

AWWA C517, Proof of Design Structural Test of the Plug Certification **(54" Rectangular Ported Eccentric Plug Valve)**

1. ITEM TESTED:

54"-150 PSI Val-Matic Model 5854R Eccentric Plug Valve
Cast Iron Body and Cover, Ductile Iron Plug, Robotically Welded Overlay
Nickel Seat, Buna-N Plug, 316 SS Bearings, Buna-N V-Packing
Mastergear M60 Worm Gear Actuator, Manual Operation
Valve Serial No. M730450, Issued 1/16/17

2. PURPOSE:

To perform the Proof of Design Structural Test of Plug requirements given in American Water Works Association Standard AWWA C517 (Resilient-Seated Cast-Iron Eccentric Plug Valves). Tests were witnessed by Professional Service Industries, Inc., an independent inspection company.

3. RECORD OF TEST:

The subject valve was tested with the "Seat Side" oriented upwards and sealed with ANSI Class 150# steel blind flanges. The valve was tested with 300 PSI (2 x design pressure) applied to the plug in the closed position. The valve was tested in both the direct and reverse directions.

The valve was cycled to verify operation and examined for breakage or permanent deformation. No breakage or permanent deformation was measured in the plug.

4. CERTIFICATION:

Based on the above Test Record, we hereby certify that the subject valve has successfully met the Structural Test of the Plug Proof of Design Requirements given in AWWA C517 and therefore qualifies similar 54" valves of equal or lesser pressure classes to the same standards.

CERTIFIED BY:



1/24/17

DATE: 1-17-17

John Holstrom
Val-Matic Valve & Manufacturing Corp.

54" PLUG VALVE PROOF OF DESIGN CERTIFICATION

DATE 1-16-17

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DRWG. NO.
SS-3711