



# 2510LT/2520LT Series Automatic Flow Control Valves

## GENERAL INFORMATION, INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS

### GENERAL INFORMATION

1. Clean the lines of all foreign material, (brazing flux, pipe scale, dirt, thread chips etc.). Upstream installation of a strainer may be necessary for 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 line horizontally, vertically or any angle in between. Straight sections of line upstream or downstream of the Hays valve are unnecessary for proper operation. 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.**
4. Hays Flow Control Valves are factory assembled, individually calibrated and are tamperproof once installed in the line. The valves are warranted to be accurate within 10% of stated flow.

### INSTALLATION

1. 2510LT/2520LT, Automatic Balancing 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.
2. The outside of the tubing, and the inside of the Valve fitting are to be mechanically cleaned and then apply a light coating using all purpose white flux, apply only with a brush. To prevent excess flux residue inside refrigeration lines, apply a thin layer of flux to only the male tubing. Insert the tube into the fitting and, if possible remove the fitting once or twice to ensure uniform coverage.
3. Apply heat, first adjacent to the fitting. Work the flame alternately around the tube and fitting until parts have achieved the necessary temperature before applying the brazing filler material. The heat is to be applied for the shortest time possible. The internal parts of the 2510LT/2520LT are capable of continuous use at 300 deg. F. but will be quickly damaged at higher temperatures. Care should also be taken on vertical assemblies to prevent brazing material from dripping into the valve.
4. Heat discoloration from the sweating operation should not extend to the major diameter of the valve body and should not cause damage to the label.
5. If chlorinated flux has been used, all parts are to be flushed thoroughly to avoid premature corrosion failure.

### 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 2510LT/2520LT Mesurflo Valve must only be used with fluids that are compatible with, Copper, Brass, and EPDM materials. The temperature during operation must be limited to the range of 15 F to 40 F.

### 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. Provisions should be made to keep the system clean. Proper water treatment is also recommended, and reverse flushing may be required.

### LIMITED WARRANTY

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