



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.

Size Range:	½-72" (15-1800mm)
Temperature Range:	to 450°F (232°C)
Pressure Rating:	125-450 psi (860-3100 kPa) CWP
Shutoff Class:	Resilient plug face, bubble-tight shutoff rating to 175 psi (1200 kPa), Bi-Directional. Options to 450 psi (3100 kPa)
Body Materials:	Cast iron, aluminum, carbon steel, 316 stainless steel, Alloy 20, Monel, ductile iron, acid resistant bronze
End Connections:	Flanged, mechanical joint, grooved, threaded
Actuator Type:	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.

Size Range:	2-16" (50-400mm)
Temperature Range:	to 400°F (200°C)
Pressure Rating:	125 psi (860 kPa) CWP
Body Materials:	Cast iron, aluminum, carbon steel, 316 stainless steel
End Connections:	Flanged
Actuator Type:	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.

Size Range:	3-36" (80-900mm)
Temperature Range:	to 250°F (121°C)
Pressure Rating:	3-12" 175 psi (1210 kPa); 14-36" 150 psi (1030 kPa)
Shutoff Class:	Resilient plug face: bubble-tight shutoff rating to 175 psi (1200 kPa) Bi-Directional
Body Materials:	Cast iron, ductile iron
End Connections:	Flanged, mechanical joint
Actuator Type:	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.

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

Size Range:	2- 20" (50-500mm) Larger sizes on application
Temperature Range:	to 250°F (121°C)
Pressure Rating:	2-20" (50-500mm) = 250 psi (1720 kPa) with ductile iron/nickel plated disc; 200 psi (1380 kPa) with 316 stainless steel disc
Shutoff Capability:	Bubble-Tight, full rated bi-directional shutoff; lugged valves provide dead end service to full valve rating
Body Styles:	Wafer or lugged
Body Materials:	2-20" (50-500mm) ductile iron; 24-36" (600-900mm) cast iron
Actuator Type:	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.



Size Range:	2-24" (50-600mm)
Temperature Range:	to 250°F (121°C)
Pressure Rating:	2-12" (50-300mm) = 175 psi (1210 kPa); 14-24" (350-600mm) = 150 psi (1030 kPa)
Body Styles:	Lugged
Body Material:	Ductile iron
Actuator Type:	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.



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

Size Range:	1-12" (25-300mm)
Temperature Range:	to 1000°F (540°C)
ASME Class Rating:	150, 300
Pressure Rating:	285-740 psi (1965-5100 kPa)
Shutoff Class: (ANSI/FCI 70-2)	Metal Seat Class IV
Body Styles:	Flanged or flangeless
Body Materials:	316 and 317 stainless steel, carbon steel, Hastelloy C, Titanium
Trim Sizes:	High, Full, .5 Reduced, .2 Reduced
Actuator Type:	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.

Size Range:	1-20" (25-500mm)
Temperature Range:	to 1000°F (540°C)
ASME Class Rating:	150, 300
Shell Pressure Rating:	to 275-740 psi (1890-5102 kPa)
Shutoff Class: (ANSI/FCI 70-2)	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
Body Style:	Flanged or flangeless
Body Materials:	Carbon steel, 316 and 317 stainless steel, Hastelloy C
Actuator Types:	Lever, handwheel, chainwheel, PowerRac double-acting and spring-return cylinder actuators, spring-return diaphragm actuator

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.



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

Size Range:	2-36" (50-900mm)
Temperature Range:	1000°F (540°C)
Pressure Rating:	2-24" (50-600mm) 150 psi (1030 kPa) CWP; above 24" (600mm) 100 psi (690 kPa) CWP
Body Materials:	304 and 316 stainless steel
Actuator Type:	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.

Size Range:	2-24" (50-600mm)
Temperature Range:	to 400°F (204°C)
Pressure Rating:	150 psi (1030 kPa) CWP
Body Materials:	304 and 316 stainless steel
Actuator Type:	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.

