

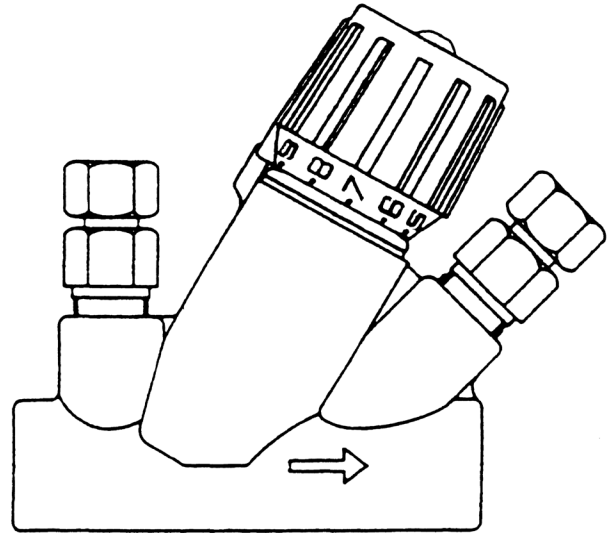
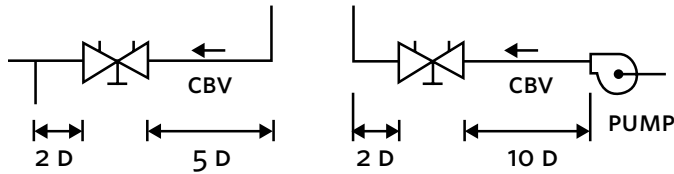
CIRCUIT BALANCING VALUES MINI-SWEAT | CBV^{1/2}" MS TO CBV^{3/4}" MS | INSTALLATION AND OPERATING INSTRUCTIONS

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1.0 INSTALLATION

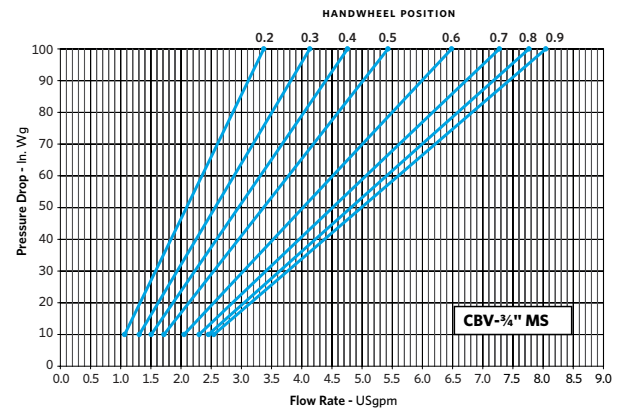
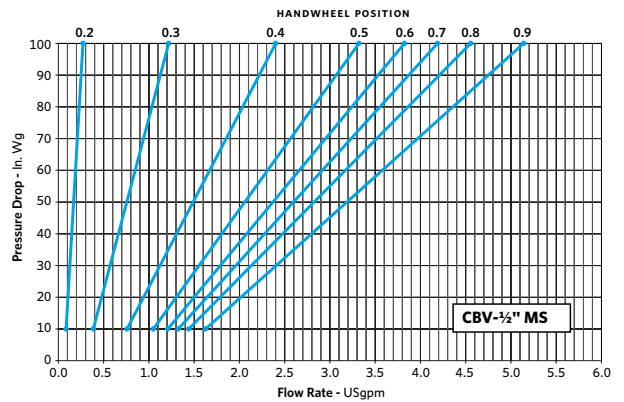
- 1 Remove the bonnet from the valve body.
- 2 To ensure accuracy of measurement, this cbv should be located at least five pipe diameters downstream from any fitting and at least ten pipe diameters downstream of any pump. Two pipe diameters downstream of the cbv should be free of any fitting (as illustrated in **FIGURE 1**).

FIGURE 1



- 3 CBV valves must be installed for flow in the direction of the arrow on the valve body and to allow easy access to the metering ports and handwheel. **NOTE:** We recommend that the valve be installed in such a way that the meter connections be above or on the side of the valve body. (Not below or at 6:00 o'clock).
- 4 Solder the valve body to the pipe using 95/5-type solder or equal. **WARNING:** The valve body must be soldered into the line with the bonnet and metering ports removed to avoid the risk of melting the plastic flow smoother/plug.
- 5 Assemble the metering ports using a thread sealant.
- 6 Assemble the bonnet with the stem in the open position on the valve body, making sure the body-to-bonnet gasket is in position.
- 7 Open the valve, turning counter-clockwise until it stops.
- 8 Assemble the handwheel to the valve with the 0.9 set point aligned with the flat side of the stop on the valve body.

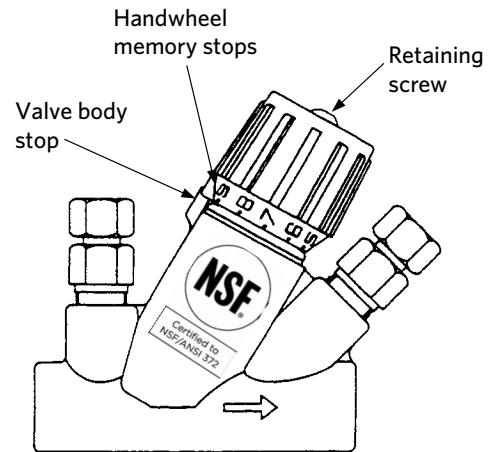
WARNING: The valve body must be soldered into the line with the bonnet and metering ports removed.



2.0 OPERATION

- 1 Using a differential pressure meter and Armstrong Cv Curves or circular slide rule, adjust the valve to the desired flow.
- 2 To set the valve memory, loosen the retaining screw on the handwheel and remove the handwheel without changing the valve setting. Reposition the handwheel on the bonnet stem in such a way that the handwheel memory stop is aligned with the stop on the valve body (as illustrated in **FIGURE 2**). The valve may now be shut off and reopened to the balance set point.
- 3 To lock the valve in position after the valve has been adjusted, remove the handwheel as in **STEP 2**. Reposition the handwheel on the bonnet in such a way that the two handwheel memory stops straddle either side of the stop on the valve body.

FIGURE 2



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