




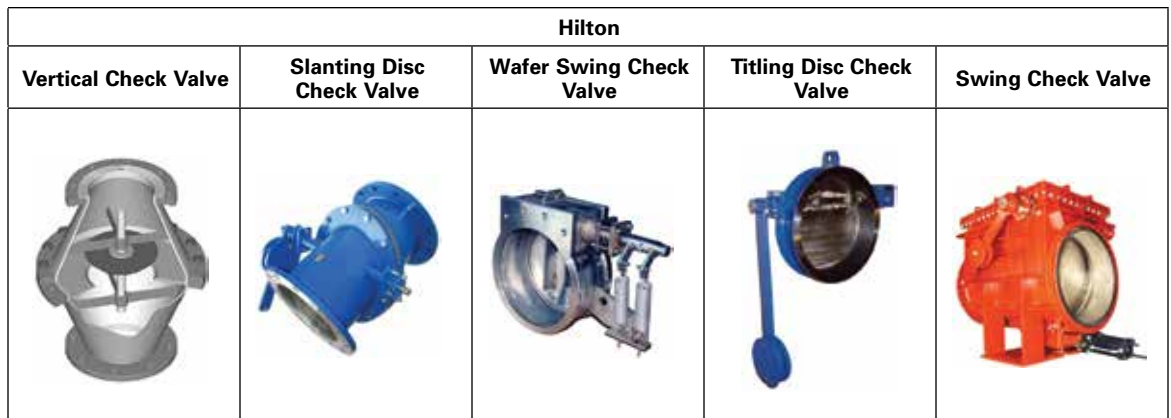


# Knife Gate Valves Selection Chart

	Standard Sizes to 96"	Fabricated Custom Designs		Hilton Hydro Valves		
						
MODEL	HILTON H-200-B	HILTON H-200-R	HILTON H-1500	HYDRO GUARD H-300-B	THROTTLING H-340-B	JET FLOW H-2500
Valve Type	Fabricated Standardized Design to 96" (2400mm)	Square & Rectangular Port Valves	Round or Diamond Thru-Port	Shutoff & Isolation Knife Gate Valves	Low Head Throttling Control	High Head Throttling Control
Valve Design & Characteristics	Pressurized or un-pressurized bonnets, Custom designs to 144" (3600mm)	Designed to Application & Dimensional	Heavy Duty Construction for Slurries & Dry Materials	Full Pressure Isolation of Flow Control	Economical High Capacity Throttling	Full Range Throttling on Critical
<b>GENERAL SPECIFICATIONS</b>						
Size Range	2-144" (50-3700mm)	2-72" (50-1800mm)	2-48" (50-1200mm)	to 144" (3600mm)	to 144" (3600mm)	to 96" (2400mm)
Face-To-Face	MSS-SP81	As Specified	As Specified	As Specified	As Specified	As Specified
Maximum Pressure Rating	to 400 psi CWP (2760 kPa)	300 psi CWP (2070 kPa)	400 psi CWP (2760 kPa)	400 psi CWP (2760 kPa)	100 psi CWP (690 kPa)	400 psi CWP (2760 kPa)
Shutoff Class	MSS SP-81 or Driptight*	MSS SP-81 or Driptight*	MSS SP-81 or Driptight*	MSS SP-81 or Driptight*	MSS SP-81 or Driptight*	MSS SP-81 or Driptight*
Temperature (Up To)	2000°F (1050°C)	2000°F (1050°C)	1200°F (650°C)	400°F (204°C)	2000°F (1050°C)	400°F (204°C)
Throttling	Not Used	Not Used	Typical Application	Typical Application	Maximum Performance	Maximum Performance
<b>COMMON MEDIA</b>						
Raw & Treated Water	Maximum Performance	May Be Used	Not Used	Typical Application	Maximum Performance	Not Used
Clean Liquids	Maximum Performance	May Be Used	Not Used	Typical Application	Maximum Performance	Not Used
Dirty Liquids	Maximum Performance	May Be Used	Not Used	Typical Application	Maximum Performance	Not Used
Viscous Fluids	Maximum Performance	May Be Used	Not Used	Typical Application	Maximum Performance	Not Used
Water Conveyed Solids	Maximum Performance	May Be Used	Not Used	Typical Application	May Be Used	Not Used
Scaling	May Be Used	Limited Application	Limited Application	Typical Application	May Be Used	Not Used
Dry Material	May Be Used	May Be Used	Maximum Performance	Typical Application	Not Used	Not Used
Hot Gasses	May Be Used	Not Used	Not Used	Typical Application	Not Used	Not Used
<b>PULP &amp; PAPER</b>						
Paper Stock To 3%	Typical Application	Typical Application	Maximum Performance	Not Used	Not Used	Not Used
Paper Stock 3 To 6%	Typical Application	Typical Application	Maximum Performance	Not Used	Not Used	Not Used
Paper Stock 6% Plus	Typical Application	May Be Used	May Be Used	Not Used	Not Used	Not Used
Liquor Service	Typical Application	Typical Application	Typical Application	Not Used	Not Used	Not Used
Recycle Trash	Typical Application	Typical Application	Typical Application	Not Used	Not Used	Not Used
<b>MINING, MINERALS PROCESSING</b>						
Slurry: 0 To 15% Solids	Typical Application	Typical Application	Typical Application	Not Used	Not Used	Not Used
Slurry: 15 To 30% Solids	May Be Used	May Be Used	May Be Used	Not Used	Not Used	Not Used
Slurry: 30% Plus Solids	May Be Used	May Be Used	May Be Used	Not Used	Not Used	Not Used
Cyclones	May Be Used	May Be Used	May Be Used	Not Used	Not Used	Not Used
<b>CHEMICAL &amp; PETROCHEMICAL</b>						
Pellets, Dry Material	Maximum Performance	May Be Used	Typical Application	Typical Application	Not Used	Not Used
Process Fluids, Chemicals	May Be Used	Not Used	Not Used	Not Used	Typical Application	Not Used
Petroleum Products	May Be Used	Not Used	Not Used	Not Used	Typical Application	Not Used
<b>MUNICIPAL &amp; HYDRO</b>						
Pump/Equipment Isolation	Maximum Performance	May Be Used	Not Used	Maximum Performance	Maximum Performance	Not Used
Dewatered Sludge	Maximum Performance	May Be Used	Typical Application	Maximum Performance	Maximum Performance	Not Used
<b>POWER**</b>						
Fly Ash	May Be Used	May Be Used	Typical Application	Not Used	Not Used	Not Used
Bottom Ash	May Be Used	May Be Used	Typical Application	Not Used	Not Used	Not Used
FGD Scrubbers	May Be Used	May Be Used	Typical Application	Not Used	Not Used	Not Used
Hydraulic Flow Control	Typical Application	Not Used	Not Used	Maximum Performance	Maximum Performance	Maximum Performance
Hydro Power & Dams	Typical Application	Not Used	Not Used	Maximum Performance	Maximum Performance	Maximum Performance
<b>FOOD &amp; BEVERAGE</b>						
Raw Material Handling	May Be Used	Typical Application	Typical Application	Not Used	Not Used	Not Used

