



LVC FIGURE 53 DUCTILE IRON, RESILIENT SEAT WAFFER KNIFE GATE VALVES 3”-24”

Suggested Specifications

Valves shall be of the bonnetless knife gate valve type, with pressure rating of 150 PSI CWP. Valves shall be wafer body style with MSS SP-81 face-to-face and ANSI B16.5, Class 150 flange bolting. Flange shall have a smooth raised face with a powder coated finish. Valve bodies shall be cast ductile iron and of a split body design.

Valve shall have a 304 SS gate. Gate shall be of design and thickness to withstand the design pressure without permanent deflection to the gate. Gate shall have a rounded bottom.

Valve shall have a replaceable Natural Rubber (or optional Neoprene or EPDM) seat that will provide bi-directional bubble tight shutoff. The seat shall be flush at the bottom of the port of the valve eliminating pockets that collect debris. Seat shall be mechanically retained in the valve body and shall have a molded in steel reinforcement to provide rigidity to the seat.

Packing gland shall be cast ductile iron and shall have an adequate number of gland bolts to provide even tightening of the packing material by the packing gland. Packing shall fully wrap around the gate. Packing shall be Teflon lubricated synthetic packing with a minimum of 4 rows. Packing gland bolts, studs and nuts shall be 304 stainless steel.

Valve yoke shall be cast ductile iron. Yoke shall be the flat top design to allow bolt-on field installation or conversion of actuators without welding or machining.

Valve stem shall be 304 Stainless steel with full ACME threads. Stem nut shall be bronze. Stem nut retainer shall be of the enclosed type and shall be ductile iron.

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

Body, packing gland, yoke and retainer shall have a heat activated power coating on interior and exterior of each part.

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

All valves shall be Pratt LVC Fig 53 Knife Gate Valves or equal.

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