Lab Solutions–
Model: CRC-CLV-CV-SP-LB
CV Closed Loop Supply Valve

FEATURES & BENEFITS

- 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

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OVERVIEW

The Critical Room Control CLV-CV-SP-LB (Closed Loop Constant Volume Supply Valve) is designed for Lab 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 CLV-CV-SP-LB is uniquely designed to maintain desired constant volume flow regardless of changes in system static pressure 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 CLV-CV-SP-LB is well suited for any lab space regardless of size or complexity

CONSTRUCTION

Valve bodies available:	Uncoated Aluminum Aluminum with corrosion-resistant baked Phenolic coatings 316 Stainless Steel Steel (Spun valve body with continuous welded seam)
Thickness:	Aluminum: 0.080” Stainless Steel: 0.040”
Damper Shaft Material:	Solid Stainless Steel
Damper Shaft Bearings:	Teflon

Critical Room Control
Minneapolis, MN

Critical Room Control
Milwaukee, WI

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CRC
CRITICAL ROOM CONTROL

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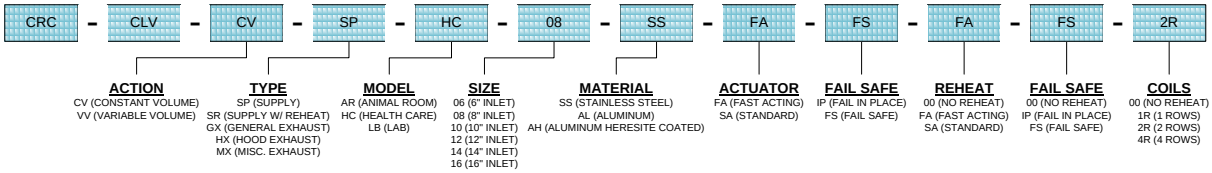
OPERATING RANGE

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

PERFORMANCE

Accuracy:	±5% of measured true airflow Pressure independent No additional straight duct runs needed before or after valve
Response to feedback signal:	<1 second
Volumetric Flow Rate:	60-4250 CFM (102-7221 m^3/hr)
Max. Pressure Drop across valve:	0.15" WC (37.4 Pa)

NOMENCLATURE



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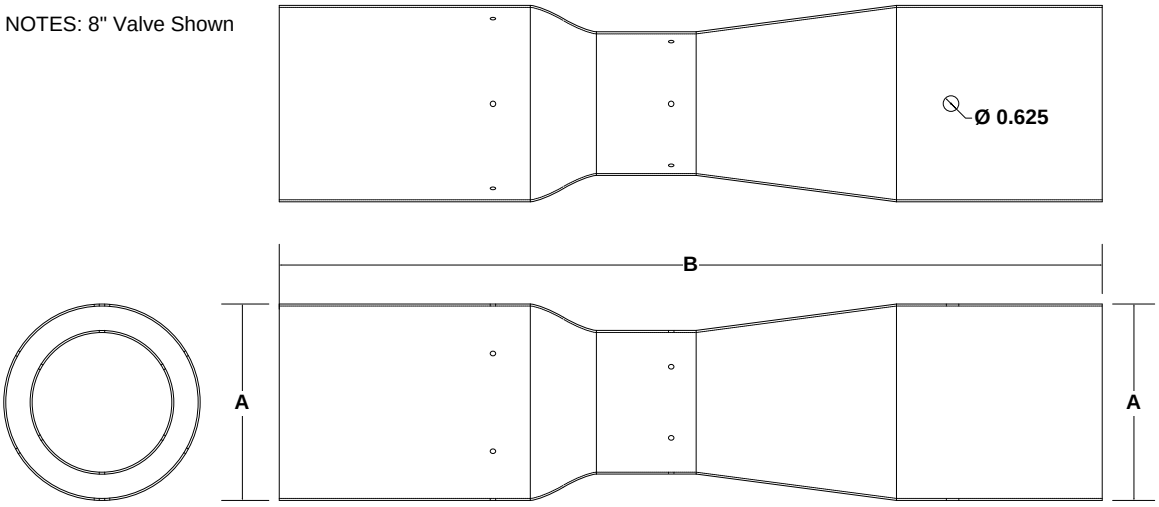
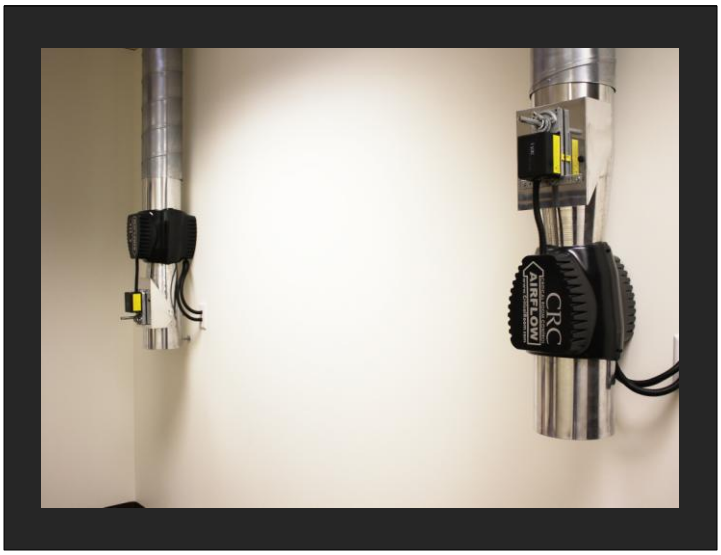
DIMENSIONS & FLOW RANGE

NOTES: 8" Valve Shown



Unit Size	Airflow Range (CFM)		Permanent Pressure Loss Range (inH_2O)		Dimensions (inches)		Dimensions (mm)	
	Low	High	At Low CFM	At High CFM	A	B	A	B
6	60	600	0.00051	0.05117	5.875	25.000	149	635
8	105	1050	0.0005	0.04995	7.875	33.000	200	838
10	165	1650	0.00051	0.05074	9.875	41.250	251	1048
12	240	2400	0.00052	0.05192	11.875	49.250	302	1251
14	325	3250	0.00051	0.0515	13.875	54.000	352	1372
16	425	4250	0.00052	0.0517	15.875	54.000	403	1372



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