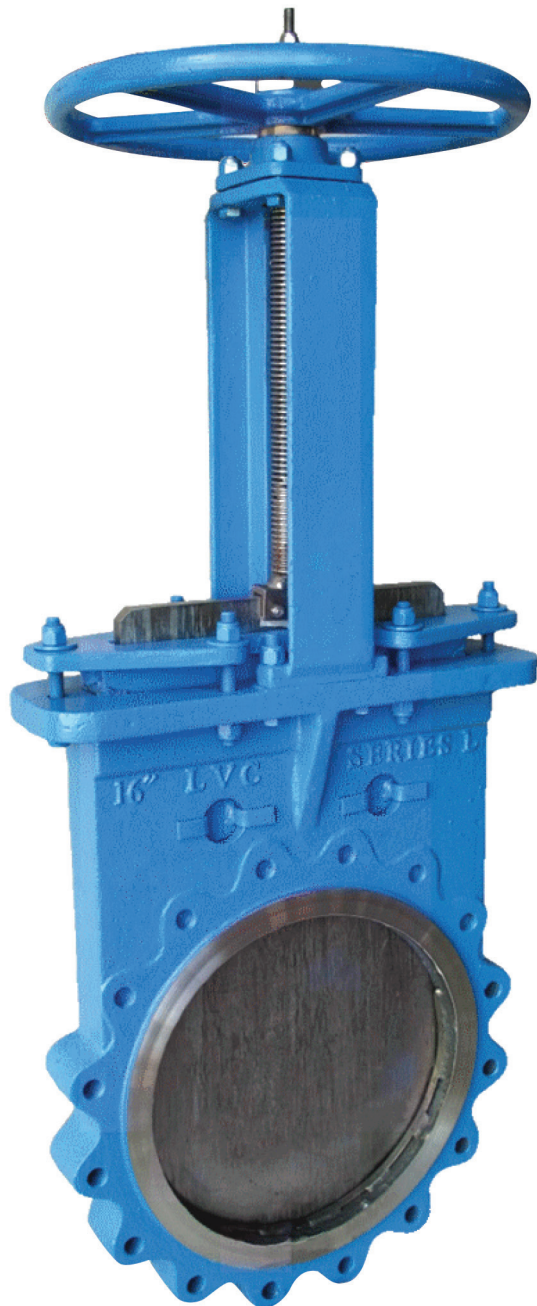




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LVC Figure L77 Ductile Iron Body Stainless Steel Lined Resilient Seated Knife Gate Valve



Features

- Heavy duty cast ductile iron body, packing gland, and yoke.
- Heavy duty solid lug body design resists deflection from line loads and internal pressure.
- Fabricated stainless steel liner. Available in any weldable alloy.
- Stainless steel gate.
- Gate design withstands full 150 PSI rated pressure as required by MSS SP-81.
- Resilient seat provides bi-directional, drip tight shut off.
- Bi-Directional Buna resilient seat standard. Also available in EPDM, Viton, Neoprene and other materials. See reverse side for temperature limits.
- Quick and easy resilient seat replacement.
- Heavy duty cast ductile iron yoke will not bend or twist under extreme loads.
- Easy conversion from handwheel operator to hydraulic or pneumatic cylinder, bevel gear, chainwheel, electric motor, or fail safe spring cylinder operator using existing cast yoke.
- Enclosed bronze stem bushing provides reduced operating torque and protection of the stem bushing in harsh environments.
- Precision machined stainless steel gate for superior seating capability.
- Stainless steel stem resists corrosion.
- Standard TFE lubricated synthetic packing (TLSP).
- Available in sizes 14", 16", 18", 20", and 24".
- MSS SP-81 Stainless Steel, Bonnetless, Flanged Knife Gate Valves.
- AWWA C520 Knife Gate Valves, 2in.— 96in.
- CRN Registered.



