



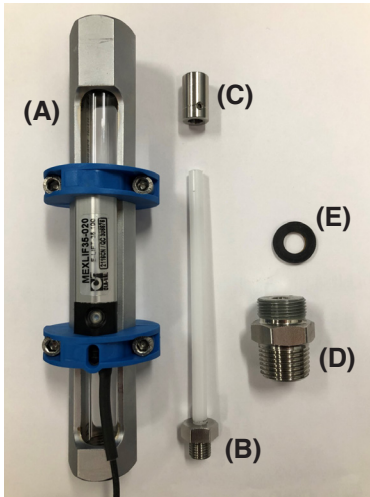
—MODEL— **X117H**

# VALVE POSITION TRANSMITTER

## PRODUCT FEATURES

The Cla-Val Model X117H Valve Position Transmitter is an accurate monitor of the valve position. Through an industry standard 4-20mA or 0-10VDC output signals, the X117H delivers the accuracy required for computer-guided control valve systems (SCADA)

## COMPONENTS



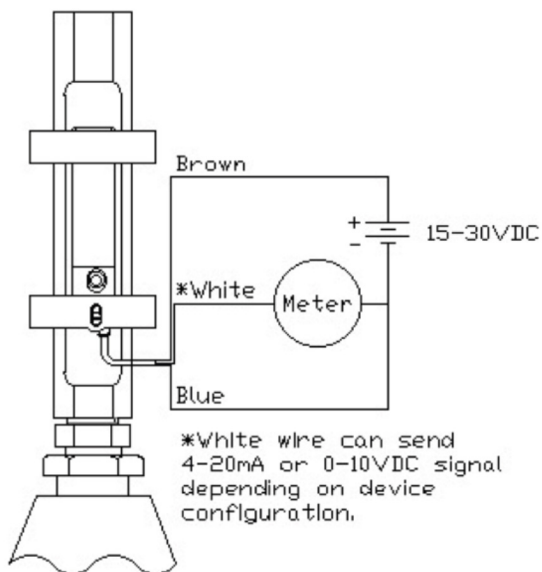
- A. X101 Visual Indicator with Bracket Mounted Position Sensor Assembly
- B. Position Indicator Stem with Valve Stem Adapter
- C. Sensor Magnet
- D. Valve Cover Adapter
- E. Rubber Gasket

## INSTALLATION



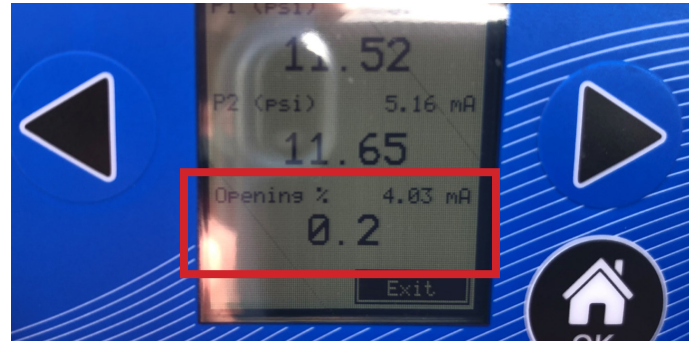
1. Isolate and de-pressurize Cla-Val control valve
2. Screw Position Indicator Stem into Valve Stem
3. Apply Teflon Tape to Threads of Valve Cover Adaptor and Install on Cover
4. Place Rubber Gasket on top of Valve Cover Adapter
5. Install Sensor Magnet on top of Position Indicator Stem. Secure by Tightening set Screw

## WIRING



6. Screw X101 Visual Indicator with Bracket Mounted Position Sensor Assembly onto Valve Cover Adapter Ensuring Rubber Gasket stays in Place.  
**Warning:** Do not over Tighten X101 Assembly

## INSTALLATION (continued)



7. De-Isolate and Pressurize Cla-Val control valve
8. Bleed air from Valve cover chamber by loosening screw on top of X101 visual indicator.



9. Wire unit per wiring diagram shown on page #1
10. Ensure unit is powered and Green Sensor LED is on
11. Loosen the four Sensor Bracket Screws
12. Slide Sensor Assembly down the X101 until the Orange Sensor LED goes out
13. Tighten the four Sensor Bracket Screws

14. Validate the approximate 4mA output with a Multi Meter or Field Device

### CALIBRATION

The Cla-Val Model X117H Valve Position Sensor is factory calibrated to output a 4 - 20mA signal representing 0 - 100% valve open for a specific Cla-Val valve model number and size. Therefore once the X117H is properly installed as per above steps there is no further calibration required.

However if required the valve can be fully opened and step 14 of the installation repeated to measure for a 20mA output indicating full stroke opening.

If the X117H Valve Position Sensor is required to be moved to a different Cla-Val model number or size, contact a Cla-Val factory for assistance.