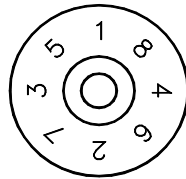


INSTALLATION AND MAINTENANCE INSTRUCTIONS

For Chemline DFK Series Damper Style Butterfly Valves

Installation: (all valves sizes 1-1/2" to 24")

1. Low torque flange gaskets are required for installation of this valve.
2. Flange bolts should be well lubricated and with plastic flanges, it is important to use washers.
3. Tighten bolts with a torque wrench evenly and in a symmetrical pattern as shown in the figure below:



4. The recommended torques are tabled below. Lower bolt torques may be applied for lower working pressure lines.

RECOMMENDED FLANGE BOLT TORQUES

VALVE SIZE	BOLT TORQUE			
	FLANGE	PSI - 50	PSI - 100	PSI - 150
1½		11	13	14
2		13	14	16
2½		13	14	16
3		18	20	22
4		20	20	22
5		22	15	29
6		25	15	32
8		25	32	40
10		25	32	40
12		29	36	-
14		32	36	-
16		36	[58-85 PSI]	-
18		36	[58-85 PSI]	-
20		72	-	-
24		72	-	-

Installation and Maintenance Butterfly Valves cont.

5. The lug body valves require bolts one size smaller than standard.
6. On slurry services, or where solids may collect in the line, the valves should be installed with the shaft in the horizontal position. This will reduce wear at the seal area of the disc, increasing valve life.
7. Before start up, any solids should be discharged from the bottom of the piping system to prevent abrasion of the valve disc. Accumulated gasses from the top should be vented from the top of the piping system to avoid water hammer which stresses valves and fittings in any pipe system.

Maintenance Instructions Gate Valve cont.

Spare Parts:

Replacement parts per the valve data page are:

Part #2, Disc part number CGxxx-2B

Replace "xxx" with valve size.

Part # 3, Shaft (PVC body with Steel Core): part number CGxxx-3As

Replace "xxx" with valve size.

Part #7, Shaft O-Ring: part number CGxxx-7y

Replace "xxx" with valve size.

Replace "y" with component material

Part #8 (A) Thrust Ring (1 1/2-6''): part number CGxxx-8P

Replace "xxx" with valve size.

Part #9, Bonnet O-Ring: part number CGxxx-9y

Replace "xxx" with valve size.

Replace "y" with component material

Spare Parts Ordering Example

Chemline True Union Ball Valves	CGA	020 -			2	Y
Size	002 - 1/4" 010 - 1" 025 - 2-1/2"	003 - 3/8" 012 - 1-1/4" 030 - 3"	005 - 1/2" 015 - 1-1/2" 040 - 4"	007 - 3/4" 020 - 2" 060 - 6"		
Components	2 - Disc	3 - Shaft	7 - Shaft O-Ring	8(A) Thrust Ring (1 1/2''-6'')	8 (B) Thrust Bearing (8''-14'')	
Material	E - EPDM	V - Viton (FKM)	P - PTFE	A - PVC w/ Steel Core	B - Polypropylene	