



### **OVERVIEW:**

The Critical Room Control Model CRC-CLV (Closed Loop Exhaust Air Valve) is designed for critical room spaces, hazardous environments, animal holding rooms, and laboratory environments that adhere to stringent ventilation requirements where it is imperative to make sure desired operating conditions are being met and confirmed with precision feedback. These valves, as part of the Critical Room Control system, offer an unequaled user interface and management capabilities while delivering a superior working environment.

The CRC-CLV is uniquely designed to take full advantage of energy saving applications as well as reducing maintenance expenses where long term reliability and system flexibility are important.

The valves closed loop design guarantees a safe, reliable and comfortable working environment for researchers and staff. The CRC-CLV is well suited for any lab space regardless of size or complexity.

### **FEATURES:**

- Long Term Reliability
- Actual flow feedback
- Impervious to Lint, Dust & Dirt
- Closed loop control strategy
- Confirmation of desired set point
- Fail safe actuation
- Fast speed of response
- Quick field calibration reduces commissioning time
- No scheduled maintenance
- Pressure independent Control
- Low pressure drop
- Quiet

#### Minimal moving parts

- No critical components in the air stream
- Closed loop control design
- Flexible installation configurations
- High turndown ratio

### APPLICATION:

- Flow control in critical spaces and hazardous environments
- Animal Holding Rooms
- Support Spaces
- Lab Spaces
- Normally open or closed fail safe positions using rapid response



**PERFORMANCE:** 

**Accuracy:** ±5% of measured true airflow

Pressure independent

No additional straight duct runs needed before or after valve

Turndown: 10:1
Response to feedback signal: <1 second

Volumetric Flow Rate: 60-4250 CFM (102-7221 m3/hr)

### **OPERATING RANGE:**

**Temperature:** 0-150°F (-17-66°C) ambient **Relative Humidity:** 0-95% non-condensing

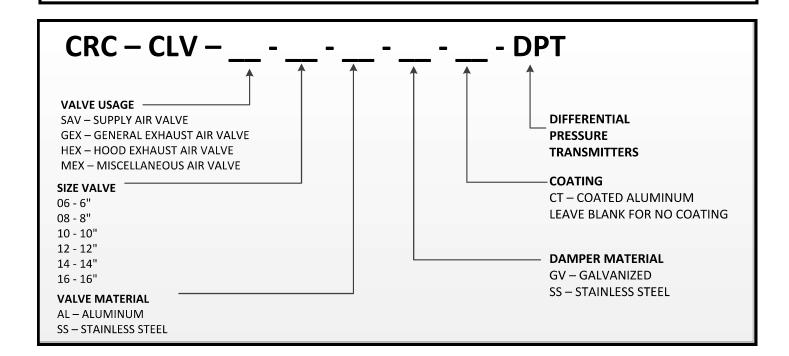
#### **VALVE TYPE:**

♦ SAV: Supply Air Valve (CRC-CLV-SAV)

◊ GEX: General Exhaust Air Valve (CRC-CLV-GEX)

♦ HEX: Hood Exhaust Air Valve (CRC-CLV-HEX)

♦ MEX: Miscellaneous Exhaust Air Valve CRC-CLV-MEX)





### **VALVE BODY CONSTRUCTION:**

- ♦ Aluminum
- ♦ Stainless Steel

### **DAMPER CONSTRUCTION:**

- ♦ Galvanized W/Solid Steel Shaft
- ♦ Stainless Steel W/Solid Stainless Steel Shaft

### **VALVE SPEED:**

- ♦ Standard Speed (4va)
- ♦ High Speed (24va)

### **VALVE FAIL POSITION:**

- ♦ Fail in position
- ♦ Fail Open Position
- ♦ Fail Closed Position

### **VALVE COATING:**

- ♦ No Coating
- ♦ Corrosion-Resistant powder coating
- ♦ Corrosion-Resistant baked phenolic coating

