

**AWWA C500 Proof of Design Test Certification  
(36" Metal Seated Gate Valve)**

**ITEM TESTED:**

VSI C500 Series Metal Seated Gate Valve - 36 inch size  
Ductile Iron Body & Bonnet  
Ductile Iron Wedge w/ Bronze Wedge and Body Seats  
Bronze Stem & Stem Nut

**PURPOSE:**

To perform the Proof of Design test requirements laid out in American Water Works Association (AWWA) Standard C500, Metal-Seated Gate Valves for Water Supply Service.

**RECORD OF TEST:**

**Operation Test:** The test valve was mounted and cycled through a complete cycle. All parts were free and properly operating.

**Hydrostatic Shell Test:** The test valve was mounted to the test bench with the gate in the open position. The test heads were then mounted to each side of the valve, and a test pressure of 300 psi was applied and held for 30 seconds. There was no sign of leakage through the metal, flange joints or stem seals.

**Hydrostatic Seat Test:** The valve is then cycled closed and then tested from each side individually at 300 psi. There were no signs of leakage through the metal, flange joints or stem seals. The seat leakage was less than 1 on/hr/in.

**CERTIFICATION:**

Based on the above test record, we here by certify that the test valve has successfully met all of the proof of design requirements in AWWA C500 and therefore qualifies similar valves in the Series C500 3 inch through 48 inch product line, with equal or lesser pressure classes to the same standards.

TESTED BY: Robert Wang  
Robert Wang, Valve Solutions, Inc.

DATE: 07/21/1999

CERTIFIED BY: Michael Fan  
Michael Fan, Tianjin Flow Security Valve Co., Ltd.

DATE: 07/21/1999