

## DATA SHEET

### VALVE POSITIONER

#### INTRODUCTION

SBK Instrumentation makes Valve Positioner is basically an Electronic Instrument intended for continuous Process Control application. This accurate, reliable and stable instrument is available with input like resistance, mA, mV, etc. Multistage Quality Assurance and Worst Case Proven design resulting into highest Reliability. Miniature design consist of feed back position Indication, Fault Alarm LED indication for defect in Input Control Signal, and / or feedback Signal. Auto Manual Feature is provided to over ride control signal in case of control or feedback fault and with the help of open / close signal we can float the Control Valve to any required position. Current transmission signal is provided to sense Feedback signal for computer, PLC system etc.



**Model - VP 902**

#### FEATURES

- Valve Positioner for Single Phase or Three Phase Actuator.
- Feedback Option mA/mV/R
- Re-Transmission Output
- Auto Manual Facility
- Compact Versatile Design

#### TECHNICAL SPECIFICATIONS

- Power Supply 230V AC  $\pm 10\%$  50Hz. Optional 110v AC  $\pm 10\%$  50 Hz PI. Specify
- Control Signal(Input) 4 – 20 mA DC/ mV / Resistance (Please Specify)
- Feedback Positioner(For Actuator Position) 4 -20 mA from 2 Wire Transmitter Power supply 24 VDC Built in
- Feedback Position Indication :-  
3½ digit 0.5" height Red LED  
Range 0.0 to 100.0% open  
Resolution 0.1  
Accuracy 0.2%  $\pm 1$  digit  
Zero, Span Adjustable in the range  $\pm 10\%$
- Position Transmission 4 – 20 mA output ( self Powered) for DCS / PLC with Load capability 500  $\Omega$  max
- Control Features  
Auto / Manual Selection facility  
Open – OFF – Close Overriding feature with open / close switch in Manual Mode.  
Xsh – Sensitivity adjustment to avoid Relay chattering.  
Dead band setting provided on front to avoid actuator hunting. Range of adjustment 1 to 10%
- Fault Indication  
If Control Signal absent or less than 4 mA LED glows.  
If F.B. Potentiometer open or Wire disconnected Fault LED glows.
- Control / Calibration Adjustments
- Control Signal Zero, Span to match Actuator Travel with Feed Back Potentiometer. Location on Front
- Feed Back Pot standardization Zero, Span Potentiometer. Location – On Back Side Right Top
- Indicator adjustment - Zero, Span to adjust % opening Location On front Top
- Sensitivity Pot To avoid relay chattering Location Inside ( For Factory set)
- Dead Band Pot To avoid system hunting Adjustment Range 1 to 10% Location On Front

## TECHNICAL SPECIFICATIONS

- Retransmission Output Adjustment Location - On Back Side Left Bottom
- Size /Mounting 96\*96\*125 mm Cut out 92\*92 mm Flush Panel Mounting
- Fuse Protection Provided on Back Plate. Rating P.S.- 100 mA ,Relay – 1 Amp
- Control output Relay contact rated for 5 Amp at 230V AC resistive load.
- Power Consumption 5 VA Max
- Operating Temp. 0 - 50° C
- Relative Humidity 90% Rh Max Non-Condensing
- CMRR > 120 db
- NMRR > 80 db
- CMV 500 V DC
- Weight 1 Kg Approximately
- Recommended Calibration Check - 1 year Normal 6 months - critical applications

## Operation

- Single Phase (SP) or Three Phase (TP) Actuator
- Open/off/Close for Manual
- Open or Close in Auto Depends on Control & feedback Positioner. Also time delay & dead band Adjustment
- Fault Indication for Control absent "LED ON" and Feedback Positioner Fails "LED ON"

## APPLICATIONS

- Controlling Mechanical Position of final control element with respect to incoming command from controllers such as PID/DCS/QCS ect.

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- Due to continuous development specifications are subject to change without notice.

*Total Instrumentation under Single Roof*



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