

CERTIFICATE OF COMPLIANCE
Material and Production Test Certification
Mueller 30"-54" 2361 Resilient Wedge Gate Valves

WE HEREBY CERTIFY that MUELLER CO. 30"-54" A2361 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 A2361 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
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