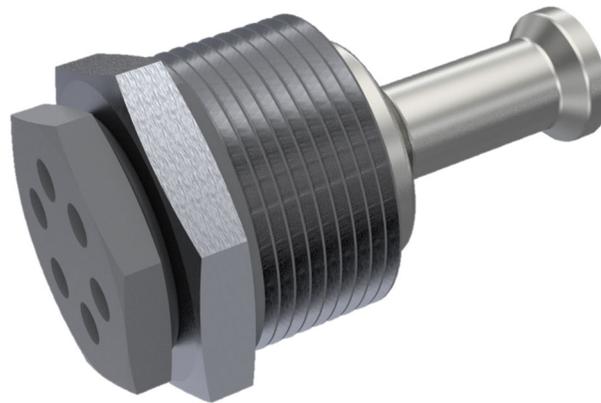


Flomatic® Model 48 Drain-Back Plug™ Valve

Operation, Maintenance & Installation Manual



- *Automatically drains water in riser pipe when activated by drop-weight.*
- *Reducing Pulling weight by 20-50%*
- *Eliminates water splashing at the wellhead*
- *Automatically resets after use*



FAILURE TO FOLLOW THESE INSTRUCTIONS WILL VOID ANY WARRANTY

Note: Keep this O&M Manual in a safe place for future reference for service and parts.

Installation Date: _____

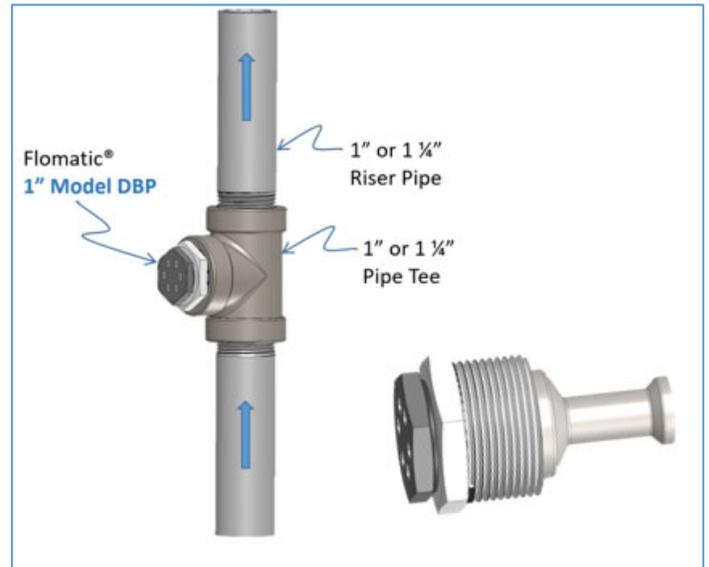
FLOMATIC® Drain-Back Plug™ Valve

Operation, Maintenance and Installation Manual

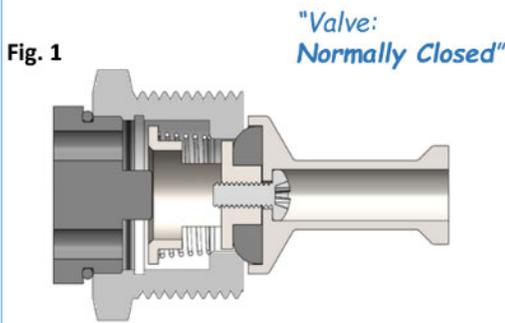
INTRODUCTION

The Flomatic® Model 48 Drain-Back Plug™ valve has been designed to give years of trouble-free operation during normal operation. This O&M owners' manual will provide you with the information you need to properly install and maintain the valve and to ensure a long service life. The Drain-Back Plug™ valve is activated when a weight is dropped into the well pipe. The stem is struck by the weight and opens the valve allowing the water to drain back into the well casing. This makes it easier and safer to pull the pump as there is virtually no spill on the surface around the well head that could cause cross-contamination of the water well. The Model 48 drain-back plug™ valve is design to fit in a standard 1" or 1"x1-1/4" pipe tee.

The "Maximum Working Pressure" is 400 psi (28 bar) and the "Max Temperature" of 180°F (82°C). The valve shall not be subjected to any higher pressure or temperature above the valve maximum standard rating.



Normal Installation in a Water Well Pipe



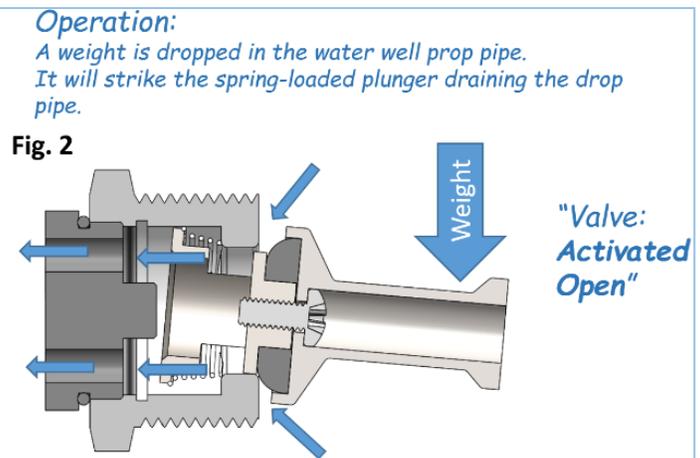
RECEIVING AND STORAGE

Inspect valves upon receipt for damage in shipment. The valve is spring loaded and normally closed (Fig. 1). If the stem is cocked or pulling away from the valve body do not install, please contact Flomatic® customer service.

