



**DeZURIK**

**VALVE  
SOLUTIONS  
GUIDE**



## DeZURIK Eccentric Plug Valves (PEC)



Eccentric PEC Plug valves comply with AWWA C517 and are capable of handling clean and dirty liquids and gases, sludge and slurries. Eccentric action, low friction bearings and excellent pressure recovery factor make the Eccentric Plug Valve ideal for throttling applications. Resilient plug facings assure lasting bubble-tight shutoff. Heavy-duty stainless steel bearings, welded-in corrosion resistant nickel seat, adjustable packing and a variety of end styles are available.

|                           |   |
|---------------------------|---|
| <b>Size Range:</b>        | 1/2-72" (15-1800mm)   |
| <b>Temperature Range:</b> | to 450°F (232°C)  |
| <b>Pressure Rating:</b>   | 125-450 psi (860-3100 kPa) CWP  |
| <b>Shutoff Class:</b>     | Resilient plug face, bubble-tight shutoff rating to 175 psi (1200 kPa), Bi-Directional. Options to 450 psi (3100 kPa) |
| <b>Body Materials:</b>    | Cast iron, aluminum, carbon steel, 316 stainless steel, Alloy 20, Monel, ductile iron, acid resistant bronze          |
| <b>End Connections:</b>   | Flanged, mechanical joint, grooved, threaded  |
| <b>Actuator Type:</b>     | Lever, handwheel, chainwheel, square nut, cylinder, electric motor  |

## DeZURIK 3-Way and 4-Way Plug Valves (PTW/PFW)



3-Way and 4-Way Plug Valves are designed for throttling and diverting of clean, dirty, viscous and corrosive liquids; sludge; abrasive and fibrous slurries; clean and dirty corrosive gases. Single and double plug styles can be arranged in a variety of flow combinations. Features include heavy-duty stainless steel bearings, long-life stem seal, resilient plug facings for dead-tight shutoff and metal plugs for high temperature applications.

|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | 2-16" (50-400mm)                                       |
| <b>Temperature Range:</b> | to 400°F (200°C)                                       |
| <b>Pressure Rating:</b>   | 125 psi (860 kPa) CWP                                  |
| <b>Body Materials:</b>    | Cast iron, aluminum, carbon steel, 316 stainless steel |
| <b>End Connections:</b>   | Flanged  |
| <b>Actuator Type:</b>     | Lever, handwheel, chainwheel, cylinder, electric motor |

## DeZURIK Pump Check Valves



Pump Check Valves are specially designed to protect pumps from water hammer, reverse flow and backspin. DeZURIK can provide custom-designed and engineered PEC or PEF Eccentric Plug Valves for pump flow control applications.

## DeZURIK 100% Port Eccentric Plug Valves (PEF)

Eccentric PEF Plug valves comply with AWWA C517 and are capable of handling clean and dirty liquids and gases, sludge and slurries. Port is 100% of standard pipe area, including straight through body design with flushing port to maximize flow capacity and reduce head loss. Rectangular port design provides wide tolerance seating geometry for lasting superior shutoff. Standard features include corrosion resistant bearings, welded nickel seat, grit excluders, adjustable packing and a choice of resilient plug facings.

|                           |   |
|---------------------------|---|
| <b>Size Range:</b>        | 3-36" (80-900mm)  |
| <b>Temperature Range:</b> | to 250°F (121°C)  |
| <b>Pressure Rating:</b>   | 3-12" 175 psi (1210 kPa); 14-36" 150 psi (1030 kPa)                                   |
| <b>Shutoff Class:</b>     | Resilient plug face: bubble-tight shutoff rating to 175 psi (1200 kPa) Bi-Directional |
| <b>Body Materials:</b>    | Cast iron, ductile iron   |
| <b>End Connections:</b>   | Flanged, mechanical joint   |
| <b>Actuator Type:</b>     | Lever, handwheel, chainwheel, square nut, cylinder, electric motor                    |



## DeZURIK Balancing Valves

Balancing Valves are designed specifically for heating/air conditioning systems in multi-story commercial buildings. Balancing Valves provide a means of adjusting and reading the flow in a condenser and hot or chilled water systems. These valves help maintain the desired flow, balance point and temperature throughout the building. Balancing valves are available in 1-24" (25-600mm) sizes of the proven PEC Eccentric Plug Valve design with two options for upstream and downstream flow taps.



## DeZURIK Soft Rubber Lined Eccentric Plug Valves

Soft Rubber Lined Eccentric Plug Valves are ideal for on-off service of corrosive and/or abrasive slurries. Soft rubber lined valves are available in either the PEC or PEF Eccentric Plug Valve design and are used in grit, ash handling and tailing systems.



## DeZURIK Glass Lined Eccentric Plug Valves

In applications where mineral build-up can be an issue, Glass Lined PEC or PEF Eccentric Plug Valves provide a smooth, non-stick glasslined interior that can inhibit crystalline formation inside the valve. Glass Lined valves are commonly used in wastewater treatment plants where Struvite (magnesium ammonium phosphate) can build up in valves, piping and equipment.



## DeZURIK AWWA Butterfly Valves (BAW)



DeZURIK AWWA Butterfly Valves meet the requirements of AWWA C504 and C516 standards. They are used for shutoff on clean water and gases. Offset disc design, corrosion resistant shaft, stainless steel disc edge, and self-compensating shaft seals are features on all DeZURIK AWWA valves. Molded-in body seat with disc locators provides positive sealing and longer seat life on sizes 3-20" (80-500mm). Large valves, 24-168" (600-4200mm), feature adjustable, replaceable seat, non-hollow disc structure, and rubber seat retained within a dovetail groove in the valve body and locked in place by an epoxy wedge.

|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | 3-168" (80-4200mm)   |
| <b>Temperature Range:</b> | to 290°F (143°C)   |
| <b>AWWA Class:</b>        | 25A, 75B, 150B, 250B   |
| <b>Pressure Rating:</b>   | 75 psi (520 kPa); 150 psi (1030 kPa); 250 psi (1700 kPa)           |
| <b>Shutoff Class:</b>     | Bubble tight to full rated pressure                                |
| <b>Body Materials:</b>    | Cast iron, ductile iron, carbon steel, 316 stainless steel         |
| <b>End Connections:</b>   | Flanged, mechanical joint  |
| <b>Actuator Type:</b>     | Lever, handwheel, chainwheel, square nut, cylinder, electric motor |

## DeZURIK Uninterrupted Seat Resilient-Seated Butterfly Valves (BOS-US)



BOS-US Resilient-Seated Butterfly Valves feature an uninterrupted seat design, one-piece body, solid one-piece shaft and a high performance resilient seat. Sizes 2-20" (50-500mm) feature seat bonded to the body while sizes 24" (600mm) and larger feature a seat bonded to a solid backing ring.

|                            |  |
|----------------------------|--|
| <b>Size Range:</b>         | 2- 20" (50-500mm)<br>Larger sizes on application   |
| <b>Temperature Range:</b>  | to 250°F (121°C)   |
| <b>Pressure Rating:</b>    | 2-20" (50-500mm) = 250 psi (1720 kPa) with ductile iron/nickel plated disc; 200 psi (1380 kPa) with 316 stainless steel disc |
| <b>Shutoff Capability:</b> | Bubble-Tight, full rated bi-directional shutoff; lugged valves provide dead end service to full valve rating                 |
| <b>Body Styles:</b>        | Wafer or lugged  |
| <b>Body Materials:</b>     | 2-20" (50-500mm) ductile iron; 24-36" (600-900mm) cast iron  |
| <b>Actuator Type:</b>      | Lever, handwheel, chainwheel, square nut, PowerRac double-acting and spring-return cylinder, G-Series cylinder               |

## DeZURIK On-Center Resilient-Seated Butterfly Valves (BOS-CL)

BOS-CL Resilient-Seated Butterfly Valves are designed to handle a wide variety of liquids and gases. BOS-CL valves feature an on-center disc; one-piece body; high-performance resilient seat bonded to a solid backing ring, three heavy duty bearings, and a blow-out proof shaft to the full valve rating. BOS-CL valves have bi-directional bubble-tight shutoff to the full valve rating; dead end service with downstream flange attached.

|                           |   |
|---------------------------|---|
| <b>Size Range:</b>        | 2-24" (50-600mm)  |
| <b>Temperature Range:</b> | to 250°F (121°C)  |
| <b>Pressure Rating:</b>   | 2-12" (50-300mm) = 175 psi (1210 kPa);<br>14-24" (350-600mm) = 150 psi (1030 kPa)   |
| <b>Body Styles:</b>       | Lugged  |
| <b>Body Material:</b>     | Ductile iron  |
| <b>Actuator Type:</b>     | Lever, handwheel, chainwheel, PowerRac double-acting and spring-return cylinder, Compak double-acting cylinder, G-Series cylinder |



## Control Valves

### DeZURIK High Performance Butterfly Valves (BHP)

High Performance Butterfly Valves are designed for shutoff and throttling control of general applications to viscous and corrosive liquids; corrosive gases and steam. A wide variety of seat types are available including the dynamic PTFE seat which provides bubble-tight shutoff in both directions; dual metal/PTFE seat for dirty, viscous services; and the Fyre Block seat, designed for fire safe applications, which meets API 607 fire test standards. NACE trim, stem seal options for fugitive emissions control, pressurized neck extensions for cryogenic applications, plus many other options are available.

|                                       |   |
|---------------------------------------|---|
| <b>Size Range:</b>                    | 2-60" (50-1500mm)   |
| <b>Temperature Range:</b>             | to 700°F (370°C). On application to 1000°F (to 540°C)   |
| <b>ASME Class Rating:</b>             | 150, 300  |
| <b>Pressure Rating:</b>               | 275-740 psi (1890-5100 kPa); 150 psi (1030 kPa) option 36" (900mm) and larger.  |
| <b>Shutoff Class: (ANSI/FCI 70-2)</b> | PTFE, Dual and Fyre-Block Seat, Class VI; Metal seat, Class IV or V   |
| <b>Body Styles:</b>                   | Wafer or lugged   |
| <b>Body Materials:</b>                | Carbon steel, 316 or 317 stainless steel, other materials on application  |
| <b>Actuator Type:</b>                 | Lever, handwheel, chainwheel, square nut, PowerRac double-acting and spring-return cylinder, spring-return diaphragm, Compak double-acting and spring-return cylinder |



## DeZURIK Rotary Control Valve (RCV)



The RCV Valve combines the control accuracy of a globe valve with the strength of a severe-service ball valve in a control valve for throttling liquids, gases and slurries. It combines precise throttling accuracy and control over a full 90° of rotation. Tungsten carbide coated trim components and design features provide superior erosion resistance. The RCV valve is designed for bi-directional flow capability and includes four trim options for flexibility. It is designed for ease of maintenance with no internal threaded components and self-aligning seat and plug. Flanged or flangeless designs meet ASME or ISA face-to-face dimensions.

|   |  |
|---|--|
| <b>Size Range:</b>                        | 1-12" (25-300mm)   |
| <b>Temperature Range:</b>                 | to 1000°F (540°C)  |
| <b>ASME Class Rating:</b>                 | 150, 300   |
| <b>Pressure Rating:</b>                   | 285-740 psi (1965-5100 kPa)  |
| <b>Shutoff Class:<br/>(ANSI/FCI 70-2)</b> | Metal Seat Class IV  |
| <b>Body Styles:</b>                       | Flanged or flangeless  |
| <b>Body Materials:</b>                    | 316 and 317 stainless steel, carbon steel, Hastelloy C, Titanium   |
| <b>Trim Sizes:</b>                        | High, Full, .5 Reduced, .2 Reduced   |
| <b>Actuator Type:</b>                     | Handwheel, chainwheel, PowerRac double-acting and spring-return cylinder actuators, spring-return diaphragm actuator |

## DeZURIK V-Port Ball Valves (VPB)



V-Port Ball Valves are versatile valves designed for accurate throttling control of fibrous suspension applications in addition to clean, dirty, viscous and corrosive liquids and gases. They are designed to meet the highest industry standards for dynamic performance. Flanged or flangeless designs meet ASME or ISA face-to-face dimensions. Design features include blow-out proof shaft protection, high flow capacity, splined ball-to-shaft connection for ease of maintenance and zero backlash. Seat options include flexible metal, rigid metal, clearance and reinforced PTFE seats.

|   |   |
|---|---|
| <b>Size Range:</b>                        | 1-20" (25-500mm)  |
| <b>Temperature Range:</b>                 | to 1000°F (540°C)   |
| <b>ASME Class Rating:</b>                 | 150, 300  |
| <b>Shell Pressure Rating:</b>             | to 275-740 psi (1890-5102 kPa)  |
| <b>Shutoff Class:<br/>(ANSI/FCI 70-2)</b> | Flexible Metal ASME Class IV; Reinforced PTFE ASME Class VI; Rigid Metal ASME Class IV; Clearance is 5% of valve's maximum flow when closed |
| <b>Body Style:</b>                        | Flanged or flangeless   |
| <b>Body Materials:</b>                    | Carbon steel, 316 and 317 stainless steel, Hastelloy C  |
| <b>Actuator Types:</b>                    | Lever, handwheel, chainwheel, PowerRac double-acting and spring-return cylinder actuators, spring-return diaphragm actuator                 |

# Control Valves



## DeZURIK Precision Electric Control Valves (PPE)

DeZURIK's Precision Electric Control Valve is recognized industry wide as the most accurate and reliable basis weight control valve available. This high-resolution control valve is specifically designed for critical paper stock control, and is used for basis weight and head box level control applications. It provides unmatched control accuracy, positioning and repeatability with up to 7760 repeatable positions. The Precision Electric Valve accepts digital or analog signals. It features total electric operation with backlash that is essentially zero. Flange drilling is per ASME standards.

|                             |  |
|-----------------------------|--|
| <b>Size Range:</b>          | 4-20" (100-500mm)                        |
| <b>Temperature Range:</b>   | 32-180°F (0-82°C)                        |
| <b>Pressure Rating:</b>     | 275 psi (1890 kPa) CWP                   |
| <b>Body Materials:</b>      | 316 stainless steel                      |
| <b>Plug Type:</b>           | V-port concentric or straight concentric |
| <b>Actuator Type:</b>       | AC synchronous motor                     |
| <b>Feedback Mechanisms:</b> | Potentiometer or resolver                |



## DeZURIK Tail Gas High Performance Butterfly Valves (BTG)

DeZURIK has specially designed the Tail Gas High Performance Butterfly Valve to meet the rigorous requirements of services where polymerization or solidification of media can prevent valve operation, including tail gas service in refinery sulfur recovery units, polymer processing, asphalt service and adhesive manufacturing. Tail Gas Valves feature the dual seat design and include steam jackets and other unique features which keep the valve at process temperature and protect critical bearing and seat areas.



