

American Wheatley

Globe Style Triple Duty Valves

Installation, Operation & Maintenance

VESSEL DESCRIPTION

The American Wheatley Globe Style Triple Duty Valve combines a calibrated balancing valve, a shut-off valve, and a center guided silent check valve into a single unit.

INSTALLATION

Determine the system flow requirements. Refer to pressure drop charts and select a valve whose 50% flow rate is closest to this figure. (NOTE: The valve size may not be the same as the line size).

Install valve with flow arrow in direction of flow, 5-10 pipe diameters from the discharge of the pump. System operating conditions are not to exceed operating conditions of 175 psig @ 250 degrees F. Installing the valve too close to the pump may result in premature valve failure and or internal chattering of the valve components. The valve must be installed with the stem pointing upward. Do NOT install with stem pointing downward as premature failure could occur.

OPERATION

1. Turn hand-wheel counter clockwise until valve is in 100% open position. Ensure indicator reads 100% open position.
2. Install test plugs or pressure gauges in the two ports on the inlet and outlet of the TDV globe style valve
3. Start system pump, and purge all air from system.
4. Measure the differential pressure across the valve through the test ports. Pressure drop across the valve should not exceed 11 psi. Excessive noise or damage to the valve may occur if pressure drop is above 11 psi.
5. Refer to the appropriate performance curve or Cv rating table to determine flow based on the results from step "4" and the "percent open" as indicated.
6. Slowly close the valve, turning hand-wheel clockwise, until the specified GPM flow rate is achieved. Secure or remove hand-wheel to maintain this setting.
7. Consult pump manufacturers guidelines if specified GPM is achieved with the valve at < 50% open, pump impeller may need to be trimmed.

MAINTENANCE

The American Wheatley Globe Style TDV requires very little regular maintenance. However, periodic cycling (opening and closing) of the valve is recommended to prevent stem scale buildup. Prior to closing the valve be sure to note % open location and return to this position. Replacement parts are available. Contact the plant or your nearest representative.

JOB NAME _____
LOCATION _____

CONTRACTOR _____
CONTRACTOR P.O. NO. _____

ITEMS	QUANTITY
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____



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