

GENERAL SPECIFICATIONS

MODEL: ZFI

ZFI model knife gate valves are manufactured under technical collaboration with Schütte group, Germany. These valves can be used for shut-off applications of liquid, liquid-solid mixes / slurry & dry bulk solids. These valves can be installed in vertical / horizontal / inclined position & depending upon the type of sealing can have area of opening varying from 90 to 100 percent of the nominal valve size.

SALIENT FEATURES OF KNIFE GATE VALVE, MODEL: ZFI

- A full lug type design up to DN 600 (24") and full flange type design above DN 600 (24").
 - Valve mounting drilling to suit ASME B16.5 / ASME B16.47 #150 / BS-EN 1092 PN 10 / PN 16 standards.
 - Pressure rating ranging from PN3 (45 PSI) to PN10 (150 PSI) dependent on materials of construction of the valve housing.
 - Gate having beveled knife-edge at its front to cut through solid particles settled at bottom of the body so as to achieve full closure.
 - Sealing is achieved by means of the welded jams pushing the gate on to the seat for full contact between the gate & the seat.
 - Valve suitable for unidirectional flow is provided with sealing on one side only. Valve suitable for bidirectional flow is provided with sealing on both the sides.
 - Varied sealing configurations are available particularly resilient seat with replaceable band (Series C-201, C-211), integral metal seated (Series C-202, C-212), resilient seat with replaceable seat retainer ring (Series C-203, C-213), metal seated with replaceable seat retainer ring (Series C-204, C-214), resilient seat with replaceable seat retainer ring at both ends (Series C-205, C-215).
 - Resilient seated valve offers zero leakage at applicable pressure.
 - The metal seated valves offer leakage within permissible limits as per AWWA C520-14 / MSS SP-81 standards.
 - Packing of synthetic yarn with PTFE impregnation for a better life.
 - Rising stem with single / double start thread offered as per requirement. Non-rising stem offered as optional.
 - Valves offered with varied operating options such as Hand Wheel / Hand Lever / Bevel Gear / Pneumatic Cylinder / Electric Actuator / Hydraulic Cylinder.
 - For abrasive applications, valve can be optionally offered with hardening on valve bore face, edge of the gate, seat face or entire gate.
 - Depending upon the size of the valve, purging and drain ports can be provided.
 - General compliance to requirements of AWWA C-520-14 and MSS SP-81 standards.
 - Varied material of construction options for all valve components as stated on page No. 4, 5 & 6.
- **Painting:** Epoxy paint with total dry film thickness of minimum 100 microns offered as standard. Higher film thickness of 250 microns and fusion bonded epoxy paint can be offered as optional.
 - **Testing:** In accordance with AWWA C-520-14 and MSS SP-81 standards.



DN 1500 (60") valve as supplied to Yukon Energy Corporation, Canada.