# A-C VALVE , INC.

# FIGURE 65
## INSTALLATION & MAINTENANCE

## DESCRIPTION:

The Fig 65 is a bonnetless knife gate valve. It has a Urethane liner with an integral seat and is a bi-directional valve. 4 rows of packing are used to seal between the gate and the body. The pressure rating of the Fig 65 valve is 150 PSI CWP (Cold working pressure).

## SHIPPING & STORAGE:

For shipment the valve will be in the closed position. Small valves(3", 4", and 6") may be shipped in individual boxes. Larger valves and large quantities will be shipped on pallets, skids or in boxes, all of which will require a forklift for moving. Storage should be in a clean dry environment such as a warehouse.

## INSTALLATION:

Install the valve to the mating pipe flange using proper size bolts. See Chart 1 for bolt size. Bolt length is not included on Chart 1 since different flanges will require different length bolts. It is very important to choose the proper length of bolt for the bolt holes in the chest of the valve. These holes are bottom drilled and tapped holes and in some cases contain less than a bolt diameter of threads. Be careful not to bottom out bolts in the chest during installation. If necessary use washers to shorten the penetration of the bolt into the chest holes. Chart 2 gives recommended bolt torques to be used during installation. Use the cross torque pattern method for tightening the bolts. Mating flanges must be parallel and true with each other and the valve. Do not use the valve to pull together or force apart the two mating pipes.

Note: The Urethane raised face on the valve serves as the required gasket.

After installation, open and close the valve once to assure smooth operation.

# MAINTENANCE:

The only items requiring maintenance on the Fig 65 Urethane lined knife gate valve are the packing and the lubrication of the stem. The packing gland may require adjustment after installation, especially if the valve has been in storage for an long time. All sizes of the Fig 65 valve have four or more packing gland bolts. Normally just a small amount of tightening per bolt is required. Do not tighten the bolts more than is necessary to stop the leaks. Try to adjust the packing gland down evenly to avoid the possibility of the gland rubbing on the gate as it moves. Generally, the more a valve is operated the more maintenance will be required to keep packing leaks under control.

Lubricate the stem nut and stem by using a grease gun on the grease fitting at the top of the yoke.

**CHART 1**

| VALVE SIZE (IN) | BOLT SIZE (IN) | NUMBER OF BOLTS |
|---|---|---|
| 3" | 5/8-11 | 4 |
| 4" | 5/8-11 | 8 |
| 6" | 3/4-10 | 8 |
| 8" | 3/4-10 | 8 |
| 10" | 7/8-9 | 12 |
| 12" | 7/8-9 | 12 |
| 14" | 1-8 | 12 |
| 16" | 1-8 | 16 |
| 18" | 1-1/8-7 | 16 |
| 20" | 1-1/8-7 | 20 |
| 24" | 1-1/4-7 | 20 |
| 30" | 1-1/4-7 | 28 |
| 36" | 1-1/2-6 | 32 |

**CHART 2**

| VALVE SIZE (IN) | RECOMMENDED TIGHTENING TORQUE (FT-LBS) |
|---|---|
| 2"-3" | 55 +/- 5 |
| 4"-8" | 65 +/- 5 |
| 10"-12" | 110 +/- 10 |
| 14"-16" | 135 +/- 10 |
| 18"-24" | 150 +/- 10 |
| 30" | 200 +/- 10 |
| 36" | 250 +/- 10 |

**A-C VALVE**
675 MITCHELL AVE.
WOODLAND, WA 98674

TEL: 360-225-8003 FAX: 360-225-8638