## DeZURIK Unidirectional Cast Stainless Steel Knife Gate (KGN-MSU)



The KGN-MSU Unidirectional Metal Seated Cast Stainless Steel Knife Gate Valves are designed to meet MSS SP-81 and have a one-piece body with integral metal seat to meet shut-off requirements. The packing gland is the same material as the body and supports a variety of packing types. Valves can be mounted with a variety of accessories including cylinders with limit switches and solenoids.

|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | 2-36" (50-900mm)   |
| <b>Temperature Range:</b> | 1000°F (540°C)   |
| <b>Pressure Rating:</b>   | 2-24" (50-600mm) 150 psi (1030 kPa) CWP; above 24" (600mm) 100 psi (690 kPa) CWP |
| <b>Body Materials:</b>    | 304 and 316 stainless steel  |
| <b>Actuator Type:</b>     | Handwheel, bevel gear, cylinder  |

## DeZURIK Bi-Directional Cast Stainless Steel Knife Gate (KGN-RSB)



The KGN-RSB Bi-Directional Cast Stainless Steel Knife Gate Valves are resilient seated valves designed to meet MSS SP-81 that provide bubble-tight shutoff in both directions. The body and gate are available in 304 or 316 stainless steel. Valves come standard with handwheel actuators.

|                           |                                 |
|---------------------------|---------------------------------|
| <b>Size Range:</b>        | 2-24" (50-600mm)                |
| <b>Temperature Range:</b> | to 400°F (204°C)                |
| <b>Pressure Rating:</b>   | 150 psi (1030 kPa) CWP          |
| <b>Body Materials:</b>    | 304 and 316 stainless steel     |
| <b>Actuator Type:</b>     | Handwheel as standard, cylinder |

## DeZURIK Extended Service Cast Stainless Steel Knife Gate (KGC-ES)



Extended Service Cast Stainless Steel Knife Gate Valves are designed to meet MSS SP-81 and provide improved sealing, extended packing life and reduced maintenance in the toughest corrosive, abrasive liquid, slurry or dry material applications. The full port knife gate valve features a corrosion-resistant cast stainless steel body, gate, stem and packing gland. Resilient seats provide unidirectional driptight shutoff; metal seats meet MSS SP-81 standard. KGC Valves can withstand full reverse pressure. A V-orifice design is available for throttling applications. DeZURIK 2-24" KGC Knife Gate Valves conform to the requirements for design and production testing of AWWA C520.

|                           |   |
|---------------------------|---|
| <b>Size Range:</b>        | 2-48" (50-1200mm)   |
| <b>Temperature Range:</b> | to 1000°F (540°C)   |
| <b>Pressure Rating:</b>   | 150 psi (1030 kPa) CWP; Optional 30 & 36" (750 & 900mm) 100 psi (690 kPa) CWP |
| <b>Body Materials:</b>    | 304, 316, 317, 254-SMO, 2205 duplex stainless steel, Hastelloy C              |
| <b>Actuator Type:</b>     | Lever, handwheel, chainwheel, bevel gear, cylinder, electric motor            |

## DeZURIK Bi-Directional Cast Stainless Steel Knife Gate Valve (KGC-BD)

Bi-Directional Cast Stainless Steel Knife Gate Valves are designed to meet MSS SP-81 and feature a unique, patented perimeter resilient seat design that provides bubble-tight shutoff in either direction, even on dead end service. The valve is designed for isolation and on/off applications in the paper, chemical, mining, power and waste water industries. It is designed to handle clean, dirty, viscous and corrosive liquids, sludge, fibrous slurries, clean and corrosive gases.

|                           |   |
|---------------------------|---|
| <b>Size Range:</b>        | 2-36" (50-900mm)  |
| <b>Temperature Range:</b> | to 400°F (204°C)  |
| <b>Pressure Rating:</b>   | 2-28" (50-700mm) 150 psi (1030 kPa) CWP; 30-36" (750-900mm) 100 psi (690 kPa) CWP |
| <b>Body Materials:</b>    | 304, 316, 317, 254-SMO, 2205 duplex stainless steel, Hastelloy C                  |
| <b>Actuator Type:</b>     | Handwheel, chainwheel, bevel gear, cylinder, electric motor                       |



## DeZURIK Metal Cutting Cast Stainless Steel Knife Gate Valve (KGC-MC)

DeZURIK KGC-MC Metal Cutting Cast Stainless Steel Knife Gate Valves are designed to provide long service life in applications requiring shearing capabilities like those found in Pulp and Paper Recycle and Rejects Cyclone applications. The KGC-MC valve is designed to cut the media flow with no jamming problems. To withstand the high loads necessary to shear wires, staples or glass, the valves have a replaceable, serrated seat constructed of 410 Stainless Steel. The seat ring's teeth and teeth arrangement are designed to prevent bunching or clogging while cutting through wire and heavy trash.

|                           |                             |
|---------------------------|-----------------------------|
| <b>Size Range:</b>        | 3-24" (80-600mm)            |
| <b>Temperature Range:</b> | to 500°F (260°C)            |
| <b>Pressure Rating:</b>   | 150 psi (1030 kPa) CWP      |
| <b>Body Materials:</b>    | 316 and 317 stainless steel |
| <b>Actuator Type:</b>     | Cylinder                    |



## DeZURIK Maximum Duty Cast Stainless Steel Knife Gate (KGC-MD)



The Maximum Duty Cast Stainless Steel Knife Gate Valve is designed to meet MSS SP-81 and provides the sealing capabilities needed in highly abrasive applications such as sand cleaners. To withstand highly abrasive media, the valves have a replaceable hardened seat, hardened gate, full 100% port opening, high performance packing system with wire scraper rings, and heavy-duty superstructure.

|                           |                             |
|---------------------------|-----------------------------|
| <b>Size Range:</b>        | 3-24" (80-600mm)            |
| <b>Temperature Range:</b> | to 500°F (260°C)            |
| <b>Pressure Rating:</b>   | 150 psi (1030 kPa) CWP      |
| <b>Body Materials:</b>    | 304 and 316 stainless steel |
| <b>Actuator Type:</b>     | Cylinder, electric motor    |

## DeZURIK Urethane Lined Knife Gate Valves (KUL)



KUL Urethane Lined Knife Gate Valves are designed for on-off applications of abrasive slurry and dry abrasive materials. Urethane Lined Knife Gate Valves are ideally suited for applications in mining, chemical and food industries. KUL valves feature a one-piece, cast-in-place liner that provides bi-directional, drip-tight shutoff to the full valve rating. All wetted surfaces of the ductile iron body are lined with urethane. KUL can be used on dead-end service. Valves available in standard flanged, grooved end, and extended flanged body configurations.

|                           |   |
|---------------------------|---|
| <b>Size Range:</b>        | 2-48" (50-1200mm)   |
| <b>Temperature Range:</b> | -20 to 265°F (-29 to 130°C)                                 |
| <b>Pressure Rating:</b>   | 150 psi (1030 kPa) CWP or 250 psi (1720 kPa)                |
| <b>Body Materials:</b>    | Ductile iron with stainless steel gate                      |
| <b>End Connections:</b>   | Standard flanged, extended flanged, grooved end             |
| <b>Actuator Type:</b>     | Handwheel, chainwheel, bevel gear, cylinder, electric motor |



## DeZURIK Slurry Knife Gate Valves (KSL)

KSL Slurry Knife Gate Valves are designed for on-off (isolation) service in applications consisting of abrasive, high solids content, slurry service. KSL Slurry Knife Gate Valves are ideally suited for applications in the mining, power, and aggregate industries. The Slurry Valve features sleeves of natural rubber or other elastomers that are compressed by sleeve retainers that allow the valve to provide drip-tight shutoff. The Slurry Valve provides bi-directional, drip tight shutoff to full pressure rating. The gate fully retracts out of the flow path in the open position. The full port reduces turbulence and pressure drop across the valve. Slurry valves are available in long body face-to-face or short body per MSS SP-81.

|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | 2-24" (50-600mm) with larger sizes available on application  |
| <b>Temperature Range:</b> | to 177°F (81°C) as standard; up to 300°F (150°C) with optional seat materials  |
| <b>Pressure Rating:</b>   | KSL-SD 2-16" 150 psi CWP (1030kPa), 18-24" 100 psi CWP (690 kPa)<br>KSL-LA 100 psi CWP (690kPa), higher pressures available with optional gate materials |
| <b>Body Materials:</b>    | Ductile iron, carbon steel and various stainless steel or higher alloy materials   |



## DeZURIK Severe Service Knife Gate Valves (KSV)

The KSV Severe Service Knife Gate Valve is an ASME Class valve and complies with MSS SP-135. It is specially designed to withstand high pressures and abrasive slurries – some of the toughest services in mining, (including oil sands processing), steel, power, chemical, municipal sludge, bio-fuels production, and paper industries. Numerous features make this valve style ideal for isolation in high-pressure, high-density slurry lines. The rigid one-piece body, 100% diameter port, hard-faced gate and rotatable seat rings allow this valve to perform reliably in rigorous applications.

|  |  |
|--|--|
| <b>Size Range:</b>                       | 3-60" (80-1500mm)  |
| <b>Temperature Range:</b>                | to 450°F (232°C)   |
| <b>Pressure Rating:</b><br>(ASME B16.34) | Class 150 to 285 psi (1960 kPa) or Class 300 to 740 psi (5100 kPa)                           |
| <b>Body Materials:</b>                   | Low temperature carbon steel, carbon steel, 316 stainless steel, 2205 duplex stainless steel |
| <b>Actuator Type:</b>                    | Bevel gear handwheel, cylinder   |



## Hilton Bonnetless Knife Gate Valves (H-200)



Fabricated Bonnetless Knife Gate Valves can be built to US or International Standards. Available with wafer or special extended face-to-face dimensions for replacement of existing valves.

|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | 2-60" (50-1500mm)  |
| <b>Temperature Range:</b> | -40°F to 2000°F (-40°C to 1050°C)  |
| <b>Pressure Rating:</b>   | 25-300 psi (170-2070 kPa) CWP  |
| <b>Seating:</b>           | Metal or resilient with options for removable seat, inflatable seal or grease seal   |
| <b>Materials:</b>         | Solid alloy or alloy wetted parts construction. Available in any weldable alloy including stainless steel, Hastelloy, Inconel, Monel or Titanium. Optional abrasion and corrosion resistant designs with hard facing available |
| <b>Actuator Type:</b>     | Handwheel, chainwheel, bevel gear, hydraulic or pneumatic cylinder, electric motor   |

## Hilton Bonneted Knife Gate Valves (H-200-B)



Fabricated Bonneted Knife Gate Valves are built to US or International Standards. Available with wafer or special extended face-to-face dimensions for replacement of existing valves. Bonnets are full pressure rated with optional flushing or drain ports. Valves furnished with a backseating ring so valve can be repacked under pressure. Bonneted Knife Gate Valves have much lower packing loads, thus allowing for smaller sized actuation.

|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | 2-144" (50-3600mm)   |
| <b>Temperature Range:</b> | -40°F to 2000°F (-40°C to 1050°C)  |
| <b>Pressure Rating:</b>   | to 400 psi (2800 kPa) CWP  |
| <b>Seating:</b>           | Metal or resilient, unidirectional or bi-directional with options for removable seat, inflatable seal or grease seal   |
| <b>Materials:</b>         | Solid alloy or alloy wetted parts construction. Available in any weldable alloy including stainless steel, Hastelloy, Inconel, Monel or Titanium. Optional abrasion and corrosion resistant designs with hard facing available |
| <b>Actuator Type:</b>     | Handwheel, chainwheel, bevel gear, hydraulic or pneumatic cylinder, electric motor   |



## Hilton Bonneted Throttling Knife Gate Valves (H-300-B)

Fabricated Throttling Knife Gate Valves can be built to U.S. or International Standards in wafer or extended face-to-face dimensions. The heavy duty bonnet is designed for full rated pressure. Throttling Knife Gate Valves feature a square bottom, fully guided gate to minimize vibration under partially open positions, unlike standard knife gate valves.



|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | 6-144" (150-3700mm)  |
| <b>Temperature Range:</b> | -40°F to 2000°F (-40°C to 1050°C)  |
| <b>Pressure Rating:</b>   | to 400 psi (2800 kPa) CWP  |
| <b>Seating:</b>           | Galling resistant metal  |
| <b>Materials:</b>         | Valves and wetted parts are available in any weldable alloy, including stainless steel, Hastelloy, Inconel, Monel and Titanium. Optional abrasion and corrosion resistant designs with hard facing are available |

## Special Service Gate Valves

### Hilton Material Handling Knife Gate Valves (H-290)

Fabricated Material Handling Knife Gate Valves are specifically designed to be used on dry bulk materials where the valve is installed horizontally in a vertical pipe. A displacement pocket is provided which enables the valve to close through a standing column of packed material. Material Handling Knife Gate Valves can be bonneted or bonnetless, and are available with metal or resilient seats, with options for a removable seat. Ports can be round, square, rectangular or combination port with a round port on one side and a square or rectangular port on the other side, eliminating the need for a transition piece.



|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | 4-48" (100-1200mm) standard, custom sizes available  |
| <b>Temperature Range:</b> | -40°F to 2000°F (-40°C to 1050°C)  |
| <b>Seating</b>            | Metal or resilient   |
| <b>Materials:</b>         | Solid alloy or alloy wetted parts construction. Available in any weldable alloy including stainless steel, Hastelloy, Inconel, Monel or Titanium. Optional abrasion and corrosion resistant designs with hard facing available |
| <b>Actuator Type:</b>     | Handwheel, chainwheel, bevel gear, pneumatic or hydraulic cylinder, electric motor   |

## DeZURIK Level Sensor Isolation Valve (KLS)



Level Sensor Isolation Valves are specially designed for pulp & paper mills to mount between the stock chest and the level sensor. The Level Sensor Isolation Valve allows removal of the sensor without draining stock chest. Ratchet or socket drive actuators allow close mounting of valve to tank.

|                           |   |
|---------------------------|---|
| <b>Size Range:</b>        | 3" (80mm)   |
| <b>Temperature Range:</b> | to 450°F (233°C)  |
| <b>Pressure Rating:</b>   | 150 psi (1030 kPa) CWP  |
| <b>Body Materials:</b>    | 316 and 317 stainless steel, Hastelloy C, 254 SMO stainless steel |
| <b>Actuator Type:</b>     | Ratchet handle or socket drive with non-rising stem               |

## DeZURIK Coal Burner Isolation Valves (KCI/BIV)



Specially designed to isolate pulverized coal burner lines on coal-fired boilers during periodic maintenance shutdowns, providing increased safety by reducing the risk of fires and accidents. Features include rugged body construction, removable and rotatable seat ring, stainless steel rising or non-rising stem, and internal explosion pressure rating to 50 psi (340 kPa) per NFPA standards. A variety of hard faced seats for extended service life are available. ASME 125/150, NFPA and Babcock & Wilcox end connections available.

|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | 6-24" (150-600mm)                                    |
| <b>Temperature Range:</b> | On application                                       |
| <b>Pressure Rating:</b>   | 150 psi (1030 kPa) CWP                               |
| <b>Body Materials:</b>    | Carbon steel, 304 stainless steel                    |
| <b>Actuator Type:</b>     | Handwheel, chainwheel, nut, cylinder, electric motor |

## DeZURIK Double Block &amp; Bleed Knife Gate Valve (KSV-DBB)

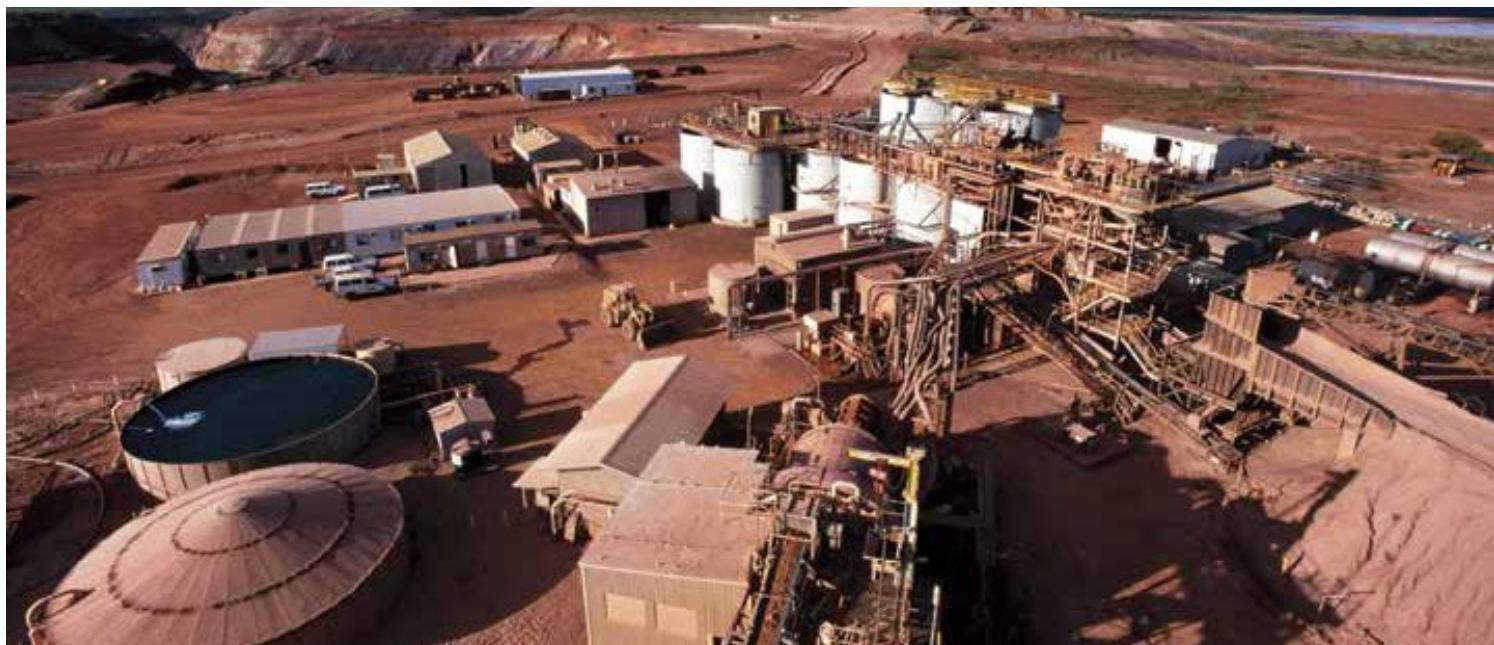


The design of the Double Block & Bleed Knife Gate Valve is based on the successful KSV Severe Service Knife Gate Valve design. It combines two ASME Class 150 or 300 pressure rated knife gate valves into a single unit with a single actuator and a central bleed port. This compact design provides a dual isolation solution, allowing personnel to isolate and drain downstream system media while safely maintaining upstream pressure. The integral double valve/single actuator design minimizes leak paths, reduces weight and saves costs. The Double Block & Bleed Knife Gate Valve is ideal for extremely abrasive media in the mining, petrochemical and other industries.

