

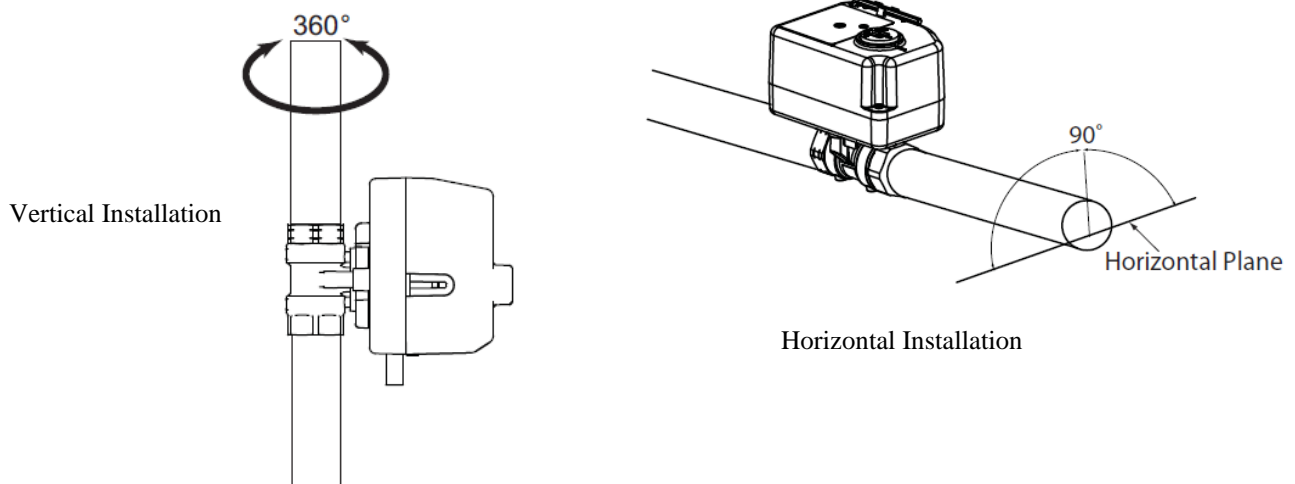


2528 Series Y-Ball Automatic Flow Control Valves

INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS

GENERAL INFORMATION

1. Clean the lines of all foreign material, (welding slag, pipe scale, dirt, thread chips etc.). Upstream installation of a strainer may be necessary in dirty systems.
2. Air should be eliminated from the system prior to startup to assure quiet operation and freedom from water hammer.
3. Hays Automatic Flow Control Valve 2528 may be installed in the pipe horizontally, vertically or any angle in between. Straight sections of pipe upstream or downstream of the Hays valve are unnecessary for proper operation. Standard reducing bushings or flanges may be directly connected to the Hays valve if required.
4. All Hays Automatic Flow Control Valves are marked with direction of flow and rate of flow.
THE FLOW ARROW MUST POINT IN THE DIRECTION OF FLOW FOR PROPER OPERATION.
5. Hays Flow Control Valves are factory assembled, and individually calibrated. The valves are warranted to be accurate within +/-10% of rated flow when properly installed.
6. Hays Automatic Flow Control Valves may be modified by using a Hays Service Kit. Contact Factory for part numbers, instructions and other details.
7. The 2528 series valves function exclusively with Schneider / Erie Pop-Top Actuators. The actuators are rated for NEMA 2 & IEC IP31 locations, the actuator should not be exposed to running or dripping water.
8. **Actuator mounting:** The valves can be mounted in horizontal or vertical piping. When installed in horizontal piping, the actuator must be above the valve body and can be tilted left or right but it must not be tilted below 90° from vertical.



OPERATION

1. For optimum operation, air entrainment in the system must be eliminated. The flow control valve must remain filled with fluid. The system must be clean and free of foreign materials.
2. The Hays Y-Ball Series Valves must only be used with fluids that are compatible with, Brass, and EPDM materials. The temperature during operation must be limited to the range of 32° F to 225° F.
3. The use of fluids having a specific gravity different from that of water will require adjustment. Valves specified for fluids other than water will be so marked and the factory calibration will take the specific fluid's properties into consideration. Operation at temperatures other than the rated temperature (60°F) or fluids whose density varies significantly from that of water may require a correction.

INSTALLATION

1. Threaded valves are provided with ½ or ¾ inch Dryseal NPT threads in accordance with ANSI STD B1.20.1 and are intended for use in Building Services Piping meeting the requirements of ASME B 31.9. Apply thread sealant to male pipe threads, starting with the second or third thread from the end, and torque the connection to 75 foot pounds per inch of pipe size minimum.
Example; (½", 0.5 X 75 = 38 ft lb. Min,) (¾", 0.75 X 75= 62.5 ft lb Min.)
2. Sweat fitting valves have their end connections formed to ANSI STD B16.22 requirements and are intended for use in Building Services Piping meeting the requirements of ASME B 31.9. The Temperature/Pressure rating of the Solder Joint is dependent upon the type of solder used. ANSI STD B16.22 Pressure Ratings should be reviewed prior to selecting a solder and sweating. Union end pieces on the valves should be removed for sweating (ball valve end is not removable). The union o'ring must be removed and stored during the operation. The outside of the tubing, and the inside of the fitting are to be mechanically cleaned and then lightly coated with solder flux. The tube is then inserted one diameter into the fitting, and the **CENTRAL PORTION OF THE VALVE BODY WRAPPED WITH A WET RAG.** Heat may be applied, either to the tubing or to the end of the fitting so as to achieve solder flow. When the parts have achieved the necessary temperature, solder is to be added to the joint and the joint allowed to cool. The heat is to be applied for the shortest time possible. The internal parts of the Hays Mesurflo 2528 are capable of continuous use at 300° F, but will be quickly damaged at higher temperatures. When soldering vertical assemblies care must be taken not to permit excess solder to drip into the valve. Heat discoloration from the sweating operation should not extend to the major diameter of the valve body. If disassembled, the valve must be reassembled in the reverse order, with all of the parts returned to their original positions. The union o-ring being the last item installed prior to tightening the union nut hand tight, followed by tightening ¼ turn with appropriately sized wrench.
(The Union Nut is shipped loose on sweat fitting 2528 Series Products.) If chlorinated flux has been used, all parts are to be flushed thoroughly to avoid premature corrosion failure.
3. The actuator should be placed on the valve and snapped into place after the valve has been completely installed and allowed to cool from soldering.
4. Wiring can then be completed in accordance with instructions provided with actuator.

MAINTENANCE

1. General maintenance is not required for Hays Flow Control Valves, however if the system experiences large amounts of pipe scale due to poor water conditions, as sometimes is found in older or retrofit systems, some may be required. Provisions should be made to keep the system clean. Proper water treatment is also recommended.
2. When assembling Mesurflo Valves after changing flow cartridges, always use new o' rings, and tighten End Cap Fitting to 50-80 In Lbs (4.2-6.7 Ft Lbs) using a ¾" open wrench.

LIMITED WARRANTY

See Hays Fluid Controls current Terms & Conditions for warranty information