

Certificate OF COMPLIANCE & TESTING

1"-24" AWWA C504-15 Butterfly Valves

This is to certify that GEMÜ Butterfly Valves Victoria Type R480/R481/R487/R488 in sizes 1"-24" comply with all applicable provisions of the AWWA C-504-15 including all test requirements.

The GEMÜ Butterfly Valves are coated in accordance to AWWA C-504-15.

Dimension and drilling of flanged end connections (Connection Code D) conform to Class ANSI Class 150 and according to ASME/ANSI B16.1, Cast Iron Pipe flanges and Flanged Fittings.

Seat material (Liner Code W) volume increase is less than 2 % after immersion in distilled water for 70 hours. The Test is in accordance with ASTM D471, Standard Test Method for Rubber Property – Effect of Liquids.

This EPDM with code W is ozone resistant due to their chemical structure.

Materials conform to standards as listed in the materials of construction.

Ductile Iron Cast Body, Epoxy Powder coated.

Stainless steel disc

EPDM Liner

Shell Test:

The test valve was mounted to the test heads with the valve in the open position. A minimum test pressure of 24 bar (348 PSI) was applied to the butterfly valve for a duration of 60 seconds. There were no visible signs of leakage through the metal, end joints or shaft seal and there were no signs of physical deformation.

Pressurized Seat Test:

The test valve was mounted to the test heads fully closed. A test pressure of 17.5 bar (263.8 PSI) was applied to the disc and checked for any signs of leakage. The valve was proven bubble tight.

Life Cycle Test:

The Butterfly valve was automated with a pneumatic actuator. The valve was then cycled 10,000 times with full operating pressure and water filled from one direction. The running of the test occurred across 12 days. Upon completing the test cycle, the valve was then seat tested in both directions and found to still be bubble tight. The valve was then disassembled and checked for any significant signs of wear. None were reported.

Certification:

Based on the above mentioned test protocol we certify that the test valve has successfully fulfilled all design requirements of AWWA C504-15. And therefore, qualifies all R480, R481, R487 and R488 valves of this series.

Tested by GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG

per pro. Joachim Brien
Head of Global Technics
Ingelfingen 05-03-2018

This document is valid without signature.