|   |  |
|---|--|
| <b>Size Range:</b>                              | 3-48" (80-1200mm)  |
| <b>Temperature Range:</b>                       | to 450°F (232°C)   |
| <b>Pressure Rating:</b><br><b>(ASME B16.34)</b> | Class 150 to 285 psi (1960 kPa) or Class 300 to 740 psi (5100 kPa)                           |
| <b>Body Materials:</b>                          | Low temperature carbon steel, carbon steel, 316 stainless steel, 2205 duplex stainless steel |
| <b>Actuator Type:</b>                           | Bevel gear handwheel, cylinder   |

## DeZURIK Lateral & Y Pattern Valve Assemblies (KGY)

Mixing and Diverting Knife Gate Valves are available with either an integral body or a replaceable body. Valves with the replaceable body design are bolted to a Y-pattern pipe, allowing easy replacement of a single valve rather than the entire assembly. They can be mounted in Y-pattern or Y-lateral configurations for either direct or reverse flow operation. Diverter valves with one inlet and two, three or four outlets are available in Y-pattern arrangements, with 60 or 90 degree angled valves. Y-lateral configurations are available with 30 or 60 degree angled valves. Mixing valves are available with one outlet and two, three or four inlets.



## Special Construction Gate Valves

### Hilton Square/Rectangular Knife Gate Valves (H-200-R)

Fabricated Square and Rectangular port knife gates are custom manufactured for each specific application. Square/Rectangular Knife Gate Valves are available with either metal or resilient seats for tight shut-off. Bonneted or bonnetless configurations available.

|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | 4-48" (100-1200mm) standard, custom sizes available  |
| <b>Temperature Range:</b> | -40°F to 2000°F (-40°C to 1050°C)  |
| <b>Pressure Rating:</b>   | to 300 psi (2070 kPa) CWP  |
| <b>Seating</b>            | Metal or Resilient   |
| <b>Materials</b>          | Solid alloy or alloy wetted parts construction. Available in any weldable alloy including stainless steel, Hastelloy, Inconel, Monel or Titanium. Optional abrasion and corrosion resistant designs with hard facing available |
| <b>Actuator Type:</b>     | Handwheel, chainwheel, bevel gear, pneumatic or hydraulic cylinder, electric motor   |



## Hilton Wedge Gate Valves (H-110)



Fabricated Wedge Gate Valves employ a solid wedge design which provides tight shutoff. Wedge Gate Valves are available with metal or resilient seats in specialty and custom designs including narrow or custom face-to-face dimension.

|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | 8-48" (200-1200mm) standard, custom sizes available  |
| <b>Temperature Range:</b> | -40°F to 1200°F (-40°C to 650°C)   |
| <b>Pressure Rating:</b>   | to 600 psi (4140 kPa) CWP  |
| <b>Materials</b>          | Solid alloy or alloy wetted parts construction. Available in any weldable alloy including stainless steel, Hastelloy, Inconel, Monel or Titanium. Optional abrasion and corrosion resistant designs with hard facing available |
| <b>Actuator Type:</b>     | Handwheel, chainwheel, bevel gear, pneumatic or hydraulic cylinder, electric motor   |

## Hilton Bonneted Slide Gate Valves (H-500-B)



Fabricated Bonneted Slide Gate Valves feature lightweight construction for low pressure systems with displacement pocket, tapered body and metal seat for column-cutting material handling service. Bonnet can have access panel for cleanout.

|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | through 48" (1200mm)   |
| <b>Temperature Range:</b> | to 2000°F (1093°C)   |
| <b>Pressure Rating:</b>   | Application requirements   |
| <b>Materials</b>          | Solid alloy or alloy wetted parts construction. Available in any weldable alloy including stainless steel, Hastelloy, Inconel, Monel or Titanium. Optional abrasion and corrosion resistant designs with hard facing available |
| <b>Actuator Type:</b>     | Handwheel, chainwheel, bevel gear, pneumatic or hydraulic cylinder, electric motor   |

## Hilton High Pressure / Temperature Knife Gate Valves (H-200-B)



Fabricated High Pressure/Temperature Valves are engineered for demanding applications, tailored to meet specific service conditions with custom styles, configurations, and materials.

|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | 6-24" (150-600mm)  |
| <b>Temperature Range:</b> | to 2000°F (to 1090°C)  |
| <b>Pressure Rating:</b>   | ANSI Class 600   |
| <b>Seating:</b>           | Metal or resilient with options for removable seat   |
| <b>Materials:</b>         | Solid alloy or alloy wetted parts construction. Available in any weldable alloy including stainless steel, Hastelloy, Inconel, Monel or Titanium. Optional abrasion and corrosion resistant designs with hard facing available |
| <b>Actuator Type:</b>     | Handwheel, chainwheel, bevel gear, pneumatic or hydraulic cylinder, electric motor   |

# Special Construction Gate Valves



## Hilton Split Gate (H-2150)

Specially designed cylinder actuated knife gate valve with double packing and overlapping gates to overcome the difficulties in handling steel mill blast furnace dust.

|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | 6-48" (150-1200mm)   |
| <b>Temperature Range:</b> | to 2000°F (1090°C)   |
| <b>Pressure Rating:</b>   | to 150 psi (1030 kPa)  |
| <b>Seating:</b>           | Metal or resilient with options for removable seat   |
| <b>Materials:</b>         | Solid alloy or alloy wetted parts construction. Available in any weldable alloy including stainless steel, Hastelloy, Inconel, Monel or Titanium. Optional abrasion and corrosion resistant designs with hard facing available |
| <b>Actuator Type:</b>     | Handwheel, chainwheel, bevel gear, pneumatic or hydraulic cylinder, electric motor   |



## Thru-Port Gate Valves

### DeZURIK O-Port Knife Gate (KGO)

Specially designed to handle high-density paper stock, wood chips, plastic pellets, cleaners, trash dump, and refiner bypass isolation applications. KGO O-Port Valves are designed to provide shutoff on a standing column of dry material. Adjustable chest guides provide positive gate-to-seat support and eliminate stock build-up and gate jamming. Flush ports allow prevention of stock dewatering in the valve body. Full standard port diameter minimizes turbulence and pressure loss. A resilient or hardened metal seat is available.

|                           |   |
|---------------------------|---|
| <b>Size Range:</b>        | 2-24" (50-600mm) Larger sizes on application                |
| <b>Temperature Range:</b> | to 1000°F (540°C)   |
| <b>Pressure Rating:</b>   | 150 psi (1030 kPa) CWP                                      |
| <b>Body Materials:</b>    | 316 stainless steel   |
| <b>Actuator Type:</b>     | Handwheel, chainwheel, bevel gear, cylinder, electric motor |



## Hilton Thru-Port Gate Valves (H-1500)



Fabricated Thru-Port bonneted or bonnetless designs with unobstructed round port or diamond shaped opening for precise throttling. Thru-Port Gate Valves can be used for slurries, solids or granular applications. Available with resilient seat for tight shut-off.

|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | 4-48" (100-1200 mm)  |
| <b>Temperature Range:</b> | to 2000°F (1090°C)   |
| <b>Pressure Rating:</b>   | to 400 psi (2760 kPa)  |
| <b>Seating:</b>           | Metal or resilient with options for removable seat   |
| <b>Materials:</b>         | Solid alloy or alloy wetted parts construction. Available in any weldable alloy including stainless steel, Hastelloy, Inconel, Monel or Titanium. Optional abrasion and corrosion resistant designs with hard facing available |
| <b>Actuator Type:</b>     | Handwheel, chainwheel, bevel gear, pneumatic or hydraulic cylinder, electric motor   |

## Hydro Valves

## Hilton Jet Flow Gates (H-2500)



Jet Flow Gates are used for free water discharge and flow control on dams and reservoirs. Jet Flow Gates are precision manufactured throttling valves designed for high pressure / high head service, and are built to U.S. Bureau of Reclamation specifications or designed for specific application requirements. Split body design with stainless steel gate, bronze gate guides and bronze seat ring. The bronze seat ring is tapered to direct the flow inward and prevent cavitation damage. Downstream side of the valve is larger than the upstream side for protection from cavitation. Unique features permit the valve to open smoothly in free discharge conditions, where there is pressure on the upstream side and zero pressure on the downstream side. Jet Flow Gates provide precise throttling capability throughout the entire stroke.

|                         |  |
|-------------------------|--|
| <b>Size Range:</b>      | to 96" (2400mm)  |
| <b>Pressure Rating:</b> | to 400 psi (2800 kPa) CWP  |
| <b>Materials:</b>       | Valves are normally supplied with epoxy coated carbon steel body with bronze seat ring and stainless steel gate. Other material available upon request |
| <b>Actuator Type:</b>   | Options include manual, electric and hydraulic. Hydraulic power units available  |

## Hilton Hydro Guard Gate Valves (H-300-B)

Fabricated Hydro Guard Valves are specially designed to provide shutoff or isolate a flow control valve for maintenance, such as Jet Flow Gates, Throttling Knife Gate Valves, or Fixed Cone Valves. Hydro Guard Gate Valves have a square bottom gate and are capable of closing under full flow in the event that the control valve cannot be closed. The valves are available with metal or resilient seats. They are normally bonneted, but can also be supplied bonnetless.



|                         |  |
|-------------------------|--|
| <b>Size Range:</b>      | to 144" (3600mm)   |
| <b>Pressure Rating:</b> | to 400 feet of head (173 psi),<br>Contact DeZURIK for higher pressures   |
| <b>Materials:</b>       | Solid alloy or alloy wetted parts construction. Available in any weldable alloy including stainless steel, Hastelloy, Inconel, Monel or Titanium. Optional abrasion and corrosion resistant designs with hard facing available |
| <b>Actuator Type:</b>   | Handwheel, chainwheel, bevel gear, cylinder, electric motor  |

## Hilton Bonneted Throttling Knife Gate Valves (H-340-B)

Fabricated Bonneted Throttling Gate Valves are constructed with heavy duty bonnets are designed for throttling service to full rated pressure. Valves are built to US or International Standards. Configurations include square bottom gate, round or V-Port. Bonneted Throttling valves are available with metal or resilient seats in wafer or extended face-to-face dimensions.



|                         |  |
|-------------------------|--|
| <b>Size Range:</b>      | to 144" (to 3600mm)  |
| <b>Pressure Rating:</b> | to 400 feet of head (173 psi),<br>Contact DeZURIK for higher pressures   |
| <b>Materials:</b>       | Solid alloy or alloy wetted parts construction. Available in any weldable alloy including stainless steel, Hastelloy, Inconel, Monel or Titanium. Optional abrasion and corrosion resistant designs with hard facing available |
| <b>Actuator Type:</b>   | Handwheel, chainwheel, bevel gear, cylinder, electric motor  |

## Hilton Fixed Cone Valves

Hilton Fixed Cone Valves are designed for continuous flow control with free discharge. Fixed Cone Valves are commonly used on reservoirs for water level control and turbine by-pass. These custom-fabricated valves include a unique rib design to reduce vibration. Their robust construction is designed to deliver years of trouble-free service.



|                       |  |
|-----------------------|--|
| <b>Materials:</b>     | Typically provided in carbon steel with stainless steel in critical components. Can be provided in all stainless or other weldable alloys. Epoxy coating options available |
| <b>Seating:</b>       | Metal to metal or resilient seat designs available   |
| <b>Actuator Type:</b> | Options include manual, electric and hydraulic. Hydraulic power units available  |

## APCO Cushioned Swing Check Valves (CVS-6000D/6000/6000A)



6000D



6000/6000A

Swing Check Valves prevent the back flow of fluid by closing before flow reversal, preventing slam and water hammer. APCO Swing Check Valves have been successfully installed in clean and dirty applications including sewage treatment, water treatment, water distribution, industrial water and wastewater services. Swing Check Valves are available with ASME Class 125/150 or Class 250/300 flanges. The designs meet or exceed the current revision of AWWA standard C-508. Closure control devices include Air Cushioned Cylinder, Oil Controlled Cylinder, Bottom Mounted Buffer, Lever & Spring and Lever & Weight. The CVS-6000/6000A may be ordered as convertible model that allows field conversion of the closure device.

|                         |   |
|-------------------------|---|
| <b>Size Range:</b>      | 2-66" (50-1700mm)   |
| <b>Body Style:</b>      | 6000D/6000/6000A  |
| <b>Pressure Rating:</b> | 6000D - up to 200 psi (1379 kPa) CWP<br>6000/6000A - up to 640 psi (4410 kPa) CWP |
| <b>Body Materials:</b>  | Ductile iron  |

## APCO Silent Check Valves (CSC)



300A Wafer Style

Silent Check Valves are designed to prevent water hammer in multi-story buildings and for use in vertical turbine pump installations when pumping from a well to an elevated reservoir. Silent Check Valves are recommended for commercial and industrial HVAC applications such as heating systems and condensate return lines. The valve closes silently, is low in cost, reliable and requires no regular maintenance. When the pump stops, the spring forces the disc closed against slight to no pump head at zero velocity which results in silent closure.

