

Combination Silent Check Valve, Shut-Off Valve, And Balanced Valve

**RECEIVING, HANDLING AND INSPECTION**

- 1) Unpack and inspect the Type CSB valve for damage which may have occurred during shipping. Damage should be reported to the carrier immediately. Store the valve in a dry, clean area until it is installed.
- 2) Remove shipping covers and inspect for any foreign matter that could be washed downstream when the valve is put into service.
- 3) Carefully check the pressure and temperature ratings on the valve body or nameplate to be sure that they are corrected for the intended application.

INSTALLATION

- 1) Place the valve in the line so that the flow arrow on the side of the body points away from pump outlet. Use the hole in the web of the body points or slings around the body or flangers.
- 2) Allow enough room around the valve for easy access to the valve stem.

- 3) Connect the valve to the piping. Use full flat fan gaskets.



NOTE: VALVES SHOULD
BE POSITIONED AS
SHOWN. CONSULT
FACTORY FOR DOWNWARD
FLOW.

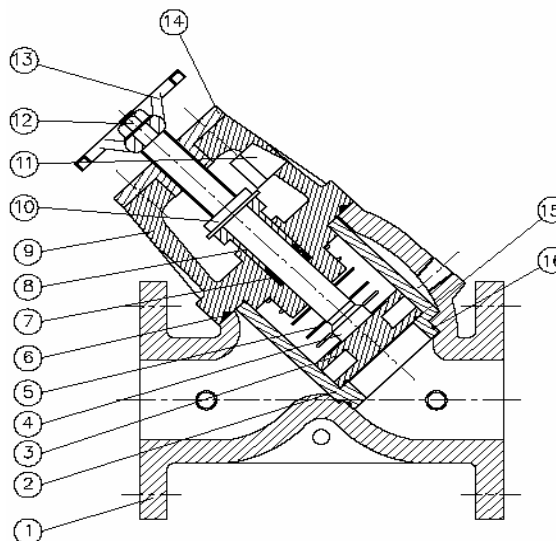


- 4) Check to see that flange gaskets are properly positioned before tightening bolts. Tighten bolts in sequence, crossing to opposites.

START-UP

We suggest you slightly open the valve before starting the pump. Gradually adjust the stem until the proper flow rate is reached.

NO.	PARTS	MATERIAL
1	Body	ASTM A126 Class B
2	Seat Guide	Nickel-plated Ductile Iron
3	Disk	Ductile iron
4	Stem	SS410
5	Spring	SS
6	O ring	NBR
7	Packing	Graphite
8	Packing Gland	Ductile iron
9	Cover	ASTM A126 Class B
10	Indicating nut	AL
11	Indicator	AL
12	Stem nut	Carbon steel
13	Hand wheel	Ductile iron
14	Cap	Ductile iron
15	O ring	NBR
16	O ring	NBR



PACKING REPLACEMENT

Before starting make a note of the position of the stem indicator.

- 1) Open the valve completely so that the stem back-seats against the inside of the yoke cover. Remove the cover (9) and gland (8).
- 2) Remove old packing and clean out packing box.
- 3) Place a set (usually three or four) of the new packing rings around the stem. Be sure to stagger the 45° split in the packing rings into the packing box.
- 4) Replace the gland and cover. DO NOT OVER TIGHTEN or the stem may seize.
- 5) Adjust valve stem indicator to its original position. If there is any leakage around the packing tighten gland until leakage stops. It is very important that the gland be tightened evenly.

Valve Sizes	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"
NPT Plug	1/2" NPT	1/2" NPT	1/2" NPT	1/2" NPT	1/2" NPT	3/4" NPT	3/4" NPT	1" NPT	1" NPT	1" NPT