DISTRICT OF RAINY RIVER SERVICES BOARD

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● Children's Services ● Paramedic Services ● Ontario Works ● Community Housing

ADDENDUM

NO. 1

Project: DSSAB 26—37 HVAC Component and Control Replacement.

Date: June 17, 2026

Property Manager: District of Rainy River Services Board

Changes are hereby incorporated as part of the Contract

Addendum: Revision to original Request for Proposal

Currently Reads:

Part 2 – Scope of Work

2.1.1 n/a

2.1.2 The requirements are to provide all materials, labour, equipment, services and incidentals to complete the following:

(i) Replace all components related to 7 VAVs (VAV 17 through 23 on drawings) including thermostats, sensors, valve assemblies, actuators and control interfaces;
(ii) Complete load balancing of system; and
(iii) Replace front-end control and graphics package (HMI), compatible with new and existing HVAC components, with the following minimum requirements:

Change to:

2.1.2 The requirements are to provide all materials, labour, equipment, services and incidentals to complete the following:

(i) Replacement of the 7 VAVs cfm control and heating solenoids. (VAV 17 through 23 on drawings).

(ii) Complete CFM balancing of (VAV 17 through 23 on drawings); and

~~**(iii) Replace front-end control and graphics package (HMI), compatible with new and existing HVAC components, with the following minimum requirements:**~~

If you have any questions please contact Dana Kaliska, Project Coordinator at (807) 274-5349 ext. 223.

Please note receipt of Addendum #1 in Schedule 1 – Proponent Acknowledgements

Siebe Environmental Controls
1354 Clifford Avenue (Zip 61111)
P.O. Box 2940
Loves Park, IL 61132-2940
United States of America

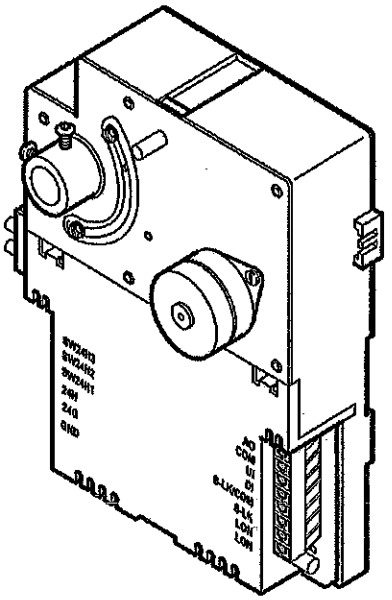
A Siebe Group Company

MNL-V1RVX
MNL-V2RVX

I/A Series® MicroNet Variable Air Volume Controllers Installation Instructions

Application

I/A Series MicroNet MNL-V1RVX and MNL-V2RVX VAV Controllers are interoperable LONMARK®-compliant variable air volume controllers. These controllers provide pressure independent control for cooling and reheat applications. They feature a built-in actuator with over-the-shaft damper mounting, an integral velocity pressure transducer, LED indication, support for an MN-SX digital sensor, push-button manual override, mechanical position indication, and an easy-to-set mechanical travel limit. They function in standalone mode or as part of a MicroNet LonWorks network using the integral FTT-10 Free Topology communications transceiver. A direct connection to a WPA-LON Work Place Communication adapter and a PC with Work Place Tech Tool software is necessary to download and modify applications.



MNL-V2RVX

Model Chart

Model		MNL-V1RVX[a]	MNL-V2RVX[a]
Inputs/ Outputs	Digital Inputs	1	1
	Digital Outputs	0	3
	Universal Inputs	1	1
	Analog Outputs	0	1
Control Strategies	Box Configuration	Cooling	• Cooling • Series Fan • Induction • Parallel Fan • None
	Reheat Type	None	• Staged Electric • Time Proportioned • Floating/ Proportional Hydronic Reheat • None
	Other	None	• Occupancy • Satellite

[a]VX denotes LONMARK VAV (Variable Air Volume) profile and profile version number.

Printed in U.S.A. 9-98

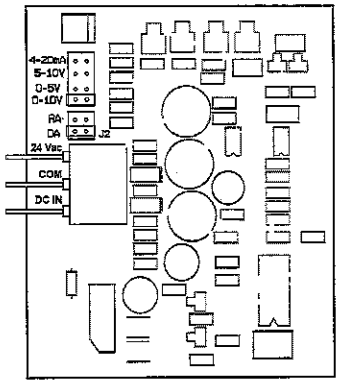


Figure-9 Typical Wiring of 3-Wire Proportional Spring Return Valves

Application Notes

The valves are designed for application to closed hydronic heating and cooling systems. Use in systems which have substantial make-up water (open systems) is not recommended. High levels of dissolved oxygen, chlorine, and debris that may be found in open systems can attack the valve materials and result in premature failure.

Three-Wire Floating "T" Type Actuator

The controller or thermostat used to operate the three-Wire floating actuator must be configured to turn off the control signal after being on continuously for three minutes.

Three-Wire Floating Time-out "T" Type Actuator

If the control system does not have the ability to limit the running time, then the time-out option must be utilized. This automatically cuts off the control signal to the valve after three minutes of continuous operation. This is standard on the spring return actuator, and is an option on the non-spring return actuator.

Proportional "P" Type Actuator

Multiple proportional valves may be connected to a single controller up to the current rating of the controller and transformer. For 4 to 20mA control, a separate isolation transformer must be used with each valve. The actuator is also provided with a jumper to allow the action to be reversed. All units are shipped with the actuator in the DA (direct acting) mode. This means the valve opens the B port upon receiving an increasing control signal. To change the action to reverse acting (valve closes upon receiving an increasing control signal), simply remove the action jumper and relocate it to the RA (reverse acting) pins.

