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CERTIFICATE OF COMPLIANCE
Material and Production Test Certification
Mueller 3"-12" R2361 OS&Y Valves

Date: 4/26/2021

WE HEREBY CERTIFY that MUELLER CO. 3"-12" R2361 OS&Y valves 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 and are certified to ANSI/NSF 61 & 372 and meet the requirements of AWWA C515. Production testing is performed in accordance with these standards and meets the following specifications.

Size	Model No.	AWWA C515 (psi)	UL 262 (psi)	FM 1120/1130 (psi)	Hydro Seat Test (psi)	Hydro Shell Test (psi)
3"-12"	R2361	350	350	350	525	700

- : FM only approves Open Left valves.

Mueller certifies that valve body, bonnet, yoke and wedge are manufactured per Mueller QA procedures; each heat is tested and certified to be within the specification shown in the chart 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 R2361 valves feature manganese bronze stems manufactured under a controlled program and are in accordance with the following alloys.

ASTM B138; Alloy C67600									
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 R2361 2"-12" valves feature SBR encapsulated wedges. Wedges are manufactured under a controlled program and are in accordance with the following elastomer specifications.

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 & 372 and meet or exceed AWWA C550 requirements. Valves have a standard coating of ten mils nominal thickness.

Mueller certifies that components for R2361 OS&Y valves 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,

Matthew Littell

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