

ZD SERIES INSTALLATION MAINTENCE INSTRUCTIONS



Part No.	Voltage	Maximum Pressure	Ambient Temperatures
ZD-1	115/1/60	250 PSIG	35F – 120F
ZD-2	240/1/60	250 PSIG	35F – 120F

WARNING! This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and / or birth defects or other reproductive harm. For more information, go to www.p65warnings.ca.gov

All electrical wiring must be carried out to the appropriate standards per local ordinances. All connections should be made with minimum of 20-gauge wire with a recommended fuse of 1 amp. The ZD series is supplied with a 115/1/60 electrical power cord suitable for North America power supplies of 120 or 240 volts.

The unit(s) complies to:

EN 50081 – 1 / 1995 EMC Generic emission standard - residential, commercial and light industry.

EN 50082 – 1 / 1995 EMC Generic emission standard - residential, commercial and light industry.

EN61010-1/A2 / 1995 Safety requirements for electrical equipment for measurement, control and laboratory use.

Installation

The ZD's valve body must be mounted in a horizontal or vertical position. Pay close attention to the valve body directional arrow on the side of the valve body. The arrow must point away from the inlet installation point and flow with the condensate direction out - see exploded view. The valve body can be rotated 360° relative to the solenoid coil and timer assembly to simplify installation. To rotate the valve body, loosen nut (L) as shown in the exploded view, rotate the valve body to the required position and re-tighten nut (L). Connect the power supply to plug connector (DIN 43650) see exploded view Fig 1. using correct voltage. (Electrical details are printed on the solenoid coil.)

Start up

With power on ZD condensate drain, open the isolating ball valve slowly and check for any air leaks. Next, set the timer marked 'ON SEC' with the timer control knob. This is the amount of time the drain is open discharging condensate. Valve open duration times are from 0.5 to 45 seconds. Next, set the timer marked "OFF MIN" with the timer control knob. This is the amount of time the drain valve will be closed. Set the "OFF MIN" duration time and are from 0.5 to 45 minutes. Adjust the timer's on / off sequence to suit particular installation requirements, i.e. quantity of condensate to be discharged. The LED's indicate which timer circuit is active.

To test the drain operation, press the 'Test' panel button. This will activate the 'On' timer circuit, opening the condensate discharge valve. This also acts as a manual override button. The condensate discharge valve will remain open as long as the 'Test' button is pressed. This action also resets the 'Off' timer circuit to the start time.

Warning!

Do not attempt to dismantle the unit if it is still connected electrically or with system pressure present. Personal injury and damage to the unit could result.

Servicing

Isolate the power supply and vent the system pressure to zero psig

To Remove the Valve Stem Assembly for Valve Cleaning / Replacing

To remove the valve stem assembly from the valve body, remove nut (L) in the exploded view below, then pull up on the coil to remove it from the stem assembly. Next, remove the stem assembly from the valve body by unscrewing at the base of the stem at the valve body. Turn the nut counter clockwise to unscrew the valve stem assembly. Once apart, make sure the pilot assembly inside the valve stem moves freely with the spring tension on it. If it does not replace the valve assembly with pat number 746-110AOP/1. To reassemble the valve stem assembly, Place assembly on valve body and turn clockwise to tighten. Next, place the gasket onto the stem and then the coil. Lastly, place the gasket on top the coil that goes under the nut (L) in figure 2. Place the nut onto stem and tighten clockwise.

TECHNICAL DATA

SPECIFICATION		
Timing Cycle Range	T1 / Open	T2 / Closed
	0.5 - 45 seconds	0.5 - 45 Minutes
Supply Voltage	115/1/60	230/1/60
Timer Electrical Connection	Din 43650 A	
Protection	IP65 / NEMA 4	
Coil Insulation	Class H	350 Degrees F
Valve Body	2-way Normally Closed	
Inlet / Outlet Connection Size	Inlet	
	Outlet	1/8", 1/4", 3/8", 1/2" NPT-F
Ambient Temperature Range	35F - 120F Degrees	
Media	Air, Gas, Water, Oil	
Typical Installation	Air Compressors, Receivers,	Filters, drip Legs

EXPLODED VIEWS

FIG 1

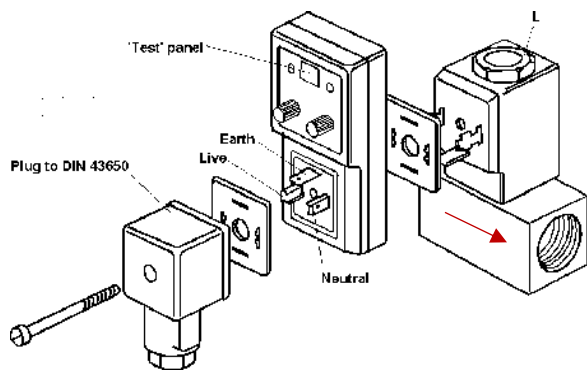


FIG 2

