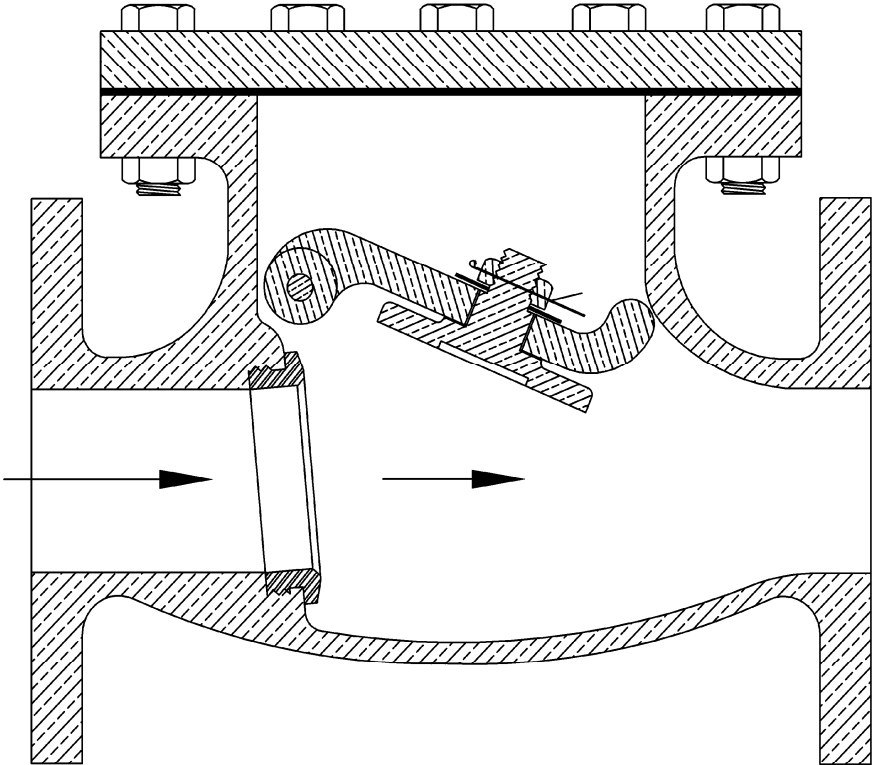


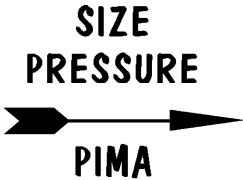
BRONZE CHECK VALVES (150/300 LB)

DESCRIPTION

The 150/300 pound bronze swing-check valves are recommended for water, oil or gas service and can be tailored to the specified service for maximum efficiency. Swing-check valves are used to stop the reversal of flow quickly and automatically. Check valves are one-way valves and, therefore, should be installed with the flow under the disc as well as in such a manner that gravity will help to close the disc.



Check valve body markings are as follows:



TESTING (For Flanged End Valves)

Each check valve that leaves Pima is tested in accordance with BUSHIPS Instruction 9480.40B in conjunction with Manufacturers Standardization Society's Standard Practice (SP-61), as follows:

1. Shell and seat tightness tests shall be hydrostatic, using clean water as the testing medium.
2. Hydrostatic Shell Test - The 150 Lb. valve shall be subjected to 350 PSI (300 Lb. tested at 750 PSI) for a sufficient duration of time to determine the integrity of the pressure boundary area after test pressure has been applied.
3. Hydrostatic Seat Test - The 150 Lb. valve shall be back pressure tested at 50 PSI (300 Lb. tested at 100 PSI) for tightness of seat. Duration of test shall be a sufficient length of time to determine that the seat seal satisfies the acceptance criteria. Should any visible leakage be detected, the test will be continued for a sufficient length of time to accurately determine the rate of leakage. Leakage rate shall not exceed:

Up to 2" size - 25cc per hour/per nominal inch of pipe size.

2-1/2" to 10" size - 50cc per hour/per nominal inch of pipe size.

Over 10" size - 100cc per hour/per nominal inch of pipe size.

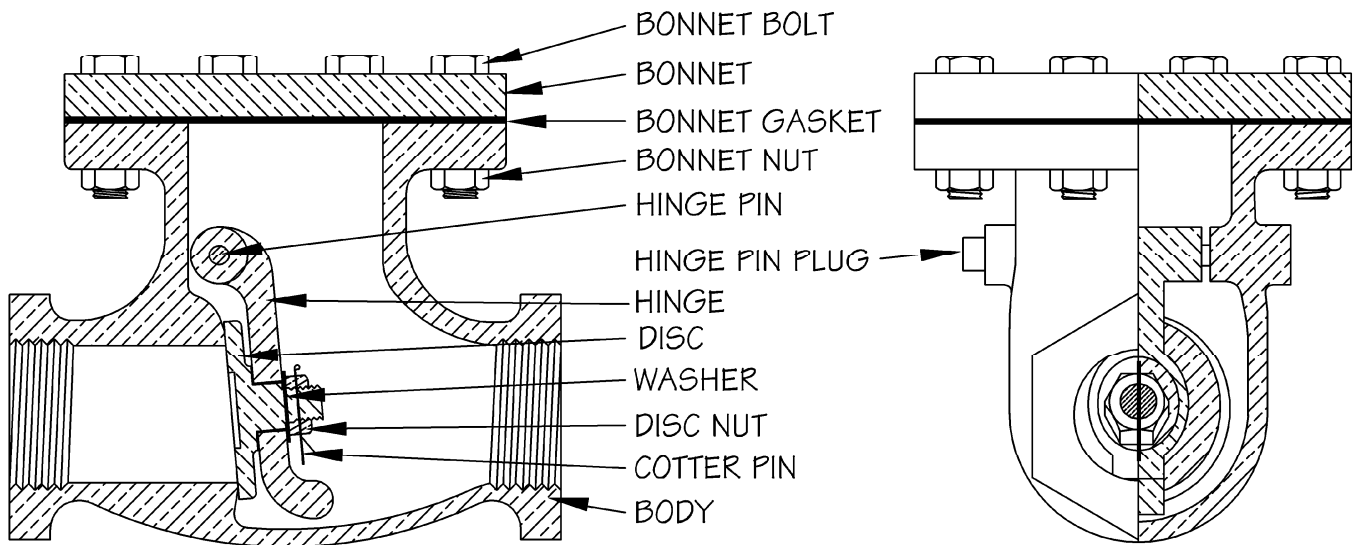
TESTING (For Threaded End Valves)

Each check valve that leaves Pima is tested in accordance with BUSHIPS Instruction 9480.40B in conjunction with Manufacturers Standardization Society's Standard Practice (SP-80), as follows:

1. Shell and seat tightness tests shall be hydrostatic, using clean water as the testing Medium.
2. Hydrostatic Shell Test - The 150 Lb. valve shall be subjected to 450 PSI (300 Lb. tested at 1500 PSI) for a sufficient duration of time to determine the integrity of the pressure boundary area after test pressure has been applied.
3. Hydrostatic Seat Test - The 150 Lb. valve shall be back pressure tested at 50 PSI (300 Lb. tested at 50 & 1000 PSI) for tightness of seat. Duration of test shall be a sufficient length of time to determine that the seat seal satisfies the acceptance criteria. Should any visible leakage be detected, the test will be continued for a sufficient length of time to accurately determine the rate of leakage. Leakage rate shall not exceed 40cc per hour/per nominal inch of pipe size.



BRONZE, SWING CHECK THREADED END



BRONZE, FLANGED SWING CHECK

