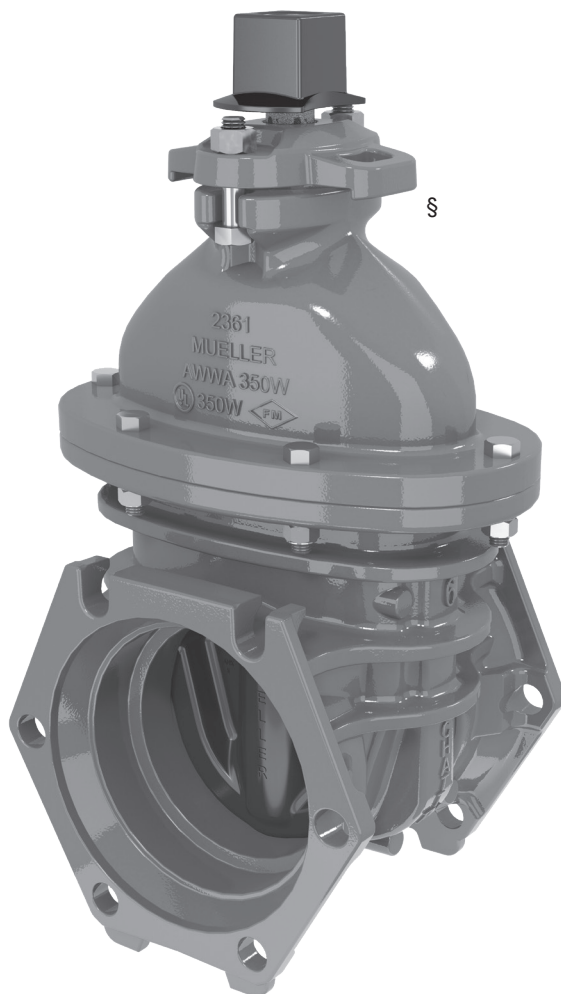


### Mueller 2300 Series Resilient Wedge Gate Valves

Mueller Resilient Wedge Gate Valves have features to make them easier to operate, preserve sealing capability, and interior coating integrity for many years of reliable service. In addition to popular end connection options, Mueller brand RW valves can be ordered with Mueller's exclusive AquaGrip® System that incorporates an o-ring sealed compression connection and integral pipe restraint in one "ready to use" easy and quick to install package.

### Mueller 2"-12" 2300 Series Resilient Wedge Gate Valve Features



6" shown

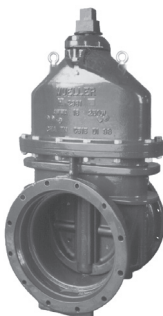
- ❑ **350 PSIG (2400 kPa/24 barg) Maximum Working Pressure** – Hydrostatically tested at 700 psig (4800 kPa/48 barg).
- ❑ **Dual-Purpose Lifting Lugs** – new dual-purpose lifting lugs provide stability for the valve box. Accommodates strap or hooks; provides valve box alignment, eliminating need for valve box adapter.+
- ❑ **American Made Quality** – factory in Chattanooga, TN with ISO 9001 certification. Certified to ANSI/NSF 61 & 372. Manufactured and tested in compliance with ANSI/AWWA Standard C515 or C509. UL 262 Listed and FM 1120/1130 Approved.
- ❑ **Ductile Iron Construction** - Valve body, bonnet, disc, stuffing box, & op nut.
- ❑ **T-Head Bolt Retention** – improved T-head bolt retention feature eliminates need for anti-rotation bolts.
- ❑ **Triple O-ring Seals** – two above thrust collar and one below, retain lubricant in this critical area. Top two are replaceable with valve fully open and under pressure. Fourth O-ring serves as dirt seal.
- ❑ **Two-Anti-Friction Washers With Lubrication** – made of polymer, one above and one below the thrust collar, reduce operating torque to open or close valve.
- ❑ **STEM** – forged manganese bronze bar stock is upset, then machined to form a thrust collar for superior strength in this critical area.
- ❑ **Guide Cap Bearings** – made of polymer and snapped over rubber covered wedge guides, provide bearing surfaces that protect both wedge and interior body coating from wear and aid in easy operation – even the largest valves installed horizontally. Rollers, tracks and scrapers are not needed.
- ❑ **Smooth, Oversized Water Way** – full, round, unobstructed flow way accommodates full size cutters, provides superior flow characteristics and reduces pumping costs.\*\*
- ❑ **Mueller Pro-Guard® Fusion Bonded Epoxy Coating** – 10 mils\* thick protects all inside and outside iron surfaces, and complies with AWWA C550.
- ❑ **316 Stainless Steel Fasteners**
- ❑ **Integral Legs** – stands upright for easier handling and storage.
- ❑ **10-Year Limited Warranty** – assured reliability (see separate Mueller Warranty document for terms).
- ❑ **Designed For Potable Water Applications**

\*Nominal

\*\*16" valve requires 1/2" undersized cutter, 54" valve requires 48" cutter

### Mueller 14" – 54" 2361 Series Resilient Wedge Gate Valve Features

In addition to all the features of the smaller 2361 series valves, large size Mueller 2361 series RW valves offer these features:



- ❑ **Stem** – 18"-54" manganese bronze casting with integral thrust collar.

