



HydroMinder Water Valves Models 502 & 503

PACKAGE CONTAINS:

- | | |
|-------------------------------------|------------------------------|
| 1. Water valve assembly | 3. Float with chain |
| 2. Bracket for mounting (Model 502) | 4. Product information sheet |

THANK YOU FOR CHOOSING OUR PRODUCTS

Hydro Systems manufactures quality chemical proportioners. Please use this equipment carefully and observe all warnings and cautions. ***** **NOTE** *****

WEAR

protective clothing and eyewear when working in the vicinity of all chemicals, filling or emptying equipment or changing metering tips.

ALWAYS

observe safety and handling instructions of the chemical manufacturers.
 direct discharge away from you or other persons or into approved containers.
 exercise **CAUTION**. Dispense cleaners and chemicals in accordance with manufacturer's instructions.
 re-assemble equipment according to instruction procedures. Be sure all components are firmly screwed or latched into position.

CLEAN

equipment after each use to maintain proper operation.

ATTACH

only to tap water outlets (85 PSI maximum).

INSTALLATION:

1. Mount the unit in a level position on the side of a reservoir. Model 502 is supplied with a bracket, it may be repositioned or removed as necessary. (Retrofit mounting bracket for model 503: Part #5030-K.)
2. Adjust chain length to position float at the desired highest level of water. Position the float so that the water discharge does not cause turbulence around the float. It may be necessary to baffle the float from the discharge, or to connect a hose to the HydroMinder discharge fitting so that water is discharged under the water level in the tank.
3. Install minimum 1/2-inch water inlet between unit and water supply. Minimum 15 PSID pressure is required for proper operation of the water valves. See flow chart for further information. Larger water lines may be used. They should be plumbed directly into the black valve.

Approx. Flow Rates for Models 502 and 503 (GPM)			
PSID	Inlet:	1/2 " ID	3/4 " ID or larger
30		5.8	6.0
40		6.8	9.4
50		7.7	
65		8.7	

OPERATION:

Turn water source to valve on. If using Model 502, open water supply inlet ball valve. When the solution in the reservoir reaches the level set by the float, the magnetic valve on the HydroMinder will close. This will stop the water flow. When withdrawal from the reservoir causes the level to drop more than 1 1/2 inches, the valve will open and the reservoir will be refilled to the previous level. This cycle will be repeated automatically as long as the water supply is on. The shut-off valve on the 502 and any water source control valves should be **fully closed** when reservoir is drained or when the unit is not in use.

TROUBLESHOOTING:

PROBLEM	CAUSE	SOLUTION
1. No discharge	a. No water b. Defective magnetic valve assembly c. Excessive water pressure	a. Open water inlet valve (applies only to 502) b. Replace assembly c. Install regulator if pressure exceeds 85 PSI
2. Failure of unit to turn off	a. Valve parts dirty or defective b. Magnet spring too short c. Clogged valve orifice d. Water pressure too high e. Diaphragm stretched	a. Clean or replace* b. Replace spring c. Clean or replace d. Install regulator if pressure exceeds 85 PSI e. Replace

*Hard water may cause build-up of mineral deposits in water valve. Remove deposits by soaking the valve parts in a deliming solution.