600A Globe Style



|                          |  |
|--------------------------|--|
| <b>Size Range:</b>       | Wafer 1-10" (15-250mm); Globe 3-42" (80-1100mm)            |
| <b>Body Style:</b>       | 300A Wafer and 600A Globe                                  |
| <b>Pressure Ratings:</b> | ASME Class 125/150 or Class 250/300                        |
| <b>Body Materials:</b>   | Cast iron, ductile iron, carbon steel, 316 stainless steel |



## APCO Slanting Disc Check Valves (CSD)

Slanting Disc Check Valves are a reliable and efficient check valve design. The disc pivot point is off center which slows the closing of the disc. The split body and angled body seat design increases the flow area around the disc by 40% creating very low head loss. Seating is metal to metal. Slanting Disc Check Valves are available as free opening and controlled closing or controlled opening and controlled closing. Slanting Disc Check Valves are recommended for maximum efficiency in power plants and water pumping stations.

|                           |   |
|---------------------------|---|
| <b>Size Range:</b>        | 2-72" (50-1800mm)                                 |
| <b>Body Style:</b>        | 800   |
| <b>ASME Class Rating:</b> | 125/150, 250/300                                  |
| <b>Pressure Ratings:</b>  | 250-740 psi (1720-5100 kPa)                       |
| <b>Body Materials:</b>    | Ductile iron, carbon steel or 316 stainless steel |



## APCO Double Door Check Valves (CDD)

Double Door Check Valves are designed to automatically prevent back-flow in systems where it is desirable to permit flow in one direction and prevent flow in the opposite direction. Double door check valves are recommended for clean liquids and gases and have an excellent performance reputation in refineries, petrochemical, gas liquefaction, other process industries and HVAC applications because of their cost-efficient design and non-slam properties. The low weight and short laying length saves initial cost, requires less space, and is easier to install when compared to full-body, swing-type check valves. APCO carbon steel and stainless steel CDD Double Door Check Valves meet ASME/API 594 face-to-face dimensions and ASME B16.5 Flange Dimensions.

|                          |   |
|--------------------------|---|
| <b>Size Range:</b>       | 2-36" (50-900mm); larger sizes available on application   |
| <b>Body Style:</b>       | 9000T   |
| <b>Pressure Ratings:</b> | ASME Class 150 for lugged valves; ASME Class 150/300 dual rated for 2-6" (50-150mm) wafer valves; ASME Class 150 for 8" (200mm) and larger wafer valves |
| <b>Body Materials:</b>   | Ductile iron, carbon steel, stainless steel, other materials available on application   |



## APCO Full Flow Rubber Flapper Foot Valves (FRF)

Full Flow Rubber Flapper Foot Valves are designed for raw sewage applications, and are suitable for continuously submerged service. The Rubber Flapper Foot Valve is installed in the vertical position with the direction of flow upward. In this position, the Foot Valve is normally closed. The Foot Valve opens while the centrifugal pump is running and closes when the pump stops running to maintain a primed flooded suction pump.

|                          |                        |
|--------------------------|------------------------|
| <b>Size Range:</b>       | 2-24" (50-600mm)       |
| <b>Body Style:</b>       | 100CF                  |
| <b>Pressure Ratings:</b> | 250 psi CWP (1720 kPa) |
| <b>Body Materials:</b>   | Ductile iron           |



## APCO Rubber Flapper Swing Check Valves (CRF)



Rubber Flapper Swing Check Valves feature a unique, simple design with only one moving part. The flapper does not swing from a hinge pin; it simply flexes open. The seat is on a 45° angle. The flapper travels 35° from open to close usually before column reversal can occur. It has non-slam characteristics. The valve requires no regular maintenance. Recommended for water, sewage, gas, oil and rubber lined for chemicals.

|                                  |  |
|----------------------------------|--|
| <b>Size Range:</b>               | 2-48" (50-1200mm)  |
| <b>Body Style:</b>               | 100C, 100, 100SR   |
| <b>Pressure Ratings:</b>         | 175 and 250 psi CWP (1210 and 1720 kPa).   |
| <b>Body Materials:</b>           | Ductile iron   |
| <b>Rubber Flapper Materials:</b> | Acrylonitrile Butadiene (NBR), and Terpolymer of Ethylene Propylene and A Diene (EPDM) |

## APCO Full Flow Foot Valves (FFF)



Full Flow Foot Valves can be installed at the bottom of a pump suction line, inside the wet well. Foot valves are an inexpensive way to maintain prime on a single centrifugal pump. The Foot Valve is designed with a 10% larger flow area (including heavy stainless steel strainer) than the pipe size to ensure minimal head loss. APCO Full Flow Foot Valves are designed to have the high quality, long wearing construction necessary for valves that are continually submerged in a wet well and not readily accessible for inspection or repair. Foot Valves have heavy cast bodies, rugged stainless steel internals and drop tight resilient seating to prevent loss of suction.

|                          |  |
|--------------------------|--|
| <b>Size Range:</b>       | 3-24" (80-600mm)                                       |
| <b>Body Style:</b>       | 1400A  |
| <b>Pressure Ratings:</b> | ASME Class 125/150                                     |
| <b>Body Materials:</b>   | Ductile iron, carbon steel, 304 or 316 stainless steel |



## Hilton Swing Check Valve (H-950)

The H-950 Swing Check Valve is designed for horizontal or vertical flow (not suitable for down-flow applications). When fully open the valve disc is out of the flow area allowing for 100% uninterrupted flow. Seating can be metal or resilient. The valve comes equipped with a bolted cover which can be removed while the valve is in the line. The connection between the disc and disc arm allows disc to move for precise alignment with the seating surface. The valve is available with external counterweight and bottom mounted buffer.

|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | 3-60" (80-1500mm)  |
| <b>Temperature Range:</b> | to 1000°F (540°C)  |
| <b>Pressure Ratings:</b>  | to 300 psi (2070 kPa) CWP  |
| <b>Materials:</b>         | Solid or wetted parts construction in any weldable alloy. Optional abrasion and corrosion resistant designs with hard facing are available |



## Hilton Slanting Disc Check Valve (H-900)

The Angle Disc Check Valve is designed for horizontal or vertical flow with a large flow area (not suitable for down-flow applications). The angled seat reduces disc travel from full closed to full open. The valve is equipped with a shaft pivot located slightly above centerline; pressure on disc area above pivot partially balances pressure on area below pivot to reduce slamming. The valve is available with external counterweight and dampener. The H-900 can be fabricated from any weldable alloy and is clearly marked to show direction of flow.

|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | 3-54" (80-1400mm)  |
| <b>Temperature Range:</b> | to 1000°F (540°C)  |
| <b>Pressure Rating:</b>   | to 150 psi (1030 kPa) CWP  |
| <b>Seating:</b>           | Metal or resilient   |
| <b>Materials:</b>         | Solid alloy or alloy wetted parts construction. Available in any weldable alloy including stainless steel, Hastelloy, Inconel, Monel or Titanium. Optional abrasion and corrosion resistant designs with hard facing available |



## Hilton Wafer Swing Check Valve (H-920)



The H-920 is designed for horizontal flow. The narrow face to face saves room in piping systems and the disc stop prevents interference between the disc and downstream piping. The valve is available with an external spring, counterweight or dampener. Seats can be metal or resilient, and body style can be wafer or with full flange with threaded bolt holes.

|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | 12-60" (300-1500mm)  |
| <b>Temperature Range:</b> | to 1000°F (540°C)  |
| <b>Pressure Rating:</b>   | to 300 psi (2070 kPa) CWP  |
| <b>Seating:</b>           | Metal or resilient   |
| <b>Materials:</b>         | Solid alloy or alloy wetted parts construction. Available in any weldable alloy including stainless steel, Hastelloy, Inconel, Monel or Titanium. Optional abrasion and corrosion resistant designs with hard facing available |

## Hilton Tilting Disc Check Valve (H-940)



The Tilting Disc Check Valve is designed with the shaft close to valve centerline which balances the disc so that the valve will open at a low pressure differential. O-ring shaft seals reduce friction. Seats can be metal or resilient, and body style can be wafer or with full flange with threaded bolt holes. Tilting Disc Check Valves are available with external counterweight or spring.

|                           |  |
|---------------------------|--|
| <b>Size Range:</b>        | 12-60" (300-1500mm)  |
| <b>Temperature Range:</b> | to 1000°F (540°C)  |
| <b>Pressure Ratings:</b>  | to 300 psi (2070 kPa) CWP  |
| <b>Materials:</b>         | Solid alloy or alloy wetted parts construction. Available in any weldable alloy including stainless steel, Hastelloy, Inconel, Monel or Titanium. Optional abrasion and corrosion resistant designs with hard facing available |



## APCO SmartCHECK™ Pump Control Valve (CPC)

The SmartCHECK Pump Control Valve is designed to control pressure surge during pump startup and shutdown, and close reliably when the pump stops - even during a power outage. The SmartCHECK Pump Control Valve includes the best features of APCO's CVS-6000 swing check valve integrated with a unique torque unit and an electric motor operator. SmartCHECK Pump Control Valves are ideal for applications in many industries, such as water, wastewater, mining and power.

|                    |  |
|--------------------|--|
| <b>Size Range:</b> | 4-20" (100-500mm)  |
| <b>Materials:</b>  | Ductile Iron with 17-4 PH stainless steel shaft. The disc seat is durable Ultra High Molecular Weight Polyethylene (UHMW). Body seat is Type 316 stainless steel |



## DeZURIK Pump and Control Valve Interface

The optional DeZURIK ECB Pump & Control Valve Interface is suggested to provide control between the pump and the SmartCHECK Pump Control Valve. The ECB Pump & Control Valve Interface is designed to start and stop the pumps and properly sequence the pump operation with the opening and closing of the pump control valve. In addition, it protects the pumping system from damage due to mechanical, hydraulic or power failure.



# Surge Relief Valve

## APCO Surge Relief Angle Valves (SRA)

Surge Relief Angle Valves are designed to prevent damage from water hammer in the system by opening when the system pressure exceeds the set shut-off pressure of the valve disc. As the disc opens, the surge pressure rise that caused it to open is spilled and dissipated through the open valve. When system pressure drops below the set shut-off pressure, the valve disc slowly closes against the oil contained in the cushion chamber and cylinder. Surge Relief Valves are designed with a smooth flow and minimal obstruction to flow for efficient surge relief.

|                               |  |
|-------------------------------|--|
| <b>Size Range:</b>            | 2-16" (50-400mm)                                   |
| <b>Body Style:</b>            | 3000A  |
| <b>Pressure Relief Range:</b> | to 200 psi (1380 kPa) CWP, depending on valve size |
| <b>Body Materials:</b>        | Ductile iron                                       |



## APCO Air Release Valves (ARV)



ARV-50A



ARV-200A

Air Release Valves function to release air pockets that collect at each high point of a pressured pipeline, and are essential for pipeline efficiency and water hammer protection. Air Release Valves are available in a wide variety of orifice sizes and materials of construction to meet a wide range of applications.

|                        |   |
|------------------------|---|
| <b>Size Range:</b>     | 1/2 - 6" (15-150mm)                                     |
| <b>Body Styles:</b>    | 50A, 200, 200A, 205, 206, 207                           |
| <b>Body Materials:</b> | Bronze, ductile iron, carbon steel, 316 stainless steel |

## APCO Single Body Combination Air Valves (AVC)



AVC

Single Combination Air Valves combines the features of Air/Vacuum Valves and Air Release Valves. These valves are installed on all high points of a system where both air release and vacuum pipeline protection is necessary. APCO Air/Vacuum Valves are float operated and have a large discharge orifice equal in size to the valve's inlet. Air/Vacuum valves allow large volumes of air to be exhausted from or admitted into a pipeline as it is being filled or drained.

|                        |  |
|------------------------|--|
| <b>Size Range:</b>     | Single Body 1-8" (25-200mm)                                |
| <b>Body Styles:</b>    | Single Body 143C, 145C, 147C, 149C, 150C, 151C             |
| <b>Body Materials:</b> | Ductile iron, cast iron, carbon steel, 316 stainless steel |

## APCO Dual Body Combination Air Valves (AVV)



AVV-1800

APCO AVV Dual Body Combination Air Valves combine an Air/Vacuum Valve with an Air Release Valve. Combination Air Valves, also called double orifice valves, are typically installed on all high points of a system where it has been determined that the functions of both an Air/Vacuum Valve and an Air Release Valve are needed to vent and protect a pipeline.

|                        |  |
|------------------------|--|
| <b>Size Range:</b>     | 1-18" (25-450mm)   |
| <b>Body Styles:</b>    | 1800 or 1800K  |
| <b>Body Materials:</b> | Ductile iron, cast iron, carbon steel, 316 stainless steel |

# Automatic Air Valves for Clean Fluids



## APCO Air/Vacuum Valves (AVV)

Air/Vacuum Valves are float operated and have a large discharge orifice equal in size to the valve's inlet. Air/Vacuum valves allow large volumes of air to be exhausted from or admitted into a pipeline as it is being filled or drained. As the pipeline fills, fluid enters the valve, raises the float and shuts-off. When draining the pipeline, the float drops and allows air to enter, preventing a vacuum and possible pipeline collapse or damaging water column separation.

|                        |  |
|------------------------|--|
| <b>Size Range:</b>     | ½-18" (15-450mm)   |
| <b>Body Styles:</b>    | 140, 140H, 150   |
| <b>Body Materials:</b> | Ductile iron, cast iron, carbon steel, 316 stainless steel |



AVV-140



AVV-150

## APCO Air Valves for Vertical Turbine Pumps

Air/Vacuum Valves for Vertical Turbine Pumps vent air from the pump column at the point of discharge from the pump (in advance of the pump check valve). Valves ½-3" are available with a water diffuser which breaks down the column of water into an aerated non-destructive stream of water. The Double Acting Throttling Device (DAT) permits regulation of the flow of air escaping from the valve to establish a back pressure, slowing the rising column of water and reducing start up surges. The Double Acting Throttling Device spring loaded mechanism allows full flow air in during draining of the system. This action results in smoother operation of the pumping system. Valves 1-18" are available with a Surge Check Valve (CSV) to ensure gentle closing of the air/vacuum valve. Controlled closure of the vertical turbine air valve reduces chance of water hammer or damage to the pump.



AVV with DAT



AVV with CSV

|                     |   |
|---------------------|---|
| <b>Size Range:</b>  | ½- 18" (15-450mm)   |
| <b>Body Styles:</b> | Air/Vacuum Valve (AVV) with optional Double Acting Throttling Device (DAT) and Surge Check Valve (CSV) for slow closing |



## APCO Vacuum Relief/Air Inlet Valves (AVR)



Vacuum Relief/Air Inlet Valves are normally closed valves. When the system pressure becomes negative, the valve opens, allowing air into the system to prevent a vacuum from building. When system pressure returns to positive, the Vacuum Relief/Air Inlet Valve closes air tight. Standard Vacuum Relief/Air Inlet Valves are designed to open with a minimal, 1/4 psi pressure differential across the orifice. Higher or lower relief settings are available to suit the application.

|                         |   |
|-------------------------|---|
| <b>Size Range:</b>      | 3-24" (80-600 mm)                               |
| <b>Body Styles:</b>     | 1500A, 1500AC                                   |
| <b>Pressure Rating:</b> | ASME Class 125/150 or Class 250/300             |
| <b>Body Materials:</b>  | Ductile iron, carbon steel, 316 stainless steel |

## Water/Wastewater Combination Air Valves

## APCO High Performance Combination Air Valves (ASU)



APCO High Performance Combination Air Valves (ASU) are suitable for use on water, wastewater or industrial media containing hydrocarbons, chemicals, solvents and volatiles. Clean interior design and direct shaft mounted float eliminates troublesome linkages that can lead to frequent maintenance. The shape of the upper valve body creates an air compression chamber to limit fluid level and solids interference. The funnel shaped lower body reduces solids buildup on sewage applications where solids may interfere with operation, yet it still allows for maximum outflow and self-cleaning. The unique venting design provides varied and predictable air flow over a wide range of air release and air/vacuum conditions.

|                         |  |
|-------------------------|--|
| <b>Size Sizes:</b>      | 1-6" (25-150mm)                                    |
| <b>Operating Range:</b> | 2-150 psi (14-1035 kPa) or 2-300 psi (14-2070 kPa) |
| <b>Body Materials:</b>  | 316 stainless steel                                |



## APCO Sewage Air/Vacuum Valves (ASV)

Sewage Air/Vacuum Valves vent large volumes of air when the sewage line is filled and allow air to re-enter when draining, to prevent vacuum or column separation from occurring. The valve is offered in a single body or dual body combination style which includes an independent, side-connected Air Release Valve.

|                        |   |
|------------------------|---|
| <b>Size Range:</b>     | 1-14" (25-350mm)                                |
| <b>Body Styles:</b>    | 401   |
| <b>Body Materials:</b> | Ductile iron, carbon steel, 316 stainless steel |



## APCO Single Body Sewage Combination Air Valves (ASC)

Combination Air Valves are installed on all high points of a system where dual function Air Release and Air/Vacuum Valves are needed to release air and also to protect the pipeline from vacuum. The single elongated body prevents sewage or dirty wastewater from fouling the venting mechanism which provides both high efficiency and reliability.

