



The waste tank gate valves pulls back into a sealed cavity

It seemed to me that if grease could be injected into this cavity . . . this would lubricate the gate

Rob Farrow May 2018





I cut apart a removed gate valve to better understand the space in the back corners with the gate fully retracted



After the first prototype, I discovered that I had to move the grease fitting "around the corner" to clear the cable attaching bracket



(and difficult to open) gate valve

After injecting several pumps of grease and working the valve it became as easy to move as a new valve.

Now on to installation of zerk fittings on all my new gate valves





A 3/4" clearance opening is drilled in the removable outer shell and a 1/8" PT hole is drilled and tapped into the body of the gate valve for the zerk grease fitting.



Note: These are 3" gate valves

This also works on the 1½" valve but clearances

are much tighter and the the corner of the gate

needs to be removed