

**HILTON H-200-B-T304 BONNETED METAL SEATED
KNIFE GATE VALVES
SUGGESTED SPECIFICATION**



APPLICATION DATA 65.01-1
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All valves shall be a Hilton brand Figure H-200-B-T304 Bonneted, Metal Seated, Knife Gate Valves as manufactured by DeZURIK or approved equal.

Body and Bonnet: Bonnet shall be pressure-retaining type that fully encloses the gate. The bonnet shall be rated at the same pressure as the valve body and shall not include any type of internal gate packing or gate wiper. Body cladding and face rings shall be fully welded to the carbon steel body – “floating” body liners are not acceptable. All wetted parts of the body and bonnet shall be Type 304 stainless steel, including fasteners. Exterior flanges and stiffeners shall be fabricated carbon steel. Flush and drain ports, if specified, shall be of the same material as the wetted parts.

Valve inside port diameter shall conform to MSS SP-81 requirements.

Packing system shall allow the packing to be replaced under pressure without disassembling the valve or removing the actuator. The packing gland shall be machined on the bottom to mate with the machined stem Back-Seat ring. The packing gland and the packing follower shall be Type 304 stainless steel. The selected multiple ring packing set shall be for _____ (wet) (dry) (high temperature) (food grade) service. The fasteners shall be stainless steel.

Gate shall be ground and polished to a minimum surface finish of 32 micro-inch RMS. The gate shall be guided over the full stroke. The gate shall be fully wedged at the top and bottom of the port. The gate shall have a 45 degree beveled bottom edge. Metal seated valves shall have a beveled bottom gate.

Seat shall be metal seated. Metal seated valves shall provide shutoff capability to MSS SP-81 Knife Gate Valves.

Face-to-face dimension shall meet MSS SP-81 Knife Gate Valves.

Cold Working Pressure valve rating shall meet or exceed MSS SP-81 Knife Gate Valves. Valves shall be 150 psi (1030 kPa) for 2-24”(50–600mm) and 50 psi (345 kPa) for sizes above 24” (600mm).

Flanges shall be raised face with spiral serrated finished stainless steel gasket surface. Flange drilling shall be in accordance with ASME B16.5 class 150, 2-24” (50-600mm); ASME B16.47 Series A class 150 above 24” (600mm); or _____ (specify).

Yoke shall be carbon steel to provide support for the valve actuator without bending or twisting.

Stem shall be Type 304 stainless steel.

Actuation Manually actuated valves 2-12" (50-300mm) shall have handwheel sized for a maximum rim pull of 60 pounds or fully enclosed, permanently lubricated, bevel gear actuators. Valves 14-36" (350-900mm) shall be supplied with _____ (handwheel) (chainwheel) (bevel gear) actuators.

Power actuated valves shall be furnished with _____ (cylinder) (electric motor) actuators. Cylinder actuators shall be sized to operate with _____ psi (kPa) cylinder pressure at a maximum shutoff pressure of _____ psi (kPa).

Cylinder controls shall include _____ (solenoid valve) (speed control valves) (pneumatic, electro/pneumatic or digital positioners) (switches) mounted on the valve.

Warranty Valves and actuators shall be warranted by the manufacturer for defects in materials and workmanship for a period of two years (24 months) from date of shipment.