

Electronic Drain Valve 728-A-790

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:

- Integrated shut off valve for isolation saving time during installation and maintenance
- Mesh strainer for valve and orifice protection from larger particles in condensate
- Does not air-lock during operation
- Microswitch "Test" feature to operational readiness
- UL certified timer
- RoHS3 compliant



Technical Specification

Timer	
Model	XY-790H
Interval Time OFF state	0.5 - 99 minutes
Discharge Time ON state	0.1 - 99 seconds
Test switch	Digital
Supply Voltage	110~220V AC/DC ±10%
Power	AC/DC 50Hz/60Hz
Current Consumption	Max. 10mA
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	MOS
LED Indicators	On = valve open; Flashing = changing settings
Mounting	Upright

Valve	
Model	CS-728A
Type	2/2 way direct acting valve
In/Out Ports	ISO 228 Dual Inlet G1/4" & G1/2" Outlet G1/2"
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

*See coil for the correct supply voltage

WARNING

⚠️ A competent professional must strictly adhere to the instructions herein to ensure safe and long-lasting use of this product.

📖 The manufacturer will not be held liable for any damages resulting from improper use.

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

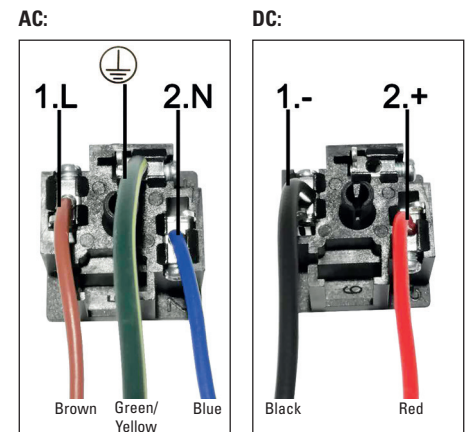
Timer	
Model	XY-790L
Interval Time OFF state	0.5 - 99 minutes
Discharge Time ON state	0.1 - 99 seconds
Test switch	Digital
Supply Voltage	7~36V AC/DC ±10%
Power	AC/DC 50Hz/60Hz
Current Consumption	Max. 20mA
Operating Temperature	0°C to +80°C
Environmental protection	IP65 EN60529 NEMA 4
Case Material	ABS plastic FR grade
Connection	DIN 43650A ISO 4400/695
Output	Relay
LED Indicators	On = valve open; Flashing = changing settings
Mounting	Upright

Part No	Dual Inlet Port Size	Outlet Port Size	Voltage	Timer
728A790-04AC220	G1/4" & G1/2"	G1/2"	220V AC	XY-790H
728A790-04AC110	G1/4" & G1/2"	G1/2"	110V AC	XY-790H
728A790-04DC24	G1/4" & G1/2"	G1/2"	24V DC	XY-790L
728A790-04AC24	G1/4" & G1/2"	G1/2"	24V AC	XY-790L

Service Parts	
Timer 110 -220V	XY-790H
Timer 24V	XY-790L
Coil AC	SB256-43
Coil DC	SB257-45
Valve	CS-728A
Connector	SB201-1

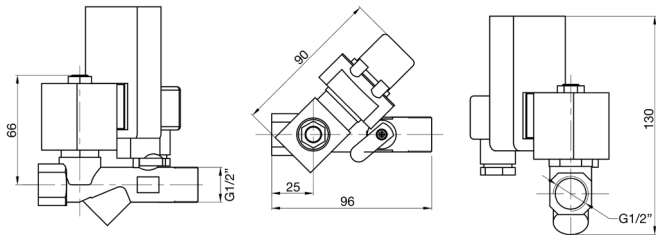
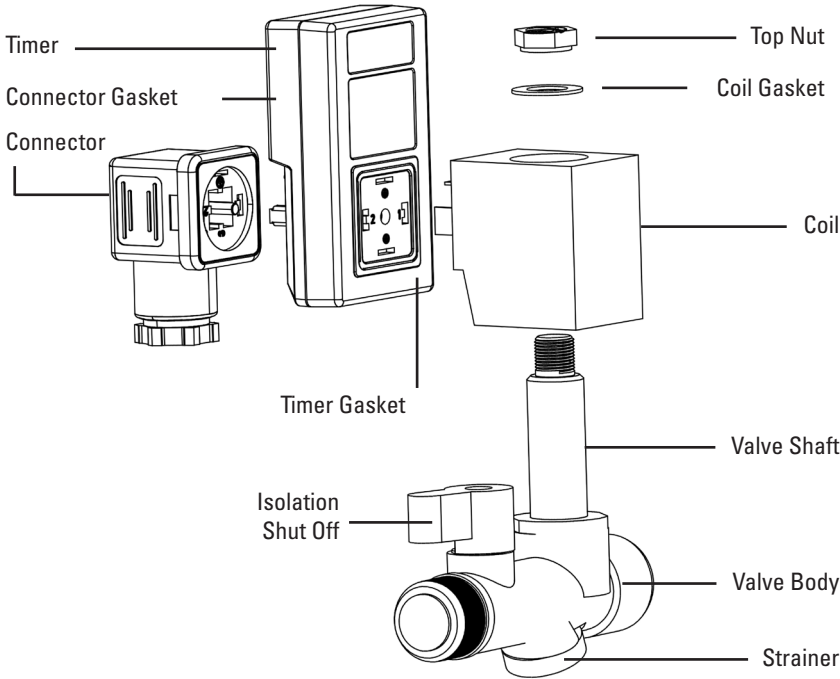
WARNING

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



Electronic Drain Valve 728-A-790

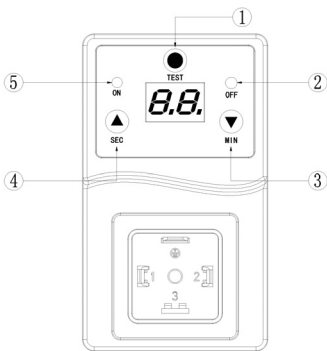
Installation & Maintenance Instructions for the Electronic Drain Valve



Timer Instructions

Initial state: **LED** light will turn **ON** with power (valve open) and then will turn **OFF** (valve closed) at the next time setting and keep cycling according to the settings.

Adjust state: Press **SEC** key for 2 seconds and the corresponding **LED** status indicator flashes when changing data. Press **UP** and **DOWN** arrows to change time value and press **TEST** key to confirm and finish setting. To reset press **TEST** key.



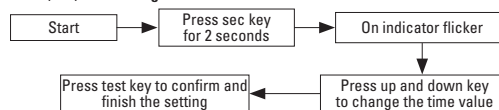
No.	Description
1	Test Key
2	Off Indicator
3	Min/up Key
4	Sec/Down Key
5	On Indicator

Main Cycle

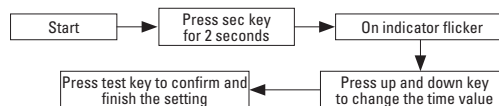


Setting

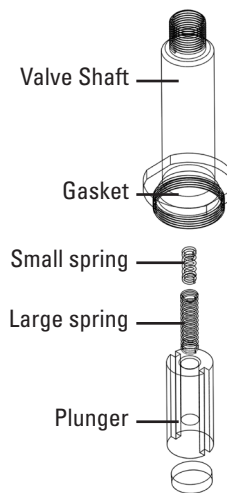
1. On (sec) time setting



2. Off (min) time setting



3. Reset setting



Installation Instructions



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 **ON**.
- 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).
- 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.