



RESILIENT SEATED LVC FIGURE 77 KNIFE GATE VALVES 2”-24”

Suggested Specifications

The Figure 77 valves shall be of the bonnetless knife gate valve type, rated for 150 PSI CWP. Flanges shall be drilled and tapped to ANSI B16.5, 150 pound standard with raised faces. Flange raised face shall be machined using serrated-spiral or serrated-concentric grooves with a 125-250 RMS finish. Valve bodies shall be cast 304 or 316 stainless steel. (CF8 or CF8M)

Valve shall have 304/316 SS gate and a Buna seat. Gate shall be of design and thickness to withstand full 150PSI rated pressure without permanent deflection to the gate. Gate shall have a rounded bottom. The seat shall be positioned to seal around the perimeter of the gate for drip-tight bi-directional shutoff in either direction and at any pressure from vacuum to 150PSI. The resilient seat shall be a molded or extruded elastomer with internal stainless steel rod for stiffening. Seat retainers shall be provided in the lower half of the valve body to retain the seat and guide the gate during closing. At least two gate guides shall be provided in the upper half of the valve body.

Packing gland shall be cast CF8M stainless steel and shall have an adequate number of gland bolts to provide even tightening of the packing material by the packing gland. Packing shall be Teflon lubricated synthetic packing with a minimum of 4 rows. Packing gland bolts, studs and nuts shall be 304 stainless steel or better with respect to strength and corrosion resistance.

Valve yoke shall be cast 304 stainless steel. The yoke shall be the flat top design to allow bolt-on field installation or conversion of actuators without welding or machining. The valve stem shall be 304 stainless steel with full ACME threads. Stem nut shall be bronze. Stem nut shall be enclosed by the use of a cast stainless steel retainer.

Manually actuated valves shall be handwheel operated for all sizes. Bevel gear operators are recommended for valves 14” and above where frequent operation is required and/or where used in applications above 75 PSI.

Valves shall be designed, manufactured and tested to MSS SP-81 standard.

All valves shall be Pratt LVC Figure 77 Bonnetless Knife Gate Valve or equal.

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