Size Range:	2-48" (50-1200mm)
Temperature Range:	to 1000°F (540°C)
Pressure Rating:	150 psi (1030 kPa) CWP; Optional 30 & 36" (750 & 900mm) 100 psi (690 kPa) CWP
Body Materials:	304, 316, 317, 254-SMO, 2205 duplex stainless steel, Hastelloy C
Actuator Type:	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.

Size Range:	2-36" (50-900mm)
Temperature Range:	to 400°F (204°C)
Pressure Rating:	2-28" (50-700mm) 150 psi (1030 kPa) CWP; 30-36" (750-900mm) 100 psi (690 kPa) CWP
Body Materials:	304, 316, 317, 254-SMO, 2205 duplex stainless steel, Hastelloy C
Actuator Type:	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.

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



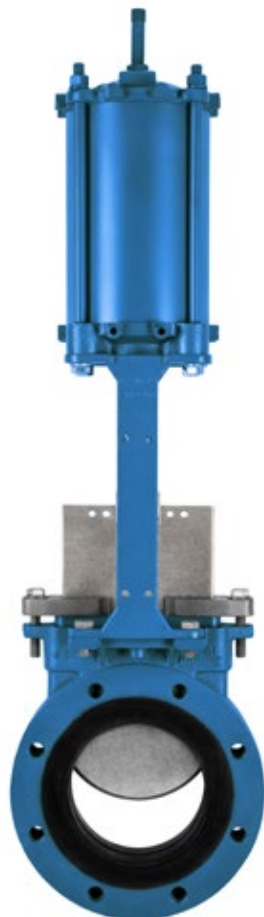
DeZURIK Maximum Duty Cast Stainless Steel Knife Gate (KGC-MD)



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.

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

DeZURIK Urethane Lined Knife Gate Valves (KUL)



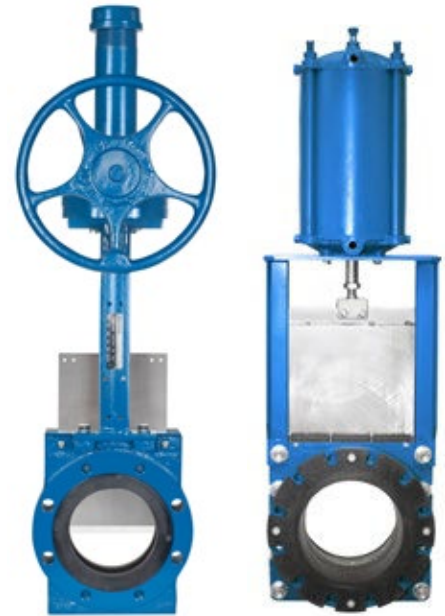
KUL Urethane Lined Knife Gate Valves are designed for on-off applications of abrasive slurry and dry abrasive materials. Urethane Lined Knife Gate Valves are ideally suited for applications in mining, chemical and food industries. KUL valves feature a one-piece, cast-in-place liner that provides bi-directional, 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.

Size Range:	2-48" (50-1200mm)
Temperature Range:	-20 to 265°F (-29 to 130°C)
Pressure Rating:	150 psi (1030 kPa) CWP or 250 psi (1720 kPa)
Body Materials:	Ductile iron with stainless steel gate
End Connections:	Standard flanged, extended flanged, grooved end
Actuator Type:	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.



Size Range:	2-24" (50-600mm) with larger sizes available on application
Temperature Range:	to 177°F (81°C) as standard; up to 300°F (150°C) with optional seat materials
Pressure Rating:	KSL-SD 2-16" 150 psi CWP (1030kPa), 18-24" 100 psi CWP (690 kPa) KSL-LA 100 psi CWP (690kPa), higher pressures available with optional gate materials
Body Materials:	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.



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

Size Range:	2-60" (50-1500mm)
Temperature Range:	-40°F to 2000°F (-40°C to 1050°C)
Pressure Rating:	25-300 psi (170-2070 kPa) CWP
Seating:	Metal or resilient with options for removable seat, inflatable seal or grease seal
Materials:	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
Actuator Type:	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.

Size Range:	2-144" (50-3600mm)
Temperature Range:	-40°F to 2000°F (-40°C to 1050°C)
Pressure Rating:	to 400 psi (2800 kPa) CWP
Seating:	Metal or resilient, unidirectional or bi-directional with options for removable seat, inflatable seal or grease seal
Materials:	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
Actuator Type:	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.

