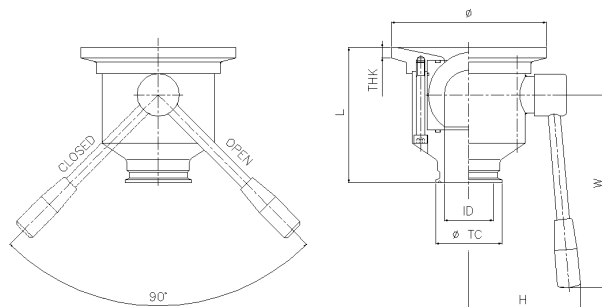




## TBV-BW - TANK BOTTOM BALL VALVE WELDED BODY

The "TB" Series Flush Tank ball valve incorporates all the advantages of a ball valve and is available in different configurations, may be fit at the tank bottom by welding plate or TK-Connection; for special applications on existing reactors, we also manufactures special adaptor plates in order to accommodate customer request. The special design of the welding plate is an integral welded part of the tank surface and preventing stagnation of the media.



### Advantages over conventional Flush Tank

- Higher CV
- Full bore, no pressure drop
- Simple quarter-turn opening
- Ease maintenance operation

### Dimensions

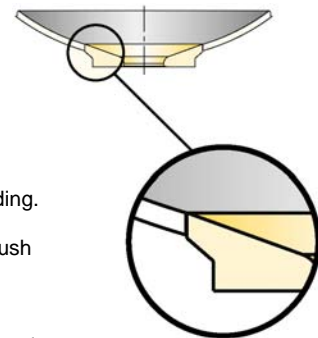
CODE	DN	ØTC	ID	L	H	W	Ø	Thk
TBV-BW 1"-	25	50,4	22,1	95	72	155	100	8
TBV-BW 1"1/2	40	50,4	34,8	120	85	185	100	8
TBV-BW 2"	50	64	47,5	140	95	185	150	10
TBV-BW 2"1/2	65	77,4	60,2	150	100	245	150	10
TBV-BW 3"	80	90	72,9	170	115	245	220	15
TBV-BW 4"	100	118,8	97,6	210	155	370	250	20

on request, different options are available :

the welding plate is available also with bigger radius or different thickness, extended tube for orbital welding, or any special adaptor plates. Pneumatic actuation is available on request

## WELDING INSTRUCTIONS

1. With the valve in its open position, remove body connector screws.
2. Separate the upstream flush tank end and the down stream end.
3. Dispose the used O-rings seals.
4. Place all components removed in clean secure position, clear of welding splatter.
5. Prepare the vessel port at the desired location according to the dimension of the flush tank end. Remember: it is crucial to have maximum adaptation (minimum gap) between the vessel bore and the flush tank end.
6. Fit the flush tank end to the bottom of the reactor, with the internal surface of the vessel in line with the surface of the flush tank end, Tack weld only. (See figure).
7. Protect the sealing surface of the flush tank end from welding splatter and complete welding. Allow enough time for cooling.
8. Flush the tank allowing dirt, welding slag, or any other debris to be flushed through the flush bottom tank end.
9. Replace body seals (replacement package).
10. Lift the complete assembly to engage the flush tank end.
11. Position the screws and turn (2-3 turns) so the complete assembly is connected loosely in place.
12. Tighten the bolts to torque figures, according to tightening patterns.
13. Close the valve and run the process.



Additional information and more at: [sales@cskbio.com](mailto:sales@cskbio.com)  
The specifications or design are subject to change without prior notice.