

Triple Duty Valve

Installation, Operation & Preventative Maintenance

INSTALLATION

In order to prevent any objectionable system noise, or damage to the check valve functional components, mounting of the triple duty valve directly to the pump is not recommended. The placement of the triple duty valve directly on the pump discharge places the valve directly into a point of high turbulence, and extreme variances in flow and pressure changes. If the valve is placed at this point, damage to the clapper is almost certain.

When mounted near the pump, at a minimum, the Triple Duty Valves should be mounted to a spool piece on the discharge side of the pump. It is recommended that a spool piece of 12" minimum be used on pumps with a discharge size of 1.5" through 6" and a 24" minimum spool piece be used for discharge sizes 8" through 12". When installed elsewhere in the system, the velocity and pressure changes are acceptable under normal operation.

However, for optimum operation as a balance device measuring differential pressure, it is recommended that a distance of 10 pipe diameters straight pipe be installed upstream of the TDV and 5 times the pipe diameter downstream.

The triple duty valve are not to be left in a fully open position, they are designed to create a pressure drop to ensure that the pump is operating at design. The triple duty valve must be closed at least 10% to ensure proper function. The valve must be installed with the stem pointing upward vertically, or sideways horizontally. Do NOT install the valve with the stem pointing downward as premature failure could occur.

HANDLES-Once initial settings have been reached at start up, remove handles from valve to prevent unwanted movement.

PREVENTATIVE MAINTENANCE

While Triple Duty Valves do not require day to day maintenance, it is highly suggested that a preventative maintenance program be installed to ensure that the triple duty valve is cycled throughout its entire range of motion, a minimum of once every 30 days. Failure to do so may result in scale and mineral build-up, on or near the plug and seat, which could prevent the valve from future opening or closing. Remove handles after adjustment to prevent unwanted movement.

Failure to follow these guidelines may result in the failure of the Triple Duty Valve to accomplish any or all of the functions for which it was designed, and can void any implied warranty.

AMERICAN WHEATLEY HVAC WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF ITS PRODUCTS OR ANY INCIDENTAL COSTS OF REMOVING OR REPLACING DEFECTIVE PRODUCTS.

JOB NAME _____
LOCATION _____

CONTRACTOR _____
CONTRACTOR P.O. NO. _____

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



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