

DATASHEET

Valve Positioner

(MODEL VP 906)

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 consists of feedback position indication, Fault Alarm LED indicator for defect in Input

Control Signal, and/or feedback Signal. Auto Manual feature is provided to override 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.



FEATURES

- Valve Positioner for Single Phase or Three Phase Actuator
- Feedback Option mA/mV/R
- Re-Transmission Output
- Auto Manual Facility
- Compact Versatile Design
- Easy Friendly operation by Keypad
- FB_A and FB_B are two inputs.
- FB_A is a **POT** input (100–235 Ω).
FB_A controls the display value.
- FB_B is the second input (4–20 mA).
The display value is compared with FB_B.

TECHNICAL SPECIFICATION

- Power Supply: 230V AC $\pm 10\%$ 50Hz Optional 110V AC $\pm 10\%$ 50Hz (Pl. specify)
- Control Signal (Input): 4–20 mA DC / mV / Resistance (Please specify)

- As per requirement Feedback Position Indication: Feedback Positioner For actuator position 4–20 mA from 2-wire transmitter, power supply 24 VDC built-in height, Red LED
 - 3½ digit, 0.5"
 - Resolution: 0.1
 - Accuracy: 0.2% ± 1 digit
- Position Transmission 4–20 mA output (self-powered) for DCS / PLC
Load capability: 500 Ω max
- Size / Mounting: 96 \times 96 \times 125 mm
- Cut out: 92 \times 92 mm Flush Panel Mounting
- Fuse Protection: Provided on Back Plate
- Rating: PS – 100%
- 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

CONTROL

- As per show in the diagram
- 5 key's operation
- Press the CTRL key to **Auto calibration**.
- Example: If the display is between 49.5 and 50.0, this is the dead band, and both relays are off.

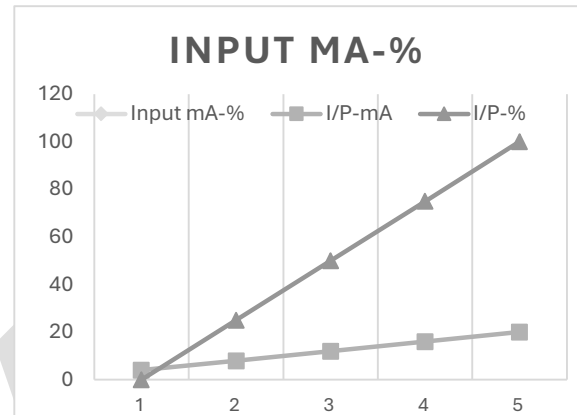
OPERATION

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

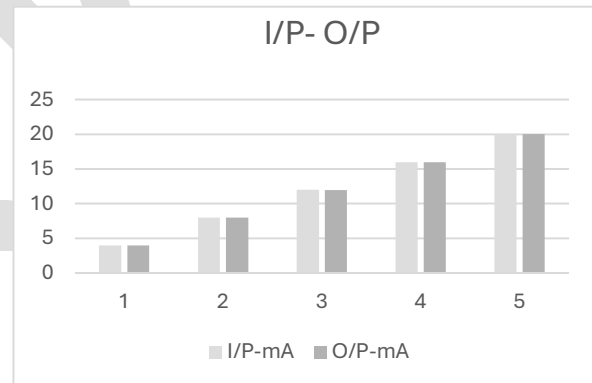
APPLICATION

- Controlling Mechanical Position Of final control element with respect to incoming command from controllers such as PID/DCS/QCS ect
- For calibration of process control instruments and systems for various industries such as cement, Chemicals, Dyestuff, Paint, Drugs, Pharmaceuticals, Sugar, Paper, Glass, Food Industries, Steel, Synthetics, Auto, Air Conditioning and Refrigeration.
- As fault finding tool.
- Quality Assurance tool for ISO 9000, QS 2000 companies for control of inspection & measurement.
- Due to continuous development specifications are subject to change without notice.

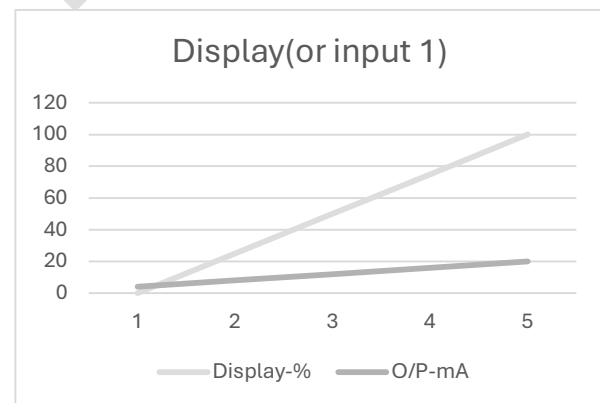
TEXT RESULT



I/P- O/P					
I/P-mA	4	8	12	16	20
O/P-mA	4	8	11.98	16.01	20.01



Display (or input 1)					
Display-%	0	25	50	75	100
O/P-mA	4	8	11.98	16.01	20.01



AUTO MODE



Auto mode display “A” and always led indication

MANUAL MODE



Manual mode display “N” and always led indication

Total Instrumentation under Single Roof

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