



All valves shall be a Model KSL-SD Slurry Knife Gate Valve as manufactured by DeZURIK or approved equal.

Heavy-duty slurry knife gate valve shall be flat face flanged, packingless, push through gate design with face-to-face dimensions per MSS SP-81.

Valve shall be cast ductile iron with thick, compressed, elastomer sleeves that provide sleeve-to-sleeve seal with the valve open and sleeve to gate seat seal on both the upstream and downstream side of the valve when closed. Valve shall have a full-unobstructed port. Integral lifting lugs shall be standard on 4" and larger sizes.

Top Seal shall be provided to prevent leakage from the top of the valve and shall be one piece molded elastomer with integrated reinforcement plate.

Body shall be a one-piece casting of _____ (Ductile Iron) or (Specify). Design shall eliminate any cavities in the lower body and discharge material that could potentially prevent the valve from closing.

Gate shall be type _____ (316) (17-4 Heat Treated) stainless steel or (Specify). The gate shall fully retract out of the flowing media when in the open position and be capable of being replaced without taking the valve out of service.

Resilient Sleeves shall be capable of drip tight bi-directional shutoff to the full pressure rating of the valve. The sleeves shall act as flange gaskets and increase the installed valve face-to-face dimension by ¼ inch. Resilient sleeve material shall be _____ (NR) or Specify (EPDM) (HNBR).

Cold Working Pressure valve rating shall be 150 psi (1030 kPa) CWP on sizes 2-16" (50-400 mm) and 100 psi (690 kPa) CWP on on sizes 18-24" (450-600mm).

Flange drilling shall be in accordance with _____ (ASME B16.5 class 150) (JIS 10) (ISO 7055/PN10) (ISO 7055/PN16) (BS 4504/PN10) (BS 4504/PN16) (DIN 10) (DIN 16) (AS2129 Table D) (AS2129 Table E) (SANS 1123-1000) or (SANS 1123-1600).

Actuation Manually actuated valves shall have _____ (chainwheel) (handwheel) on 2-10" (50-250mm) valves or (bevel gear) actuators. The manual operated (handwheel) (chainwheel) (bevel gear) superstructure shall be vertical plane style with straight legs of _____ (carbon 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 superstructure shall be vertical plane style with straight legs of _____ (carbon steel) or (specify). A 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) (switches) mounted on the valve.