# Check Valves Selection Chart



MODEL	H-700	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	Available in any weldable alloy
Size Range	3-36" (80-900mm)	3-60" (80-1500mm)	12-60" (300-1500mm)	12-60" (300-1500mm)	3-60" (80-1500mm)
Seat Type	Metal, Resilient	Metal, Resilient	Metal, Resilient	Metal, Resilient	Metal, Resilient
Pressure Rating	to 300 psi (2070 kPa)	to 300 psi (2070 kPa)	to 300 psi (2070 kPa)	to 300 psi (2070 kPa)	to 300 psi (2070 kPa)
Maximum Temperature (as standard)	to 1000°F (540°C)	to 1000°F (540°C)	to 1000°F (540°C)	to 1000°F (540°C)	to 1000°F (540°C)
<b>MEDIA</b>					
Clean Water	Typical Application	Typical Application	Typical Application	Typical Application	Typical Application
Industrial Liquids	Typical Application	Typical Application	Typical Application	Typical Application	Typical Application
Gasses	Not Used	Not Used	Limited Application	Limited Application	Limited Application
Raw Sewage	Not Used	Not Used	Typical Application	Typical Application	Typical Application
Industrial Wastewater	Not Used	Not Used	Typical Application	Typical Application	Typical Application
Slurries	Not Used	Not Used	Typical Application	Typical Application	Typical Application
Slurries Abrasive (Rubber Lined)	Not Used	Not Used	Not Used	Not Used	Not Used
<b>INSTALLATION</b>					
Horizontal Application	Not Used	Typical Application	Typical Application	Typical Application	Typical Application
Vertical Installation (Flow Up Only)	Typical Application	Typical Application	Typical Application	Typical Application	Typical Application
Reverse Flow (For Drain)	Limited Application	Typical Application	Limited Application	Limited Application	Typical Application
<b>CONSTRUCTION</b>					
Disc Position Indicator	Not Used	Standard Feature	Standard Feature	Standard Feature	Standard Feature
Switches	Not Used	Optional Construction	Optional Construction	Optional Construction	Optional Construction
Silent Closing Characteristics	Not Used	May Be Used	Not Used	Not Used	Optional Construction
Cushion Closing	Not Used	Optional Construction	Optional Construction	Optional Construction	Optional Construction
Control Open and Close (Standard)	Not Used	Standard Construction	Standard Construction	Standard Construction	Standard Construction
Control Close (Optional)	Not Used	Optional Construction	Optional Construction	Not Used	Optional Construction
Outside Lever Available	Not Used	Standard Construction	Standard Construction	Standard Construction	Standard Construction
Field Convertible Controls	Not Used	Optional Construction	Optional Construction	Optional Construction	Optional Construction

# Automatic Air Valves Selection Chart



MODEL	H-750
Valve Design & Characteristics	Availabe in any weldable alloy
Inlet Size / Valve Size	3-12" (80-300mm)
Pressure Rating	to 150 psi CWP (1030 kPa)
Maximum Temperature	to 1000°F (540°C)
FM / UL Approved	No
<b>AUTOMATIC FUNCTION</b>	
Air Release (normal operation)	Not Used
Admit Air (pipeline draining)	Typical Installation
Exhaust Air (pipeline filling)	Typical Installation
<b>MEDIA</b>	
Water	Typical Installation
Sewage	Not Used
Liquid Fuel	Not Used