

SPECIFICATIONS

Timer

Solid state construction
 STATUS INDICATION : Power `ON`, Valve `OPEN`
 INTERVAL TIME : 0.5 to 45 Min. (as required)
 DISCHARGE TIME : 0.5 to 10 Sec. (as required)
 ELECTRICAL CONNECTION : DIN 46242 CONNECTOR
 4 - position connector

Timer and Solenoid

INSULATION : CLASS - F 130° C
 PROTECTION : IP65 including connector
 TEMPERATURE RANGE : -20° C to +150° C
 Standard voltage : 220V, 50Hz 12, 24, 110 AC/DC on Request.

Valve

2-way normally closed
 PRESSURE RANGE : 0 to 10 kg/cm² g (150 psig)
 (Available upto 90Kg/Cm²)
 TEMPERATURE RANGE : Ambient -10° C to +50° C
 Fluid : -10° C to +140° C
 LUBRICATION : Not required
 MEDIA : Air, gases, water, oil etc.
 CONSTRUCTION MATERIALS : Tube / plunger - S.S. 304 / 410
 Spring : S.S. 304
 Body : Brass / Aluminium
 SEAL MATERIAL : Nitrile, Viton on request.

Note:

If there is any possibility of contact with corrosive material then it is advisable to contact our Technical Sales Department prior to installation.



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Compressed Air Treatment Product

ProAir

**ELECTRONIC
 DRAIN VALVE**

**INSTALLATION
 OPERATION
 &
 MAINTENANCE
 INSTRUCTIONS**



EDV - 01 to EDV - 08

The **ProAir** ELECTRONIC DRAIN VALVE is designed to provide a means for the automatic drainage of filter bowls, separators, receivers and other components where condensate and contaminants collect. An ELECTRONIC TIMER is interfaced with the SOLENOID DRAIN VALVE and is easily installed to provide trouble free operation. The unit can be set within a useful range of interval and discharge timers to suit your particular requirements.

FEATURES

- * Electronic timer for long life and reliability.
- * Externally adjustable interval timing with variable discharge time.
- * LED indicators show operational status.
- * Variable discharge capacity.
- * Self cleaning valve.
- * Standard electronic connection.
- * Protection Class Ip55
- * Simple to install

WARNING

Compressed air can be dangerous. Safety precautions must be observed. Before commencing any work on compressed air equipment make sure the Internal pressure has been completely vented to the atmosphere. If the power supply to the drain valve is not disconnected before disassembly, serious personal injury and damage to the valve could result.

INSTALLATION

If the air treatment equipment to be drained does not have a sump or reservoir then a drip-leg should be fitted at the drain location.

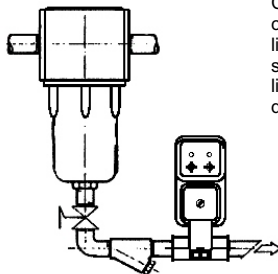
A simple shut-off valve can be fitted upstream of the Electronic Drain Valve to isolate the unit during servicing.

Where a system is known to be contaminated by pipe scale or any other heavy particles, it is recommended that a strainer should be installed between the shut-off valve and Electronic Drain Valve.

The SOLENOID VALVE BODY MUST BE HORIZONTALLY MOUNTED AND SECURED ON A SUITABLE BRACKET.

The flow direction is indicated by an arrow on the valve body. Close the shut-off valve. If a shut-off valve is not used, slowly vent the air system pressure to atmospheric pressure.

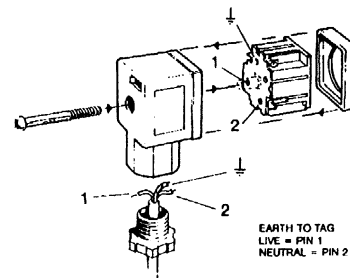
Connect the drip leg (or other air system component to be drained) to the inlet connection on the valve.



Connect the drain discharge line to the outlet connection on the valve. Run the drain discharge line to a suitable drain or Oil/Water Separator system. If flexible tubing is used, secure the drain line to prevent it from "whipping" when the drain discharges.

Connect the power supply to the standard plug, by disassembling the plug and connecting the live, Neutral and Earth wires to the correct terminals on the plug.

The power supplies for the solenoid are 240V 50 Hz or indicated on the solenoid coil.



Plug the timer unit into the solenoid unit and the cable plug onto the timer. Insert and tighten the screw. ENSURE THE CORRECT VOLTAGE is supplied and turn on the power.

Adjust the upper dial to control the interval time and the lower dial to control the valve open period. LED's indicate power supply and solenoid operation. Open the shut-off valve, or pressurise the system to the operating pressure (max 16 kg/cm² 230 psi g).

Set the timer for required operating cycle (0.5-45 mins interval knob). Select the 'blow-off' time of the valve with the 'on-time' knob" (0.5-10 sec). The timer is properly set when, at the open period, the liquid is drained with minimal air loss.

If air vents more than a few seconds, set interval time for a longer cycle or shorten the "on-time" period.

If liquid is still present as the valve closes. Set interval the timer for a shorter cycle or increase the "on-time" period.

Proper adjustment of the valve timer will give the optimum performance with efficient operation.

MAINTENANCE

The Electronic Drain Valve drains liquid through a 3 mm diameter orifice. Periodic cleaning may be required under conditions of gross particle contamination.