

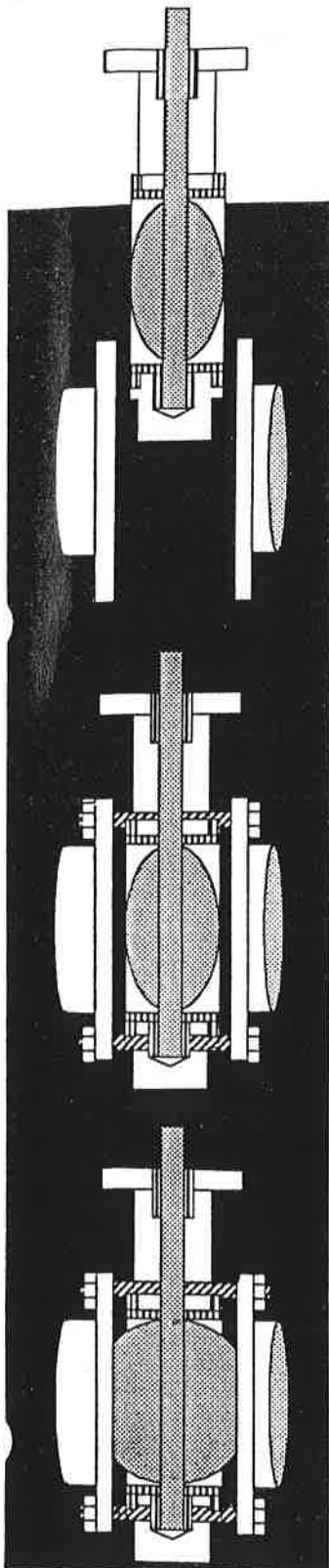


BULK TANK, INC.



400 PARKWAY DRIVE
PARK HILLS, MO 63601
www.bulktankinc.com

573-518-0600
1-800-841-5524



Correct

Open pipework flanges to allow entry of valve without rubbing against seat. Rotate valve handle or actuator to position disc about 1/4" from the outside edge of the seat (as shown). This will protect disc edge from bumping pipework, and reduce seat interference and initial torque build-up.

Correct

Position the valve between pipework flanges and assemble the valve housing to the flanges, using all required flange bolts. **DO NOT USE ANY TYPE OF FLANGE GASKETS.** The O - ring sealing section of the Sure Seal Butterfly Valve Seat provides a positive seal to all popular flanges.

Correct

Turn the valve disc to the full open position. Center the valve housing in the flanges, and hand-tighten bolts. Slowly close the valve to check for clearance between valve disc and pipe or Flange I.D. If valve disc hits, reposition valve as necessary. Re-open valve disc to full open position and cross-tighten all bolts to proper torque specification.

Incorrect

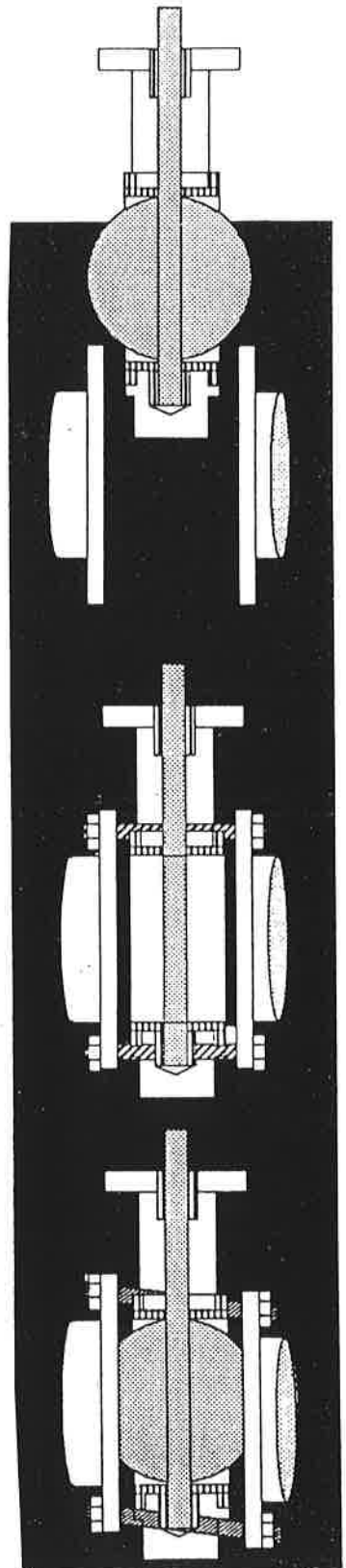
DO NOT try to install valve with pipework flanges spread insufficiently. This will damage the valve seat and prevent the valve from operating properly. **DO NOT** install valve with disc in open position (as shown), or disc will impact pipework flanges and damage polished sealing edge of disc.

