



# HAYS

## Mesurflo® 2570 & 2570SS Series Automatic Flow Control Valves

### INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS

#### GENERAL INFORMATION

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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 pipeline horizontally, vertically or at any angle in between. Straight sections of pipe upstream **are** required for installation of the 2570 or 2570SS Series Mesurflo® valves. Standard flanges must be directly connected to the Hays valve.
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, 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. Flow cartridges can be changed in the 2570 and 2570SS Series Mesurflo®. 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.

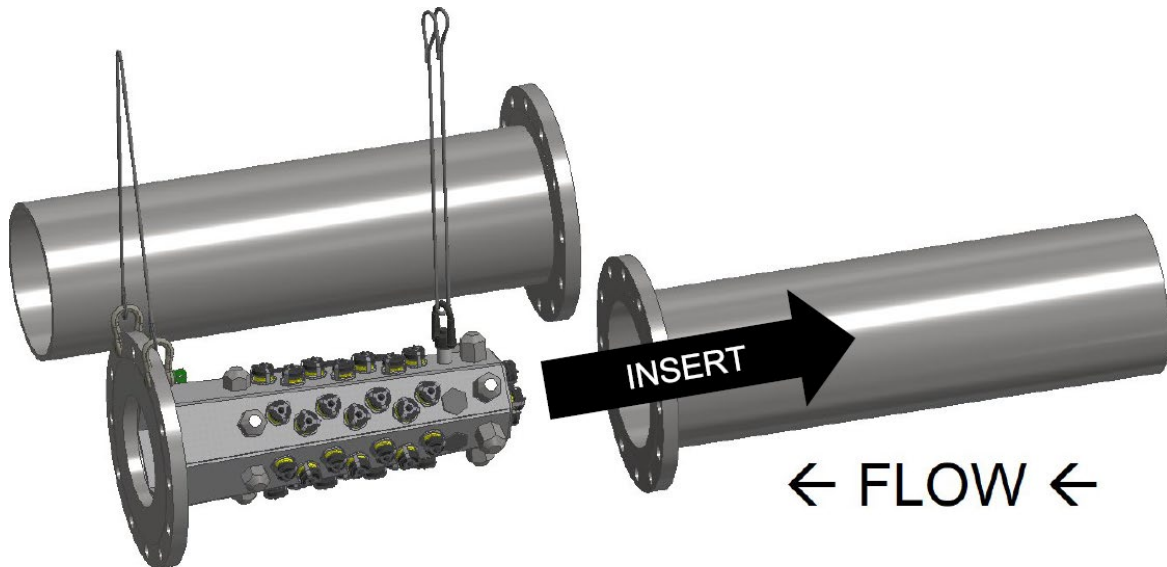
#### MATERIALS

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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, Class 150, raised face flanges. These flanges are to be connected into the piping system utilizing new ASTM A194, GR 2H, nuts, new ASTM A193 GR B7 bolts, appropriately sized for the flange, and two hardened steel washers under each nut. The 2570 and 2570SS Series Mesurflo® is an Insertion type flow control which requires a straight length of upstream pipe to be inserted into. Remove outlet cover before installation. Appropriate gasket material must be used when installing flange mounted flow control valves.
2. The thinnest practical gasket should be used whenever possible to optimize the joint performance.
3. A non-metallic based lubricant such as oil or graphite is to be applied to nuts and bolts.

## INSTALLATION

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1. To lift the valve, slide shackles through end loops on lifting sling and attach shackles to flange using the flange bolt holes. Thread lifting eye into lifting stub on the end of valve and loop second lifting sling through lifting eye.
2. Using a crane or hoist rated to hold valve weight, slide valve into UPSTREAM portion of the pipe. Slide valve until the first set of guide stubs is in pipe. While lifting kit is designed to hold the valve weight, it is never recommended to lift over the top of people.
3. Lower the valve until the first set of guide stubs is resting on the inner pipe diameter. Remove the lifting eye.
4. Continue to slide the valve into the pipe until the second set of guide stubs is inside the pipe. While guide stubs are there to prevent damage to the flow controls, take caution to keep valve lines up and to NOT damage flow controls.
5. Lower the valve until it is resting on the second set of guide stubs. Remove the shackles.
6. Slide the valve into place and align the downstream portion of pipe.
7. A non-metallic based lubricant such as oil or graphite is to be applied to nuts and bolts. Bolts should be torqued in at least three even steps using a star or crossing pattern until the final torque is reached. Bolts should be torque to gasket manufacturers recommended torque.

**CAUTION: Uneven tightening may cause the gasket to pinch. Gasket should not be visible between segments after bolts are tightened.**

**\*\*Lifting kit available for purchase. Contact Hays Fluid Controls Customer Service\*\***

## **OPERATION**

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1. For optimum operation, air entrapped 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 2570 and 2570SS Mesurflo® valves must only be used with fluids that are compatible:
  - a. for Carbon Steel valves, ensure fluids are compatible with brass, iron, and EPDM,
  - b. for Stainless Steel valves, ensure fluids are compatible with 316SS and EPDM.
3. The temperature during operation must be limited to the range of 32° F to 225° F.
4. 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 marked and the factory calibration will take the specific fluid's properties into consideration.
5. If P/Ts are used in a system, the ports should be placed 10 diameters upstream and 5 diameters downstream of valve.

## **MAINTENANCE**

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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, and reverse flushing may be required.
2. Spare Cartridge Assemblies, factory calibrated may be ordered.

## **LIMITED WARRANTY**

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See Hays Fluid Controls Terms & Conditions for warranty information.