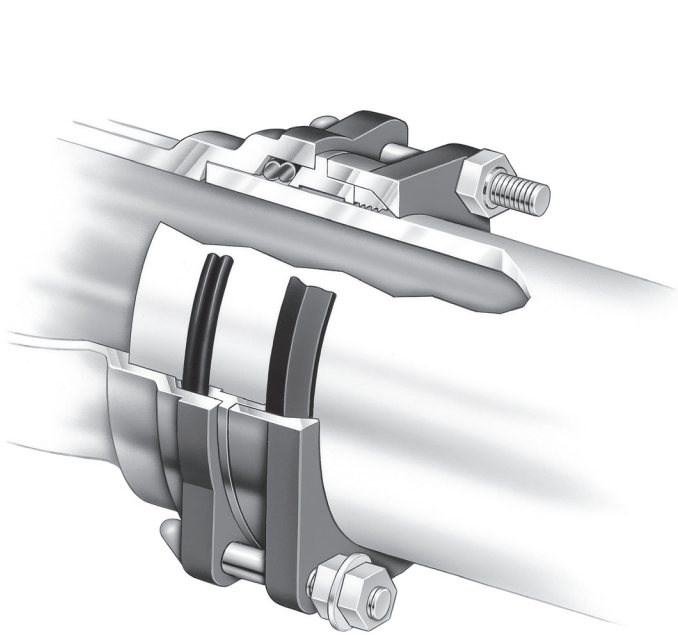
SIZE	AWWA C515 WORKING PRESSURE	UL WORKING PRESSURE	FM WORKING PRESSURE
14"-16"	250	250	250
18"-24"	250	175 *	250
30"-54"	250	-	-

\* UL Listed without gearing  
- Certified to NSF 61 & 372

Rev. 7-17 Shaded area indicates changes

**Mueller 2361 Series Resilient Wedge Gate Valves with AquaGrip® System**

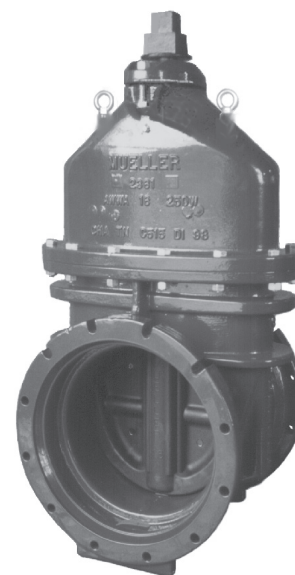
The Mueller AquaGrip System is offered in 4" through 12" sizes of the Mueller 2361 Series Resilient Wedge Gate Valves. This Mueller exclusive combines both the compression connection and the pipe restraint system in one convenient, quick installation package. This eliminates the need for anchor couplings, tie rods or separate gland-type restrains. A typical AquaGrip connection uses fewer bolts than a conventional mechanical joint end, and substantially fewer than a gland-type restraint, significantly reducing installation time. This "labor saving" system is also available on Mueller Centurion® Fire Hydrants, and as separate couplings and fittings to compliment water main installation needs.



- ❑ **Accepts Varied Types Of Pipe** – DIPS style fits DI, C900 PVC and DIPS PE pipe. IPS style fits PVC, IPS PE. No disassembly or adapters, no special pipe end preparation, a liner for PE pipe(DR9-DR17) is recommended.
- ❑ **Fully Assembled Stab Connection** – arrives ready to insert the pipe, tighten the bolts and it's done. No need to change-out, add or remove parts. Nothing additional to inventory or handle in the field. No extra bolts to assemble or tighten. Substantially reduces labor and inventory costs.
- ❑ **Visually Shows When Properly Tightened** – breakaway nuts snap off using a standard wrench. No special torque requirements. Inner nut remains in place to allow future access to connection, if required. Reduces crew training and saves installation time. (In illustration, lower nut shown before tightening, upper one after.)
- ❑ **Certified To ANSI/NSF 61 & 372** – manufactured and tested in compliance with ANSI/AWWA C515. UL 262 Listed and FM 1120/1130 approved.
- ❑ **Pressure Responsive O-ring Seal** – a double O-ring uses hydrostatic pressure from inside the pipe to enhance the seal as line pressure increases.
- ❑ **Full Circumferential Restraint** – gripper ring encircles pipe for uniform grip without creating points of high stress in pipe wall that could contribute to pipe failure.
- ❑ **Installs In Wet Conditions** – no special field conditions required, even installs under water.
- ❑ **Ductile Iron Construction** – valve body, bonnet and the AquaGrip System components.
- ❑ **Plus All Of The Other Features Of The 2300 Series**
- ❑ **250 PSIG Maximum Working Pressure (triple listed)**

