2570 Series Automatic Flow Control Valves

ANSI B 16.5 CLASS 150#
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 Valves may be installed in the pipe line horizontally, vertically or any angle
   in between. Straight sections of pipe downstream of the Hays valve are unnecessary for proper operation. Standard reducing bushings or flanges may be directly connected to the Hays valve outlet if required. A STRAIGHT SECTION OF PIPE, EQUAL TO THE LENGTH OF THE INTERNAL PORTION OF THE 2570 MUST BE SUPPLIED UPSTREAM OF THE VALVE.
   The installation point in the system should permit deflection of the entering and exiting piping by one diameter, so that the valve can be serviced in the advent a flow change is desired.
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. THE VALVE NAMEPLATE, MUST BE ATTACHED TO THE INLET P/T PORT.
5. Hays Flow Control Valves are factory assembled, individually calibrated and are tamperproof once installed in the pipe. 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.

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. Hays Mesurflo valves must only be used with fluids that are compatible with, Iron, 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 fluids' properties into consideration.
4. The use of fluids having a viscosity 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 fluids' properties into consideration. Operation at a temperature other than the rated temperature may require a correction.

INSTALLATION

1. Flanged valves are intended for use in Building Services Piping meeting the requirements of ASME B 31.9 and are supplied with ANSI B16.5, 1968 , 150 lb. Raised face steel flanges. These flanges are to be connected into the piping system utilizing new ASTM A194, GR 2H, nuts, new ASTM A193 GR B7 bolts, size .75 inch, for 6 & 8 inch, size .88 inch for 10 & 12 inch, size 1.00 inch for 14 & 16 inch, and two hardened steel washers under each nut. Appropriate gasket material must be used when installing flange mounted flow control valves. The thinnest practical gasket should be used whenever possible so as to optimize the joint performance.
2. Remove the fiber board protective covering from the valve, remove the plastic flange cover from the valve outlet, remove the plastic bag from the inside of the valve. The bag contains; a second copy of this instruction sheet, nameplate, P/T Taps and Extension Kit if ordered.
3. Insert the valve into the **UPSTREAM** pipe. Use the four brass guides located on the first row of the square inner tube to center the assembly and to prevent damage to any of the individual flow cartridges.
5. A non-metallic based lubricant such as oil or graphite is to be applied to the nuts and bolts, and the assembly uniformly torqued to, 200 lbf for 6" & 8" flanges, 320 lbf for 10" & 12" flanges, or 490 lbf for 14" & 16" flanges. Bolts should be torqued in at least three even steps using a star or crossing pattern until the final torque is reached.
6. Remove the plastic cap plugs from the 1/8" tapped holes, and install the pressure or pressure/temperature taps as follows. Apply thread sealant to male pipe threads, starting with the second or third thread from the end, and torque the connection to 13 lbft. If an extension kit with name plate was specified, install the extensions first, and place the name plate on the **INLET** extension, holding it in place with the P or PT tap.

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 maintenance may be required. Provision should be made to keep the system clean. Proper water treatment is also recommended.
2. Factory calibrated, Cartridge Assemblies, may be ordered. All valves are capable of a 25% increase in flow by replacing plugs or flow cartridges. Reduction in flow is accomplished by replacing flow cartridges with plugs.

LIMITED WARRANTY

See Hays Fluid Controls current Terms & Conditions for warranty information.