



Features

- Precision needle valve** for fine, stable, and sensitive flow control.
- Sensor feedback** prevents step loss, enhancing control reliability.
- Linear flow-to-signal ratio** with high repeatability.
- Real-time flow adjustment** for dynamic control.
- Supports analog & digital signals**, easy PLC/industrial integration.
- Compact and flexible design** for various equipment.

Ordering code

FPV – P10 – 1 – V

Fluid Pressure Range	
P10	10 BARG
P30	30 BARG

Input Signal	
V	0~10V
I	4~20mA
D	RS485 Modbus RTU

Flow Rate Range(@ 5BARG)	
1	0~30SPLM(@Gas Flow) 0~0.5LPM(@Water Flow)
2	0~300SPLM(@Gas Flow) 0~5LPM(@Water Flow)
3	0~600SPLM(@Gas Flow) 0~10LPM(@Water Flow)
4	0~1800SPLM(@Gas Flow) 0~30LPM(@Water Flow)

⚠ Warning

This product is intended for use only in industrial compressed gas systems.
Do not operate this product beyond the specified pressure and temperature limits.

Specification

Item	FPV-P10-1-□		FPV-P30-1-□
	FPV-P10-2-□		FPV-P30-2-□
	FPV-P10-3-□		FPV-P30-3-□
	FPV-P10-4-□		FPV-P30-4-□
Max Inlet	10BARG		35BARG
	Maximum inlet pressure can be customized upon request		
Flow Range @ 5 BARG		FPV-P10-1-□, FPV-P30-1-□: 30SLPM FPV-P10-2-□, FPV-P30-2-□: 300SLPM FPV-P10-3-□, FPV-P30-3-□: 600SLPM FPV-P10-4-□, FPV-P30-4-□: 1800SLPM	
Port Size		FPV-P10-1-□, FPV-P30-1-□: 1/4G" FPV-P10-2-□, FPV-P30-2-□: 1/4G" FPV-P10-3-□, FPV-P30-3-□: 3/8G" FPV-P10-4-□, FPV-P30-4-□: 3/8G"	
Power	Voltage	DC24V ± 10%	
	Current Consumption	≤ 24W	
Input Signal	Voltage Type	0-10V	
	Current Type	4-20mA	
	Digital Type	RS485 (Communication Protocol: Modbus)	
Input Impedance	Voltage Type	4kΩ	
	Current Type	250Ω	
Electrical Connection		6-pin M8Aviation connector	
Linearity		±0.25% @ Full Scale (F.S.)	
Hysteresis		±0.25% @ Full Scale (F.S.)	
Repeatability		±0.1% @ Full Scale (F.S.)	
Response Time		0.8 seconds at 10% of full scale travel	
Display Accuracy		±0.3% @ Full Scale (F.S.)	
Compatible Media		Air, Water	
Flow Path Material		NBR, PEEK, Barss, Aluminum, Stainless Steel	
Ambient Temperature		0-60°C	
Fluid Temperature		0-60°C	
Waterproof Rating		IP40	
Weight	Aluminum		

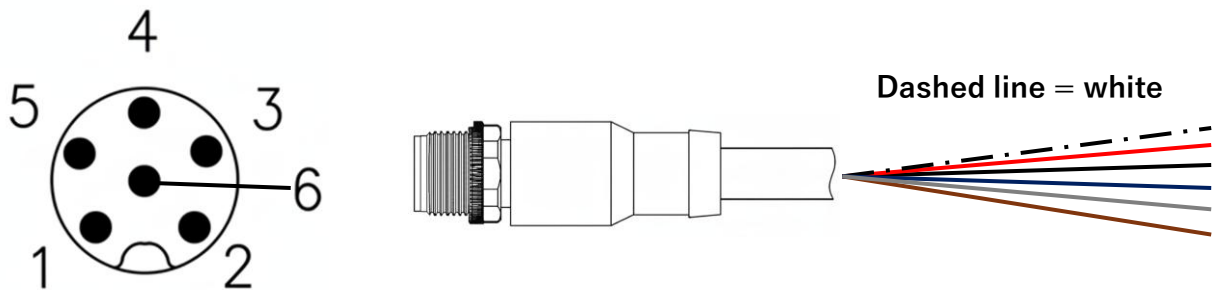
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Pin Assignment

⚠ Proceed to the corresponding section based on the type of valve being installed.
NOTE: All color codes refer to the factory-prewired FPV-XXX power cord.



