



# Instruction Sheet

402-051

## 1/2" - 4" ACCU-FLO Circuit Setter Flow Balancing Valve

SUPERSEDES: January 1, 1997

EFFECTIVE: January 1, 2007

PLANT I.D. 001-993

### VALVE INSTALLATION

1. The valve may be installed in any position. Place the valve in a position which provides for convenient access to the pressure port connections for the differential pressure gauge hoses, easy access to the memory stop screws, and easy reading of the scale.
2. Caution should be used when sweat style valves are installed to prevent overheating the valve. Use a torch with a sharp pointed flame. Direct the flame with care so that the valve body is not subjected to excessive heat. The valve should be in the closed position during sweating. The use of low temperature solders is recommended. These valves should not be brazed.

### VALVE OPERATION

1. For presetting, use the appropriate slide rule setting necessary to achieve the desired pressure drop.
2. To measure flow, connect the TACO PRESSURE GAUGE (No. 779 0-10", 0-100" dual recommended, No. 775 0-135", 0-100' for higher pressure drops as an alternate) to the pressure port connections.

A—Position the meter case in a safe location adjacent to the valve.

#### CAUTION:

B—Take care in removing the pressure port connection caps on the ACCU-FLO valve, since they will be at the same temperature as the pipeline. There may be some fluid trapped behind the cap. Slowly unscrew the caps and look for continuous leakage. Continuous leakage may indicate a failure of the stem seal in the pressure port connection. Process fluid at temperature and under pressure may be present. If continuous leakage is present, do not remove the cap. Appropriate corrective action must be taken.

C—Connect the gauge hoses to the pressure port connections, the RED hose to the port adjacent to the letter H on the valve body and the YELLOW hose to the other port indicated by the letter L on the valve body.

D—The pressure port connection valves open automatically as the hoses are screwed onto the fitting, allowing fluid to flow into the meter. NOTE: If the hoses are connected one at a time, the second hose will bleed fluid as the first hose is connected and fluid flows into the meter. This will stop as the meter fills one side of the measurement cylinder.

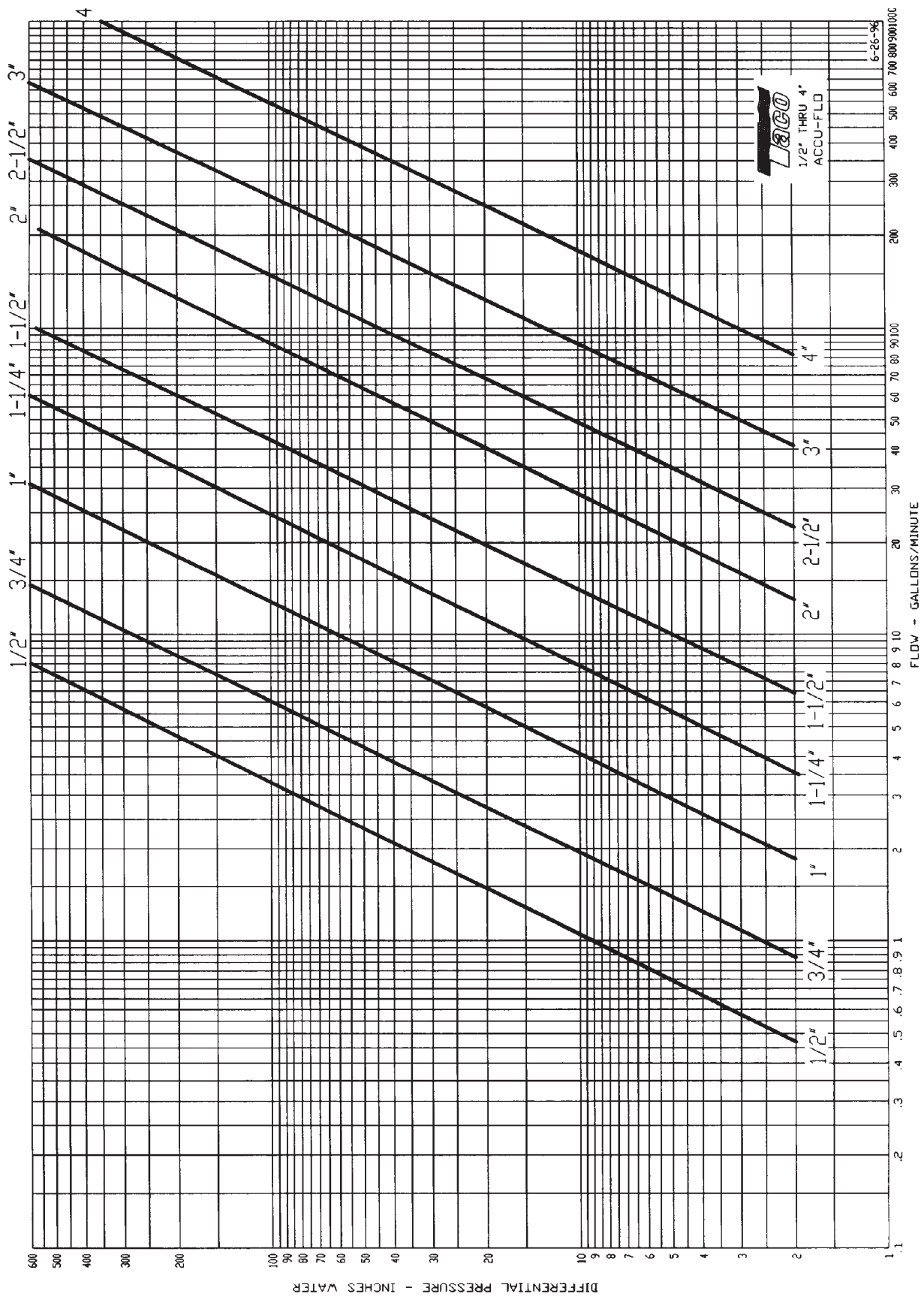
E—Read the pressure drop on the appropriate meter scale. NOTE: If you use a meter graduated in feet of water, convert the reading to inches. Read the flow in gallons per minute on the appropriate slide rule scale.

F—When reading pressure drop, wait a sufficient amount of time to insure that all air has been bled from the hoses and meter. Refer to the gauge operating instructions.

G—Adjust the ACCU-FLO valve by turning the valve stem until the desired pressure drop is achieved. On all valves from 1/2" thru 4", the flow measurement is independent of indicator setting.

H—When the proper setting has been achieved, slightly loosen the two socket head cap screws and rotate the Memory Stop around until it touches the back side of the indicator. Then tighten the screws to securely set the open memory position. The Memory Stop is used to indicate the last set open position. It should not be used as a "hard" stop which can take a lot of force.

I—Review the pressure drop, and if it is correct, remove the hoses and replace the pressure port caps.



**Do it Once. Do it Right.®**

TACO, INC., 1160 Cranston Street, Cranston, RI 02920 Telephone: (401) 942-8000 FAX: (401) 942-2360.  
 TACO (Canada), Ltd., 6180 Ordan Drive, Mississauga, Ontario L5T 2B3. Telephone: 905/564-9422. FAX: 905/564-9436.

Visit our web site at: <http://www.taco-hvac.com>

Copyright 2007  
 TACO, Inc.