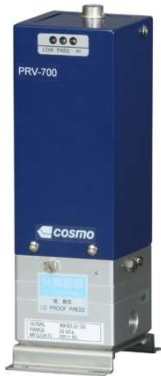


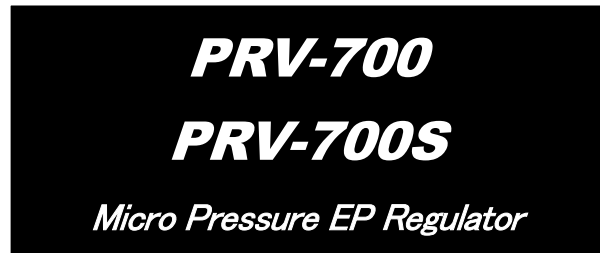
PRODUCT INFORMATION Micro Pressure EP Regulator



Micro Pressure EP Regulator PRV-700
Large flow type with internal governor



Micro Pressure E/P Regulator PRV-700S
Direct-acting type for small volume (Booster required separately)



Features

- Regulates micro low and low pressures with voltage input of 0 to 5 V
- High-speed regulation of micro low pressure
- High-accuracy regulation of micro low pressure
- Regulates pressure and vacuum

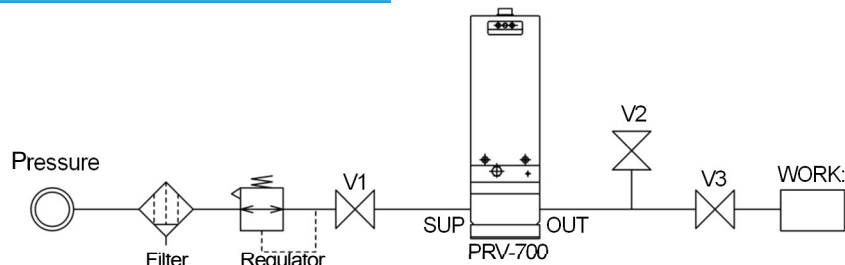
Ranges

Range	Max. Control Flow (PRV-700)	Max. Control Flow (PRV-700S)	Accuracy	Proof Pressure
2.5 kPa	130 L/min	-----	± 0.3% of F.S.	5 x F.S.
7 kPa	150 L/min			120 kPa
35 kPa	200 L/min		± 0.2% of F.S.	300 kPa
100 kPa	330 L/min			

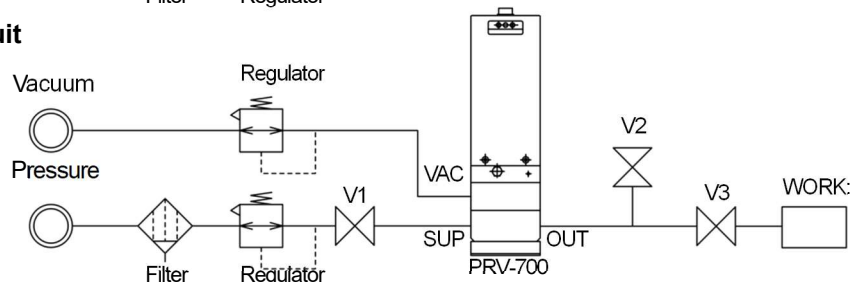
Control Pressure Range		Voltage for setting output pressure	Primary Pressure (Recommended Value)	Vacuum (Recommended Value)	Output voltage of the sensor that monitors controlled pressure
Pressure	M. Low	0 to 5 VDC	10 to 30 kPa (10 kPa)	-----	0 to 0.25 VDC
	Low		40 to 80 kPa (50 kPa)		0 to 0.7 VDC
	M. Low		70 to 120 kPa (100 kPa)		0 to 0.35 VDC
	Low		150 to 250 kPa (200 kPa)		0 to 1 VDC
Pressure/Vacuum	M. Low	-5 to 5 VDC	10 to 30 kPa (10 kPa)	-10 to -30 kPa (-10 kPa)	-0.25 to 0.25 VDC
	Low		40 to 80 kPa (50 kPa)	-50 to -90 kPa (-50 kPa)	-0.7 to 0.7 VDC
	M. Low	-4.5 to 5 VDC	70 to 120 kPa (100 kPa)	-50 to -90 kPa (-80 kPa)	-0.35 to 0.35 VDC
	Low		150 to 250 kPa (200 kPa)	-90 kPa or higher (-95 kPa)	-0.9 to 1 VDC

