SERIES 740 BIDIRECTIONAL KNIFE GATE VALVE
RECOMMENDED SPECIFICATION SHEET

VALVE DETAILS
- Bray Series 740 Bidirectional Knife Gate Valve or approved equal.

BODY
- Shall be single-piece, fully lugged, MSS SP-81 face-to-face.
- Standard multi-layer square packing provides exceptional gland sealing. Optional energized quad seal packing for enhanced gland sealing.
- Unrestricted flow path with minimal pressure drop achieved through full port valve design.
- Shall include topworks designed for easy, quick conversion between manual and pneumatic actuation.
- Chest liner for sizes up to 12” and PTFE anti-extrusion ring for sizes 14” and up.

SEAT
- Mechanically and geometrically retained steel reinforced elastomer seat ensures bidirectional zero leakage shutoff.

GATE
- Gate design ensures consistent alignment throughout the length of the stroke.

STEM & CLEVIS
- Clevis design and horizontal bolting stabilizes gate ensuring proper alignment.

PRESSURE RATINGS
- Bi-Directional
  - 2” – 24” 150 psi
  - 30” – 36” 100 psi

APPROVALS AND CERTIFICATIONS
- CRN
- PED – Category I Module A
- AWWA CS20

OPERATORS
- Hand Wheel
- Bevel Gear
- Electric
- Pneumatic
- Hydraulic

TESTING
- Shell and seat test per MSS SP-151.
- Factory cycle test.
- Certificate of design conformance is available with every valve.

OPTIONAL:
- Gate Guards
- Open/Closed Lockouts
- Limit Switches
- Solenoid Valve
- Fail Safe Systems