Incorrect

DO NOT try to install the valve with the disc fully closed. Remove actuator if necessary, to allow slight opening of disc. Installation with disc fully closed will cause seat distortion because of seat rubber trying to close around disc edge (as shown). This installation will cause excessive torque in initial operation.

Incorrect

DO NOT misalign valve housing or pipework (as shown). Misalignment may cause interference between disc edge and flange face. This will result in leakage, excessive torque and possible damage to disc and seat. Operation of valve in misaligned flanges may also create a pocket where flowing media may become entrapped.





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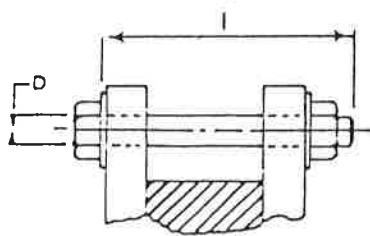
Stud and Bolt Specification

Flange Bolts & Screws Required for
 Sure Seal Valves between 150# ANSI Flanges

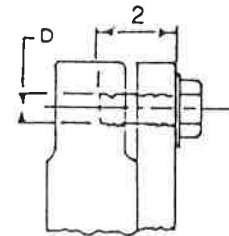
HEAVY HEX BOLTS & NUTS

REGULAR HEX HEAD CAP SCREWS WITH N-C THREADS

VALVE SIZE	DIAMETER "D"	LENGTH "1"	NUMBER REQUIRED	DIAMETER "D"	LENGTH "2"	NUMBER REQUIRED
2"	5/8"	4"	4	5/8"	1 1/2"	8
3"	5/8"	4 1/2"	4	5/8"	1 3/4"	8
4"	5/8"	5"	8	5/8"	1 3/4"	16
5"	3/4"	5"	8	3/4"	1 3/4"	16
6"	3/4"	5"	8	3/4"	2"	16
8"	3/4"	6"	8	3/4"	2 1/4"	16
10"	7/8"	6"	12	7/8"	2 1/4"	24
12"	7/8"	6 1/2"	12	7/8"	2 1/2"	24



Wafer Type Butterfly Valve
 using Cross Bolting



Full Lug Type Butterfly Valve
 with Tapped Holes

Standard Conversions

To Change	To	Multiply By
Inches _____	Feet _____	0.0833
Inches _____	Millimeters _____	25.4
Square Inches _____	Square feet _____	0.00694
Square feet _____	Square inches _____	144
Cubic inches _____	Cubic feet _____	0.00058
Cubic feet _____	Cubic inches _____	1728
Cubic inches _____	Gallons _____	0.00433
Cubic feet _____	Gallons _____	7.48
Gallons _____	Cubic inches _____	231
Gallons _____	Cubic feet _____	0.1337
Gallons _____	Pounds of water _____	8.33
Pounds of water _____	Gallons _____	0.12004
Ounces _____	Pounds _____	0.0625
Inches of water _____	Pounds per sq. inch _____	0.0361
Inches of water _____	Inches of mercury _____	0.0735
Inches of water _____	Ounces per sq. inch _____	0.578

Standard Conversions

To Change	To	Multiply By
Inches of water _____	Pounds per sq. foot _____	5.2
Inches of mercury _____	Inches of water _____	13.6
Inches of mercury _____	Feet of water _____	1.1333
Inches of mercury _____	Pounds per sq. inch _____	0.4914
Ounces per sq. inch _____	Inches of mercury _____	0.127
Ounces per sq. inch _____	Inches of water _____	1.733
Pounds per sq. inch _____	Inches of water _____	27.72
Pounds per sq. inch _____	Feet of water _____	2.310
Pounds per sq. inch _____	Inches of mercury _____	2.04
Pounds per sq. inch _____	Atmospheres _____	0.0681
Feet of water _____	Pounds per sq. inch _____	0.434
Feet of water _____	Pounds per sq. foot _____	62.5
Feet of water _____	Inches of mercury _____	0.8824
Atmospheres _____	Pounds per sq. inch _____	14.696
Atmospheres _____	Inches of mercury _____	29.92
Atmospheres _____	Feet of water _____	34