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SERIES 1100
CONTROL PINCH VALVE

S-1100 WITH PNEUMATIC OPERATOR
S-1100 WITH ELECTRIC OPERATOR

INSTALLATION, OPERATION, MAINTENANCE
INSTRUCTIONS

SERIES 1100 CONTROL PINCH VALVE

INSTALLATION

1. All E.V.R. Pinch Valves have standard 125/150# flat faced flanges. Other flange standards are available. Consult factory for further information.
2. For best performance, a flat faced serrated flange should be mated to the pinch valve flange face. The smooth faced flanges may not seal properly and the raised-faced flanges may damage the rubber flange.
3. Occasionally the sleeve may be longer than the housing. To install the valve in the line stroke actuator to 50% closed position (refer to Actuator I.O.M. or consult factory for details). This will tighten the sleeve against the flange plate. After installing the valve in the line, return the valve to the fully open position.
4. Whenever possible allow room on all sides of valve for maintenance of valve components. Technicians should consult separate manufacturer's operating instructions for optional components such as actuators, positioners and solenoids. Installation in a horizontal pipeline with top mounted actuator is the preferred and recommended orientation. The valve can also be used with actuator mounted below the valve, although in dirty environments this may cause wear on the actuator stem and packing.
5. Installation in a vertical pipeline may require additional support for the actuator. The Series 1100 Pinch Valve closes on centerline. This means that the actuator will rise as the valve closes. Ensure adequate clearances and if supports are used, make sure that this movement is not restricted.

OPERATION

Pneumatic

Pneumatically actuated Series 1100 Pinch Valves, supplied with control devices are preset at the factory as follows. Consult factory for other settings.

- solenoid - energize to open
- current positioner - 4mA closed and 20mA open
- pneumatic positioner - 3 psi closed and 15 psi open

Electric

Electric actuators limit and torque switches are preset at the factory to suit valve stroke.
(refer to Actuator I.O.M. and wiring diagram for on site adjustments).

CAUTION

ALWAYS TURN OFF MAIN POWER OR AIR SUPPLY BEFORE ATTEMPTING TO SERVICE OR REMOVE ACTUATORS FROM THE VALVE. REFER TO ACTUATOR AND CONTROL I.O.M. OR CONSULT FACTORY FOR DETAILS.

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MAINTENANCE

Valve Sleeve replacement

- to replace a sleeve, the entire valve must be removed from the line
- remove the bolts from the positive opening tabs
- unfasten the lower hex and hex jam nuts on the tie rod, and remove the lower pinch bar
- remove the bolts on the lower flange plates
- remove the lower half of the flange plate and remove sleeve
- install the new sleeve and follow the above steps in reverse
- various grease fittings are located on the valve body for periodic lubrication

Valve Stroke Adjustment - Pneumatic & Hydraulic

- if the valve sleeve does not close tightly after a period of time, the sleeve may be starting to wear
- loosen the jam nuts on the stroke adjustment mechanism and turn the mechanism until a tight seal in the closed position is achieved
- tighten the jam nuts and all other hardware

Valve Stroke Adjustment - Electric

- stroke the valve and reset the torque and limit switches in the actuator (refer to the Actuator I.O.M. or consult factory for details)

MAINTENANCE PARTS

It is recommended that a replacement sleeve should be ordered when the valve is placed in service

- refer to E.V.R. Drawing S1100-GA-DA-IN135 for pneumatic and S1100-GA-EA-IN135 333 for electric actuator part list.