

## INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS

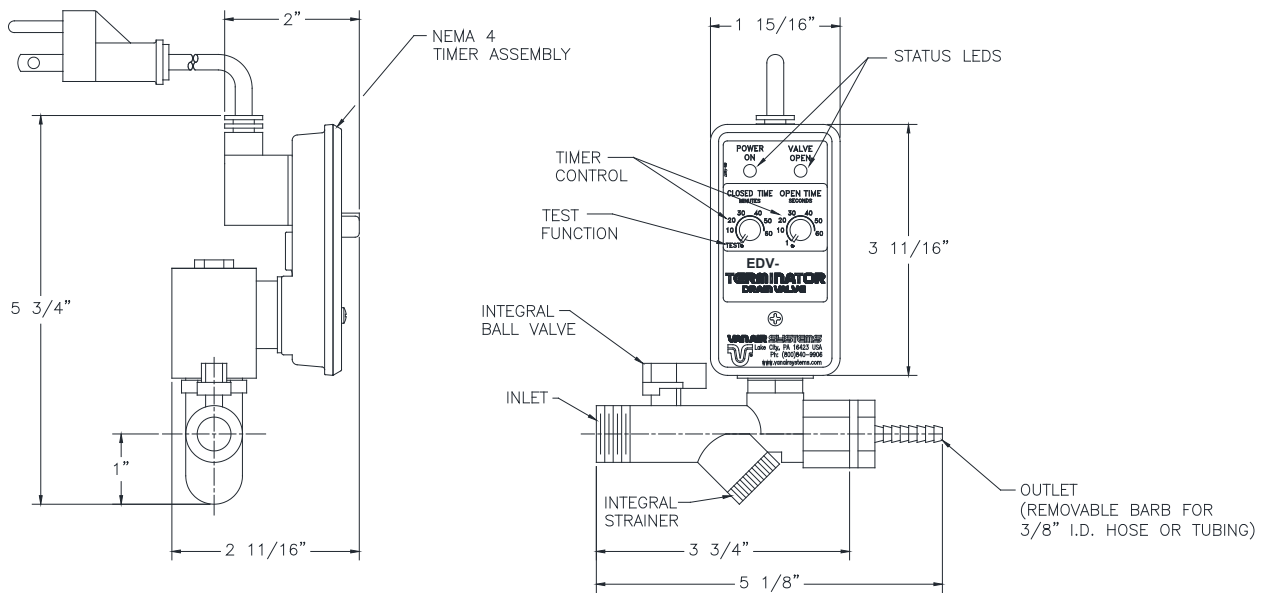
# TERMINATOR™

## ELECTRONIC DRAIN VALVE Model EDV-115, 230, & 12VDC

### PRODUCT PURPOSE & FUNCTION:

Van Air's EDV series drain valves are designed to remove accumulated fluids from compressed air & gas processing equipment. With variable open time (1-60 seconds) and variable closed time (1-60 minutes), users can easily adjust the valve to drain the required amount of accumulated fluids. Power on and valve open status lights, as well as a built-in override/test function, give quick verification of valve operation.

**FIGURE 1 SPECIFICATIONS**



Van Air Part No.	Dual Inlet Connection Size (NPT)	Outlet Connection Size (NPT)	Orifice Size	Electrical (V/PH/Hz)	Current (Amps)	Working Pressure Range (psig/bar)	Fluid Temp Range (°F/°C)	Ambient Temp Range (°F/°C)	Approx Weight (lbs/Kg)
39-10507	1/4"(F) 1/2"(M)	1/2"(F)*	9/64"	115-1-50/60	.228	0-230/0-16	32-176/0-80	32-176/0-80	1.7/.76
39-10508	1/4"(F) 1/2"(M)	1/2"(F)*	9/64"	230-1-50/60	.115	0-230/0-16	32-176/0-80	32-176/0-80	1.7/.76
39-10509	1/4"(F) 1/2"(M)	1/2"(F)*	9/64"	12VDC	.930	0-230/0-16	32-176/0-80	32-176/0-80	1.7/.76

