



PRV-700

Micropressure EP Regulator

■ Features

- Voltage input of 0 to 5 V controls microlow pressures.
- High-speed regulation of microlow pressures
- High-accuracy regulation of microlow pressures
- Achieves high flow rates.
 - Range of up to 7 kPa: 150 L/min
 - Range of up to 35 kPa: 240 L/min

■ Basic specification

Controlled pressure range	Microlow pressure: 0 to 7 kPa/FS (0 to 5 V) Low pressure: 0 to 35 kPa/FS (0 to 5 V)
Voltage to set the output pressure	External signal of 0 to 5 VDC is applied.
Output voltage of the sensor that monitors controlled pressure	Microlow pressure: 0 to 7 kPa: 0 to 0.7 VDC Low pressure: 0 to 35 kPa: 0 to 0.35 VDC
START/STOP signal	Photocoupler input
PASS signal (Outputted when the pressure reaches the specified controlled pressure value)	NPN open collector output, 5 to 24 VDC, 20 mA
Maximum controlled flow rate	Up to 7 kPa: 120 L/min (With 50 kPa primary pressure) Up to 35 kPa: 200 L/min (With 100 kPa primary pressure)
Primary pressure	Up to 7 kPa: 40 kPa to 70 kPa, 50 kPa is recommended Up to 35 kPa: 70 kPa to 100 kPa, 100 kPa is recommended
Overall accuracy	±1% of F.S.
Control accuracy	±0.2% of F.S.
Responsiveness	≤ 1 second (With 99% response, Volume of 2 L) ≤ 0.5 second (With 20% step response)
Tolerated overpressure	120kPa
Connection diameter	Rc1/4
Signal connector	HR10-10P-12P (HIROSE ELECTRIC CO., LTD.)
Operating power source	DC24 V±2 V, 0.7 A (1.5 A max.)
Quiescent air consumption	Up to 7 kPa: about 4 L/min, Up to 35 kPa: about 6 L/min, (Internal vacuum generator)
Outer dimensions W×B×H	60 × 60 × 200 mm
Mounting hole dimensions W×B	40 × 76 mm
Weight	About 1.0 kg

* The content of this product information is as of April 2014. The specification is subject to change without prior notice.

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