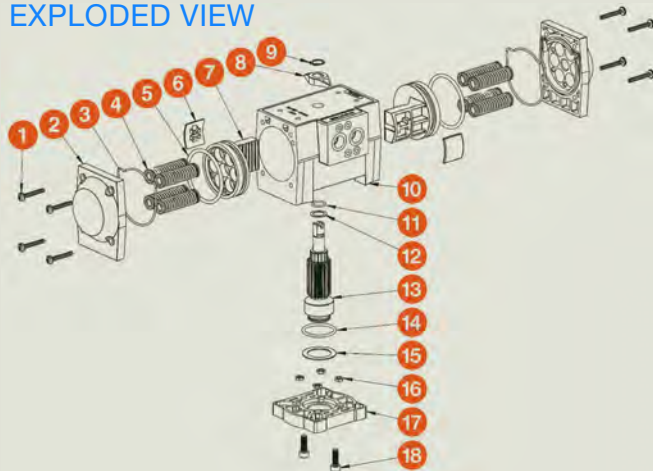
### OPTIONS

- Double Acting Air-to-Open and Close
- Solenoid Valves with Optional Voltages
- Auxiliary Limit Switch
- Cycle Speed Controls
- Environments



## TECHNICAL INFORMATION

### EXPLODED VIEW



### SPECIFICATIONS

|                             |                                      |
|-----------------------------|--------------------------------------|
| HOUSING                     | GFPP per ASTM D4101 Cell Class 85580 |
| OUTPUT SHAFT                | 03 Stainless Steel per ASTM A314     |
| SEALS                       | Nitrile                              |
| MINIMUM AIR PRESSURE        | 80 PSI                               |
| MAXIMUM AIR PRESSURE        | 120 PSI                              |
| CYCLE TIME                  | Half Second, Typical                 |
| AIR PORT CONNECTIONS        | 1/4" NPT                             |
| NAMUR MOUNTING              | VDI/VE 3845                          |
| OPERATING TEMPERATURE RANGE | -4°F to 176°F                        |

# GFPP PMS4 Series Pneumatic Actuators

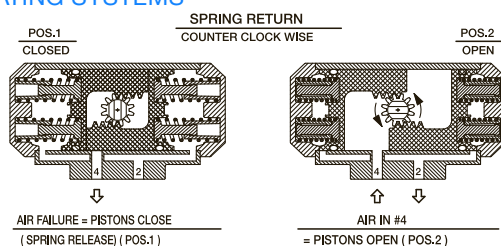
FOR BALL AND BUTTERFLY VALVES UP TO 4"

## TECHNICAL INFORMATION, CONTINUED

### DIMENSIONS

| MODEL  | A<br>in/mm | B<br>in/mm | E<br>in/mm | H<br>in/mm | J<br>in/mm | K<br>in/mm | L<br>in/mm | FLANGE<br>STANDARD<br>(dim M) | WEIGHT<br>(lbs) |
|--------|------------|------------|------------|------------|------------|------------|------------|-------------------------------|-----------------|
| PMS410 | 2.76/70    | 3.58/91    | 0.47/12    | 0.87/22    | 2.64/67    | 0.43/11    | 4.69/119   | F04                           | 1.33            |
| PMS415 | 3.54/90    | 4.37/111   | 0.47/12    | 1.30/33    | 3.39/86    | 0.55/14    | 6.30/160   | F05                           | 2.7             |
| PMS419 | 4.39/112   | 5.22/133   | 0.47/12    | 1.30/33    | 3.98/101   | 0.67/17    | 6.89/175   | F07                           | 4.4             |
| PMS420 | 4.39/112   | 5.22/133   | 0.47/12    | 1.30/33    | 3.98/101   | 0.67/17    | 6.89/175   | F07                           | 4.4             |

### ACTUATOR OPERATING SYSTEMS

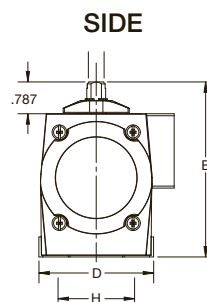
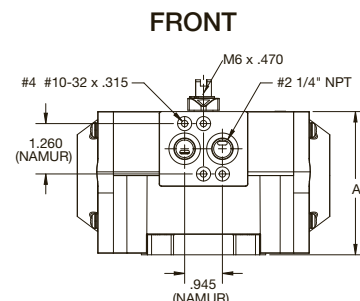
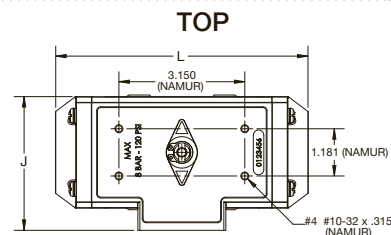


### ACTUATOR SPECIFICATIONS

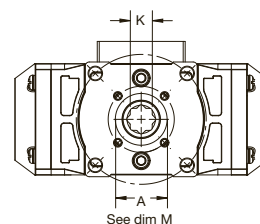
|                                 | PMS410  | PMS415   | PMS419   | PMS420   |
|---------------------------------|---------|----------|----------|----------|
| Torque Output (in./lb.) @ 80psi | 81      | 316      | 316      | 270      |
| Spring Stroke (Start/End)       | 66/44   | 150/107  | 245/184  | 307/230  |
| Enclosure Material              |         |          |          |          |
| Output Shaft                    |         |          |          |          |
| Air Port Connections            |         |          |          |          |
| Air Consumption (cu. in.)       | 8       | 10.8     | 17.5     | 17.5     |
| Air Transfer                    |         |          |          |          |
| Stroke Time (seconds)           |         |          |          |          |
| Cycle Time                      |         |          |          |          |
| Minimum Air Pressure            |         |          |          |          |
| Maximum Air Pressure            |         |          |          |          |
| Operation                       |         |          |          |          |
| Weight (lb/kg)                  | 1.33/64 | 2.7/1.22 | 4.40/2.0 | 4.40/2.0 |

### VALVE SELECTION CHART

| SIZE*<br>in/DN | TB SERIES BALL VALVES | TW/LA SERIES BALL VALVES | BY SERIES BUTTERFLY VALVE |
|----------------|-----------------------|--------------------------|---------------------------|
| 1/2/15         | PMS415                | PMS415                   | N/A                       |
| 3/4/20         | PMS415                | PMS415                   | N/A                       |
| 1/25           | PMS415                | PMS415                   | N/A                       |
| 1 1/4/32       | PMS415                | PMS419                   | N/A                       |
| 1 1/2/40       | PMS415                | PMS419                   | N/A                       |
| 2/50           | PMS415                | PMS419                   | PMS420                    |
| 2 1/2-3/65-80  | PMS419                | N/A                      | N/A                       |
| 3/80           | N/A                   | PMS420                   | PMS420                    |
| 4/100          | N/A                   | N/A                      | N/A                       |
| 4-6/100-150    | PMS419                | PMS420                   | N/A                       |



### BOTTOM



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