

# PLACKA ELECTRO PNEUMATIC PROPORTIONAL REGULATOR



## Product Features

- Adopt 32-bits CPU, special closed-loop control algorithm to realize the rapid response and precise control effectively;
- Control precision is  $\leq +0.5\%$ ;
- Adopt high-precision built-in pressure sensor to improve control precision effectively;
- Three-color digital display LCD, real-time display actual pressure and setting pressure simultaneously, convenient to confirm and adjust on site;
- Easy to change 4 pressure units(Mpa,Bar,Psi,Kpa)at any time; Self-diagnosis;
- Error indication failure alarm;
- 4-pins M12A standard (male) fieldbus connector;
- Easy assembling and operating;
- The built-in filter can be easily removed for cleaning or replacement;
- The valve body made by microdiecast technology; Large flow rate;
- Protection class IP65

## HOW TO ORDER?

| Series No.                                                    | Valve body size                        | Port size                                | Pressure range                                                                        | Input Signal                                   | Monitor Output                                                                      | Port Size                      | Bracket                                                      | Cable Connector type                                                               |
|---------------------------------------------------------------|----------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------|
| PAC:PAC Series<br>Electro-Pneumatic<br>proportional regulator | 3000: 3000 Series<br>4000: 4000 Series | 02:1/4"<br>03:3/8"<br>03:3/8"<br>04:1/2" | 30: 0-0.5MPa/0-5bar/<br>0-72psi/0-500KPa<br>50: 0-0.9MPa/0-9bar/<br>0-130psi/0-900KPa | 0: 4-20mA<br>3: 0-10V<br>0: 4-20mA<br>3: 0-10V | 1: 1-5V<br>4: 4-20mA<br>1: 1-5V<br>4: 4-20mA<br>1: 1-5V<br>2: 24V NPN<br>3: 24V PNP | Blank : G<br>P : PT<br>T : NPT | Blank : Without bracket<br>B : Flat bracket<br>C : L-bracket | Blank : Without cable connector<br>L : right angle type 2m<br>S : Straight type 2m |

**Order Example :** PAC Series Electro-Pneumatic Proportional regulator, valve body 3000, port size 1/4", output pressure 0-0.9MPa, input signal 0-10V, Monitor output 1-5V, port size G, Flat bracket, straight type 2m, ERP code is: PAC3000-025031-BS.

## PAC SERIES ACCESSORIES ORDER CODE

| Cable Connector Name                     | Order Code    |
|------------------------------------------|---------------|
| 4-pins M12A Standard Straight type 2m    | M12R-PVC-2M   |
| 4-pins M12A Standard Right angle type 2m | M124RL-PVC-2M |

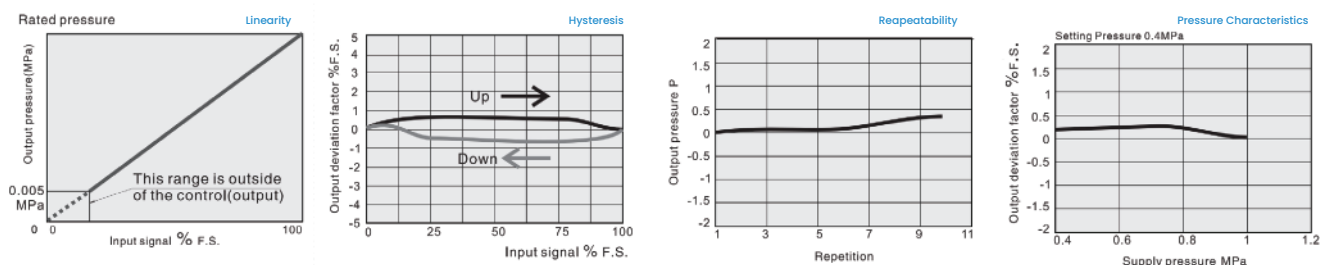
| Bracket Name | Order Code |
|--------------|------------|
| Flat Bracket | FJ-ETV-FA  |
| L-Bracket    | FJ-ETV-LB  |