|                        |                         |
|------------------------|-------------------------|
| <b>Size Range:</b>     | 1-6" (25-150mm)         |
| <b>Body Styles:</b>    | 440                     |
| <b>Body Materials:</b> | Cast iron, ductile iron |



## APCO Dual Body Sewage Combination Air Valves (ASV)

Dual Body Combination Sewage Air Valves vent large volumes of air through the large orifice and small pockets of air through the small orifice. During normal operation, pockets of air collecting will be vented through the small orifice automatically. Should vacuum develop in the force main, the upper spherical float will open the large orifice permitting large volumes of air to re-enter the force main to break the vacuum. The upper float is protected against opening vacuum impact with a resilient bumper. When the force main returns to normal pressure, the Dual Body Combination Sewage Air Valve will close without spillage.

|                        |   |
|------------------------|---|
| <b>Size Range:</b>     | 1-14" (25-350mm)                                |
| <b>Body Styles:</b>    | 401C  |
| <b>Body Materials:</b> | Ductile iron, carbon steel, 316 stainless steel |



## APCO Sewage Air Release Valves (ASR)

Because sewage media generates large quantities of gas, the potential for air entrapped with sewage pipelines is even greater than in water lines. It is recommended that each high point be protected with a Sewage Air Release Valve. The elongated body of the Sewage Air Release Valve minimizes clogging by permitting use of a much longer float stem to prevent the sewage from fouling up the mechanism.

|                        |   |
|------------------------|---|
| <b>Size Ranges:</b>    | 2-4" (50-100mm)                                 |
| <b>Body Style:</b>     | 400, 450  |
| <b>Body Materials:</b> | Ductile iron, carbon steel, 316 stainless steel |



## Willamette AWWA Metal Seated Ball Valves (VBL)



Willamette AWWA Metal Seated Ball Valves meet AWWA C507 and have full bore unobstructed waterways resulting in the lowest amount of head loss compared to other inline valve styles. Ball valves utilize a torque unit to provide controlled opening and closing. Metal Seated Ball Valves are ideally suited for pump stop/start and check service, controlling flow discharge to prevent pressure surges. These ball valves are recommended for high velocities (above 100 FPS), flow control or buried service with critical isolation applications. Willamette AWWA Metal Seated Ball Valves are ruggedly designed with metal-to-metal seating to last for decades. Valves can be single or double seated. VBL Ball Valves can be furnished with electric, hydraulic or pneumatic or manual handwheel operators.

|                         |  |
|-------------------------|--|
| <b>Size Range:</b>      | 6-54" (150-1400mm)                                   |
| <b>Body Styles:</b>     | Single Seated or Double Seated                       |
| <b>Pressure Rating:</b> | 150, 250, 300 psi (1030, 1720, 2070 kPa) CWP service |
| <b>Body Materials:</b>  | Ductile iron   |

## Willamette Metal Seated Cone Valves (VMC)



Willamette Metal Seated Cone Valves are built to last under the most severe conditions. They are 100% full port, conical plug type valves with a circular waterway through both body and plug in the full open position. Each valve consists of a tapered cone/plug that fits precisely into a mating body. Valves can have a Double Seat Plug with the seat in the closed position as standard or an optional Four Seat Plug with a seat in both the open and closed position. Valves can be furnished with Electric, Hydraulic or Pneumatic or Manual Handwheel operators.

|                         |  |
|-------------------------|--|
| <b>Size Range:</b>      | 6-48" (150-1200mm)                                   |
| <b>Body Styles:</b>     | Double Seat Plug or Four Seat Plug                   |
| <b>Pressure Rating:</b> | 150, 250, 300 psi (1030, 1720, 2070 kPa) CWP service |
| <b>Body Materials:</b>  | Ductile iron   |



## DeZURIK Custom Hydraulic Power Units

DeZURIK custom designed hydraulic power units are available to provide a tremendous range of power to drive single or multiple hydraulic cylinder valve actuators to fit a wide variety of industry applications. Hydraulic Power Units (HPU) can be configured to deliver continual power for valve operation, or they can be configured to provide emergency power in case of power failure.

DeZURIK HPU Systems can be designed to provide efficient power distribution for up to 12 valves. For throttling or valve positioning applications, HPUs deliver a steady supply of power for accurate control. Choose from Custom Designed or Standard Traditional AC Unit.

Custom Hydraulic Power Units can also be designed to operate in extreme conditions including hazardous atmospheres or in submerged applications.



## DeZURIK G-Series Manual Actuators



DeZURIK manual actuators are constructed for dependable and lasting performance. Rugged worm gear design and heavy duty-corrosion resistant bearings provide easy valve operation and reliable long life. Both above ground and buried actuators are equipped with corrosion resistant stainless steel input shaft and bolting as standard. Housing is fully sealed and grease filled for maintenance-free service.

## DeZURIK G-Series Cylinder Actuators



DeZURIK cylinder actuators have demonstrated reliability and performance to match. These actuators utilize a rack and pinion design for smooth and efficient operation. The cylinder barrel is not only corrosion resistant but also highly impact resistant fiberglass resin composite. At the heart of the cylinder is a unique piston seal design that applies a triple PTFE wiper with nitrile rubber backing for resiliency.

## DeZURIK Compak Actuators



Compak cylinder actuators are a versatile rack and pinion design. The compact, modular design allows the actuator to be mounted for a low profile assembly. The actuators feature enclosed construction and adjustable double limit stops.

## DeZURIK Rotary Diaphragm Actuators



DeZURIK Rotary Diaphragm Actuators are designed specifically for use on quarter-turn valves. The actuators set the industry standard for accurate performance, rugged construction and long, economical service life. The actuators are designed for on/ off or modulating service in either a fail-open or fail-closed mode. Action can be easily changed in the field with no additional parts required. The spring cartridge is cage retained at the factory for increased safety. The output shaft is supported at the top and bottom with bronze bearings that absorb side thrust and ensure smooth, efficient, and accurate throttling control. Rotary Diaphragm Actuators are available with safety lockout devices.

## DeZURIK LA-Series Actuators



LA-Series Actuators are designed for use on large DeZURIK AWWA Butterfly Valves. The LA-Series Actuator meets the requirements of AWWA C504 standards. The link-arm mechanism allows the LA-Series Actuator to provide characterized closure that slows valve travel and increases torque as the disc comes into the seat. The actuators feature high compressive strength yoke nut bearings that ensure reliable operation and increased cycle life. The actuator is self-locking, maintaining valve position under varying flow conditions.

## DeZURIK MG-Series Actuators

Manual Gear Actuators feature a ductile iron gear with sintered bronze bearings on each end of the stainless steel input shaft for durability and performance. The actuators include external adjustable stops, easily visible indicator, is suitable for buried service and offers an optional safety lockout on handwheel actuators.



## DeZURIK PowerRac Cylinder Actuators

The rack and pinion design of PowerRac Actuators provides high-operating torque for accurate control in modulating services, and high opening torque for on/off services. The unique square collet coupling rigidly clamps the drive pinion to the valve shaft, eliminating backlash in the drive connection. Positioners are solidly mounted on the actuator housing with a square nut, feeding exact valve position directly to the positioner. The modular design and compact size allow the actuator to be close coupled to the valve. Standard ISO bolt circle allows PowerRac Actuators to be used on all DeZURIK quarter turn valves. Double-acting or fail-safe spring-return cylinder options are available.



## DeZURIK Knife Gate Valve Cylinder Actuators

DeZURIK Knife Gate Valve Cylinder actuators are designed with a removable and replaceable cartridge assembly that houses the wear components for ease of maintenance. Actuators are cycle tested to 50,000 cycles and are mounted to a heavy duty cast superstructure in carbon steel or stainless steel to minimize corrosion.



# Quarter Turn Valves Selection Chart

| DeZURIK   |   |   |  |   |   |                                 |
|---|---|---|--|---|---|---------------------------------|
| Plug Valves   |   |   | Butterfly Valves   |   |   |                                 |
| Eccentric Plug Valves   |   | 3-Way & 4-Way   | AWWA   | Resilient Seated  |   |                                 |
|  |  |  |  |  |  |                                 |
| MODEL   | PEC   | PEF   | PTW/PFW  | BAW   | BOS-US  | BOS-CL                          |
| Size Range  | 1/2-72" (15-1800 mm)  | 3-36" (80-900 mm)   | 2-16" (50-400 mm)  | 3-168" (80-4200 mm)   | 2-20" (50-500 mm)<br>Larger sizes on application                                    | 2-24" (50-600 mm)               |
| Seat Type   | Metal & Resilient   | Resilient   | Metal & Resilient  | Resilient   | Resilient   | Resilient                       |
| Cavitation (Kc) @ 60% Open  | 0.59  | 0.59  | N/A  | 0.35  | 0.35  | 0.35                            |
| Recovery Factor F <sub>L</sub> <sup>2</sup> at 60% Open                           | 0.7   | 0.7   | N/A  | 0.4   | 0.4   | 0.4                             |
| Shutoff Class   | ANSI/FCI 70-2, VI or better   | ANSI/FCI 70-2, VI or better   | N/A  | AWWA C504   | ANSI/FCI 70-2, VI or better   | ANSI/FCI 70-2, VI or better     |
| Pressure Rating   | 125-450 psi CWP (860-3100 kPa)  | 150-175 psi CWP (1030-1210 kPa)   | 125 psi CWP (860 kPa)  | AWWA 25B, 75B, 150B & 250B  | 200-250 psi CWP (1380-1720 kPa)   | 150-175 psi CWP (1030-1210 kPa) |
| On-Off  | Typical Application   | Typical Application   | Not Used   | Typical Application   | Typical Application   | Typical Application             |
| Throttling  | Typical Application   | Typical Application   | May Be Used  | Typical Application   | Typical Application   | Typical Application             |
| Control   | Typical Application   | Typical Application   | Limited Application  | Typical Application   | Typical Application   | Limited Application             |
| Diversion   | Not Used  | Not Used  | Typical Application  | Limited Application   | Limited Application   | Limited Application             |
| Liquids (Clean)   | Typical Application   | Typical Application   | Typical Application  | Typical Application   | Typical Application   | Typical Application             |
| Liquids (Dirty)   | Typical Application   | Typical Application   | Typical Application  | Limited Application   | Limited Application   | Limited Application             |
| Liquids (Viscous)   | Typical Application   | Typical Application   | Typical Application  | Limited Application   | Limited Application   | Limited Application             |
| Liquids (Corrosive)   | Typical Application   | Typical Application   | Typical Application  | Not Used  | Limited Application   | Limited Application             |
| Slurries (Sludge)   | Typical Application   | Typical Application   | Typical Application  | Not Used  | Not Used  | Not Used                        |
| Liquids & Slurries (Scaling)  | May Be Used   | May Be Used   | Not Used   | Not Used  | Not Used  | Not Used                        |
| Slurries (Abrasive)   | May Be Used   | May Be Used   | May Be Used  | Not Used  | Not Used  | Not Used                        |
| Slurries (Fibrous)  | May Be Used   | May Be Used   | Typical Application  | Not Used  | Not Used  | Not Used                        |
| High Pressure Steam (+150lbs.)  | Not Used  | Not Used  | Not Used   | Not Used  | Not Used  | Not Used                        |
| Low Pressure Steam  | Limited Application   | Limited Application   | Limited Application  | Not Used  | Not Used  | Not Used                        |
| Gases (Clean)   | Typical Application   | Typical Application   | Typical Application  | Typical Application   | Typical Application   | Typical Application             |
| Gases (Dirty)   | Typical Application   | Typical Application   | Typical Application  | May Be Used   | May Be Used   | May Be Used                     |
| Gases (Corrosive)   | Typical Application   | Typical Application   | Typical Application  | Not Used  | May Be Used   | May Be Used                     |
| Dry Materials   | May Be Used   | May Be Used   | Not Used   | Not Used  | Limited Application   | Limited Application             |
| High Flow Capacity  | May Be Used   | Typical Application   | Typical Application  | Typical Application   | Typical Application   | Typical Application             |
| Low Head Loss (Wide Open)   | May Be Used   | Typical Application   | Typical Application  | Typical Application   | Typical Application   | Typical Application             |
| Low Torque/Thrust   | May Be Used   | May Be Used   | Typical Application  | May Be Used   | May Be Used   | May Be Used                     |
| High Temp., 800°F+ (425°C+)   | Limited Application   | Limited Application   | Not Used   | Not Used  | Not Used  | Not Used                        |
| Cryogenic   | Not Used  | Not Used  | Not Used   | Not Used  | Not Used  | Not Used                        |
| Erosion Resistance  | May Be Used   | May Be Used   | Limited Application  | Not Used  | Limited Application   | Limited Application             |

# Quarter Turn Valves Selection Chart

| DeZURIK   |                                    |   | Willamette   |   |  |
|---|------------------------------------|---|--|---|--|
| Butterfly/Control Valves  | Rotary Control Valves              |   | Ball & Cone Valves   |   |  |
| High Performance  | Rotary Control Valve               | V-Port Control Valve  | Metal Seated Ball Valve  | Cone Valve  |  |
|  |                                    |  |  |  |  |
| MODEL   | BHP                                | RCV   | VPB  | VBL   | VMC  |
| Size Range  | 2-60" (50-1500 mm)                 | 1-12" (25-500 mm)   | 1-20" (25-500mm)   | 6-54" (150-1400mm)  | 6-48" (150-1200mm)                           |
| Seat Type   | Metal & Resilient                  | Metal   | Metal & Resilient  | Metal   | Metal  |
| Cavitation (Kc) @ 60% Open  | 0.35                               | 0.6   | 0.49   | N/A   | N/A  |
| Recovery Factor F <sup>2</sup> at 60% Open  | 0.43                               | 0.7   | 0.61   | N/A   | N/A  |
| Shutoff Class   | ANSI/FCI 70-2, IV, V, VI or better | ANSI/FCI 70-2, IV-VI  | ANSI/FCI 70-2, II, IV, VI or better  | AWWA C507   | Drop-Tight                                   |
| Pressure Rating   | ASME 150 & 300                     | ASME 150 & 300  | ASME 150 & 300   | 150, 250, 300 psi CWP (1030, 1720, 2070 kPa)  | 150, 250, 300 psi CWP (1030, 1720, 2070 kPa) |
| On-Off  | Typical Application                | Typical Application   | May Be Used  | Typical Application   | Typical Application                          |
| Throttling  | Typical Application                | Typical Application   | Typical Application  | Typical Application   | Typical Application                          |
| Control   | Typical Application                | Typical Application   | Typical Application  | Typical Application   | Typical Application                          |
| Diversion   | Limited Application                | Not Used  | Not Used   | Not Used  | Not Used                                     |
| Liquids (Clean)   | Typical Application                | Typical Application   | Typical Application  | Typical Application   | Typical Application                          |
| Liquids (Dirty)   | Limited Application                | Typical Application   | Typical Application  | Typical Application   | Typical Application                          |
| Liquids (Viscous)   | May Be Used                        | Typical Application   | Typical Application  | Typical Application   | Typical Application                          |
| Liquids (Corrosive)   | Typical Application                | Typical Application   | Typical Application  | May Be Used   | May Be Used                                  |
| Slurries (Sludge)   | Limited Application                | Typical Application   | Limited Application  | Typical Application   | Typical Application                          |
| Liquids & Slurries (Scaling)  | Not Used                           | May Be Used   | Limited Application  | Not Used  | Not Used                                     |
| Slurries (Abrasive)   | May Be Used                        | Typical Application   | Limited Application  | Not Used  | Not Used                                     |
| Slurries (Fibrous)  | May Be Used                        | Not Used  | Typical Application  | Not Used  | Not Used                                     |
| High Pressure Steam (+150lbs.)  | Typical Application                | Typical Application   | Limited Application  | Not Used  | Not Used                                     |
| Low Pressure Steam  | Typical Application                | Typical Application   | Typical Application  | Not Used  | Not Used                                     |
| Gases (Clean)   | Typical Application                | Typical Application   | Typical Application  | Not Used  | Not Used                                     |
| Gases (Dirty)   | Limited Application                | Typical Application   | Typical Application  | Not Used  | Not Used                                     |
| Gases (Corrosive)   | Typical Application                | Typical Application   | Typical Application  | Not Used  | Not Used                                     |
| Dry Materials   | Not Used                           | Not Used  | Not Used   | Not Used  | Not Used                                     |
| High Flow Capacity  | Typical Application                | Typical Application   | Typical Application  | Typical Application   | Typical Application                          |
| Low Head Loss (Wide Open)   | Typical Application                | Typical Application   | Typical Application  | Typical Application   | Typical Application                          |
| Low Torque/Thrust   | Typical Application                | May Be Used   | Typical Application  | Typical Application   | Typical Application                          |
| High Temp., 800°F+ (425°C+)   | Limited Application                | Limited Application   | Not Used   | Not Used  | Not Used                                     |
| Cryogenic   | Limited Application                | May Be Used   | Not Used   | Not Used  | Not Used                                     |
| Erosion Resistance  | May Be Used                        | Typical Application   | Limited Application  | Typical Application   | Typical Application                          |

