

# PORTED SLIDE GATE VALVES

Acceptable Brands: ITT Fabri-Valve

## Tightness

- Knife Gate valves must be bi-directional, bubble tight, from 0-psi to the valve's full cold working pressure rating (CWP).

## Knife Gate Body

- The valve body must be cast or fabricated as a single piece. Two-piece valves are not acceptable.
- Valve flanges must be drilled to ANSI Class 150 or to customer specification.
- Minimum body rating must be 150 CWP

## Gate

- Minimum gate surface finish is to be 125 rms.

## Seat

- Seats must be field-replaceable and interchangeable.
- A backing ring and metal core shall be incorporated in order to prevent excess movement of the seat and increase seat life.
- Any leakage past the closed valve shall exit through the valve body and not be permitted into the downstream pipe.

## Packing

- Packing must be multiple layers braided packing.
- Packing must be replaceable without removing the valve from service or dropping line-pressure.
- 6" (DN 150) and larger valves must have energized cored packing and packing supports.

## Valve Internal Diameter (ID)

- The port ID must be equal to or greater than that of standard steel pipe.
- Open or Closed valve must provide no grooves or recesses for collecting media.

## Stem

- The valve must have a 1/4" pitch. 1/4" lead on hand wheel or gear operated valves.
- Valves must be provided with a bellows type cover over the stem between the operator/handwheel and valve body.

## Testing

- All valves must be body seat tested and cycle tested prior to shipment.
- The seat must be hydro-tested at 15 psi (1 bar) and the rated CWP from each direction. Leakage past the seat is not acceptable.
- The valve must be cycled a minimum of three complete cycles prior to shipment to ensure proper functioning of all moving parts.

## Travel Stop

- The valve must include a travel stop.

## Lock-Out Device

- Valves must include a locking device.

