# **Electronic Drain Valve 790 \*\*\*-VIS**

# Installation & Maintenance Instructions for the Electronic Drain Valve

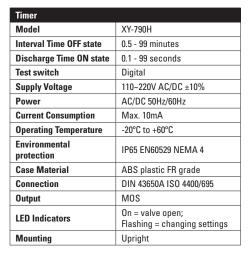
The timer controlled drain valve is designed to automatically remove condensate from compressed air systems such as air compressors, compressed air dryers and air receiver applications up to 16 bar.

The condensate can be drained in any interval in between the adjustable time cycles of 0.5 to 99 mins. The draining time can be set between 0.1 to 99 seconds.

#### Features:

- Does not air-lock during operation
- · Microswitch "Test" feature to operational readiness
- UL certified timer
- RoHS3 compliant





Timer	
Model	XY-790L
Interval Time OFF state	0.5 - 99 minutes
Discharge Time ON state	0.1 - 99 seconds
Test switch	Digital
Supply Voltage	7~36V AC/DC ±10%
Power	AC/DC 50Hz/60Hz
Current Consumption	Max. 20mA
Operating Temperature	-20°C to +60°C
Environmental protection	IP65 EN60529 NEMA 4
Case Material	ABS plastic FR grade
Connection	DIN 43650A ISO 4400/695
Output	Relay
LED Indicators	On = valve open; Flashing = changing settings
Mounting	Upright

Valve		
Model	CS-720W	
Туре	2/2 way direct acting valve	
In/Out Ports	G1/8", G1/4", G3/8", G1/2" ISO 228	
Max. Working Pressure	16 bar	
Operating Temperature	-20°C to +120°C	
Media Temperature	Up to +160°C	
Valve Body	Brass HPb59	
Environmental Protection	IP65 EN60529 NEMA 4	
Seal Material	NBR / Viton	
Supply voltage*	24~220V ±10%	
Supply power	AC/DC 50Hz/60Hz	
Mounting	Any position	

<sup>\*</sup>See coil for the correct supply voltage

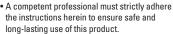
Part No	Thread	Voltage
790-01AC220-VIS	1/8"	220V AC
790-02AC220-VIS	1/4"	220V AC
790-03AC220-VIS	3/8"	220V AC
790-04AC220-VIS	1/2"	220V AC
790-01AC110-VIS	1/8"	110V AC
790-02AC110-VIS	1/4"	110V AC
790-03AC110-VIS	3/8"	110V AC
790-04AC110-VIS	1/2"	110V AC
790-01DC24-VIS	1/8"	24V DC
790-02DC24-VIS	1/4"	24V DC
790-03DC24-VIS	3/8"	24V DC
790-04DC24-VIS	1/2"	24V DC
790-02AC24-VIS	1/4"	24V AC
790-03AC24-VIS	3/8"	24V AC
790-04AC24-VIS	1/2"	24V AC

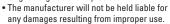
Service Parts	
Timer 110 -220V	XY-790H
Timer 24V	XY-790L
Coil AC	SB256-0543
Coil DC	SB257-0545
Valve	CS-720W
Strainer	CS-S95
Connector	SB201-1





#### WARNING







## WARNING

- Adhere to safe work instructions and engineering codes of practice with the local health, safety and environmental requirements in mind.
- This product is intended for use in industrial compressed air systems only.
- Prevent unintentional operational of the product or damage to it.
- Always depressurise the system before maintenance work is carried out



- DO NOT install in applications where pressures and temperature exceed the technical specification.
- DO NOT attempt to disassemble this product or lines in the system whilst they are under pressure.

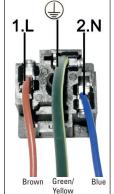


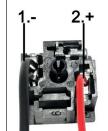
## WARNING

 When using DC (Direct Current), the positive pole (+) should be connected to connector 1.

DC:











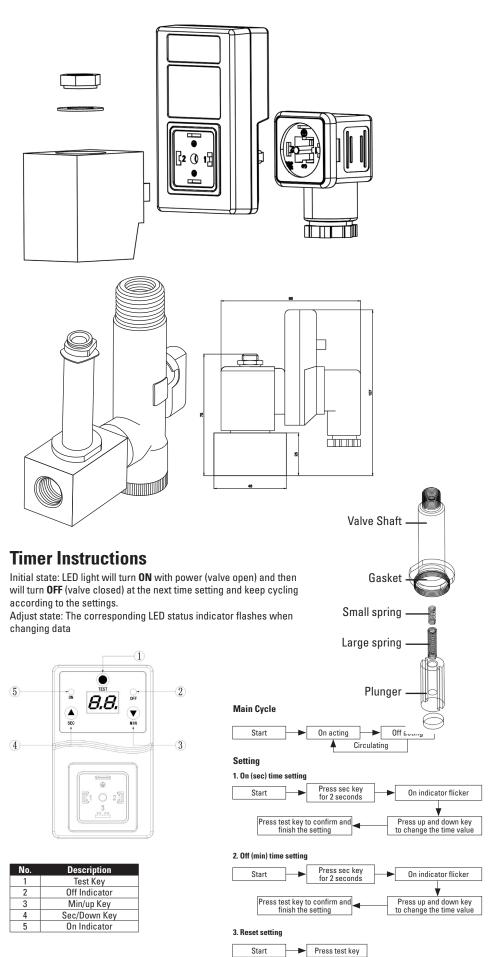






## **Electronic Drain Valve 790**

## Installation & Maintenance Instructions for the Electronic Drain Valve



## **Installation Instructions**

# $\triangle$

#### WARNING

- Make sure system is depressurised before installation to maintenance is carried out.
- Take note of the direction of the arrow on the valve. The arrow follow the flow direction of the condensate.
- Make sure gaskets are in place with no debris to ensure IP65 rating.



- Check the voltage specified on the coil and back of timer is suitable before you switch the power supply **0N**.
- Press the TEST button to check the valve function.
- An oil/water separator, reservoir or pipe line should be installed mounted on the outlet side of the valve to collect the condensate.



- **DO NOT** attempt installation or maintenance when the system is pressurised.
- DO NOT allow whiplash when the valve is open if using a hose to collect condensate.
- DO NOT overtighten valve shaft (max. torque 45 Nm).
- DO NOT use valve shaft as a lever.

## **Cleaning Instructions**



### WARNING

- Make sure system is depressurised before insallation to maintenance is carried out.
- Press the TEST button to empty the unit of any residual condensate and to depressurise the valve.
- Switch **OFF** electrical supply. Check power is switched **OFF** before cleaning.
- Unscrew valve top nut, remove connector, timer and coil assembly from valve shaft.
- Unscrew valve shaft, clean all the valve parts, body and shaft.
- Inspect components, if any are damaged then replace them before reassembly.
- Reassemble the inner parts and shaft.
- Screw the shaft assembly back on to the valve body using wrench (max. torque 45 Nm).

  Discrete the source of the state of of t
- Place the connector, timer and coil assembly back on to the valve.
- Screw back on the top nut making sure gasket are in place properly with no debris to ensure IP65 rating.
- Switch back on the electrical supply
- Slowly open the ball valve to restore normal system pressure.
- Press the TEST button to check the valve function.



- **DO NOT** attempt installation or maintenance when the system is pressurised.
- DO NOT overtighten valve shaft (max. torque 45 Nm).



### WARNING

 Local instructions for Waste Electrical and Electronic Equipment recycling (WEEE) to be applied.