

HILTON SWING CHECK VALVES IN PUMP STATION MANIFOLD



APPLICATION:

While upgrading the discharge pipe manifold in an existing pump station, a Northern California utility department replaced a number of existing valves including knife gates, bonneted knife gates, air release valves, and wafer swing checks. Seven (7) 30" wafer semi-lug style swing check valves were needed for the project.

PROBLEM:

The facility did not have space to allow for modification to the original piping or valve designs and the project scope was to refurbish the facility for use until funding could be obtained for the construction of a new pump station in the future. Because there was no room for redesign of the system, each component had to be supplied as a direct replacement for the previous component and fully conform to the existing specifications.

SOLUTION:

Using Hilton's custom fabrication capabilities, direct replacement valves were built to the exact dimensions, requirements, and specifications of the original valves. The resilient seated check valves were fabricated with carbon steel bodies and 316 stainless steel discs, seats, and shafts. These valves also have a machined dovetail groove for a self-retaining resilient seat. The seat is field replaceable without the use of any adhesives. The valves were supplied with springs and counterweights to assist in closing along with a hydraulic damper to prevent the gate from slamming on the seat.

SALES AND SERVICE

For information about our worldwide locations, approvals, certifications and local representative:

www.dezurik.com

info@dezurik.com

250 Riverside Ave. N.
Sartell, Minnesota 56377

Phone: 320-259-2000

Fax: 320-259-2227



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