



CERTIFICATE OF COMPLIANCE
Material and Production Test Certification
Mueller 30"-54" USP1 Resilient Wedge Gate Valves

Date: October 3, 2018

WE HEREBY CERTIFY that MUELLER CO. 30"-54" AUP1 Series RWGV's are manufactured and tested at the Mueller ISO 9001 registered facility in Chattanooga, TN, or Calera, AL. Mueller certifies these valves are certified to ANSI/NSF 61 & 372 and meet the requirements of AWWA C515 and C550. Production testing is performed in accordance with these standards and meets the following specifications.

Size	Model No.	AWWA (psi)	Hydro Seat Test (psi)	Hydro Shell Test (psi)
30"-54"	A2361	250	275	500

Mueller certifies that the valve body, bonnet and wedge are manufactured in a Mueller foundry in Albertville, AL, Calera, AL or Chattanooga, TN per Mueller QA procedures; each heat is tested and certified to be within the specification shown in the chart below under a controlled program and in accordance with ASTM A536 Ductile Iron.

Ductile Iron: ASTM A536										
CHEMICAL COMPOSITION										
Element	C	Si	Mn	S	Cu	P	Cr	Ti	Pb	Mo
Minimum	3.900	2.500	0.370	-----	0.140	-----	-----	-----	-----	-----
Maximum	3.950	2.800	0.420	0.022	0.180	0.050	0.080	0.015	0.005	-----

Mueller certifies that manganese bronze stems are manufactured under a controlled program and are in accordance with ASTM B584.

Manganese: ASTM B584; Alloy C86400											
CHEMICAL COMPOSITION								MECHANICAL PROPERTIES			
Element	Cu	Al	Fe	Pb	Mn	Sn	Zn	Specification	Tensile Strength	Yield Strength	Elongation
Minimum	56.00	0.50	0.40	0.50	0.10	0.50	34.00	Minimum	60,000	20,000	15.00%
Maximum	62.00	1.50	2.00	1.50	1.50	1.50	42.00	Maximum	-----	-----	-----



Mueller certifies that valves wedges are encapsulated with EPDM rubber manufactured under a controlled program and is in accordance with Mueller Rubber Specification R-97.

EPDM (Mueller Rubber Specification R-97); ASTM D2000				
Specification	Durometer	Tensile	Elongation	Compression Set
Minimum	69	2,000	200%	0.00
Maximum	79	----	----	18.00

Mueller certifies that components for AUSP1 RWGV's are manufactured in accordance with Mueller Co. QA procedures which include but are not limited to relevant dimensional, visual, and functional inspection and verification.

Respectfully,



Anton Nasledov
Product Manager - Water Products Division
Mueller Company
1401 Mueller Avenue, Chattanooga, TN 37406
Email: anasledov@muellercompany.com
Website: www.muellercompany.com