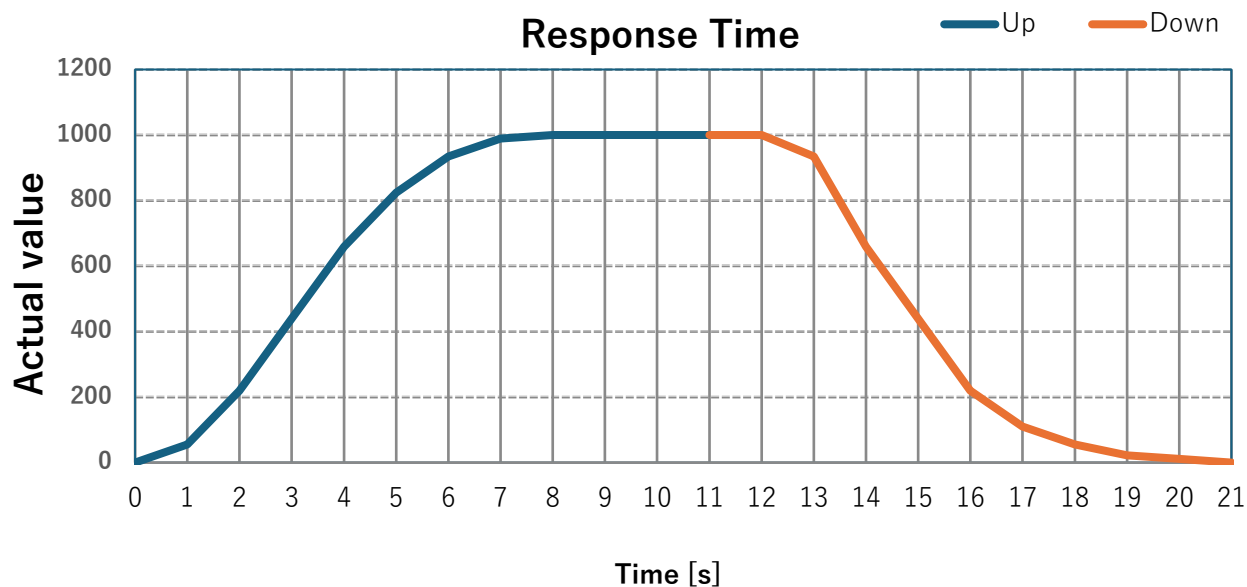
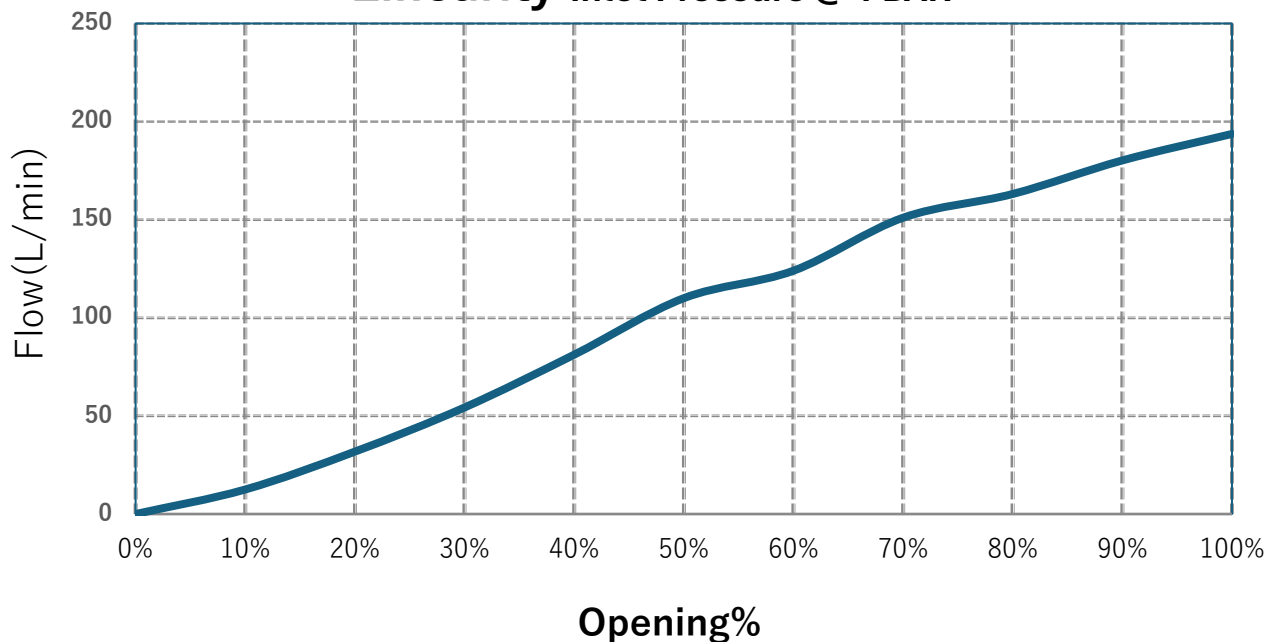
PIN	Cable Color	Function
1	Brown	24V Power(+)
2	Blue	24V Power(-)
3	White	Input Signal(+) Modbus RTU RS485(+)
4	Grey	Input Signal(-) Modbus RTU RS485(-)
5	Black	Error Reset
6	Pink	Error output(-)

