

**DeZURIK KGC-MD MAXIMUM DUTY
CAST KNIFE GATE VALVES
SUGGESTED SPECIFICATION**

APPLICATION DATA 35.01-6

Page 1
August, 2013
First Issue



All valves shall be a Model KGC-MD Cast Knife Gate Valves as manufactured by DeZURIK or approved equal.

Valve shall be the bonnetless knife gate. Valve rating shall meet or exceed MSS SP-81. Valves shall be 150 psi (1030 kPa).

Gate edge shall be machined, finished, rounded and have a 45 degree beveled knife edge. The gate faces shall be finish ground on all sides. The gate shall be type _____ (410 Stainless Steel) (Specify).

Exclusive Premium Packing System shall fit a rounded machined packing chamber. The packing system shall consist of multiple layers of packing with top and bottom wire scraper rings. The selected packing system shall be for high cycle, abrasive service. The packing gland shall match the valve body or _____ (specify). The basic valve fasteners shall be stainless steel or _____ (specify).

Body shall be a one-piece casting of type _____ (304) (316) (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 ANSI 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 removable metal with optional resilient seat seal for dual metal and resilient seating. Valve seat ring shall have an overlay on the port area of _____ (chrome carbide) (specify) (if none, remove sentence). Overlay shall be .1" (3mm) in thickness. Resilient seats shall be mechanically retained and provide drip-tight shutoff. Resilient seat material shall be _____ (acrylonitrile butadiene) (specify) suitable for use with _____ (specify flowing media and temperature).

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

Flange drilling shall be in accordance with _____ (ANSI B16.5 Class 150) (specify).

Actuation Valves shall be furnished with _____ (cylinder) (specify) 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).

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Page 2

August 2013

Lock Out Device: An adjustable standard locking device shall be available upon request. The lockout shall be rated to withstand the maximum output of the actuator.

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

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