# Knife Gate Valves Selection Chart

| General Service                |                                   | Premium Knife Gates                                 |   |   |   |   |  |
|--------------------------------|-----------------------------------|---|---|---|---|---|--|
| MODEL                          | KGN-MSU                           | KGN-RSB   | KGC-ES  | KGC-BD                                  | KGC-MC  | KGC-MD  |  |
| Valve Type                     | Metal Seat                        | Bi-Directional Resilient Seat                       | Extended Service Design Metal, Soft & Resilient Seat  | Premium Bi-Directional Resilient Seat   | Metal Cutting Design Metal Seat & Dual Metal/Resilient Seat | Maximum Duty Metal Seat & Dual Metal/Resilient Seat |  |
| Valve Design & Characteristics | Standard, Rugged & Economical     | Perimeter Seat, Economical Direct & Reverse Shutoff | DeZURIK Premium Packing System for Extended Seal Life |   |   |   |  |
|                                |                                   |   | Premium KGC   | Perimeter Seat Direct & Reverse Shutoff | Shearing Action   | Hardened Seats                                      |  |
| GENERAL SPECIFICATIONS         |                                   |   |   |   |   |   |  |
| Size Range                     | 2-36" (50-900mm)                  | 2-24" (50-600mm)                                    | 2-48" (50-1200mm)                                     | 2-36" (50-900mm)                        | 3-24" (80-600mm)  | 3-24" (50-600mm)                                    |  |
| Face-To-Face                   | MSS SP-81                         | MSS SP-81   | MSS SP-81   | MSS SP-81                               | MSS SP-81   | MSS SP-81   |  |
| Maximum Pressure Rating        | 100 or 150 psi CWP (690-1030 kPa) | 150 psi CWP (1030 kPa)                              | 150 psi CWP (1030 kPa)                                | 150 psi CWP (1030 kPa)                  | 150 psi CWP (1030 kPa)                                      | 150 psi CWP (1030 kPa)                              |  |
| Shutoff Class                  | MSS SP-81                         | Driptight   | MSS SP-81, 5cc/in/min*** or Driptight*                | Driptight                               | MSS SP-81 or Driptight*                                     | MSS SP-81 or Driptight*                             |  |
| Temperature (Up To)            | 1000°F (540°C)                    | 400°F (204°C)                                       | 1000°F (540°C)  | 400°F (204°C)                           | 500°F (260°C)   | 500°F (260°C)                                       |  |
| Throttling                     | Limited Application               | Limited Application                                 | May Be Used   | Limited Application                     | Not Used  | Limited Application                                 |  |
| COMMON MEDIA                   |                                   |   |   |   |   |   |  |
| Raw & Treated Water            | May Be Used                       | May Be Used   | Typical Application                                   | Maximum Performance                     | May Be Used   | Typical Application                                 |  |
| Clean Liquids                  | May Be Used                       | May Be Used   | Typical Application                                   | Maximum Performance                     | May Be Used   | Typical Application                                 |  |
| Dirty Liquids                  | May Be Used                       | May Be Used   | Maximum Performance                                   | Typical Application                     | May Be Used   | Typical Application                                 |  |
| Viscous Fluids                 | May Be Used                       | May Be Used   | Maximum Performance                                   | May Be Used                             | May Be Used   | Typical Application                                 |  |
| Water Conveyed Solids          | May Be Used                       | May Be Used   | Maximum Performance                                   | Limited Application                     | Limited Application   | Typical Application                                 |  |
| Scaling                        | Not Used                          | Not Used  | Limited Application                                   | Not Used                                | Limited Application   | Limited Application                                 |  |
| Dry Material                   | May Be Used                       | Not Used  | Typical Application                                   | Not Used                                | May Be Used   | Typical Application                                 |  |
| Hot Gases                      | May Be Used                       | Limited Application                                 | May Be Used   | Limited Application                     | Not Used  | May Be Used   |  |
| PULP & PAPER                   |                                   |   |   |   |   |   |  |
| Paper Stock To 3%              | Typical Application               | Typical Application                                 | Maximum Performance                                   | Typical Application                     | May Be Used   | May Be Used   |  |
| Paper Stock 3 To 6%            | Typical Application               | Limited Application                                 | Maximum Performance                                   | Typical Application                     | May Be Used   | May Be Used   |  |
| Paper Stock 6% Plus            | May Be Used                       | Not Used  | May Be Used   | Not Used                                | May Be Used   | May Be Used   |  |
| Liquor Service                 | Limited Application               | Limited Application                                 | Maximum Performance                                   | Maximum Performance                     | May Be Used   | May Be Used   |  |
| Recycle Trash                  | Limited Application               | Limited Application                                 | Typical Application                                   | Limited Application                     | Maximum Performance   | Typical Application                                 |  |
| MINING, MINERALS PROCESSING    |                                   |   |   |   |   |   |  |
| Slurry: 0 To 15% Solids        | May Be Used                       | May Be Used   | Typical Application                                   | May Be Used                             | Limited Application   | Typical Application                                 |  |
| Slurry: 15 To 30% Solids       | Limited Application               | Limited Application                                 | May Be Used   | Limited Application                     | Limited Application   | May Be Used   |  |
| Slurry: 30% Plus Solids        | Limited Application               | Not Used  | Limited Application                                   | Limited Application                     | Limited Application   | Limited Application                                 |  |
| Cyclones                       | Limited Application               | Limited Application                                 | May Be Used   | Limited Application                     | Not Used  | May Be Used   |  |
| CHEMICAL & PETROCHEMICAL       |                                   |   |   |   |   |   |  |
| Pellets, Dry Material          | May Be Used                       | Limited Application                                 | Maximum Performance                                   | May Be Used                             | May Be Used   | May Be Used   |  |
| Process Fluids, Chemicals      | May Be Used                       | May Be Used   | Maximum Performance                                   | Maximum Performance                     | May Be Used   | Typical Application                                 |  |
| Petroleum Products             | May Be Used                       | May Be Used   | Maximum Performance                                   | Maximum Performance                     | May Be Used   | Typical Application                                 |  |
| MUNICIPAL & HYDRO              |                                   |   |   |   |   |   |  |
| Pump/Equipment Isolation       | May Be Used                       | Typical Application                                 | Typical Application                                   | Typical Application                     | Limited Application   | Limited Application                                 |  |
| Dewatered Sludge               | Typical Application               | May Be Used   | Typical Application                                   | May Be Used                             | Limited Application   | Limited Application                                 |  |
| POWER**                        |                                   |   |   |   |   |   |  |
| Fly Ash                        | Limited Application               | Not Used  | Typical Application                                   | Not Used                                | Limited Application   | Maximum Performance                                 |  |
| Bottom Ash                     | Limited Application               | Not Used  | Typical Application                                   | Not Used                                | May Be Used   | Maximum Performance                                 |  |
| FGD Scrubbers                  | May Be Used                       | Not Used  | Typical Application                                   | Not Used                                | Limited Application   | May Be Used   |  |
| Hydraulic Flow Control         | May Be Used                       | May Be Used   | May Be Used   | May Be Used                             | Limited Application   | May Be Used   |  |
| Hydro Power & Dams             | May Be Used                       | May Be Used   | May Be Used   | May Be Used                             | Limited Application   | May Be Used   |  |
| FOOD & BEVERAGE                |                                   |   |   |   |   |   |  |
| Raw Material Handling          | May Be Used                       | Limited Application                                 | Typical Application                                   | May Be Used                             | Not Used  | Typical Application                                 |  |

\*Resilient seated valves only

\*\*For Coal Burner Isolation applications, refer to KCI or BIV (Hilton)

\*\*\*Soft seated valves only

CWP = Cold Working Pressure

NA = Not Applicable

[DeZURIK.com](http://DeZURIK.com)

# Knife Gate Valves Selection Chart

|                                     |  | Abrasion Resistant  |  | Severe Service   |  |
|-------------------------------------|--|---|--|--|--|
| MODEL                               | KUL  | KSL   | KSV  | DBB  |  |
| Valve Type                          | Urethane Lined Body<br>Bi-Directional      | Slurry Valve,<br>Resilient Sleeve<br>Lined, Bi-Directional  | ASME Class 150 & 300<br>for Severe, Abrasive<br>Services, Bi-Directional | Double Block &<br>Bleed Design<br>Bi-Directional                         |  |
| Valve Design & Characteristics      | Economical, General<br>Abrasion Resistance | Broad Range<br>Abrasion<br>& Corrosion<br>Resistance  | High Pressure,<br>High Abrasive<br>Shutoff &<br>Direct & Reverse Shutoff | Dual KSV<br>Bodies with<br>Isolating Chamber<br>Direct & Reverse Shutoff |  |
| <b>GENERAL SPECIFICATIONS</b>       |  |   |  |  |  |
| Size Range                          | 2-48" (50-1200 mm)                         | 2-24" (50-600mm)  | 3-60" (80-1500mm)  | 3-48" (80-1200mm)  |  |
| Face-To-Face                        | MSS SP-81                                  | NA  | MSS SP-135   | MSS SP-152   |  |
| Maximum Pressure Rating             | 150 or 250 psi CWP<br>(1030 or 1720 kPa)   | KSL-SD 2-16" 150 psi CWP (1030 kPa)<br>18-24" 100 psi CWP (690 kPa)<br>KSL-LA 100 psi CWP (690 kPa) | 285 or 740 psi ASME<br>(1960 or 5100 kPa)                                | 285 or 740 psi ASME<br>(1960 or 5100 kPa)                                |  |
| Shutoff Class                       | Driptight                                  | Driptight   | MSS SP-135 or Driptight*   | MSS SP-135 or Driptight*   |  |
| Temperature (Up To)                 | 265°F (130°C)                              | 300°F (150°C)   | 450°F (232°C)  | 450°F (232°C)  |  |
| Throttling                          | Limited Application                        | Not Used  | Limited Application  | Limited Application  |  |
| <b>COMMON MEDIA</b>                 |  |   |  |  |  |
| Raw & Treated Water                 | Typical Application                        | May Be Used   | May Be Used  | May Be Used  |  |
| Clean Liquids                       | Typical Application                        | May Be Used   | May Be Used  | May Be Used  |  |
| Dirty Liquids                       | Maximum Performance                        | May Be Used   | May Be Used  | May Be Used  |  |
| Viscous Fluids                      | Maximum Performance                        | Typical Application   | May Be Used  | May Be Used  |  |
| Water Conveyed Solids               | Maximum Performance                        | Typical Application   | May Be Used  | May Be Used  |  |
| Scaling                             | May Be Used                                | Typical Application   | May Be Used  | May Be Used  |  |
| Dry Material                        | Maximum Performance                        | Limited Application   | Limited Application  | Limited Application  |  |
| Hot Gases                           | Limited Application                        | May Be Used   | May Be Used  | May Be Used  |  |
| <b>PULP &amp; PAPER</b>             |  |   |  |  |  |
| Paper Stock To 3%                   | May Be Used                                | May Be Used   | May Be Used  | May Be Used  |  |
| Paper Stock 3 To 6%                 | May Be Used                                | May Be Used   | May Be Used  | May Be Used  |  |
| Paper Stock 6% Plus                 | Limited Application                        | May Be Used   | May Be Used  | May Be Used  |  |
| Liquor Service                      | Limited Application                        | Limited Application   | May Be Used  | May Be Used  |  |
| Recycle Trash                       | Limited Application                        | Limited Application   | May Be Used  | May Be Used  |  |
| <b>MINING, MINERALS PROCESSING</b>  |  |   |  |  |  |
| Slurry: 0 To 15% Solids             | Maximum Performance                        | Typical Application   | Maximum Performance  | Maximum Performance  |  |
| Slurry: 15 To 30% Solids            | Maximum Performance                        | Maximum Performance   | Maximum Performance  | Maximum Performance  |  |
| Slurry: 30% Plus Solids             | Typical Application                        | Maximum Performance   | Maximum Performance  | Maximum Performance  |  |
| Cyclones                            | May Be Used                                | Typical Application   | Maximum Performance  | Not Used   |  |
| <b>CHEMICAL &amp; PETROCHEMICAL</b> |  |   |  |  |  |
| Pellets, Dry Material               | May Be Used                                | May Be Used   | Limited Application  | Limited Application  |  |
| Process Fluids, Chemicals           | Typical Application                        | May Be Used   | Typical Application  | Typical Application  |  |
| Petroleum Products                  | Typical Application                        | May Be Used   | Typical Application  | Typical Application  |  |
| <b>MUNICIPAL &amp; HYDRO</b>        |  |   |  |  |  |
| Pump/Equipment Isolation            | May Be Used                                | Limited Application   | Limited Application  | Not Used   |  |
| Dewatered Sludge                    | May Be Used                                | Not Used  | Limited Application  | Not Used   |  |
| <b>POWER**</b>                      |  |   |  |  |  |
| Fly Ash                             | May Be Used                                | Limited Application   | May Be Used  | May Be Used  |  |
| Bottom Ash                          | Maximum Performance                        | Limited Application   | May Be Used  | May Be Used  |  |
| FGD Scrubbers                       | Typical Application                        | Maximum Performance   | May Be Used  | May Be Used  |  |
| Hydraulic Flow Control              | May Be Used                                | May Be Used   | May Be Used  | May Be Used  |  |
| Hydro Power & Dams                  | May Be Used                                | May Be Used   | May Be Used  | May Be Used  |  |
| <b>FOOD &amp; BEVERAGE</b>          |  |   |  |  |  |
| Raw Material Handling               | Maximum Performance                        | Limited Application   | May Be Used  | May Be Used  |  |

