RVP-C Series
Circular VAV Terminal Boxes

A complete range from 37 m^3/h to 12 842 m^3/h

FX-PCV1630-1
Regulator with 8 physical points; 3UI, 3BO, 2CO; Integrated 4 Nm transducer and motor, 24 V AC power supply

FX-PCV1930-0
IP port controller for Bacnet IP communication (number 2) with 8 physical points; 3UI, 3BO, 2CO; Integrated 4 Nm transducer and motor, 24 V AC power supply.

NS-ATV7003-0
Room sensor for flow calibration

PCV Accessories (must be ordered separately)

VAV terminal boxes are capable of regulating and maintaining environmental comfort in a variable flow system by controlling the air flow in the best way.

This type of system allows you to control ventilation and air conditioning directly in rooms, according to the real flow needs and the cool-heat requirements.

This allows significant savings, especially in applications such as offices, classrooms and hotel rooms where there are large load differences during the various time intervals.

Features

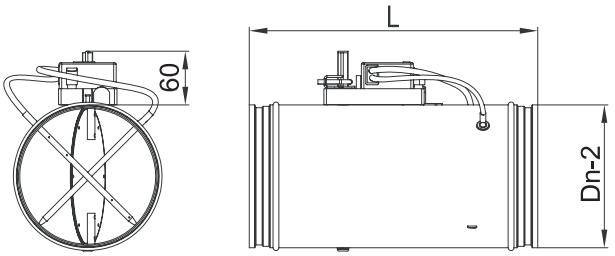
- Continuous flow regulation according to the set point.
- Assembled with factory calibrated FX-CVM regulators
- High adjustment accuracy
- No maintenance required
- Possibility of use with constant or variable flow
- Master-slave mode
- BACnet and N2Open protocols
- Adjustment of maximum-minimum cold flow, hot flow and k factor from the bus probe equipped with display and parameter adjustment knob. It is not necessary to reach the regulator itself, just connect this device to the bus probe cable

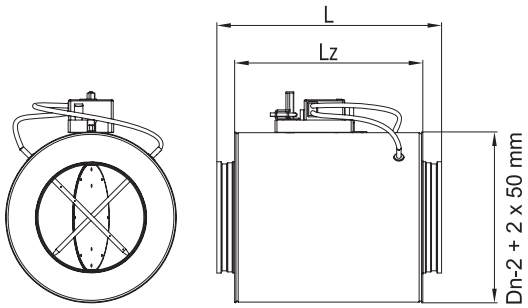
VAV Controller, PCV

The PCV family controllers are equipped with the BACnet protocol in accordance with all ASHRAE specifications.
They are equipped with SA Bus and with various input/output configurations.

The regulator includes the differential air pressure transducer to calculate the flow rate and the 4 Nm rotary motor to control the damper. This regulator has been designed for the regulation of VAV terminal boxes with variable flow.

- Support peer to peer communication
- PID control with self-adaptive calculation of the regulation parameters
- Tested by BACnet Testing Labs (BTL)
- BACnet or N2open protocol selectable by software
- SA bus



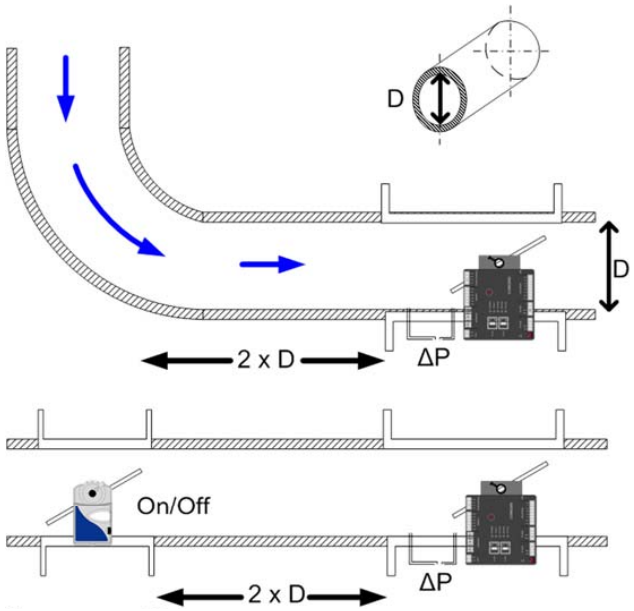


Special configurations

The isolated version is also available, increase the radius by ~ 50 mm

Dimensions Circular VAV

Model	Dn-2 [mm]	L [mm]	Volume min [m³/h]	Volume max [m³/h]
BPN-RVP-C-F100	100	400	37	343
BPN-RVP-C-F125	125	400	54	540
BPN-RVP-C-F160	160	400	90	900
BPN-RVP-C-F200	200	400	145	1459
BPN-RVP-C-F250	250	500	217	2215
BPN-RVP-C-F315	315	600	380	3680
BPN-RVP-C-F355	355	600	482	4275
BPN-RVP-C-F400	400	600	615	6047
BPN-RVP-C-F500	500	750	973	9484
BPN-RVP-C-F630	630	850	1435	12482



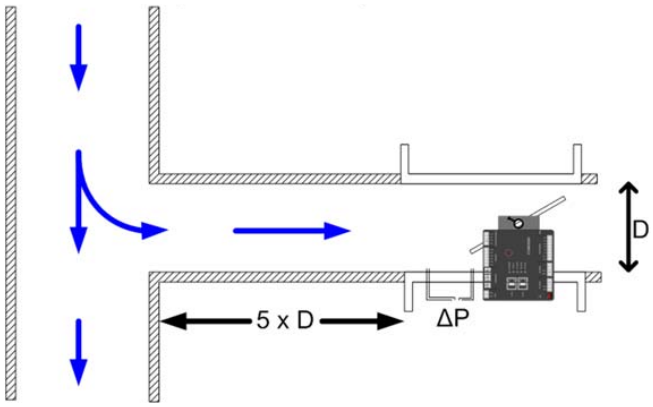


Table of order codes

BPN-RVP- C – F1x0 models

Code	BPN-RVP-C-F100	BPN-RVP-C-F125	BPN-RVP-C-F160
MS-PCV1630	BPN-RVP-C-F100-PCV1630	BPN-RVP-C-F125-PCV1630	BPN-RVP-C-F160-PCV1630

BPN-RVP- C – F2x0 models

Code	BPN-RVP-C-F200	BPN-RVP-C-F250
MS-PCV1630	BPN-RVP-C-F200-PCV1630	BPN-RVP-C-F250-PCV1630

BPN-RVP- C – F3x5 models

Code	BPN-RVP-C-F315	BPN-RVP-C-F355
MS-PCV1630	BPN-RVP-C-F315-PCV1630	BPN-RVP-C-F355-PCV1630

BPN-RVP- C – F400 models

Code	BPN-RVP-C-F100
MS-PCV1630	BPN-RVP-C-F400-PCV1630

BPN-RVP- C – F500 models

Code	BPN-RVP-C-F100
MS-PCV1630	BPN-RVP-C-F500-PCV1630

BPN-RVP- C – F630 models

Code	BPN-RVP-C-F100
MS-PCV1630	BPN-RVP-C-F630-PCV1630

CE