Pneumatic Circuit (Reference Example)

Pressure Circuit



Pressure/Vacuum Circuit



Specifications

START/STOP Signal	Photocoupler input
PASS signal (Output when the pressure reaches the specified pressure)	NPN open collector output 5 to 24 VDC 20 mA
Mounting Hole Position Dimensions W x B	40 x 76 mm
Overall Accuracy	±1.0% of F.S. (Sensor accuracy included)
Response	≤ 1 second (99% response, Volume: PRV-700, 2 L PRV-700S, 50 mL *1) ≤ 0.5 seconds (20% step response)
Weight	Approx. 1.0 kg
Port Size	Rc1/4

Operation Power Source	24 VDC ± 2 V 0.7 A (1.5 A Max.)
Air Consumption (Internal Vacuum Generator)	For PRV-700: Range 2.5 kPa: Approx. 2.5 L/min Range 7 kPa: Approx. 4 L/min Range 35 kPa: Approx. 6 L/min Range 100 kPa: Approx. 7 L/min
Body Dimensions W x B x H	PRV-700: 60 x 60 x 200 mm PRV-700S: 60 x 60 x 180 mm *1
Accuracy	±0.2% of F.S. / ±0.3% of F.S. (2.5 kPa)
Option	Pressure/Vacuum, Control Voltage Change
Signal Connector	HR10-10P-12P (Hirose)

*1 Use PRV-700S when the internal volume of the target for pressure control is 50 mL or less, or when using a booster.

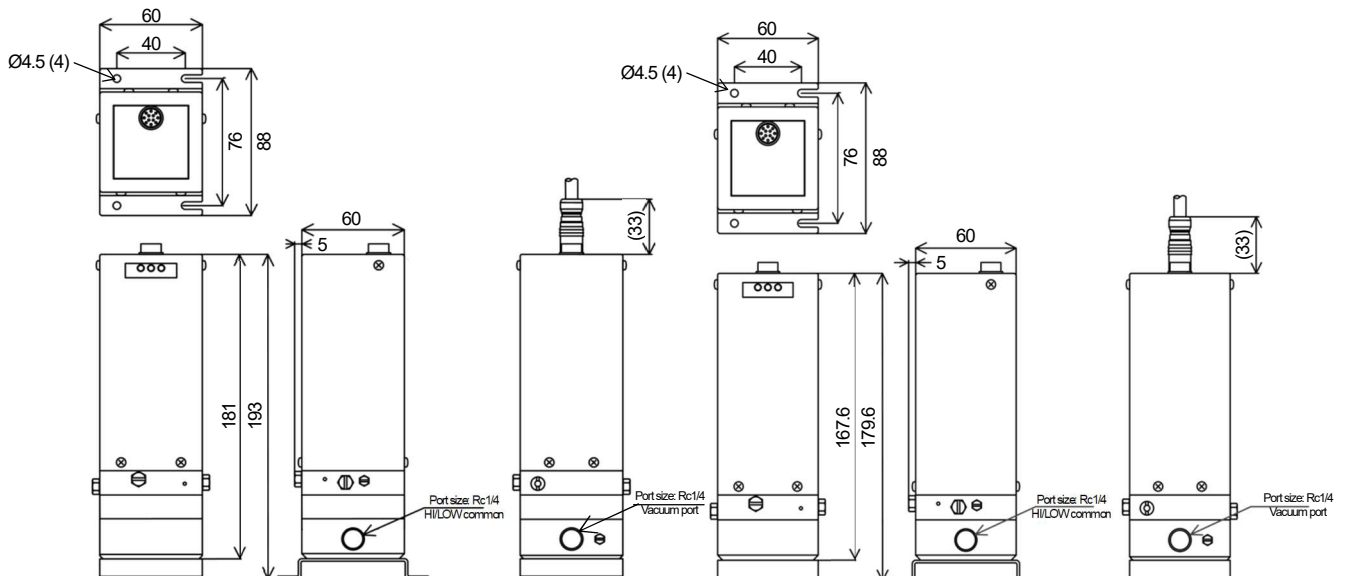
External Appearance

PRV-700

Large flow type with internal governor

PRV-700S

Direct-acting type for small volume
(Booster required separately)



* The contents of this Product Information are as of August 2021. The specifications are subject to change without prior notice.

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