CHECKOUT

1. Make sure the valve operates freely before installing the valve.
2. If the stem does not operate freely, it may indicate that the stem was damaged and may require that the valve be repaired or replaced.
3. After the piping is under pressure, check the valve body and the connections for leaks.
4. After the valve and actuators are installed, power the actuator and check operation.

- **Two-way Model:**

  Power the valve to the close position (per label), and the "B" port should be closed.

- **Three-way model**

  Power the valve to the open position (per label) and the "A" port should be closed.

THEORY OF OPERATION

The PopTop Series floating or proportional valves are modulating valve actuator assemblies. The modulating valves are designed to control the flow in the circuit by making incremental adjustments to the flow path within the valve.

The spring return PopTop Series modulating valves, when powered, move the actuator to the desired position, at the same time tensing the spring return system. When power is removed for more than two seconds, the spring returns the actuator to the normal position.

MAINTENANCE

The modulating PopTop Series valves require no maintenance. Regular maintenance of the total system is recommended to assure sustained, optimum performance.

FIELD REPAIR

Replace any damaged or failed components with complete body or actuator replacements.

TAC
1354 Clifford Avenue
P. O. Box 2940
Loves Park, IL 61132-2940
www.tac.com

TAC Erie™ VM Series Poptop™ Series Modulating Valves

Floating "T" & Proportional "P" Standard and Spring Return Modulating Valves

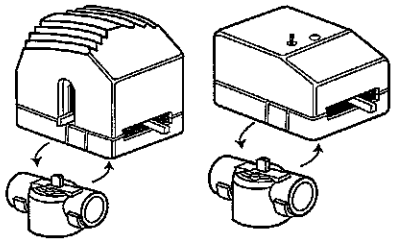
Installation Instructions

SPECIFICATIONS

Inputs

Floating Actuator			Control Circuit, Max.		Total Actuator, Max.	
					Powerup Inrush[a]	Running
Series	Action	Vac	mA	VA	VA	VA
AT13A00T	Spring Return	24 Vac +25%/-15% 50/60 Hz	24	0.6	10	1.9
AT23A00T			24	0.6		1.9
AT33A000	Non-spring Return		—	—	1.0	1.0
AT33A00T			—	—	1.2	1.2

[a] Transformer must be sized for Powerup Inrush.



Spring Return Non-Spring Return

Proportional Actuator			Control Circuit, Max.	Total Actuator, Max.	
				Powerup Inrush[a]	Running
Series	Action	VAC	Range (Rin)	VA	VA
AP13A000	Spring Return	24 Vac +25%/-15% 50/60 Hz	[b]0-10Vdc (>200K)or 0-5Vdc (>200K) or 5-10 Vdc (>200K) or 4-20 mA (300)	10	1.7
AP23A000					
AP33A000	Non-spring Return			1.7	

[a] Transformer must be sized for Powerup Inrush.
[b] Factory supplied. Actual Range is 1-9 Vdc.

Outputs

Electrical:

Stroke, 60 Hz: 2 minutes 30 seconds.
50 Hz: 3 minutes.
Action, T series: Direct acting. P series: Direct acting (Valve opens B port with increase in signal). Field selectable reverse acting.

Mechanical:

Manual Override, Allows manual positioning.
Operating Pressure Limits, 300 psi (2068.4 kPa) static pressure.
Material:
Actuator: High temperature plastic.
Valve: Body: forged brass; Stem: chrome-plated brass; Seat: brass; Plug/paddle: high temperature thermoplastic/rubber.
Flow Characteristic, 1.0 to 4.0 Cv: Equal percentage. 7.0/8.0 Cv: Linear.

Environment

Ambient Temperature Limits:
Shipping & Storage, -40 to 158°F (-40 to 70°C)
Operating, 35 to 125°F (1.7 to 52°C).
Fluid, 32 to 200°F (0° to 93°C) (not steam rated).
Humidity: 5 to 95% RH, non-condensing.
Seat Leakage: ANSI class IV (0.01%)
Shipping Weight: 1.9 lbs (860 g), actuator and valve body.
Location: NEMA Type 1.

Agency Listings:

UL 873: Underwriter Laboratories (File #E9429 Category Temperature-Indicating and Regulating Equipment), Class 2.
CUL: UL Listed for use in Canada by Underwriters Laboratories. Canadian Standards C22.2 No. 24.
European Community: EMC Directive (89/336/EEC)
Australia: This product meets requirements to bear the C-Tick Mark according to the terms specified by the Communications Authority under the Radiocommunications Act 1992.

INSTALLATION

Inspection

Inspect package for damage. If damaged, notify the appropriate carrier immediately. If undamaged, open package and inspect the device for obvious damage.
Return damaged products.

Requirements:

- Tools (not provided):
  - — Wrench 1 to 1-5/8" (if threaded valve)
  - — Soldering equipment (if sweat fit)
  - — Pipe wrench according to pipe size (if threaded)
  - — #1 Phillips head screw driver
  - — Volt-ohm multimeter
- Training: Installer must be a qualified, experienced technician
- Other accessories as appropriate

Precautions:

- Electrical shock hazard! Disconnect power before installation to prevent electrical shock or equipment damage.
- Make all connections in accordance with the electrical wiring diagram and in accordance with national and local electrical codes. *Use copper conductors only.*

◆CAUTION

- Avoid locations where excessive moisture, corrosive fumes, explosive vapors, or vibration are present.
- Avoid electrical noise interference. Do not install near large conductors, electrical machinery, or welding equipment.