

This is a vacuum relief and pressure sealing vent valve for marine plumbing systems. Using the Wager Antisiphonic valve eliminates the need to install individual vent piping to the atmosphere up through several decks. It means savings in space, labor and weight.

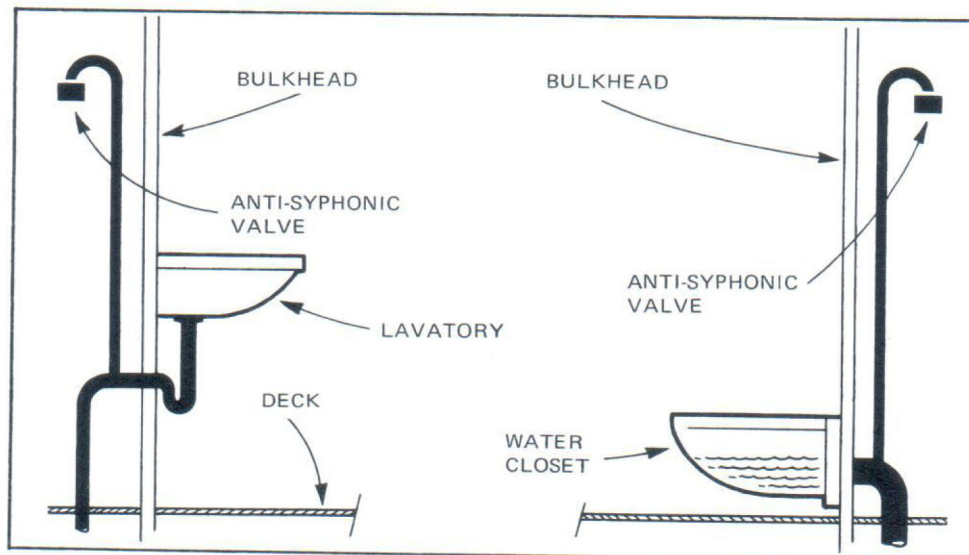
The installation of valves of this type aboard ship as plumbing vents has the approval of the U.S. Coast Guard, the American Bureau of Shipping and the U.S. Public Health Service.

The valve works two ways. First, it acts as a vacuum breaker. If several toilets are on the same manifold, suction is created when they are flushed. This can pull the water seal out of the toilets not being flushed or out of the sanitary traps in the line and allow odors to escape. The Wager Antisiphonic Valve opens at only 1" of water vacuum and allows air to enter until the pressure inside the line and out are equalized. Then it closes.

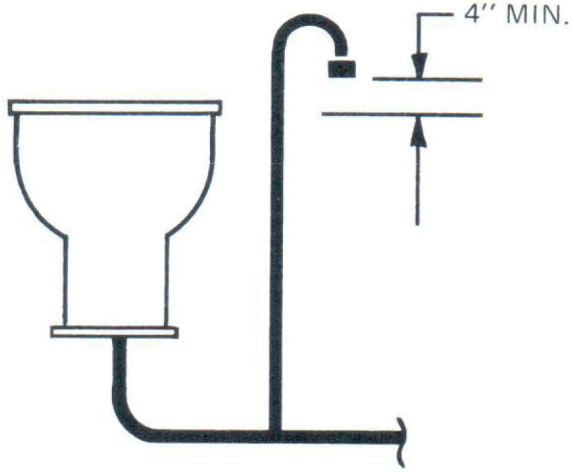
Second, it serves as a vent sealing valve. If several toilets are flushed simultaneously, pressure can be created inside the line which would force out odors. The Wager Antisiphonic Valve closes and seals at only 1" of water pressure to prevent this.

The valve body is made of polyvinyl chloride (PVC) which is completely impervious to marine corrosion. It cannot discolor and needs no painting. The rubber seals are protected from damage by a perforated Monel screen. The Wager Antisiphonic Valve is made with 3/4" IPS threads for simple attachment to a gooseneck vent line. The 3/4" size is adequate for any standard lavatory or water closet.

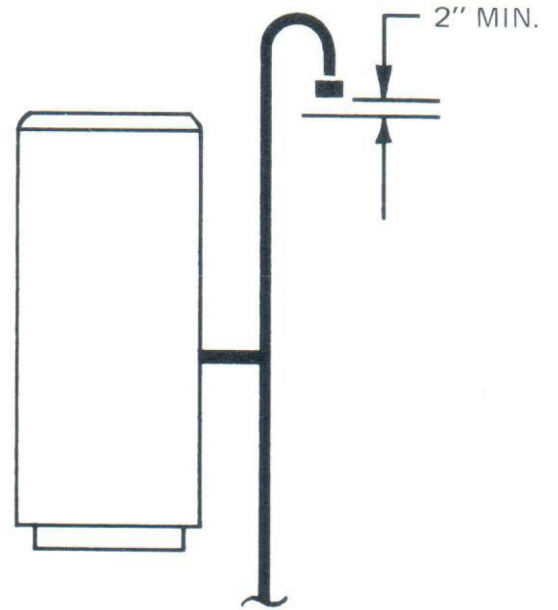
Once valve is used on each water closet or sanitary trap. It is connected by a gooseneck as shown in the sketch below. A clean out fitting can be attached, if desired.



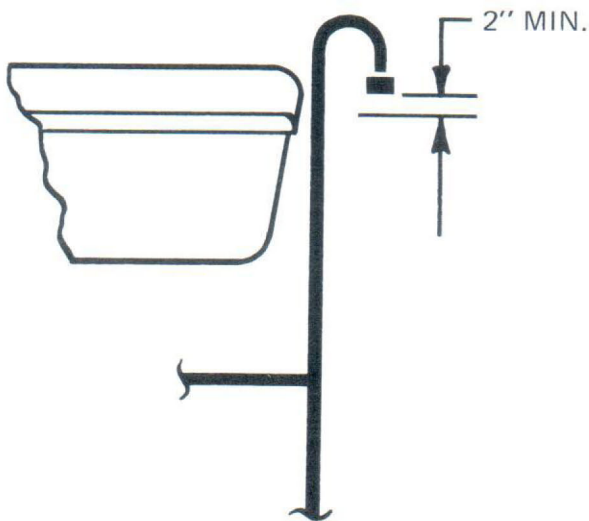
TYPICAL INSTALLATION OF WAGER ANTISYPHONIC VALVE



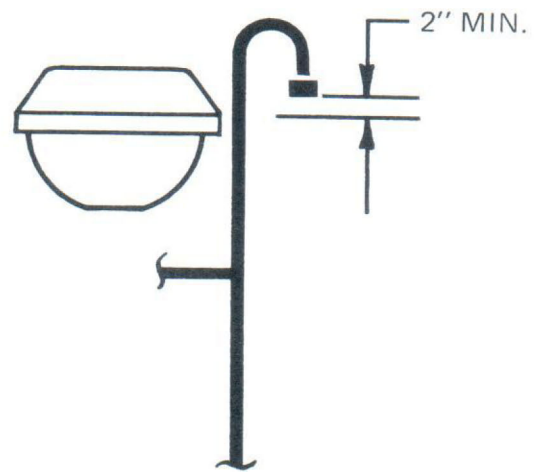
WATER CLOSET



WATER FOUNTAIN



SINK



LAVATORY