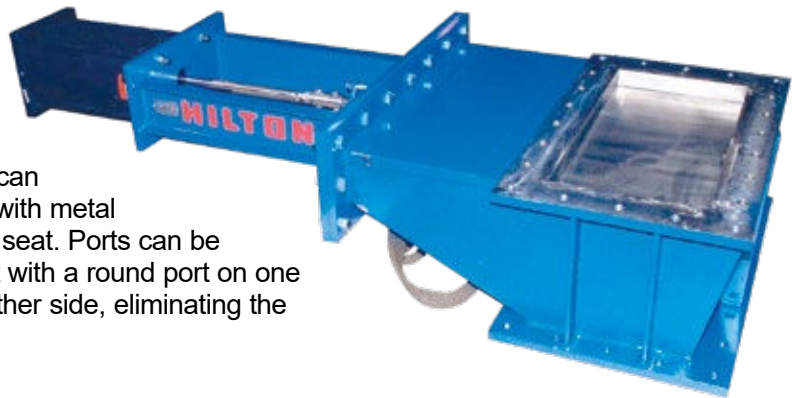


Size Range:	6-144" (150-3700mm)
Temperature Range:	-40°F to 2000°F (-40°C to 1050°C)
Pressure Rating:	to 400 psi (2800 kPa) CWP
Seating:	Galling resistant metal
Materials:	Valves and wetted parts are available in any weldable alloy, including stainless steel, Hastelloy, Inconel, Monel and Titanium. Optional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



Size Range:	4-48" (100-1200mm) standard, custom sizes available
Temperature Range:	-40°F to 2000°F (-40°C to 1050°C)
Seating	Metal or resilient
Materials:	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
Actuator Type:	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.

Size Range:	3" (80mm)
Temperature Range:	to 450°F (233°C)
Pressure Rating:	150 psi (1030 kPa) CWP
Body Materials:	316 and 317 stainless steel, Hastelloy C, 254 SMO stainless steel
Actuator Type:	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.

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

DeZURIK Double Block & 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.

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

Size Range:	4-48" (100-1200mm) standard, custom sizes available
Temperature Range:	-40°F to 2000°F (-40°C to 1050°C)
Pressure Rating:	to 300 psi (2070 kPa) CWP
Seating	Metal or Resilient
Materials	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
Actuator Type:	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.

Size Range:	8-48" (200-1200mm) standard, custom sizes available
Temperature Range:	-40°F to 1200°F (-40°C to 650°C)
Pressure Rating:	to 600 psi (4140 kPa) CWP
Materials	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
Actuator Type:	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.

Size Range:	through 48" (1200mm)
Temperature Range:	to 2000°F (1093°C)
Pressure Rating:	Application requirements
Materials	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
Actuator Type:	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.

Size Range:	6-24" (150-600mm)
Temperature Range:	to 2000°F (to 1090°C)
Pressure Rating:	ANSI Class 600
Seating:	Metal or resilient with options for removable seat
Materials:	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
Actuator Type:	Handwheel, chainwheel, bevel gear, pneumatic or hydraulic cylinder, electric motor

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.

Size Range:	6-48" (150-1200mm)
Temperature Range:	to 2000°F (1090°C)
Pressure Rating:	to 150 psi (1030 kPa)
Seating:	Metal or resilient with options for removable seat
Materials:	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
Actuator Type:	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.

Size Range:	2-24" (50-600mm) Larger sizes on application
Temperature Range:	to 1000°F (540°C)
Pressure Rating:	150 psi (1030 kPa) CWP
Body Materials:	316 stainless steel
Actuator Type:	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.

Size Range:	4-48" (100-1200 mm)
Temperature Range:	to 2000°F (1090°C)
Pressure Rating:	to 400 psi (2760 kPa)
Seating:	Metal or resilient with options for removable seat
Materials:	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
Actuator Type:	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.