### **VALVE ENCLOSURE:**

- ♦ No Enclosure
- ♦ Small Enclosure
- ♦ Large Enclosure

### **VALVE COILS (Supply only):**

- ♦ Single (1) Row
- ♦ Two (2) Row
- ♦ Four (4) Row

### **VALVE BAND CLAMPS**

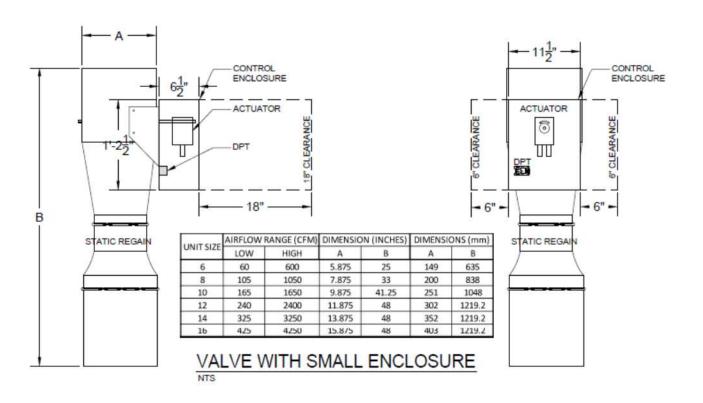
- ♦ Steel
- **◊** Stainless Steel

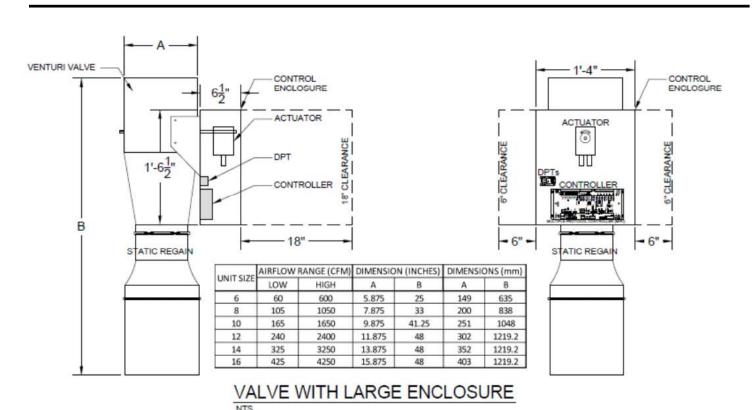
### **K Factor:**

- ♦ 6" Inlet: 425
- ♦ 8" Inlet: 750
- ♦ 10" Inlet: 1166

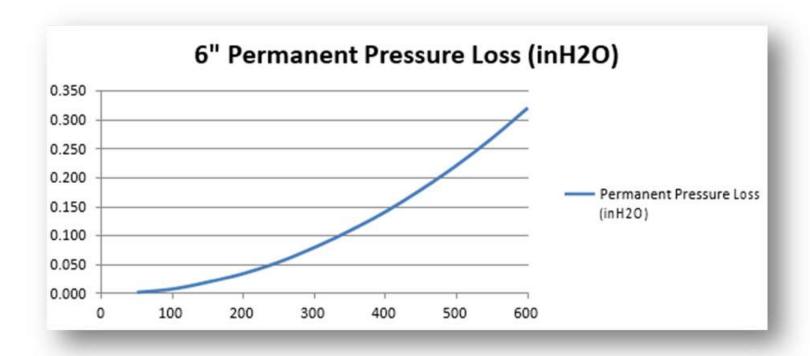
- ♦ 12" Inlet: 1675
  - 14" Inlet: 2275
- 16" Inlet: 2967

