

Hellenbrand

HVN Series Water Softener Valve Manifold

VALVE #1 - Normally Open. This valve is the raw water service inlet valve, also referred to as the “service inlet valve”. The valve is open during service and also during the final rinse cycle of regeneration. No options are normally required for proper function of this valve.

VALVE #2 - Normally Open. Valve #2 is the treated water outlet valve, also referred to as the “service outlet valve.” The valve is open only during the service run. No options are normally required for proper function of this valve.

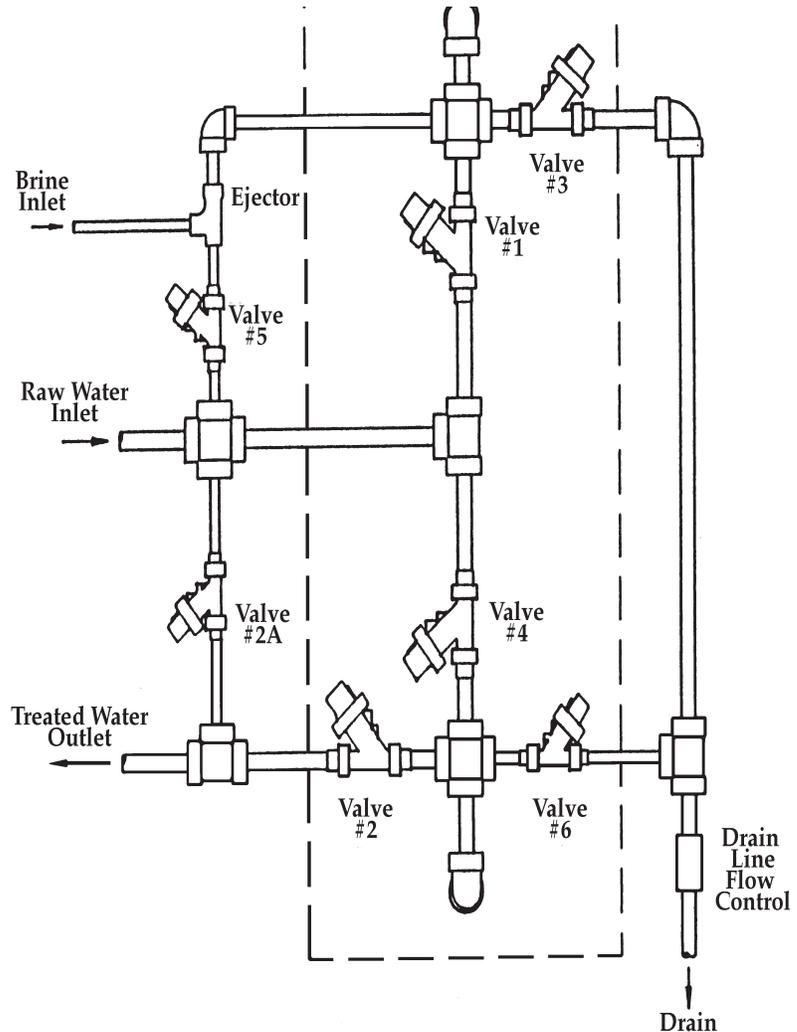
VALVE #2A - Normally closed. This valve is optional and is only used on softeners that require raw water by-pass during regeneration. This valve is open during the entire regeneration process. Care must be taken to assure this valve is not too large. A large valve may allow an excessively high by-pass flow, resulting in a low softener inlet pressure which may be below the pressure level required for a satisfactory regeneration. It may be desirable to use a normally closed valve with a limit stop option to restrict by-pass flow during regeneration.

VALVE #3 - Normally open with limit stop option. Valve #3 is the backwash outlet valve which is open only during the backwash flowrate if the supply water pressure is essentially constant. However, a flow controller on the drain line may be required if the raw water supply pressure varies or if the supply pressure and/or valve size limitations require the limit stop be positioned to within the first 2 to 3 turn from the “full closed” position. Diaphragm valve may not open or close reliably under this operating condition.

VALVE #4 - Normally open. This valve is the “backwash inlet valve” which is open only in the backwash step of regeneration. No options are normally required for proper function of this valve.

VALVE #5 - Normally open. This valve is the “ejector inlet valve” which is open during the brine injection and slow rinse cycles of regeneration. No options are normally required for proper function of this valve.

VALVE #6 - Normally open with spring assist open option. This valve is the “rinse outlet” valve which is open during the brine injection, slow rinse and fast rinse cycles of regeneration. No options, other than spring assist open, are normally required for proper functions of this valve.



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