

<u>CERTIFICATE OF COMPLIANCE</u> Material and Production Test Certification Mueller 2-12" USP2 Resilient Wedge Gate Valves

Date:

October 3, 2018

WE HEREBY CERTIFY that MUELLER CO. 2-12" AUSP2 Series RWGV's are manufactured and tested at the Mueller ISO 9001 registered facility in Chattanooga, TN, USA. Mueller certifies these valves are UL 262 Listed, FM 1120/1130 Approved, are certified to ANSI/NSF 61 & 372 and meet the requirements of AWWA C509. Production testing is performed in accordance with these standards and meets the following specifications.

Size	Model No.	AWWA (psi)	UL (psi)	FM (psi)	Hydro Seat Test (psi)	Hydro Shell Test (psi)
2″	AUSP2	350	NA**	350	525	700
2.5"-12"	AUSP2	350	350	350	525	700

* NOTE: FM only approves Open Left valves.

** NTOE: UL does note approve 2" NRS valves

Mueller certifies that the valve body, bonnet and wedge are manufactured in a Mueller foundry in Albertville, 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	С	Si	Mn	S	Cu	Р	Cr	Ti	Pb	Мо
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 B138.

Manganese Bronze ASTM B138; Alloy C67600 (H02)									
Chemical Composition							Mechanical Properties		
Element	Cu	Fe	Pb	Mn	Sn	Zn	Tensile	Yield	Elongation
Minimum	57.00	0.40	0.50	0.05	0.50	Remainder	70,000	35,000	15.00%
Maximum	60.00	1.30	1.00	0.50	1.50	Remainder			

Mueller certifies that valves wedges are encapsulated with SBR rubber manufactured under a controlled program and is in accordance with Mueller Rubber Specification R-88.

SBR (Mueller Rubber Specification R-88); ASTM D2000								
Specification	Durometer	Tensile	Elongation	Compression Set				
Minimum	73	2,000	200%	0.00				
Maximum	83			18.00				

Mueller certifies the coating supplied with these valves is Mueller[®] Pro-Gard[™] Epoxy Coating, an exceptional fusion bonded epoxy electrostatically applied to valve internal and external surfaces to protect against corrosion. This coating is Sienna red in color, non-toxic and suitable for use with drinking water components. Mueller valves with Pro-Gard are certified to NSF 61 and meet or exceed AWWA C550 requirements. Valves have a standard coating of ten mils nominal thickness.

Mueller certifies that components for AUSP2 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,

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