A-C VALVE, INC.

FIGURE 92
INSTALLATION & MAINTENANCE

DESCRIPTION:

The A-C VALVE Fig 92 is a bonnetless slide gate valve. It has either a metal to metal or a metal to o-ring seat. In either case it is a unidirectional valve, meaning that there is a preferred seating direction. 4 rows of packing are used at both ends of the valve to seal between the gate and the body. The pressure rating of the Fig 92 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:

Find the marking on the valve gate near the top flange that says "**SEAT**". This is the down stream side of the valve. Be sure to install the valve so that pressure enters the upstream side of the valve and flows out of the downstream side of the valve. Failure to install the valve properly can result in damage to the valve gate.

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, however, depending on the type of gaskets being used the required torques may be higher or lower. 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.

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

MAINTENANCE:

The only items requiring maintenance on the Fig 92 slide 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. When adjusting packing on valves with four of more bolts it is best to tighten the bolts on the side opposite the seat side first. 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

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