# Knife Gate Valves Selection Chart

|                                |  | O-Port  | Bonneted Designs  |   | Fabricated Custom Designs  |   |
|--------------------------------|--|---|---|---|--|---|
|                                |  |  |  |  |  |  |
| MODEL                          | KGO  | HILTON H-200-B  | HILTON HIGH PRESSURE H-200-B  | HILTON H-200-R  | HILTON H-1500  |   |
| Valve Type                     | Metal Seat O-Port for Recycle Paper                  | Fabricated Standardized Design to 144" (3600mm)                                   | Fabricated Standardized Design to 24" (600mm)                                     | Square & Rectangular Port Valves  | Round or Diamond Thru-Port   |   |
| Valve Design & Characteristics | Recycle Trash, Hi-Density Stock, Pellets, Wood Chips | Pressurized or un-pressurized bonnets, Custom designs to 144" (3600mm)            | Pressurized or un-pressurized bonnets, Custom designs to 24" (600mm)              | Designed to Application & Dimensional   | Heavy Duty Construction for Slurries & Dry Materials                               |   |
| GENERAL SPECIFICATIONS         |  |   |   |   |  |   |
| Size Range                     | 2-24" (50-600mm)                                     | 2-144" (50-3600mm)  | 2-24" (50-600mm)  | 4-48" (100-1200mm)  | 4-48" (100-1200mm)   |   |
| Face-To-Face                   | MSS SP-81  | MSS SP-81   | MSS SP-81   | As Specified  | As Specified   |   |
| Maximum Pressure Rating        | 150 psi CWP (1030 kPa)                               | 400 psi CWP (2760 kPa)  | ASME Class 600  | 300 psi CWP (2070 kPa)  | 400 psi CWP (2760 kPa)   |   |
| Shutoff Class                  | MSS SP-81  | MSS SP-81 or Driptight*  |   |
| Temperature (Up To)            | 1000°F (540°C)                                       | 2000°F (1090°C)   | 2000°F (1090°C)   | 2000°F (1090°C)   | 2000°F (1090°C)  |   |
| Throttling                     | May Be Used  | Not Used  | Not Used  | Not Used  | Typical Application  |   |
| COMMON MEDIA                   |  |   |   |   |  |   |
| Raw & Treated Water            | Typical Application                                  | Maximum Performance   | Maximum Performance   | May Be Used   | Not Used   |   |
| Clean Liquids                  | Typical Application                                  | Maximum Performance   | Maximum Performance   | May Be Used   | Not Used   |   |
| Dirty Liquids                  | Typical Application                                  | Maximum Performance   | Maximum Performance   | May Be Used   | Not Used   |   |
| Viscous Fluids                 | Typical Application                                  | Maximum Performance   | Maximum Performance   | May Be Used   | Not Used   |   |
| Water Conveyed Solids          | Typical Application                                  | Maximum Performance   | Maximum Performance   | May Be Used   | Not Used   |   |
| Scaling                        | Typical Application                                  | May Be Used   | May Be Used   | Limited Application   | Limited Application  |   |
| Dry Material                   | Typical Application                                  | May Be Used   | May Be Used   | May Be Used   | Maximum Performance  |   |
| Hot Gases                      | Limited Application                                  | May Be Used   | May Be Used   | Not Used  | Not Used   |   |
| PULP & PAPER                   |  |   |   |   |  |   |
| Paper Stock To 3%              | Typical Application                                  | Typical Application   | Typical Application   | Typical Application   | Maximum Performance  |   |
| Paper Stock 3 To 6%            | Typical Application                                  | Typical Application   | Typical Application   | Typical Application   | Maximum Performance  |   |
| Paper Stock 6% Plus            | Maximum Performance                                  | Typical Application   | Typical Application   | May Be Used   | May Be Used  |   |
| Liquor Service                 | Limited Application                                  | Typical Application   | Typical Application   | Typical Application   | Typical Application  |   |
| Recycle Trash                  | Typical Application                                  | Typical Application   | Typical Application   | Typical Application   | Typical Application  |   |
| MINING, MINERALS PROCESSING    |  |   |   |   |  |   |
| Slurry: 0 To 15% Solids        | Typical Application                                  | Typical Application   | Typical Application   | Typical Application   | Typical Application  |   |
| Slurry: 15 To 30% Solids       | Maximum Performance                                  | May Be Used   | May Be Used   | May Be Used   | May Be Used  |   |
| Slurry: 30% Plus Solids        | Maximum Performance                                  | May Be Used   | May Be Used   | May Be Used   | May Be Used  |   |
| Cyclones                       | Limited Application                                  | May Be Used   | May Be Used   | May Be Used   | May Be Used  |   |
| CHEMICAL & PETROCHEMICAL       |  |   |   |   |  |   |
| Pellets, Dry Material          | Limited Application                                  | Maximum Performance   | Maximum Performance   | May Be Used   | Typical Application  |   |
| Process Fluids, Chemicals      | Not Used   | May Be Used   | May Be Used   | Not Used  | Not Used   |   |
| Petroleum Products             | Limited Application                                  | May Be Used   | May Be Used   | Not Used  | Not Used   |   |
| MUNICIPAL & HYDRO              |  |   |   |   |  |   |
| Pump/Equipment Isolation       | Limited Application                                  | Maximum Performance   | Maximum Performance   | May Be Used   | Not Used   |   |
| Dewatered Sludge               | Limited Application                                  | Maximum Performance   | Maximum Performance   | May Be Used   | Typical Application  |   |
| POWER**                        |  |   |   |   |  |   |
| Fly Ash                        | Typical Application                                  | May Be Used   | May Be Used   | May Be Used   | Typical Application  |   |
| Bottom Ash                     | Typical Application                                  | May Be Used   | May Be Used   | May Be Used   | Typical Application  |   |
| FGD Scrubbers                  | Limited Application                                  | May Be Used   | May Be Used   | May Be Used   | Typical Application  |   |
| Hydraulic Flow Control         | Limited Application                                  | Typical Application   | Typical Application   | Not Used  | Not Used   |   |
| Hydro Power & Dams             | Not Used   | Typical Application   | Typical Application   | Not Used  | Not Used   |   |
| FOOD & BEVERAGE                |  |   |   |   |  |   |
| Raw Material Handling          | Limited Application                                  | May Be Used   | May Be Used   | Typical Application   | Typical Application  |   |

# Hydro Valves Selection Chart

| Hilton Hydro Valves            |  |  |  |  |
|--------------------------------|--|--|--|--|
| MODEL                          | HYDRO GUARD H-300-B                        | THROTTLING H-340-B                     | JET FLOW H-2500                        | FIXED CONE VALVE                                   |
| Valve Type                     | Shutoff & Isolation Knife Gate Valves      | Low Head Throttling Control            | High Head Throttling Control           | Flow Control on Free Discharge                     |
| Valve Design & Characteristics | Full Pressure Isolation of Flow Control    | Economical High Capacity Throttling    | Full Range Throttling on Critical      | Robust Construction Rib Design to Reduce Vibration |
| GENERAL SPECIFICATIONS         |  |  |  |  |
| Size Range                     | 6-144" (150-3600mm)                        | to 144" (3600mm)                       | to 96" (2400mm)                        | to 96" (2400mm)                                    |
| Face-To-Face                   | As Specified                               | As Specified                           | As Specified                           | As Specified                                       |
| Maximum Pressure Rating        | 400 Foot of Head (173 psi or 1190 kPa) CWP | 400 Foot of Head (173 psi or 1190 kPa) | 400 Foot of Head (173 psi or 1190 kPa) | 400 Foot of Head (173 psi or 1190 kPa)             |
| Shutoff Class                  | MSS SP-81 or Driptight*                    | MSS SP-81 or Driptight*                | MSS SP-81 or Driptight*                | MSS SP-81 or Driptight*                            |
| Temperature (Up To)            | 400°F (204°C)                              | 2000°F (1090°C)                        | 400°F (204°C)                          | 400°F (204°C)                                      |
| Throttling                     | Typical Application                        | Maximum Performance                    | Maximum Performance                    | Maximum Performance                                |
| COMMON MEDIA                   |  |  |  |  |
| Raw & Treated Water            | Typical Application                        | Maximum Performance                    | Not Used                               | Not Used   |
| Clean Liquids                  | Typical Application                        | Maximum Performance                    | Not Used                               | Not Used   |
| Dirty Liquids                  | Typical Application                        | Maximum Performance                    | Not Used                               | Not Used   |
| Viscous Fluids                 | Typical Application                        | Maximum Performance                    | Not Used                               | Not Used   |
| Water Conveyed Solids          | Typical Application                        | May Be Used                            | Not Used                               | Not Used   |
| Scaling                        | Typical Application                        | May Be Used                            | Not Used                               | Not Used   |
| Dry Material                   | Typical Application                        | Not Used                               | Not Used                               | Not Used   |
| Hot Gases                      | Typical Application                        | Not Used                               | Not Used                               | Not Used   |
| CHEMICAL & PETROCHEMICAL       |  |  |  |  |
| Pellets, Dry Material          | Typical Application                        | Not Used                               | Not Used                               | Not Used   |
| Process Fluids, Chemicals      | Not Used                                   | Typical Application                    | Not Used                               | Not Used   |
| Petroleum Products             | Not Used                                   | Typical Application                    | Not Used                               | Not Used   |
| MUNICIPAL & HYDRO              |  |  |  |  |
| Pump/Equipment Isolation       | Maximum Performance                        | Maximum Performance                    | Not Used                               | Not Used   |
| Dewatered Sludge               | Maximum Performance                        | Maximum Performance                    | Not Used                               | Not Used   |
| POWER**                        |  |  |  |  |
| Hydraulic Flow Control         | Maximum Performance                        | Maximum Performance                    | Maximum Performance                    | Maximum Performance                                |
| Hydro Power & Dams             | Maximum Performance                        | Maximum Performance                    | Maximum Performance                    | Maximum Performance                                |

# Check Valves Selection Chart

|                                      | APCO                                |   |  |                              |                                      |
|--------------------------------------|-------------------------------------|---|--|------------------------------|--------------------------------------|
|                                      | Swing Check Valve                   |   |  |                              | SmartCHECK™<br>Pump Control Valve    |
| MODEL                                | CVS-6000D                           | CVS-6000  | CVS-250  | CVS-EDV                      | CPC                                  |
| Valve Design & Characteristics       | Full Featured, Air Cushion Cylinder | Full Featured, Convertible, Oil Controlled Design | Meets AWWA C508. Fusion Bonded Epoxy Paint as Standard | Economical Swing Check Valve | Electric Motor Operated Pump Control |
| Size Range                           | 2-66" (50-1700mm)                   | 2-66" (50-1700mm)                                 | 2-42" (50-1100mm)                                      | 3-30" (80-750mm)             | 4-20" (100-500mm)                    |
| Seat Type                            | Metal, Resilient                    | Metal, Resilient                                  | Resilient  | Resilient                    | Resilient                            |
| Pressure Rating                      | 150 psi CWP (1034 kPa)              | 640 psi CWP (4410 kPa)                            | 250 psi CWP (1720 kPa)                                 | 250 psi CWP (1720 kPa)       | 640 psi CWP (4410 kPa)               |
| Maximum Temperature (as standard)    | 160°F (70°C)                        | 160°F (70°C)                                      | 250°F (121°C)  | 250°F (121°C)                | 180°F (82°C)                         |
| Clean Water                          | Typical Application                 | Typical Application                               | Typical Application                                    | Typical Application          | Typical Application                  |
| Industrial Liquids                   | Typical Application                 | Typical Application                               | Typical Application                                    | Typical Application          | Typical Application                  |
| Gases                                | Not Used                            | Not Used  | Not Used   | Not Used                     | Not Used                             |
| Raw Sewage                           | Typical Application                 | Typical Application                               | Typical Application                                    | Typical Application          | Typical Application                  |
| Industrial Wastewater                | Typical Application                 | Typical Application                               | Typical Application                                    | Typical Application          | Typical Application                  |
| Slurries                             | Typical Application                 | Typical Application                               | Typical Application                                    | Typical Application          | Typical Application                  |
| Slurries Abrasive (Rubber Lined)     | Optional Construction               | Optional Construction                             | Not Used   | Not Used                     | Optional Construction                |
| Horizontal Application               | Typical Application                 | Typical Application                               | Typical Application                                    | Typical Application          | Typical Application                  |
| Vertical Installation (Flow Up Only) | Typical Installation                | Typical Installation                              | Typical Installation                                   | Typical Installation         | Typical Application                  |
| Reverse Flow (For Drain)             | Optional Construction               | Optional Construction                             | Not Used   | Not Used                     | Optional Construction                |
| Disc Position Indicator              | Standard Construction               | Standard Construction                             | Standard Construction                                  | Standard Construction        | Standard Construction                |
| Switches                             | Optional Construction               | Optional Construction                             | Optional Construction                                  | Optional Construction        | Optional Construction                |
| Silent Closing Characteristics       | Optional Construction               | Optional Construction                             | Not Used   | Not Used                     | Optional Construction                |
| Cushion Closing                      | Standard Feature                    | Standard Feature                                  | Standard Feature                                       | Standard Feature             | Standard Feature                     |
| Control Open and Close (Standard)    | Not Used                            | Not Used  | Not Used   | Not Used                     | Standard Feature                     |
| Control Slamming (Optional)          | Standard Feature                    | Standard Feature                                  | Not Used   | Not Used                     | Standard Feature                     |
| Outside Lever Available              | Standard Feature                    | Standard Feature                                  | Standard Feature                                       | Standard Feature             | Standard Feature                     |
| Field Convertible Controls           | Not Used                            | Standard Feature                                  | Limited Application                                    | Not Used                     | Optional Construction                |

# Check Valves Selection Chart

| APCO                                 |   |  |   |   |
|--------------------------------------|---|--|---|---|
|                                      | Rubber Flapper Swing Check Valve                                      | Slanting Disc Check Valve                                | Full Flow Rubber Flapper Foot Valve   | Full Flow Foot Valve with Strainer  |
| MODEL                                | CRF   | CSD  | FRF   | FFF   |
| Valve Design & Characteristics       | Low maintenance design. Unrestricted full flow area. Meets AWWA C508. | Two piece body and slant disc position. Lowest Head Loss | Installed vertically to maintain a flooded suction and primed centrifugal pump. | Installed vertically to maintain a flooded suction and primed centrifugal pump. |
| Size Range                           | 2-48" (50-1200mm)   | 2-72" (50-1800mm)  | 2-24" (50-600mm)  | 3-24" (75-600mm)  |
| Seat Type                            | Resilient   | Metal  | Resilient   | Resilient   |
| Pressure Rating                      | 250 psi CWP (1720 kPa)  | 740 psi CWP (5100 kPa)                                   | N/A   | N/A   |
| Maximum Temperature (as standard)    | 180°F (82°C)  | 250°F (121°C)  | 250°F (121°C)   | 250°F (121°C)   |
| Clean Water                          | Typical Application   | Typical Application                                      | Typical Application   | Typical Application   |
| Industrial Liquids                   | Typical Application   | Typical Application                                      | Typical Application   | Typical Application   |
| Gases                                | Limited Application   | Not Used   | Not Used  | Not Used  |
| Raw Sewage                           | Typical Application   | Not Used   | Typical Application   | Not Used  |
| Industrial Wastewater                | Typical Application   | Not Used   | Typical Application   | Not Used  |
| Slurries                             | Typical Application   | Not Used   | Typical Application   | Not Used  |
| Slurries Abrasive (Rubber Lined)     | Optional Construction   | Not Used   | Optional Construction   | Not Used  |
| Horizontal Application               | Typical Application   | Typical Application                                      | Typical Application   | Typical Application   |
| Vertical Installation (Flow Up Only) | Typical Installation  | Typical Installation                                     | Typical Installation  | Typical Installation  |
| Reverse Flow (For Drain)             | Optional Construction   | Optional Construction                                    | Not Used  | Limited Application   |
| Disc Position Indicator              | Optional Construction   | Standard Construction                                    | Not Used  | Not Used  |
| Switches                             | Optional Construction   | Optional Construction                                    | Not Used  | Not Used  |
| Silent Closing Characteristics       | Limited Application   | Optional Construction                                    | Not Used  | Standard Feature  |
| Cushion Closing                      | Not Used  | Optional Construction                                    | Not Used  | Not Used  |
| Control Open and Close (Standard)    | Not Used  | Not Used   | Not Used  | Not Used  |
| Control Close (Optional)             | Not Used  | Standard Feature   | Not Used  | Not Used  |
| Outside Lever Available              | Not Used  | Not Used   | Not Used  | Not Used  |
| Field Convertible Controls           | Not Used  | Standard Feature   | Not Used  | Not Used  |

