

**DeZURIK KGC-ES CAST KNIFE GATE VALVES
ES MODEL (EXTENDED SERVICE LIFE)
SUGGESTED SPECIFICATION**

APPLICATION DATA 35.01-5

Page 1

Dated July 2018

Supersedes October 1, 2014



All valves shall be model KGC-ES Cast Knife Gate Valves as manufactured by DeZURIK or approved equal.

Valve shall be the bonnetless knife gate type.

Gate side edges shall be machined, finished and rounded. The bottom edge shall have a 45 degree beveled knife edge. The gate faces shall be finish ground.

Exclusive Premium Packing System shall fit a rounded machined packing chamber. The Exclusive Premium Packing System shall consist of multiple layers of packing with anti-extrusion ring. The selected packing system shall be for _____ (wet) (dry) (high temperature) (food grade) service. The packing gland shall match the valve body or (specify). The fasteners shall be stainless steel or (specify).

Body shall be a one piece casting of type _____ (304) (316) (317) (254-SMO) (2205 Duplex) stainless steel, (Hastelloy C) or (Specify) for corrosive applications. Valve body shall incorporate cast-in guides and jams and can handle full reverse pressure without damage. Valve inside port diameter shall be equal to ASME B36.10 STD pipe inside diameter for both metal and resilient seated valves. Raised faces shall be full width per ASME B16.20 standards for spiral-wound gaskets. Valve body modifications such as bonnets, V-orifice and purges in the chest and/or seat area shall be available.

Seat shall be _____ (resilient) (metal) seated. Metal seated valves shall have a _____ (round) (V-orifice) port. Resilient seated valves shall have the resilient seat material molded on three sides of the stainless steel seat ring for installations where drip-tight shutoff is required. Resilient seat material shall be _____ (specify seat material).

Face-to-face dimension shall meet MSS SP-81 for knife gate valves.

Cold Working Pressure valve rating shall meet or exceed MSS SP-81. Valves shall be 150 psi (1030 kPa) for 2-48" (50mm-1200mm); 100 psi (690 kPa) available for 30" and 36"(750mm and 900mm).

Flange drilling shall be in accordance with _____ (ASME B16.5 class 150, 2-24"/50-600mm) (ASME 16.47 Series A class 150, 26" - 48"/650 mm - 1200 mm) (JIS 10) (DIN 10) (DIN 16) (ISO 7005-1/PN10) (ISO 7005-2/PN16) (BS 4504/PN10) (BS 4504/PN16) (AS2129 Table D) (AS2129 Table E) (SANS 1123-1000) or (SANS 1123-1600).

Actuation Manually actuated valves 2-12" (50 - 300mm) shall have _____ (chainwheel) (handwheel) (lever) (bevel gear) actuators. Valves 14-36" (350 - 900mm)

shall be supplied with _____ (handwheel) (chainwheel) (bevel gear) actuators. The manual operated (handwheel) (chainwheel) (lever) actuator yoke shall be one piece _____ (cast carbon steel) (304 cast stainless steel) or (specify). The bevel gear yoke shall be a two piece _____ (cast carbon steel) (304 cast stainless steel) or (specify). The yoke sleeve shall be aluminum bronze. The stem shall be type 304 stainless steel. A standard locking device shall be available upon request. The lockout shall be rated to withstand the maximum output of the actuator.

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). The powered actuator yoke shall be a two piece design of _____ (cast carbon steel) (304 cast stainless steel) or (specify). An adjustable standard locking device shall be available upon request. The lockout shall be rated to withstand the maximum output of the actuator.

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.