DESCRIPTION OF VALVE OPERATION

The Flomatic® Model 48 Drain-Back Plug™ Valve is activated when a weight is dropped into the well drop pipe. The stem is struck by the weight and opens the valve (Fig 2). This allows the well water above the tee location to drain back into the well casing. Along with making it easier and safer to pull the pipe and pump the service professional will not be soaked by the water from each string of pipe when they are un-threading pipe which would normally filled with water (a pipe or "pipe stick" is usually about 20' long).

Before a submersible pump is pulled from the water well, a pipe weight is dropped into the riser pipe activating the Model 48 Drain-Back Plug™ Valve draining the riser pipe. We recommend using the Flomatic® Flo-Coat® Drop Weight™ P/N 76048-1 (Weight 0.75 Lbs.) for a 1" riser pipe or Drop Weight Plug™ P/N 76048-3 (Weight 0.85 Lbs.) for a 1-1/4" riser pipe (Fig. 3). Flomatic Drop Weights™ are equipped with an eyelet for a string or wire. Once the riser pipe is drained, the weight must be pulled out of the riser pipe which will automatically reset the Model 48 Drain-Back Plug™ Valve for reuse.



The piping system will be now be much lighter and there will be less well water at the wellhead site. A 1" size 200 foot deep riser pipe has a total weight (pipe and water weight) of about 410 lbs. less the pump. By using the Model 48 Drain-Back Plug™ Valve this weight can be reduced by 18-20% and by over 50% for PVC pipe. For 1-1/4" size riser pipe it will be an even greater reduction. This greatly simplifies pulling the well piping and submersible pump for servicing. In addition, 150 less gallons per 100 feet of pipe will not be spilled on the surface of the well head.



VALVE CONSTRUCTION

The Model 48 Drain-Back Plug™ Valve is made from NSF approved resilient seating, stainless steel components with a PVC cover. These are proven valve components, used in standard Flomatic valves

INSTALLATION

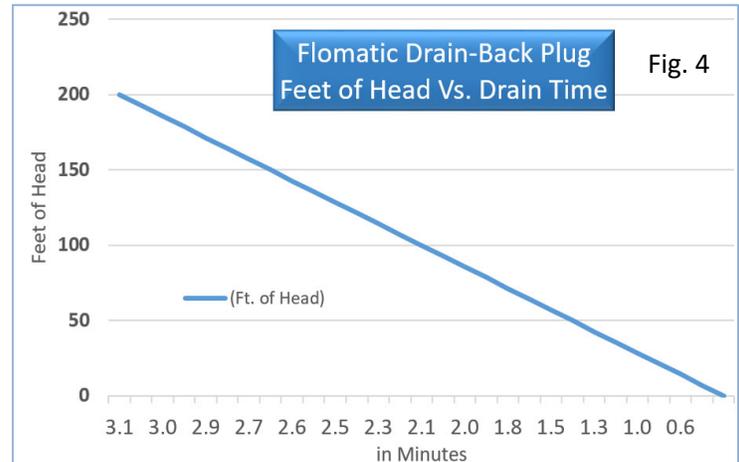
The Model 48 Drain-Back Plug™ valve is to be installed in the water well drop pipe below or at the well static water level in a standard 1" or 1-1/4" pipe tee (not included). A bushing (not included) will be required for use in the 1-1/4" pipe tee.



WARNING: THE MODEL 48 DRAIN-BACK™ MUST BE INSTALLED ABOVE ANY CHECK VALVE LOCATED IN THE LINE.

VALVE PERFORMANCE

The Model 48 Drain-Back Plug™ Valve capacity is directly related to the vertical installation setting on the unit on the riser pipe. In a 100-foot deep setting, the Drain-Back Plug™ Valve will drain the riser pipe in about two (2) minutes (Fig. 4).



MAINTENANCE

The Model 48 Drain-Back Plug™ Valve requires no scheduled lubrication or maintenance. For service or inspection, the valves needs to be removed from the pipe tee.

VALVE INSPECTION:

Before reinstalling the Model 48 Drain-Back Plug™ Valve in line, make sure to remove it from the pipe tee and inspect. If the valve stem is bent or the disc is not seating properly replace the valve.

PARTS AND SERVICE

Contact Flomatic® customer service for any questions on installation, use, service or replacement parts at 1-800-833-2040, or visit our web-site at WWW.FLOMATIC.COM

FLOMATIC® LIMITED WARRANTY

LIMITED ONE-YEAR WARRANTY Flomatic® Corporation warrants that its products are free from defects in materials and workmanship. Flomatic® Corporation will replace any valve covered by this warranty that is found to be defective within one year, unless otherwise stated below, from the time of sale. This warranty will be void if the product has been modified in any way by the purchaser, or is subjected to unreasonable use.

EXCLUSION OF WARRANTIES Flomatic® Corporation makes no warranties, expressed or implied, with respect to its valves, other than the expressed limited warranties described herein. The implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed by Flomatic® Corporation. There are no warranties that extend beyond the description on the face hereof.

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