

## DeZURIK KGN CAST KNIFE GATE VALVES SUGGESTED SPECIFICATION

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First Issue



All valves shall be a Model KGN Cast Stainless Steel Knife Gate Valves as manufactured by DeZURIK or approved equal.

Valve shall be the bonnetless knife gate.

Gate edge shall be machined and finished. The gate faces shall be finish machined. Metal seated valves shall have a beveled bottom gate; resilient seated valves will have a flat bottom gate.

Packing system shall consist of multiple layers of packing. The selected packing system shall be for \_\_\_\_\_ (wet) (dry) (high temperature) (food grade) service. The packing gland shall match the valve body material. The fasteners shall be stainless steel.

Body shall be a one piece casting of type \_\_\_\_\_ (304) (316) stainless steel for corrosive applications. Metal seated valve body shall incorporate rugged guides and jams to support and wedge the gate against the seat. Valve inside port diameter shall conform to MSS SP-81 requirements for both metal and resilient seated valves.

Seat shall be \_\_\_\_\_ (resilient) (metal) seated.

Metal Seated valves shall provide shutoff capability to MSS SP-81.

Resilient seated valves shall have a perimeter seat design and provide bubble-tight shutoff in both directions to the full rating of the valve. The resilient seated valve shall be fully rated for dead end service and have no recommended flow direction and not require line pressure to seal. Resilient seat material shall be \_\_\_\_\_ (EPDM, NBR, FKM) suitable for use with \_\_\_\_\_ (specify flowing media and temperature).

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 2-24" (50-600mm) and 100 psi (690 kPa) for sizes above 24" (600mm).

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).

Actuation Manually actuated valves 2 - 12" (50 - 300mm) shall have handwheel or bevel gear actuators. Valves 14 - 36" (350 - 900mm) shall be supplied with \_\_\_\_\_ (handwheel) (chainwheel) (bevel gear) actuators.

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The manual operated valve's actuator yoke shall be \_\_\_\_\_ (carbon steel) (304 stainless steel). The yoke sleeve stem nut shall be aluminum bronze or brass. The stem shall be stainless steel.

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 \_\_\_\_\_ (carbon steel) or (304 stainless steel).

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

All valves shall have a 2-Year Manufacturer's Warranty.

### Perth Branch

U2/41-45 Furnace Road  
Welshpool WA 6106

Phone: +61 8 9353 2565

[sales@thevalvecompany.com.au](mailto:sales@thevalvecompany.com.au)

### Kalgoorlie Branch

2/69 Craig Road  
West Kalgoorlie WA 6430

Phone: +61 8 9021 6668

[sales@thevalvecompany.com.au](mailto:sales@thevalvecompany.com.au)

### Brisbane Branch

U5/225 Queensport Road  
North Murrarie QLD 4172

Phone: +61 7 3348 8636

[sales@thevalvecompany.com.au](mailto:sales@thevalvecompany.com.au)

### Bunbury Branch

Phone: +61 417 744 791

[sales@thevalvecompany.com.au](mailto:sales@thevalvecompany.com.au)