

**DeZURIK KUL URETHANE LINED
KNIFE GATE VALVES
SUGGESTED SPECIFICATION**

APPLICATION DATA 32.01-2
August, 2019
Supersedes July, 2017



All valves shall be Model KUL Urethane Lined Knife Gate Valves as manufactured by DeZURIK or approved equal.

Valve shall be the bonnetless knife gate.

Valves shall be cast urethane seamless lined, rated for temperature -40° F to 180° F (-40° C to 83° C) or specify. Urethane shall be _____ (standard urethane black) (specify). All wetted parts of the body shall be urethane. Flanged valves shall include a urethane raised face on each side of the valve requiring no gaskets.

Body shall be a one piece cast ductile iron or (specify) type. Flanged valves shall conform to ASME B36.1, 125 lbs. Valve body shall be pressure rated at _____ (150 psi; 1030 kPa) or (250 psi/1720 kPa) maximum Cold Working Pressure. Cold Working Pressure valve rating shall meet or exceed MSS SP-81 on valves 2-24" (50-500mm). The valves shall be seat tested and drip tight to full rated pressure in either direction. The bodies shall be shell tested to 1.5 times the rated pressure.

The gate shall be _____ (304) (316) (317) (254 SMO)) (17-4 Heat Treated) (410 Heat Treated) (2205 Duplex) stainless steel or (Hastelloy C) for 150 psi maximum Cold Working Pressure or (17-4 Heat Treated) (410 Heat Treated) or (2205 Duplex) Stainless Steel for 250 psi maximum Cold Working Pressure.

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

Packing System shall fit a rounded packing chamber. The packing shall consist of multiple layers of packing. The selected packing shall be for _____ (wet) (dry) (high temperature) (food grade) service. The packing gland shall be 316 Stainless Steel or (specify). The fasteners shall be stainless steel or (specify).

Face-to-face dimension of flanged valves shall meet MSS SP-81 for knife gate valves on 2-24" (50-600mm). Grooved End Valves shall meet ANSI/AWWA C606-15 _____ (Style 77 Table 4), (Style 31 Table 2), (Style 31 Table 3).

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 -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). Grooved end valves shall conform to ANSI AWWA C606 standard.

Actuation Manually actuated valves 2-16" (50-400mm) shall have _____ (chainwheel) (handwheel) (bevel gear) actuators. The manual operated (handwheel) (chainwheel) 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.