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Characteristic Curve

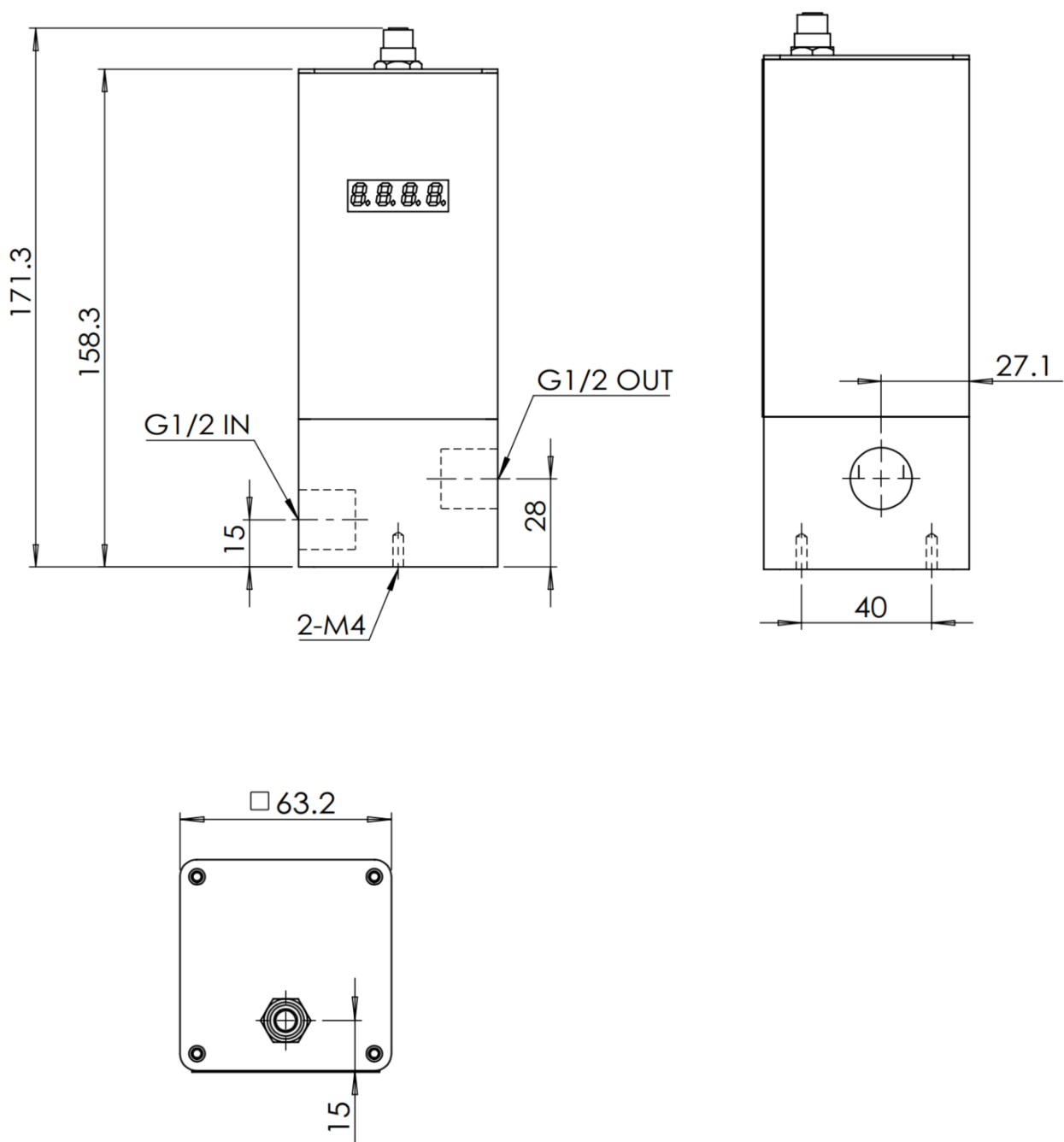
Linearity Inlet Pressure @ 1 BAR



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Overall Dimensions



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