

RESOLUTION AIR



Proportional Pinch Valve
BC-1 Controller

Binary Controller

Providing On/Off Flow Control and High Pinch Force

Resolution Air, Ltd's Binary Controller (BC-1) is the robust solution for **On/Off flow control** providing **high pinch force** with **low power** consumption.

Proportional Pinch Valves eliminate the critical deficiencies surrounding traditional pinch valves of low pinch force and high power consumption.* The BC-1 streamlines the control integration of Resolution Air, Ltd. Valves into systems requiring on/off flow control.

The BC-1 incorporates a programmed driver/controller which optimizes the motor current, valve speed, and closed position for its mated valve. The BC-1 comes preprogrammed but can easily be customized by the customer.** In addition, screw terminal connections (motor, home sensor, digital inputs, and supply power) and multiple mounting options (base plate and 35 mm DIN rail) are incorporated to facilitate the installation process.

Applications Include

- Bioprocessing (Bioreactors)
- Biopharmaceutical Manufacturing (Filtration)
- Clinical or Chemical Analysis
- Blood Handling/Analysis

*Note: The integral stepper leadscrew of a proportional pinch valve generates significantly higher pinch forces (5x-15x) than a traditional solenoid pinch valve with less power. The MPPV-series can generate up to 15 lbs. of pinch force at 3.85 watts whereas the HPPV-series is capable of generating up to 50 lbs. of pinch force at 5.7 watts compared to 4 lbs. of a solenoid pinch valve at 72 watts.

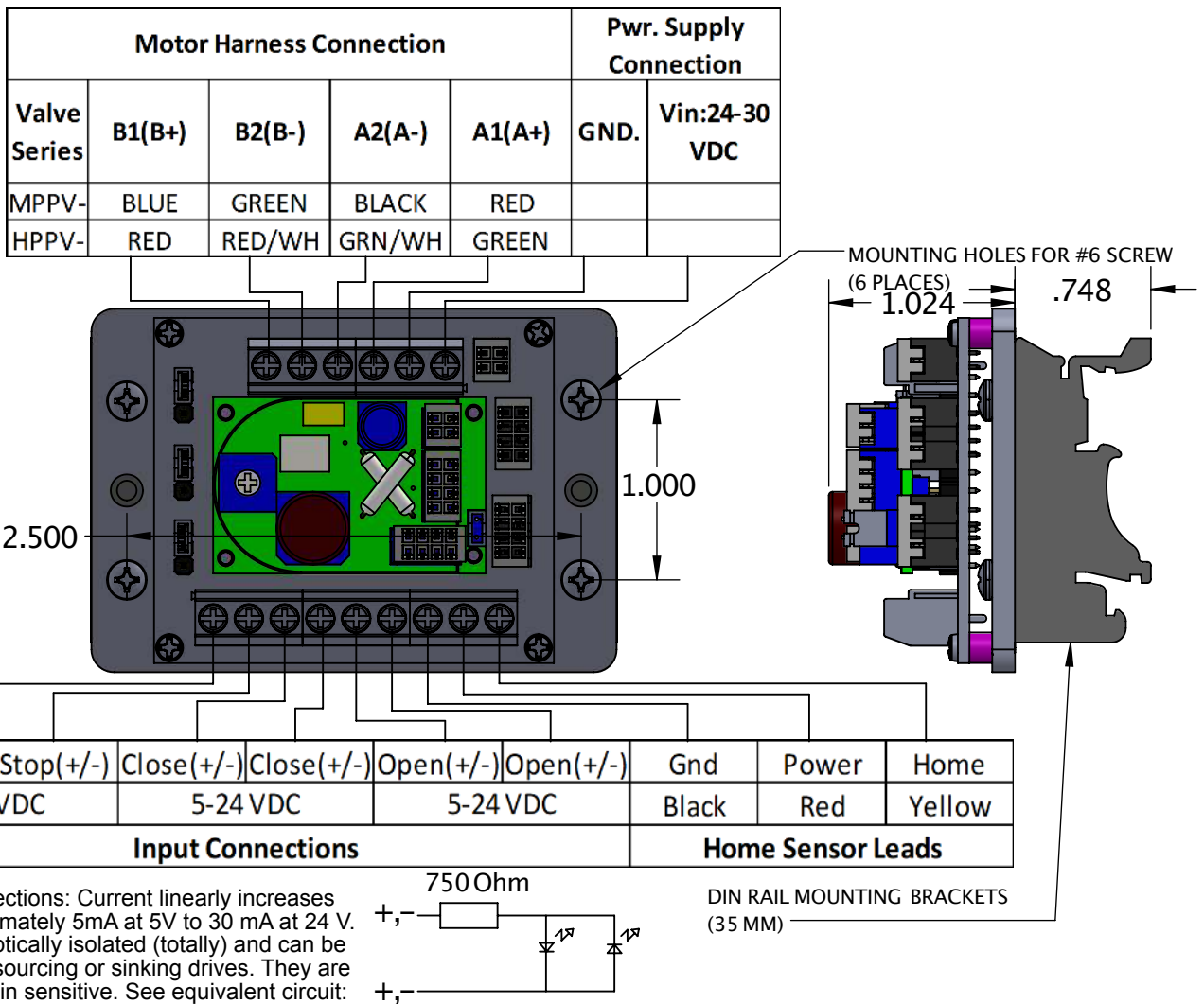
** Adapter Kit Required



Key Features

- Programmed for ON/OFF control
- High Pinch Force
- Low Power Consumption
- Simple Installation
- Power Requirements: 24-30 VDC
- Current Rating: 1 amp Bi-polar chopper/driver
- Opto Isolated Digital Inputs (5-24 VDC): Stop, Close, Open
- Integrated Home Sensor input with pull-up resistor installed
- Idle Current Mode: Automatic 50% current reduction after 1 second idle time
- Customer configurable operation parameters: motor current, valve speed, closed position and idle current

BC-1: Electrical and Dimensional Specs



Resolution Air, Ltd. Proportional Pinch Valves offer unprecedented system design flexibility through this revolutionary new valve technology. Contact us today to discuss your application or to order an easy-to-install evaluation kit.