\* REMOVABLE 1/2"NPT X 3/8" I.D. HOSE BARB INCLUDED

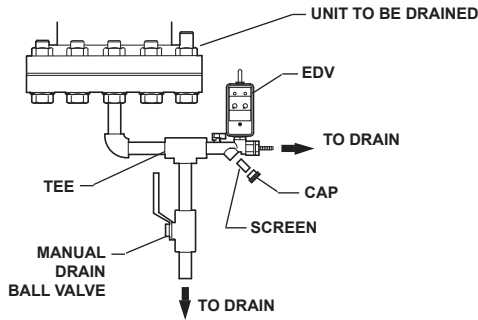
## WARNING

- READ INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS DRAIN VALVE.
- DO NOT OPERATE LEAKING OR DAMAGED VALVES. REMOVE THEM FROM SERVICE IMMEDIATELY.
- DO NOT OPERATE VALVE ABOVE MAXIMUM OPERATING PRESSURE AND/OR MAXIMUM TEMPERATURE.
- MAKE SURE NEMA RATING OF VALVE IS COMPATIBLE WITH THE INSTALLATION ENVIRONMENT. FAILURE TO DO SO MAY RESULT IN SERIOUS PERSONAL INJURY AND/OR DAMAGE TO THE UNIT.
- WHEN INSTALLING THIS UNIT, COMPLY WITH THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES.
- DRAIN SOLUTION MAY CONTAIN LUBRICANTS AND/OR HAZARDOUS MATERIALS. BE SURE TO COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING THEIR DISPOSAL.
- NOT FOR USE ON SINGLE TOWER (DELIQUESCENT) DRYERS OR WITH CORROSIVE LIQUIDS.

## INSTALLATION

1. Relieve and lock out all pressure from drain line.
2. Clean existing drain line of any pipe scale, weld spatter and accumulated debris.

**FIGURE 2 RECOMMENDED INSTALLATION**



3. Install a tee in the drain line. (Reference Figure 2).
4. From the vertical tee outlet, install a manual drain valve to allow the system to be drained during EDV servicing.
5. On the horizontal tee outlet, install the EDV drain valve. Reference flow direction arrows on side of valve body.

### CAUTION

**IF THE EDV IS INSTALLED BACKWARDS, IT WILL NOT WORK.**

6. Close the manual and integral ball valves.
7. Adjust timer knobs to desired settings (Reference Timer Adjustment Section).
8. Wire or plug the valve into the appropriate grounded power supply. The "POWER ON" light should now be illuminated.
9. Open the integral ball valve. The EDV is now in service.

## TIMER ADJUSTMENT

Set the valve open time & valve closed time control knobs to conform to the desired draining schedule. Note that the "VALVE OPEN" light is illuminated whenever the valve is open.

## TEST FUNCTION

To verify valve operation, or to manually discharge fluid, turn the "CLOSED TIME" knob counter clockwise until it stops in the area labeled "TEST". The valve will open for the set "OPEN TIME". After the valve closes, it will automatically repeat the test in 2 seconds unless the "CLOSED TIME" knob is reset to its regular position.

## REQUIRED MAINTENANCE

The integral strainer must be cleaned periodically to ensure proper valve performance. The time between cleanings will vary depending operating conditions. Remove cap to access screen for cleaning. (Reference Figure 2).

## WARNING

**NEVER REMOVE OR REPLACE ANY PART ON EDV WHILE IT IS PRESSURIZED. CLOSE INTEGRAL BALL VALVE AND DEPRESSURIZE DRAIN LINE USING EDV TEST**

## REPLACEMENT PARTS

REPLACEMENT	EDV-115	EDV-230	EDV-12DC
TIMER	39-10511	39-10512	39-10513
VALVE	291-00017	291-00018	291-00019
POWER CORD	500-00002	500-00003	500-00002

## TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Valve not operating ("POWER ON" light is off)	Power to valve turned off or interrupted. Printed circuit board malfunction.	Check electrical connections. Make sure that the drain valve is not installed on a switched power supply line. Replace timer assembly.
Valve not operating ("POWER ON" light is on)	Excessive drain line pressure. Valve plugged with debris. Valve installed backwards. Printed circuit board malfunction. Valve malfunction.	EDV drain valve has a 230 PSIG maximum working pressure. Clean or replace valve. Verify proper flow direction. Replace timer assembly. Replace valve.