

Modifying an Overfill Protection Valve for Better Filling.

Currently, Transtank Overfill Protection Valves are installed with their shutoff position parallel with the tanks' Safe fill level.

This has meant that filling is significantly hindered at higher fluid levels.

To eliminate this problem, Transtank has implemented a design change to the Valve float.

There are however, "in-service" units requiring rectification.

This procedure describes how to effectively raise the shut-off point of valves in the field.

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The modification sequence of a Transtank OFP Valve is as follows:

(Refer Fig 1.)

1. If not supplied, cut a length of 25mm diameter wooden dowel, 305mm long. Ensure the dowel is clean, free from defects and burrs.
2. The dowel may have a retrieval hole drilled in it if desired; this can be attached via a lanyard or cord to the technicians' wrist etc. In the event of the dowel being dropped, it can be retrieved.
3. Remove the access cover located over the Overfill Protection Valve by unscrewing the securing nuts. Be careful not to lose or drop the fasteners into the tank.
4. While holding the float neck only, lift the OFP valve float until the upper stop is reached. Under no circumstances should the float body itself be used as a lifting point.
5. Continue to lift the float assembly against the upper stops. The float arm fork should now begin to bend around the roll pins.
6. The dowel is used to gauge the correct amount of bend required. It should be placed between the rear side of the valve flange, (against the web) and the float fork, where it joins the float neck tube. The dowel length has been calculated to accommodate some elasticity of the metal fork - once the correct amount of bend is achieved using the dowel gauge, do not be concerned that the float "springs back" a small amount. As a guide, the distance between the corner of the float and the ceiling of the tank should now be approximately 30mm.
7. Remove the dowel, release the float and ensure the rotation of the valve spool is unaffected.

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8. Install the access cover, complete with gasket. Fit fasteners and tighten nuts to appropriate torque.

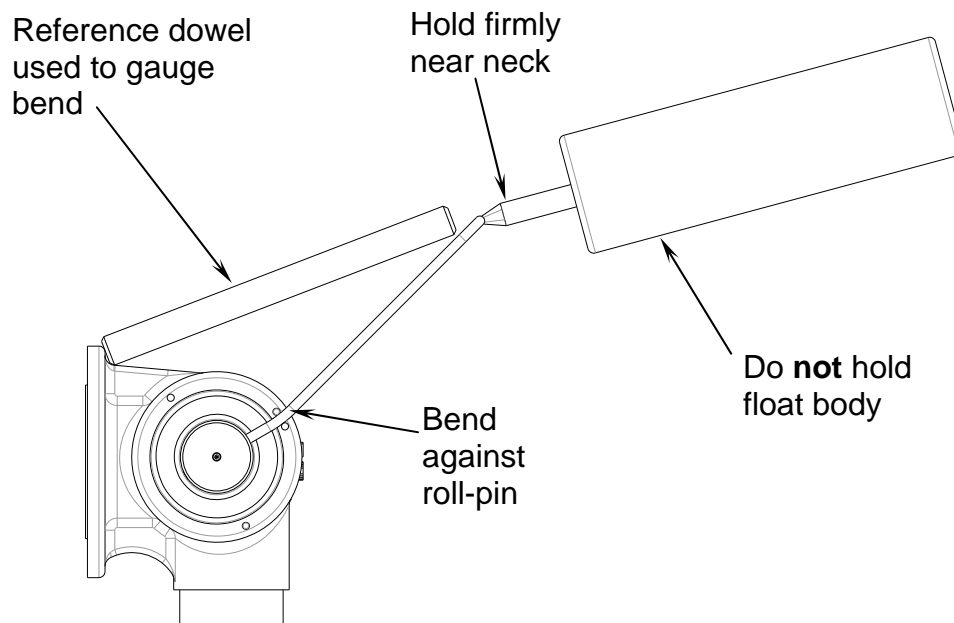


Fig 1.