Size Range:	to 96" (2400mm)
Pressure Rating:	to 400 psi (2800 kPa) CWP
Materials:	Valves are normally supplied with epoxy coated carbon steel body with bronze seat ring and stainless steel gate. Other material available upon request
Actuator Type:	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.



Size Range:	to 144" (3600mm)
Pressure Rating:	to 400 feet of head (173 psi), Contact DeZURIK for higher pressures
Materials:	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
Actuator Type:	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.



Size Range:	to 144" (to 3600mm)
Pressure Rating:	to 400 feet of head (173 psi), Contact DeZURIK for higher pressures
Materials:	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
Actuator Type:	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.



Materials:	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
Seating:	Metal to metal or resilient seat designs available
Actuator Type:	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.

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

APCO Silent Check Valves (CSC)



300A Wafer Style

600A Globe 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.

Size Range:	Wafer 1-10" (15-250mm); Globe 3-42" (80-1100mm)
Body Style:	300A Wafer and 600A Globe
Pressure Ratings:	ASME Class 125/150 or Class 250/300
Body Materials:	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.



Size Range:	2-72" (50-1800mm)
Body Style:	800
ASME Class Rating:	125/150, 250/300
Pressure Ratings:	250-740 psi (1720-5100 kPa)
Body Materials:	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.



Size Range:	2-36" (50-900mm); larger sizes available on application
Body Style:	9000T
Pressure Ratings:	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
Body Materials:	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.



Size Range:	2-24" (50-600mm)
Body Style:	100CF
Pressure Ratings:	250 psi CWP (1720 kPa)
Body Materials:	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.

Size Range:	2-48" (50-1200mm)
Body Style:	100C, 100, 100SR
Pressure Ratings:	175 and 250 psi CWP (1210 and 1720 kPa).
Body Materials:	Ductile iron
Rubber Flapper Materials:	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.

Size Range:	3-24" (80-600mm)
Body Style:	1400A
Pressure Ratings:	ASME Class 125/150
Body Materials:	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.



Size Range:	3-60" (80-1500mm)
Temperature Range:	to 1000°F (540°C)
Pressure Ratings:	to 300 psi (2070 kPa) CWP
Materials:	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.



Size Range:	3-54" (80-1400mm)
Temperature Range:	to 1000°F (540°C)
Pressure Rating:	to 150 psi (1030 kPa) CWP
Seating:	Metal or resilient
Materials:	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.

Size Range:	12-60" (300-1500mm)
Temperature Range:	to 1000°F (540°C)
Pressure Rating:	to 300 psi (2070 kPa) CWP
Seating:	Metal or resilient
Materials:	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.

Size Range:	12-60" (300-1500mm)
Temperature Range:	to 1000°F (540°C)
Pressure Ratings:	to 300 psi (2070 kPa) CWP
Materials:	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.



Size Range:	4-20" (100-500mm)
Materials:	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 do 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.



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

APCO Air Release Valves (ARV)

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.



ARV-50A



ARV-200A

Size Range:	½ -6" (15-150mm)
Body Styles:	50A, 200, 200A, 205, 206, 207
Body Materials:	Bronze, ductile iron, carbon steel, 316 stainless steel

APCO Single Body Combination Air Valves (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.



AVC

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

APCO Dual Body Combination Air Valves (AVV)

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.



AVV-1800

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

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.

Size Range:	½-18" (15-450mm)
Body Styles:	140, 140H, 150
Body Materials:	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.

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



AVV with DAT



AVV with CSV



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.

Size Range:	3-24" (80-600 mm)
Body Styles:	1500A, 1500AC
Pressure Rating:	ASME Class 125/150 or Class 250/300
Body Materials:	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.

Size Sizes:	1-6" (25-150mm)
Operating Range:	2-150 psi (14-1035 kPa) or 2-300 psi (14-2070 kPa)
Body Materials:	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.

Size Range:	1-14" (25-350mm)
Body Styles:	401
Body Materials:	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.

Size Range:	1-6" (25-150mm)
Body Styles:	440
Body Materials:	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.

Size Range:	1-14" (25-350mm)
Body Styles:	401C
Body Materials:	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.

Size Ranges:	2-4" (50-100mm)
Body Style:	400, 450
Body Materials:	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.

