SQUIBB TAYLOR

MANUFACTURED BY PARKER - PGI DIVISION

Installation and Operation Manual

CV-BOX

October 2015 *Form* IOM-CV-BOX - Rev 01

IMPORTANT: KEEP THIS DOCUMENT WITH THE PRODUCT UNTIL IT REACHES THE END USER.

1. Contact with or inhalation of Anhydrous Ammonia (NH_3) can cause SERIOUS INJURY OR DEATH.
2. Before installation or removal of any valve, the system must be purged of all product.
3. Personal Protective Equipment (PPE), safety gloves, goggles and clothing should be worn.
4. For proper handling and storage of NH_3, refer to ANSI Standard K61.1, CGA 2.1 or Local Authority having jurisdiction.
5. An abundant supply of fresh water should be available to provide immediate first aid treatment for exposure to NH_3.
6. To ensure long term safe operation, the manufacturer recommends that under normal service conditions this product should be inspected at least twice every year and be repaired or replaced as required.

WARNING: This product should be used with Anhydrous Ammonia (NH_3) only.

DESCRIPTION

The CV-BOX is designed to provide 12 VDC power to user-provided actuated valves that are attached to a stationary anhydrous ammonia (NH_3) storage tank. The CV-BOX converts 120 VAC input power to 12 VDC output power to be distributed to this valves.

With the addition of the in-line 12 VDC switch (i.e. Push Button, P/N E-STOP), the user can remotely shutdown the attached valves by removing the 12 VDC power to the valves. NOTE: Any loss of 120 VAC power in or 12 VDC power out of the CV-BOX will result in the shutdown of any attached valves.

ELECTRICAL SPECIFICATIONS

Operating Voltage:	120 VAC
Current Output:	15 A at 12 VDC
Input Cable:	5 ft. long, 14 AWG 3-conductor Cord
Output Cable:	2 ft. long, 12 AWG 3-conductor SJOOW Cord
Fuse:	20 Amp Mini-Blade

ENCLOSURE SPECIFICATIONS

Size:	12” x 12” x 6” (L x W x D)
Weight:	17-1/2 lbs.
Enclosure Material:	16 Gauge Steel
Enclosure Rating:	Weather-proof NEMA Type 4

MOUNTING INSTRUCTIONS

The CV-BOX enclosure has a NEMA Type 4 Rating and is required to be mounted in the vertical position (wiring at the bottom). The enclosure includes a mounting flange at the top and bottom with two ¼” holes on each flange accessible for wall mounting. Caution must be taken to ensure mounting screws and wall can support at least 17-1/2 lbs. of weight.

CV-BOX

While this information is presented in good faith and believed to be accurate, Individuals using this literature must exercise their independent judgment in evaluating product selection and determining product appropriateness for their particular purpose, system requirements and certifications. The manufacturer reserves the right to change product designs and specifications without notice.

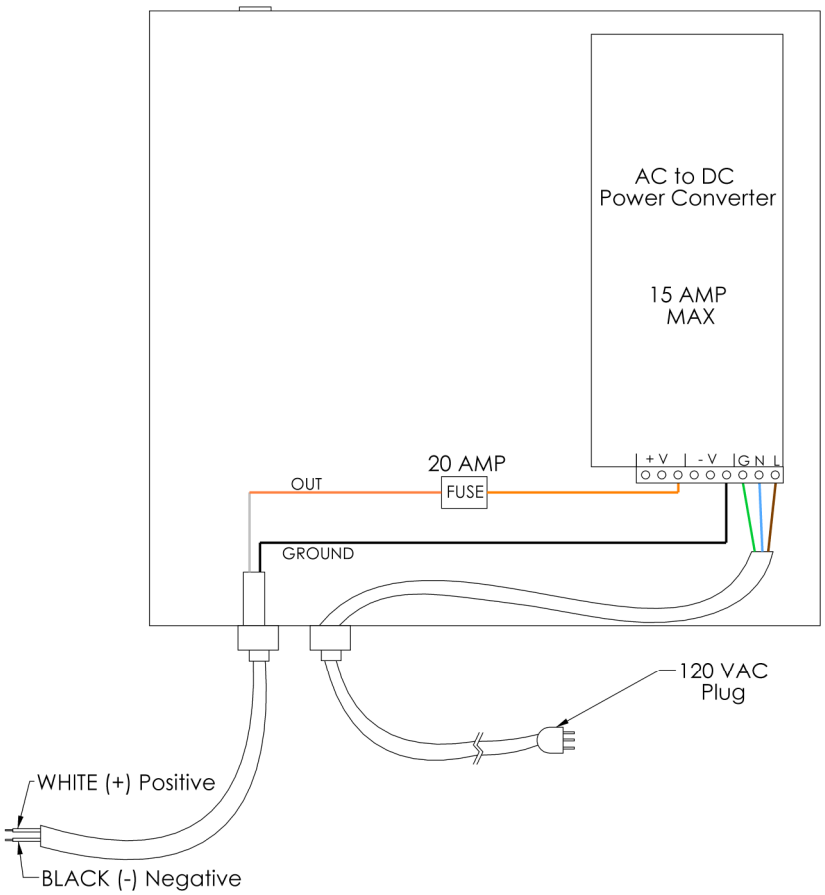
ELECTRICAL WIRING

CAUTION ELECTRIC SHOCK HAZARD	**Disconnect the AC power prior to maintenance or installation of any electronic or electrical device. Failure to do so could cause injury or death.**
WARNING	**Any changes or modifications not expressly approved by the PGI Division of Parker Hannifin Corporation could void the user's authority to operate this device.**

The CV-BOX comes internally pre-wired and ready for use. The only external connections necessary are the input power and the output connection to the valves/solenoids. Input power connection is completed by plugging in the provided 3-prong plug to a properly grounded 120 VAC receptacle. Output connection to the valves/solenoids is completed through a proper termination of the provided 12 VDC, 2-conductor 12 AWG output cord cable and the valves/solenoids to be used. Please note the WHITE wire is the positive voltage output and the BLACK wire is the negative voltage output (Figure 1).

WARNING: ALL ELECTRICAL CONNECTIONS MUST BE MADE BY A LICENSED ELECTRICIAN OR AUTHORIZED PERSONNEL ONLY. WIRE SIZE PER NFPA 70: NATIONAL ELECTRICAL CODE.

Figure 1



CONTACT SQUIBB-TAYLOR

If you have any additional questions about anything contained in this manual or desire additional copies, please call Squibb-Taylor at 1-800-345-8105 or visit www.squibbtaylor.com.