

# Valve Position Transmitter



- Accurately Monitors Valve Position
- Environmentally Sealed to IP-68
- Featured on Electronic Control Valves
- Easy Field Adjustments
- Compact and Rugged Construction

The Cla-Val Model X117D Valve Position Transmitter is an accurate monitor of valve position. Through an industry standard 4-20 mA output, the X117D delivers the accuracy required for computer-guided control valve systems (SCADA).

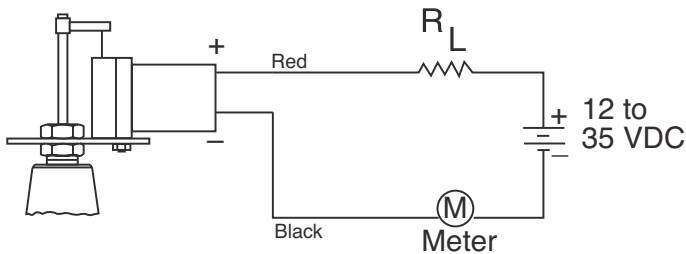
The electronic components are enclosed in a rugged, sealed aluminum and stainless steel housing. The assembly is mounted externally on the cover of a Cla-Val main valve. An extension of the valve stem projects outside of the cover at the center boss and is mechanically linked to the electronic components with an extensible wire rope.

As the valve stem rises and lowers, the X117D provides an output signal in direct proportion to the valves position. An internal spring maintains constant tension on the wire rope for virtually no hysteresis error throughout valve stroke.

## Wiring Diagram

The signal from the position sensing mechanism wire rope is converted to a two-wire 4 to 20 mA current output. The voltage compliance range is 14 to 35 VDC. The required, but not supplied, maximum load resistance can be calculated using the following formula:

$$R_L \text{ Max.} = \frac{V_{\text{supply}} - 12.5}{.020}$$



## Typical Installation

The X117D Valve Position Transmitter can be used to transmit valve position to the optional 131VC-3 Electronic Valve Controller.

