



## DeZURIK Valves for Industrial Raw Water Cooling Systems

**Application markets:** Power utilities, Petrochemical & Refining, Chemical, Pulp & Paper, Steel and Metal Foundries, Cogeneration, Desalinization, LNG and other industrial facilities utilizing regional, drawn raw water for process cooling.

**System applications:** Raw water cooling systems, fresh, brackish and seawater.

**Valve applications within the systems:** Pickup intake isolation, intake pump isolation & protection /vacuum/ surge and hammer control.

**DeZURIK valves within these systems:** AWWA Butterfly Valves (BAW), HILTON fabricated Knife Gate Valves, BOS-US Resilient Seated Butterfly Valves, PEC/PEF Eccentric Plug Valves, BHP High Performance Butterfly Valves, ASU Combination Air Valves, CVS 6000 Swing Check Valves.

DeZURIK has led the way in heavy industrial water flow control for over 90 years. If there is one thing we have learned about raw water cooling systems, it is that no two systems are alike. Water quality, mineral and biological composition vary greatly from region to region. The challenges range from microbial induced corrosion to high chlorides crevice corrosion. DeZURIK engineers and representatives are uniquely qualified to ensure that you receive the correct valve for the application, in the correct materials of construction, to provide years of trouble-free service.

DeZURIK's years of experience with material selection, coatings, and vulcanizing elastomer compounds to provide corrosion resistance are unmatched in our industry. From basic Ductile Iron, to Monel and Inconel, to Duplex and Super Duplex Austenitic Ferritic Stainless materials for high chloride crevice corrosion, DeZURIK has the solution for any raw water condition.

### Raw Water Cooling Intake Isolation

DeZURIK provides multiple options for raw water cooling intake isolation valves:





**BAW Butterfly Valves** are AWWA C504 compliant with size ranges to 168". Tested to 10,000 cycles to provide years of trouble-free service. Multiple material options for body, seat, shaft and seal combinations to resist the toughest corrosion challenges are available.



**H-200B Hilton Bonneted Knife Gate Valves** are engineered and fabricated to meet the most challenging corrosive conditions. Fully welded body liner options utilizing multiple alloys including Monel, Hastelloy and various grades of stainless steel. Size ranges to 144".

### Raw Water Cooling Intake Pump Protection

DeZURIK offers a complete line of valves for raw water intake pumping stations. Flow calculations, sizing and alloy selections by our engineering team are available to meet your water conditions and corrosion resistance requirements.

Criteria for Optimal Pump Station Performance and Safety Compliance to NSF/ANSI-61 and NSF/ANSI-372				
Critical station requirements	Pump reversal, Backspin , & Water hammer prevention	Pipe burst and vacuum prevention	2 <sup>nd</sup> option: water hammer prevention	Surge Protection
Product				
	PEC/PEF Pump Check Valves	ASU Combination Air Valves	CVS 6000 Swing Check Valves	SRA Surge Relief Angle Valves
Important Product Capabilities	Startup/Shut down surge protection 300:1 Range Low head loss Open and close speed control	Combination Air/Vac. Slow closing - adaptable to pump characteristics	Fast closure - Low head loss - Non slam capability	Open quickly on pressure surge event Adjustable closing speed control –