Size Range:	6-54" (150-1400mm)
Body Styles:	Single Seated or Double Seated
Pressure Rating:	150, 250, 300 psi (1030, 1720, 2070 kPa) CWP service
Body Materials:	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.

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



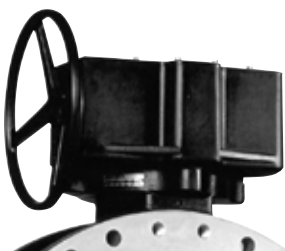
Compak cylinder actuators are a versatile rack and pinion design. The compact, modular design allows the actuator to be mounted for a low profile assembly. The actuators feature enclosed construction and adjustable double limit stops.

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	½-72" (15-1800 mm)	3-36" (80-900 mm)	2-16" (50-400 mm)	3-168" (80-4200 mm)	2-20" (50-500 mm) 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_L^2 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 IPa)
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_L^2 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 (690-1030kPa)	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

Knife Gate Valves Selection Chart

	Abrasion Resistant		Severe Service	
				
MODEL	KUL	KSL	KSV	DBB
Valve Type	Urethane Lined Body Bi-Directional	Slurry Valve, Resilient Sleeve Lined, Bi-Directional	ASME Class 150 & 300 for Severe, Abrasive Services, Bi-Directional	Double Block & Bleed Design Bi-Directional
Valve Design & Characteristics	Economical, General Abrasion Resistance	Broad Range Abrasion & Corrosion Resistance	High Pressure, High Abrasive Shutoff & Direct & Reverse Shutoff	Dual KSV Bodies with Isolating Chamber Direct & Reverse Shutoff
GENERAL SPECIFICATIONS				
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 (1030 or 1720 kPa)	KSL-SD 2-16" 150 psi CWP (1030 kPa) 18-24" 100 psi CWP (690 kPa) KSL-LA 100 psi CWP (690 kPa)	285 or 740 psi ASME (1960 or 5100 kPa)	285 or 740 psi ASME (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
COMMON MEDIA				
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
PULP & PAPER				
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
MINING, MINERALS PROCESSING				
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
CHEMICAL & PETROCHEMICAL				
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
MUNICIPAL & HYDRO				
Pump/Equipment Isolation	May Be Used	Limited Application	Limited Application	Not Used
Dewatered Sludge	May Be Used	Not Used	Limited Application	Not Used
POWER**				
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
FOOD & BEVERAGE				
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*	MSS SP-81 or Driptight*	MSS SP-81 or Driptight*	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™ Pump Control Valve	Rubber Flapper Swing Check Valve	Full Flow Rubber Flapper Foot Valve
					
MODEL	CVS-6000D	CVS-6000	CPC	CRF	FRF
Valve Design & Characteristics	Full Featured, Air Cushion Cylinder	Full Featured, Convertible, Oil Controlled Design	Electric Motor Operated Pump Control	Low maintenance design. Unrestricted full flow area. Meets AWWA C508.	Installed vertically to maintain a flooded suction and primed centrifugal pump.
Size Range	2-66" (50-1700mm)	2-66" (50-1700mm)	4-20" (100-500mm)	2-48" (50-1200mm)	2-24" (50-600mm)
Seat Type	Metal, Resilient	Metal, Resilient	Resilient	Resilient	Resilient
Pressure Rating	150 psi CWP (1034 kPa)	640 psi CWP (4410 kPa)	640 psi CWP (4410 kPa)	250 psi CWP (1720 kPa)	N/A
Maximum Temperature (as standard)	160°F (70°C)	160°F (70°C)	180°F (82°C)	180°F (82°C)	250°F (121°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	Limited Application	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	Optional Construction	Optional Construction	Optional Construction
Horizontal Application	Typical Application	Typical Application	Typical Application	Typical Application	Typical Application
Vertical Installation (Flow Up Only)	Typical Installation	Typical Installation	Typical Application	Typical Installation	Typical Installation
Reverse Flow (For Drain)	Optional Construction	Optional Construction	Optional Construction	Optional Construction	Not Used
Disc Position Indicator	Standard Construction	Standard Construction	Standard Construction	Optional Construction	Not Used
Switches	Optional Construction	Optional Construction	Optional Construction	Optional Construction	Not Used
Silent Closing Characteristics	Optional Construction	Optional Construction	Optional Construction	Limited Application	Not Used
Cushion Closing	Standard Feature	Standard Feature	Standard Feature	Not Used	Not Used
Control Open and Close (Standard)	Not Used	Not Used	Standard Feature	Not Used	Not Used
Control Slamming (Optional)	Standard Feature	Standard Feature	Standard Feature	Not Used	Not Used
Outside Lever Available	Standard Feature	Standard Feature	Standard Feature	Not Used	Not Used
Field Convertible Controls	Not Used	Standard Feature	Optional Construction	Not Used	Not Used







