

# Valtek Beta Positioners for Control Valves

## General Information

This bulletin contains instructions for installing, calibrating, troubleshooting, and performing maintenance as required for the Valtek® Beta Positioner mounted on control valves.

Instructions for maintaining and calibrating the NT 3000 LP module are contained in Installation, Operation, Maintenance Instructions 47, NT 3000 Series Electro-pneumatic Transducer Module. For calibration and maintaining the remote LP see Installation, Operation, and Maintenance Instructions 30, Electro-pneumatic Transducer.

Product users and maintenance personnel should read thoroughly and follow exactly the instructions contained in this bulletin prior to operation of the positioner. If there is any question concerning this bulletin, call your Valtek representative.

To avoid possible injury to personnel or damage to equipment, **WARNING** and **CAUTION** notes must be strictly adhered to. **Modifying this product, substituting non-factory or inferior parts, or using maintenance procedures other than outlined could drastically affect performance, be hazardous to personnel and equipment, and may void existing warranties.**

**NOTE:** Numbers in parentheses correspond to the part item numbers in Figure 1.7.

## Beta Positioner Overview

The Valtek Beta Positioner is available with either a pneumatic (P/P) module for air control signals or an electro-pneumatic (LP) module for milliamperes electrical control signals. It is double-acting, capable of supplying air to either side of the actuator piston while exhausting the other side to the atmosphere.

The Valtek Beta positioner can be interchanged with the BPR and XL positioners without changing the brackets or takeoff arms.

The Beta Positioner with LP module is intrinsically safe for FM/CSA class 1, division 1, groups A, B, C, and D; class II, groups E, F, and G, and CENELEC EEx ia Iic, when installed with the appropriate energy limiting safety barriers (See Figure 1). It is also explosion proof for FM/CSA class II, groups E, F, and G, and CENELEC EEx d Ib = H<sub>2</sub>. Since the positioner is insensitive to supply pressure changes and can handle supply pressures from 30 to 150 psi a supply regulator is usually not required; however, an air filter is highly recommended.

**NOTE:** The air supply should conform to ISA Standard S7.3 (a dew point at least 15°F below ambient temperature, particle size below 5 microns, oil content not to exceed 1 part per million).

## Positioner Operation

The Beta Positioner is a force-balanced instrument. Figure 2 shows a Beta Positioner, with either a pneumatic or electro-pneumatic (LP) module, installed on a double-acting actuator for air-to-open action. Positioning is based on a balance of two forces; one proportional to the instrument signal and the other proportional to the stem position.

With the LP model, the current signal is first converted to a 3-15 psi air signal. For the pneumatic model, the 3-15 psi signal is passed directly into the positioner. The pressure signal acts upon the diaphragms in the instrument signal capsule creating a downward force. The motion of the actuator stem is transmitted to the top-end of the feedback spring through the follower arm and cams. As a result, tension in the feedback spring will vary as the stem position changes.

# Beta Positioner Manual

**Lingsheng Yao**



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