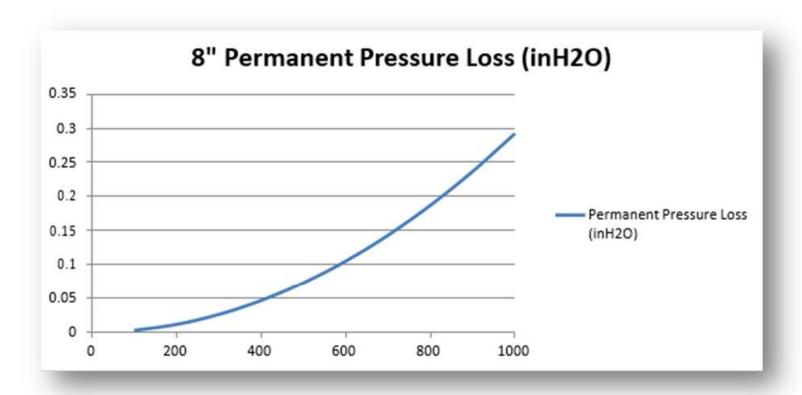




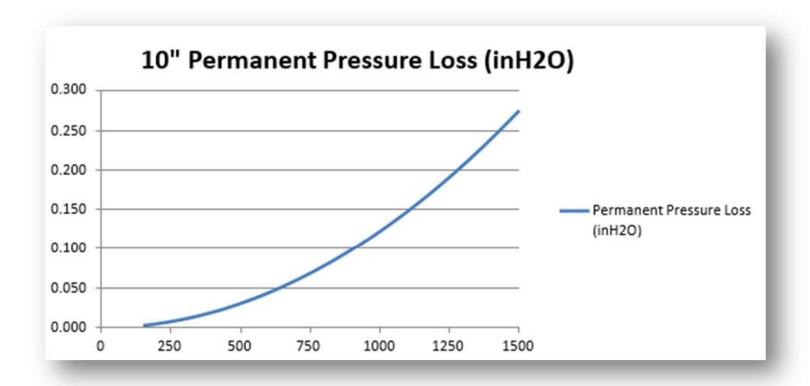


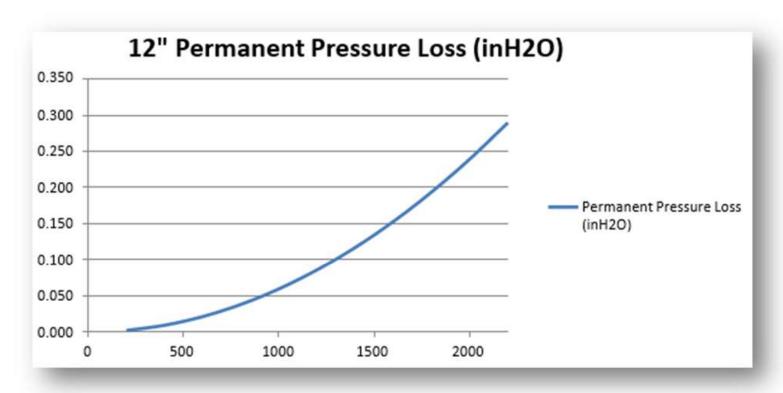




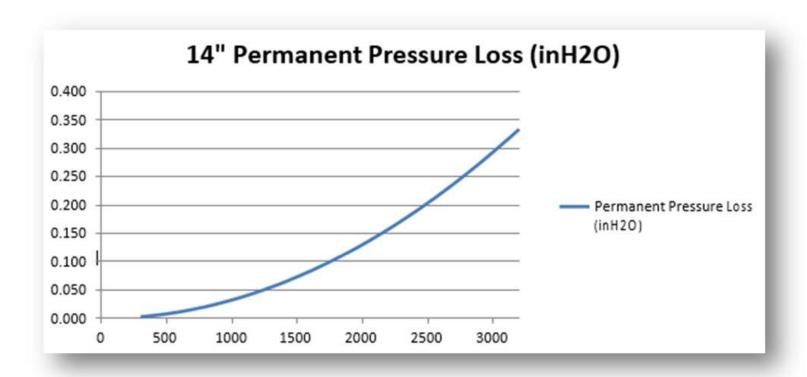


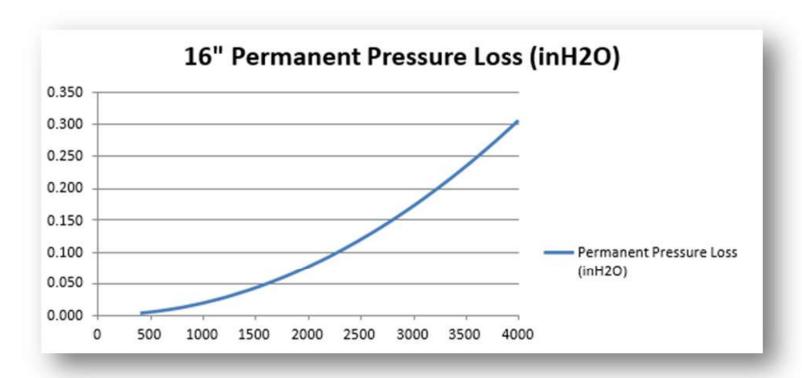














### **VALVE DAMPER LEAKAGE:**

Type: Single duct Critical Room Control CLV air valve

Valve Size: 6" to 16"
Pressure Range: 0 to 6.0"WC

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### **CASING LEAKAGE:**

**Type:** Single duct Critical Room Control CLV air valve

Valve Size: 6" to 16"

Pressure Range: 0 to 6.0"WC

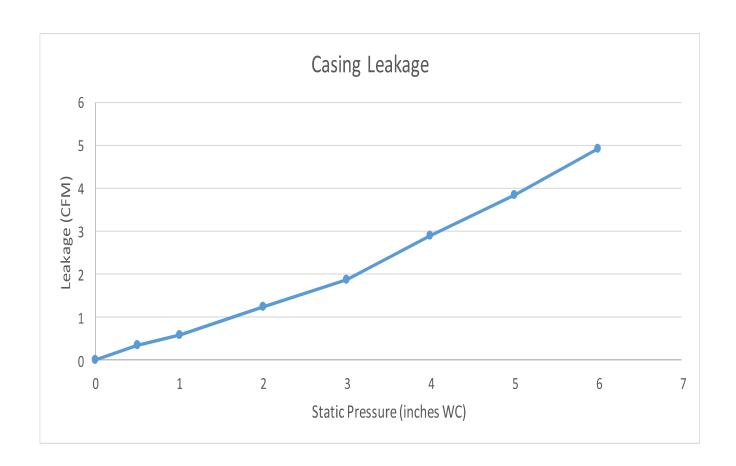
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