

# ETV Electro-Pneumatic Proportional Regulator



## ETV

### Electro-Pneumatic Proportional Regulator



#### Product Features

- Adopt 32-bit, special closed-loop control algorithm to realize the rapid response and precise control effectively;
- Control precision is  $\leq \pm 0.5\%$ ;
- 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;
- Individual notes when output pressure is lower;
- Independent internal pressure output signal;
- 4-pins M12A standard (male) fieldbus connector, 3 meters cable;
- 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;
- Pressure range: 0–0.1 MPa / 0–0.5 MPa / 0–0.9MPa;
- Common characteristic parameter curve.

#### How to order?

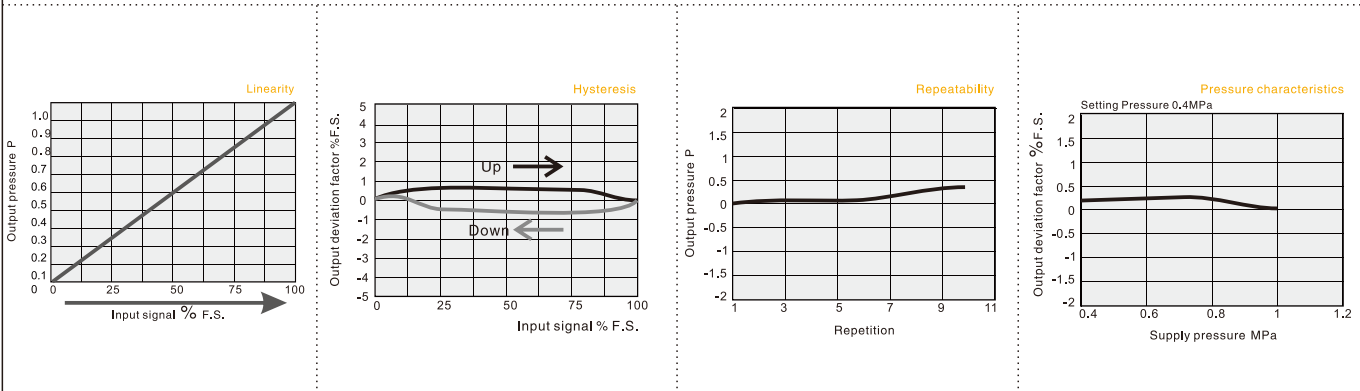
Series No.	Valve body size	Port size	Pressure range	Input signal	Monitor output	Port size	Bracket	Cable connector type
ETV	20: 20	08:1/4" 10:3/8"	10: 0–0.1MPa/0–1bar/0–15psi/0–100KPa 30: 0–0.5MPa/0–5bar/0–70psi/0–500KPa 50: 0–0.9MPa/0–9bar/0–130psi/0–900KPa	0: 4–20mA 1: 0–20mA 2: 0–5V 3: 0–5V 4: 4 points preset input	0: None 1: 1–5V 2: 24V PNP 3: 24V PNP 4: 4–20mA	Blank: G P: PT T: NPT	Blank: Without bracket B: Flat bracket C: L-bracket	Blank: Without cable connector L: Right angle type 3m S: Straight type 3m

**Order Example:** ETV series Electro-Pneumatic Proportional Regulator, valve body20, port size1/4", output pressure 0–0.1MPa,input signal4–20mA, Monitor output1–5V,port size G,Flat bracket,straight type 3m, ERP code is:ETV20–081001–BS.

Cable connector Name	Order code	Bracket Name	Order code
4-pins M12A standard Straight type 3m	M124R-PUR-3M	Flat bracket	FJ-ETV-FA
4-pins M12A standard Right angle type 3m	M124RL-PUR-3M	L-bracket	FJ-ETV-LB

**Note:** Normal cable connector length is 3m,any other model need to be customized production,max length 10m.

#### Flow Chart



## Specifications

Model	ETV20-08	ETV20-10
Port size	G1/4	G3/8
Flow rate characteristics	1.5	2.0
Pressure range	0-0.1/0.5/0.9MPa	
Input signal	0-5/10V or 0/4-20mA or 4points preset input	
Monitor output	4-20mA / 1-5V / 1 point switch output	
connector type	4-pins M12A standard(Male)	
Supply Voltage	DC24V ± 10%	
Power	≤ 3W	
Enclosure	IP65 ( DIN40050 )	
Working temperature	0-50°C	
Working medium	Clear air(After 5µ m filtration)	
LED display	Set pressure and actual pressure display at the same time	
Valve body	Aluminium alloy	
Installation position	Random direction	
Max input pressure	1.0MPa (range0-0.1MPa, Max input pressure 0.2MPa)	
Min input pressure	bigger than max output pressure by 0.1Mpa	
Accuracy	≤ ± 0.5%	
Linearity	≤ 1.0%F.S.	
Repeatability	≤ ± 0.5%F.S.	
Hysteresis	≤ 0.5%F.S.	

## Main Dimension