Check Valves Selection Chart

APCO					
	Double Door Check Valve	Silent Check Valve (Wafer)	Silent Check Valve (Globe)	Slanting Disc Check Valve	Full Flow Foot Valve with Strainer
					
MODEL	CDD	CSC-300A	CSC-600A	CSD	FFF
Valve Design & Characteristics	Lowest Initial Cost & Shortest Laying Length	Highest Head Loss, FM Approved	Highest Head Loss, FM Approved	Two piece body and slant disc position. Lowest Head Loss	Installed vertically to maintain a flooded suction and primed centrifugal pump.
Size Range	2-36" (50-900mm)	1-10" (15-250mm)	3-42" (75-1100mm)	2-72" (50-1800mm)	3-24" (75-600mm)
Seat Type	Resilient	Metal, Resilient	Metal, Resilient	Metal	Resilient
Pressure Rating	740 psi CWP (5100 kPa)	450 psi CWP (3100 kPa)	450 psi CWP (3100 kPa)	740 psi CWP (5100 kPa)	N/A
Maximum Temperature (as standard)	250°F (121°C)	250°F (121°C)	250°F (121°C)	250°F (121°C)	250°F (121°C)
Clean Water	Typical Application	Typical Application	Typical Application	Typical Application	Typical Application
Industrial Liquids	Typical Application	May Be Used	May Be Used	Typical Application	Typical Application
Gases	Typical Application	Limited Application	Limited Application	Not Used	Not Used
Raw Sewage	Not Used	Not Used	Not Used	Not Used	Not Used
Industrial Wastewater	Not Used	Not Used	Not Used	Not Used	Not Used
Slurries	Not Used	Not Used	Not Used	Not Used	Not Used
Slurries Abrasive (Rubber Lined)	Not Used	Not Used	Not Used	Not Used	Not Used
Horizontal Application	Typical Application	Typical Application	Typical Application	Typical Application	Typical Application
Vertical Installation (Flow Up Only)	Typical Installation	Typical Application	Typical Application	Typical Installation	Typical Installation
Reverse Flow (For Drain)	Not Used	Not Used	Not Used	Optional Construction	Limited Application
Disc Position Indicator	Not Used	Not Used	Not Used	Standard Construction	Not Used
Switches	Not Used	Not Used	Not Used	Optional Construction	Not Used
Silent Closing Characteristics	Not Used	Standard Feature	Standard Feature	Optional Construction	Standard Feature
Cushion Closing	Not Used	Not Used	Not Used	Optional Construction	Not Used
Control Open and Close (Standard)	Not Used	Not Used	Not Used	Not Used	Not Used
Control Close (Optional)	Not Used	Not Used	Not Used	Standard Feature	Not Used
Outside Lever Available	Not Used	Not Used	Not Used	Not Used	Not Used
Field Convertible Controls	Not Used	Not Used	Not Used	Standard Feature	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	Available in any weldable alloy	Available in any weldable alloy	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)
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
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
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






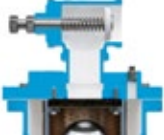
Automatic Air Valves Selection Chart

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 applicatons.	Elongated body minimizes clogging in sewage applicatons.	Elongated body minimizes clogging in sewage applicatons.	Elongated body minimizes clogging in sewage applicatons.
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 a 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 E-Mail: info@DeZURIK.com



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