**Note :** Normal cable connector length is 2m, any other model need to be customized production, max length 10m.

## SPECIFICATIONS

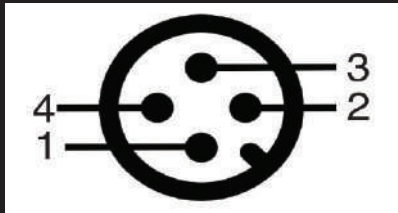
| Model                 | PAV3000-02                                | PAV3000-03 | PAV4000-03 | PAV4000-04 |
|-----------------------|-------------------------------------------|------------|------------|------------|
| Port size             | G1/4                                      | G3/8       | G3/8       | G1/2       |
| Flow rate (Cv)        | 1.5                                       | 2.0        | 2.5        | 3          |
| Pressure range        | 0-0.9MPa                                  |            |            |            |
| Input Signal          | 0-10 or 0-5 V or 4-20ma (sink)            |            |            |            |
| Monitor output        | 4-20mA (sink) /1-5                        |            |            |            |
| Connection type       | 4-pins M12A standard                      |            |            |            |
| Supply Voltage        | DC24v+10%                                 |            |            |            |
| Enclosure             | IP65 (DIN40050)                           |            |            |            |
| Working Temperature   | 0-500 C                                   |            |            |            |
| Working medium        | Clear air (After 5um filtration)          |            |            |            |
| LCD display           | Set pressure and display at the same time |            |            |            |
| Valve body            | Aluminum alloy                            |            |            |            |
| Installation position | Random direction                          |            |            |            |
| Max input pressure    | 1.0pa                                     |            |            |            |
| Min input pressure    | bigger than max output pressure by 0.1Mpa |            |            |            |
| Accuracy              | $\leq \pm 0.5$                            |            |            |            |
| Linearity             | $\leq \pm 1.0\text{F.S}$                  |            |            |            |
| Repeatability         | $\leq \pm 0.5\%\text{F.S}$                |            |            |            |
| Hysteresis            | $\leq 0.5\%\text{F.S.}$                   |            |            |            |

## CHARACTERISTIC PARAMETERS CURVE

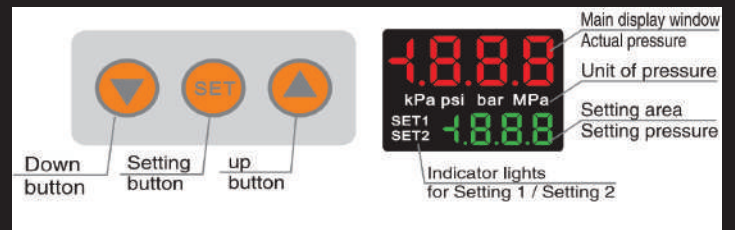


## WIRING

| Definition |             | Electrical Connection          |
|------------|-------------|--------------------------------|
| PIN Number | Cable Color | Analog input type              |
| PIN1       | Brown       | +24VDC                         |
| PIN2       | White       | Positive pole of control singa |
| PIN3       | Blue        | Negative pole of power         |
| PIN4       | Black       | Monitor Signal                 |

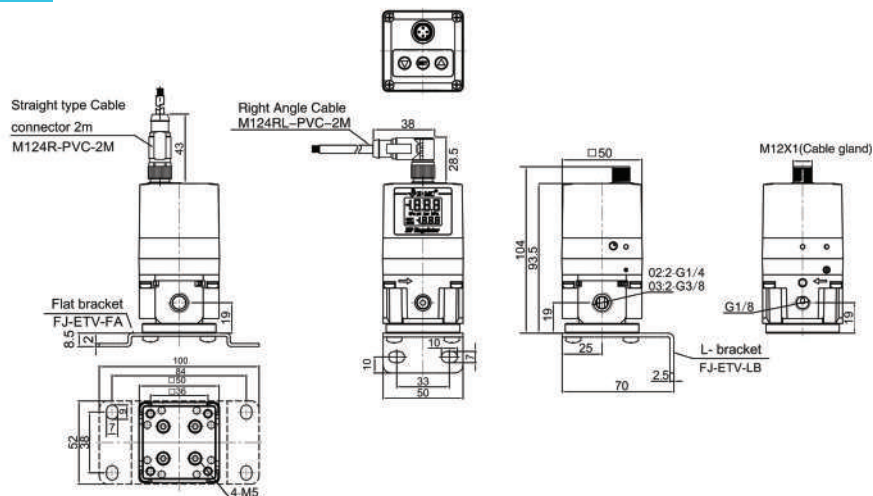


## BUTTON & LCD SCREEN



## MAIN DIMENSION

## PAC3000



## PAC4000