# Check Valves Selection Chart

| APCO  |   |  |                                |
|---|---|--|--------------------------------|
| Double Door Check Valve   | Silent Check Valve (Wafer)  | Silent Check Valve (Globe)   |                                |
|  |  |  |                                |
| MODEL   | CDD   | CSC-300A   | CSC-600A                       |
| Valve Design & Characteristics  | Lowest Initial Cost & Shortest Laying Length                                      | Highest Head Loss, FM Approved   | Highest Head Loss, FM Approved |
| Size Range  | 2-36" (50-900mm)  | 1-10" (15-250mm)   | 3-42" (75-1100mm)              |
| Seat Type   | Resilient   | Metal, Resilient   | Metal, Resilient               |
| Pressure Rating   | 740 psi CWP (5100 kPa)  | 450 psi CWP (3100 kPa)   | 450 psi CWP (3100 kPa)         |
| Maximum Temperature (as standard)   | 250°F (121°C)   | 250°F (121°C)  | 250°F (121°C)                  |
|   |   |  |                                |
| Clean Water   | Typical Application   | Typical Application  | Typical Application            |
| Industrial Liquids  | Typical Application   | May Be Used  | May Be Used                    |
| Gases   | Typical Application   | Limited Application  | Limited Application            |
| Raw Sewage  | Not Used  | Not Used   | Not Used                       |
| Industrial Wastewater   | Not Used  | Not Used   | Not Used                       |
| Slurries  | Not Used  | Not Used   | Not Used                       |
| Slurries Abrasive (Rubber Lined)  | Not Used  | Not Used   | Not Used                       |
|   |   |  |                                |
| Horizontal Application  | Typical Application   | Typical Application  | Typical Application            |
| Vertical Installation (Flow Up Only)  | Typical Installation  | Typical Application  | Typical Application            |
| Reverse Flow (For Drain)  | Not Used  | Not Used   | Not Used                       |
|   |   |  |                                |
| Disc Position Indicator   | Not Used  | Not Used   | Not Used                       |
| Switches  | Not Used  | Not Used   | Not Used                       |
| Silent Closing Characteristics  | Not Used  | Standard Feature   | Standard Feature               |
| Cushion Closing   | Not Used  | Not Used   | Not Used                       |
| Control Open and Close (Standard)   | Not Used  | Not Used   | Not Used                       |
| Control Close (Optional)  | Not Used  | Not Used   | Not Used                       |
| Outside Lever Available   | Not Used  | Not Used   | Not Used                       |
| Field Convertible Controls  | Not Used  | Not Used   | Not Used                       |

# Fabricated Check Valves Selection Chart

| Hilton                               |                                 |                                 |                                 |                                 |
|--------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
|                                      | Slanting Disc Check Valve       | Wafer Swing Check Valve         | Titling Disc Check Valve        | Swing Check Valve               |
| MODEL                                | H-900                           | H-920                           | H-940                           | H-950                           |
| Valve Design & Characteristics       | Available in any weldable alloy |
| Size Range                           | 3-54" (80-1400mm)               | 12-60" (300-1500mm)             | 12-60" (300-1500mm)             | 3-60" (80-1500mm)               |
| Seat Type                            | Metal, Resilient                | Metal, Resilient                | Metal, Resilient                | Metal, Resilient                |
| Pressure Rating                      | 150 psi (1030 kPa)              | 300 psi (2070 kPa)              | 300 psi (2070 kPa)              | 300 psi (2070 kPa)              |
| Maximum Temperature (as standard)    | 1000°F (540°C)                  | 1000°F (540°C)                  | 1000°F (540°C)                  | 1000°F (540°C)                  |
| <hr/>                                |                                 |                                 |                                 |                                 |
| Clean Water                          | Typical Application             | Typical Application             | Typical Application             | Typical Application             |
| Industrial Liquids                   | Typical Application             | Typical Application             | Typical Application             | Typical Application             |
| Gases                                | Not Used                        | Limited Application             | Limited Application             | Limited Application             |
| Raw Sewage                           | Not Used                        | Typical Application             | Typical Application             | Typical Application             |
| Industrial Wastewater                | Not Used                        | Typical Application             | Typical Application             | Typical Application             |
| Slurries                             | Not Used                        | Typical Application             | Typical Application             | Typical Application             |
| Slurries Abrasive (Rubber Lined)     | Not Used                        | Not Used                        | Not Used                        | Not Used                        |
| <hr/>                                |                                 |                                 |                                 |                                 |
| Horizontal Application               | Typical Application             | Typical Application             | Typical Application             | Typical Application             |
| Vertical Installation (Flow Up Only) | Typical Application             | Typical Application             | Typical Application             | Typical Application             |
| Reverse Flow (For Drain)             | Typical Application             | Limited Application             | Limited Application             | Typical Application             |
| <hr/>                                |                                 |                                 |                                 |                                 |
| Disc Position Indicator              | Standard Feature                | Standard Feature                | Standard Feature                | Standard Feature                |
| Switches                             | Optional Construction           | Optional Construction           | Optional Construction           | Optional Construction           |
| Silent Closing Characteristics       | May Be Used                     | Not Used                        | Not Used                        | Optional Construction           |
| Cushion Closing                      | Optional Construction           | Optional Construction           | Optional Construction           | Optional Construction           |
| Control Open and Close (Standard)    | Standard Construction           | Standard Construction           | Standard Construction           | Standard Construction           |
| Control Close (Optional)             | Optional Construction           | Optional Construction           | Not Used                        | Optional Construction           |
| Outside Lever Available              | Standard Construction           | Standard Construction           | Standard Construction           | Standard Construction           |
| Field Convertible Controls           | Optional Construction           | Optional Construction           | Optional Construction           | Optional Construction           |

# Automatic Air Valves Selection Chart

| APCO                                   |   |   |   |  |   |  |
|--|---|---|---|--|---|--|
| Air Release Valves                     |   |   |   |  |   |  |
| Water/Clean Service Air Release Valves |   |   |   |  |   |  |
|  |  |  |  |  |  |         |
| MODEL                                  | ARV, 50A  | ARV, 200A   | ARV, 200  | ARV, 205   | ARV, 206  | ARV, 207   |
| Valve Design & Characteristics         | NBR Needle, 316 Stainless Steel Seat, Simple Lever                                | NBR Needle, POM or 316 Stainless Steel Seat, Compound Lever                       | NBR Needle, 316 Stainless Steel Seat, Compound Lever                              | 316 Stainless Steel Needle, 316 Stainless Steel seat, Compound Lever               | High Pressure. 316 Stainless Steel Needle, 316 Stainless Steel seat, Compound Lever | Large Orifice, High Venting Capacity, 316 Stainless Steel Needle, NBR Seat, Compound Lever |
| Inlet Size / Valve Size                | .5", .75", 1" (15, 20, 25mm)  | 1", 2" (25, 50mm)   | 2", 3" (50, 80mm)   | 2" (50mm)  | 2" (50mm)   | 6" (150mm)   |
| Pressure Rating                        | 175 or 300 psi CWP (1210 or 2070 kPa)   | 15, 50, 75, 150, 300, 600 psi CWP (100, 350, 520, 1030, 2070, 4140 kPa)           | 15, 75, 150, 300 psi CWP (100, 520, 1030, 2070 kPa)                               | 100, 150, 500, 800 psi CWP (690, 1030, 3450, 5520 kPa)                             | 1500 psi CWP (10,340 kPa)   | 15, 150, 300 psi CWP (100, 1030, 2070 kPa)   |
| Maximum Temperature                    | 180°F (82°C)  | 180°F (82°C)  | 180°F (82°C)  | 180°F (82°C)   | 180°F (82°C)  | 180°F (82°C)   |
| Air Release (normal operation)         | Typical Installation  | Typical Installation  | Typical Installation  | Typical Installation   | Typical Installation  | Typical Installation   |
| Admit Air (pipeline draining)          | Not Used  | Not Used  | Not Used  | Not Used   | Not Used  | Not Used   |
| Exhaust Air (pipeline filling)         | Not Used  | Not Used  | Not Used  | Not Used   | Not Used  | Not Used   |
| Water                                  | Typical Installation  | Typical Installation  | Typical Installation  | Typical Installation   | Typical Installation  | Typical Installation   |
| Sewage                                 | Not Used  | Not Used  | Not Used  | Not Used   | Not Used  | Not Used   |
| Liquid Fuel                            | Not Used  | Not Used  | Not Used  | Not Used   | Not Used  | Not Used   |

# Automatic Air Valves Selection Chart

| APCO                           |   |   |   |  |
|--------------------------------|---|---|---|--|
| Air/Vacuum Valves              |   |   |   |  |
|                                | Air/Vacuum Valves   | Slow Closing Air Vacuum Valve   | Vacuum Relief/Air Inlet   |  |
|                                |  |  |  |  |
| MODEL                          | AVV, 140 or 140H  | AVV, 150  | AVV with CSV  | AVR  |
| Valve Design & Characteristics | Large venting orifice, Body Style 140H for high pressure service                  | Large Sizes   | Air Vacuum Valve (AVV) with CSV Surge Check Valve                                 | Air Inlet to prevent vacuum formation  |
| Inlet Size / Valve Size        | .5", 1", 2" 3" (15-80mm)  | 4-18" (100-450mm)   | 4-18" (100-600mm)   | 2-24" (50-600 mm)  |
| Pressure Rating                | 1480 psi CWP (10,200 kPa)   | 500 psi CWP (3450 kPa)  | 500 psi CWP (3450 kPa)  | 300 psi CWP (2070 kPa)   |
| Maximum Temperature            | 250°F (121°C)   | 250°F (121°C)   | 250°F (121°C)   | 250°F (121°C)  |
| Air Release (normal operation) | Not Used  | Not Used  | Not Used  | Not Used   |
| Admit Air (pipeline draining)  | Typical Installation  | Typical Installation  | Typical Installation  | Typical Installation   |
| Exhaust Air (pipeline filling) | Typical Installation  | Typical Installation  | Typical Installation  | Not Used   |
| Water                          | Typical Installation  | Typical Installation  | Typical Installation  | Typical Installation   |
| Sewage                         | Not Used  | Not Used  | Not Used  | Typical Installation   |
| Liquid Fuel                    | Not Used  | Not Used  | Not Used  | Not Used   |

# Automatic Air Valves Selection Chart

| APCO  |   |   |  |   |   |  |
|---|---|---|--|---|---|--|
| Combination Air Valves  |   |   |  | Surge Control   |   |  |
| Clean or Dirty Service, Single Body Combination Air Valve                         | Single Body Combination Air Valve   | Dual Body Combination Air Valve   | Dual Body Slow Closing Combination Air Valve                                       | Surge Check Valve   | Double Acting Throttling Device   |  |
|  |    |  |  |  |  |  |
| MODEL   | ASU   | AVC   | AVV with ARV   | AVV with ARV & CSV  | CSV   | DAT  |
| Valve Design & Characteristics  | Patented design releases air while pressurized, vents air when filling and draining | Compact, tamper-proof design  | Combination AVV and ARV Valve  | Combination AVV and ARV Valve with CSV Surge Check Valve                            | Ensures gentle closing of Air/Vacuum Valve and minimizes surges                     | Permits regulation of air flow escaping from air valve to reduce start up surges |
| Inlet Size / Valve Size   | 1-6" (25-150mm)   | 1-8" (25-200mm)   | 4-18" (100-450mm)  | 4-18" (100-450mm)   | 1-18" (25-450mm)  | .5-8" (15-200mm)   |
| Pressure Rating   | 300 psi CWP (2070 kPa)  | 300 psi CWP (2070 kPa)  | 500 psi CWP (3450 kPa)   | 500 psi CWP (3450 kPa)  | 450 psi (3100 kPa)  | N/A  |
| Maximum Temperature   | 180°F (82°C)  | 250°F (121°C)   | 250°F (121°C)  | 250°F (121°C)   | 400°F (205°C)   | 250°F (121°C)  |
| Air Release (normal operation)  | Typical Installation  | Typical Installation  | Typical Installation   | Typical Installation  | Not Used  | Not Used   |
| Admit Air (pipeline draining)   | Typical Installation  | Typical Installation  | Typical Installation   | Typical Installation  | Typical Installation  | Typical Installation   |
| Exhaust Air (pipeline filling)  | Typical Installation  | Typical Installation  | Typical Installation   | Typical Installation  | Typical Installation  | Limited Application  |
| Water   | Typical Installation  | Typical Installation  | Typical Installation   | Typical Installation  | Typical Installation  | Typical Installation   |
| Sewage  | Typical Installation  | Not Used  | Not Used   | Not Used  | Not Used  | Not Used   |
| Liquid Fuel   | Not Used  | Not Used  | Not Used   | Not Used  | Not Used  | Not Used   |

# Sewage Air Valves Selection Chart

| APCO                            |   |   |   |   |
|---------------------------------|---|---|---|---|
| Sewage/Dirty Service Air Valves |   |   |   |   |
|                                 | Air Release Valve   | Air/Vacuum Valve  | Single Body Combination Air Valve   | Dual Body Sewage Combination Air Valve  |
|                                 |  |  |  |  |
| MODEL                           | ASR   | ASV   | ASC   | ASV   |
| Valve Design & Characteristics  | Elongated body minimizes clogging in sewage applications.                           |
| Inlet Size / Valve Size         | 2-4" (50-100 mm)  | 1-14" (25-350 mm)   | 1-6" (25-150 mm)  | 1-14" (25-350 mm)   |
| Pressure Rating                 | 300 psi CWP (2070 kPa)  | 285 psi CWP (1960 kPa)  | 300 psi CWP (2070 kPa)  | 300 psi CWP (2070 kPa)  |
| Maximum Temperature             | 250°F (121°C)   | 250°F (121°C)   | 250°F (121°C)   | 250°F (121°C)   |
| Air Release (normal operation)  | Typical Installation  | Not Used  | Typical Installation  | Typical Installation  |
| Admit Air (pipeline draining)   | Not Used  | Typical Installation  | Typical Installation  | Typical Installation  |
| Exhaust Air (pipeline filling)  | Not Used  | Typical Installation  | Typical Installation  | Typical Installation  |
| Water                           | May Be Used   | May Be Used   | May Be Used   | May Be Used   |
| Sewage                          | Typical Installation  | Typical Installation  | Typical Installation  | Typical Installation  |
| Liquid Fuel                     | Not Used  | Not Used  | Not Used  | Not Used  |

## Rating System:

**Not Used** Valve style not recommended for listed service.

**Limited Application:** Use valve with considerable caution. In most instances it would be uncommon to use a valve with this rating in the specified service.

**May Be Used:** Thoroughly evaluate the application before selecting this valve. Although this valve may be the lowest initial cost, it would seldom provide the lowest total cost of ownership. May require optional construction features such as hard facings, special coatings, etc.

**Typical Application:** Based on experience, it is very common to install this valve in the stated application.

**Maximum Performance:** The valve listed as a Maximum Performance has been specifically designed for the stated application in most cases. Although the initial cost will be higher than other valves, the total cost of ownership is typically much lower.

This valve selection chart is designed to provide you with a quick reference on valve style capabilities. The chart considers both cost and performance factors for a specific application when determining whether a valve style is rated Maximum Performance, Typical, May Be Used, or Limited Application. When evaluating a valve for any application, primary considerations are pressure rating, temperature limitations and fluid compatibility. Other considerations include importance of leak-free packing, seat leakage, and frequency of valve operation. Other factors include, but are not limited to fluid velocity, cycle frequency, speed of operation, dimensions and accessibility for installation or maintenance.

For more information, contact DeZURIK, Inc. or your local representative with your specific application

# Facilities



DeZURIK Corporate Headquarters and Manufacturing Facility, Sartell, MN USA  
Established in 1928, 420,000 sq. ft.



DeZURIK Cambridge, Ontario, Canada  
Established in 1961, 50,000 sq. ft.



Rapid Fulfillment Center, Houston, TX, USA  
Established in 2018, 43,000 sq. ft.



DeZURIK, Redmond, WA, USA  
Established in 1952, 25,000 sq. ft.



Red Valve Manufacturing Facility, Gastonia, NC USA  
155,000 sq. ft.

## Service Centers

- Gulf Coast Automation and Distribution Center - Stafford, Texas
- Leduc Rapid Fulfillment and Repair Centre - Leduc, Alberta
- Marietta Service Center - Marietta, Georgia

## Sales and Service

For information about our worldwide locations, approvals, certifications and local representative:  
Web Site: [DeZURIK.com](http://DeZURIK.com) E-Mail: [info@DeZURIK.com](mailto:info@DeZURIK.com)



250 Riverside Ave. N. Sartell, Minnesota 56377 • Phone: 320-259-2000 • Fax: 320-259-2227

DeZURIK, Inc. reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing by DeZURIK, Inc. Certified drawings are available upon request.