LVC Figure L77 Ductile Iron Body Stainless Steel Lined Resilient Seated Knife Gate Valve

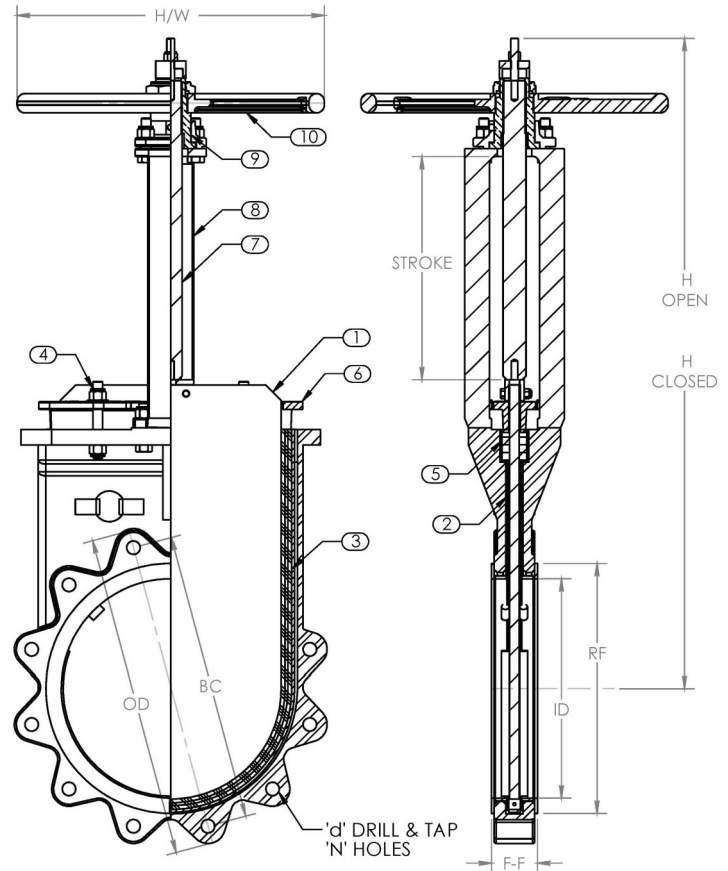
Materials of Construction

| Model | L77 |
|---------------|----------|
| 1 Gate | SS |
| 2 Liner | SS |
| 3 Seat | Buna-N** |
| 4 P/G Bolting | SS |
| 5 Packing | TLSP* |
| 6 Gland | DI |
| 7 Stem | SS |
| 8 Yoke | DI |
| 9 Stem Nut | Bronze |
| 10 Handwheel | DI |

*TLSP = TFE Lubricated Synthetic Packing.

Normally supplied with handwheel for manual operation, but can be modified for chainwheel, bevel gear, fail safe spring cylinder, electric motor, hydraulic or pneumatic cylinder operator.

| **Material | Temp. Limits °F (°C) |
|------------|------------------------|
| Buna | -35 (-37) to 250 (121) |
| EPDM(P) | -65 (-54) to 300 (149) |
| Neoprene | -40 (-40) to 225 (107) |
| Viton | -20 (-29) to 400 (204) |



Dimensions (Inches) and Weights

| | Size | 14 | 16 | 18 | 20 | 24 |
|---------------------|-------|---------|----------|----------|----------|----------|
| Face-to-Face | F-F | 3 | 3-1/2 | 3-1/2 | 4-1/2 | 4-1/2 |
| Flange OD | OD | 21 | 23-1/2 | 25 | 27-1/2 | 32 |
| Bolt Circle | BC | 18-3/4 | 21-1/4 | 22-3/4 | 25 | 29-1/2 |
| Flanged Raised Face | RF | 16-1/2 | 18-3/4 | 21 | 23 | 27-1/4 |
| Inside Diameter | ID | 14-1/4 | 15-15/16 | 17-3/4 | 19-3/4 | 23-3/4 |
| No. of Bolt Holes | N | 12 | 16 | 16 | 20 | 20 |
| Hole D&T Size | D | 1"-8 | 1"-8 | 1-1/8"-7 | 1-1/8"-7 | 1-1/4"-7 |
| C/L to Top-Closed | H-CLS | 42-3/16 | 62-1/4 | 50-3/16 | 56-9/16 | 64-3/16 |
| C/L to Top-Open | H-OPN | 59-9/16 | 78-3/8 | 68-13/16 | 76-5/16 | 84-7/16 |
| Handwheel Dia. | H/W | 20 | 20 | 20 | 24 | 24 |
| Weight - lbs | WT | 360 | 495 | 565 | 790 | 1015 |
| Stroke | S | 14-3/8 | 16-1/8 | 18-5/8 | 19-3/4 | 20-1/4 |

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