

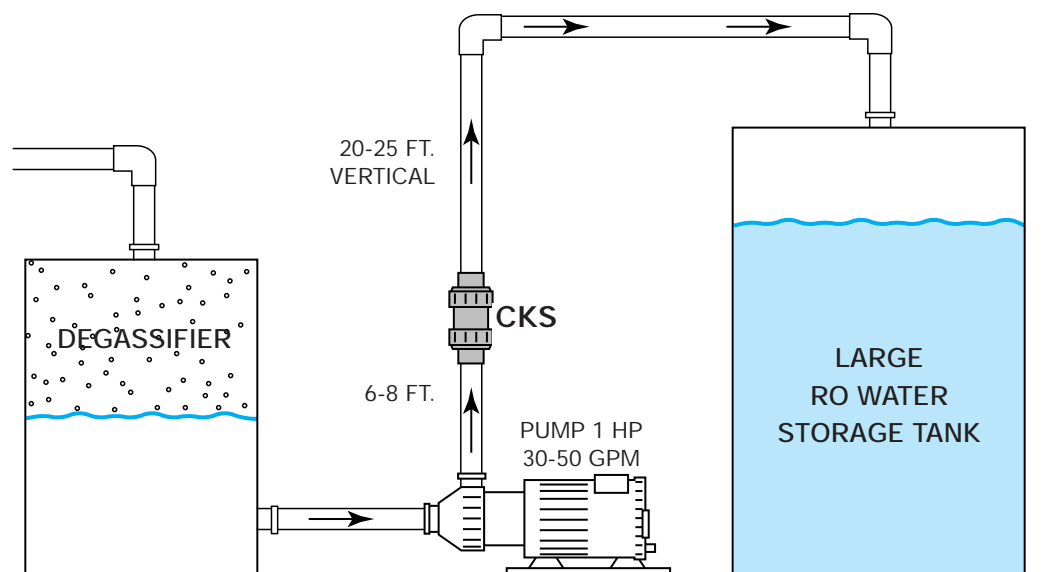
MARKET Electronics

PRODUCT(S) Series CKS Check Valve

REQUIREMENT Provide a positive seal on a vertical line. even in the absence of reverse pressure.

PROCESS FLUID(S) RO Water

INLET PRESSURE/TEMPERATURE Varies



A flexible circuit manufacturer was having a problem with backflow from a large reverse osmosis water storage tank.

In this application, water is fed from a degasser (removes air bubbles) into a 1 hp, 30 - 50 GPM pump. The pump is used to push the RO water approximately 30 feet up a 2" vertical pipeline into a large storage tank. To prevent backflow and siphoning when the pump was off, a check valve was installed 8 feet high on the vertical pipeline.

Unfortunately, a ball-type check valve was specified. As a typical ball check valve, it would never create a positive seal on the vertical column

up to the top of the storage tank. The lack of a positive seal would cause water to back up and flood the reservoir coming out of the degasser.

The electronics firm turned to Plast-O-Matic's Series CKS Check Valve. Designed with a special Teflon encapsulated spring (not a "coated" spring), the CKS provides a bubble-tight seal without compromising the ultrapure requirements of the application. Unlike ball-type check valves, the CKS does not require back flow to close - it automatically seals bubble tight with merely the absence of inlet pressure.