Rev. 7-17 Shaded area indicates changes

- ☐ Catalog number  
**A-2361-20** Mechanical joint ends (with accessories unassembled)  
**A-2361-23** Mechanical joint ends (less accessories)
- ☐ Sizes – 14", 16", 18", 20", 24", 30", 36", 42", 48"
- ☐ Meets or exceeds all applicable requirements of ANSI/AWWA C515 Standard, UL 262 Listed, FM 1120/1130 Approved, and certified to ANSI/NSF 61 & 372
- ☐ Mechanical joint ends comply with ANSI/AWWA C111 Standard.
- ☐ Ductile Iron body and bonnet with nominal 10 mils Mueller Pro-Gard® Fusion Bonded Epoxy Coated interior and exterior surfaces; 42" and 48" valves coated with Mueller HP Epoxy
- ☐ Epoxy coating meets or exceeds all applicable requirements of ANSI/AWWA C550 Standard
- ☐ Ductile Iron wedge, symmetrical and fully encapsulated with molded rubber; no exposed iron.
- ☐ Non-rising stem (NRS)
- ☐ Triple O-ring seal (2 above the thrust collar and 1 below)
- ☐ 2" square wrench nut - open left or open right (30" - 48" require a Spur Gear or Bevel Gear)
- ☐ 250 psig (1725 kPa/17 barg) maximum working pressure; 500 psig (3450 kPa/35 barg) static test pressure
- ☐ 14" and 16" sizes – UL Listed, FM Approved: 250 psig (1725 kPa/17 barg)
- ☐ 18", 20" and 24" sizes – UL Listed: 175 psig (1200 kPa/12 barg); FM Approved 250 psig (1725 kPa/17 barg)
- ☐ Designed for potable water applications

**A-2361-23 shown**

## Options

See page 10.54 for more information on Resilient Wedge Gate Valve options

- ☐ Position indicators
- ☐ Low zinc, silicon bronze ASTM B98-C66100/H02 stem: 14"-16", ASTM B763-C99500: 18"-48"
- ☐ Bypass 16" - 48" (2" on 16"-20"; 2.5" on 24"; 3" on 30"-36"; 4" on 42"-48")
- ☐ EPDM Disc and o-rings, 14"-16" optional, 18"-48" standard
- ☐ Handwheel
- ☐ Stainless Steel Stem Type 304, Type 316
- ☐ Spur or bevel geared actuator

## Resilient wedge gate valve parts

Catalog Part Number	Description	Material	Material Standard
G-16	Bonnet Bolts & Nuts	316 Stainless steel	ASTM F593 (bolt) ASTM F594 (nut)
G-41	Stuffing Box Bolts & Nuts	316 Stainless steel	ASTM F593 (bolt) ASTM F594 (nut)
G-49	Stem O-rings (3)†	Nitrile	ASTM D2000
G-200	Wrench Nut Cap Screw	316 Stainless steel	ASTM F593
G-201	Stuffing Box O-ring†	Nitrile	ASTM D2000
G-202	Wrench Nut	Cast Iron+	ASTM A126 CL.B
G-203	Stem	Bronze	ASTM B138**
G-204	Hand Wheel (not shown)	Cast Iron+	ASTM A126 CL.B
G-205	Stem Nut	Bronze	ASTM B62
G-206	Guide Cap Bearings	Acetal	-
G-207	Stuffing Box	Ductile Iron++	ASTM A536 ▼
G-208	Anti-friction Washers (2)	Acetal	-
G-209	Wedge, Rubber Encapsulation	Ductile Iron* SBR†	ASTM A536 ▼ ASTM D2000
G-210	Bonnet	Ductile Iron	ASTM A536 ▼
G-211	Bonnet O-ring †	Nitrile	ASTM D2000
G-212	Body	Ductile Iron	ASTM A536 ▼

\* Fully encapsulated in molded rubber with no iron exposed

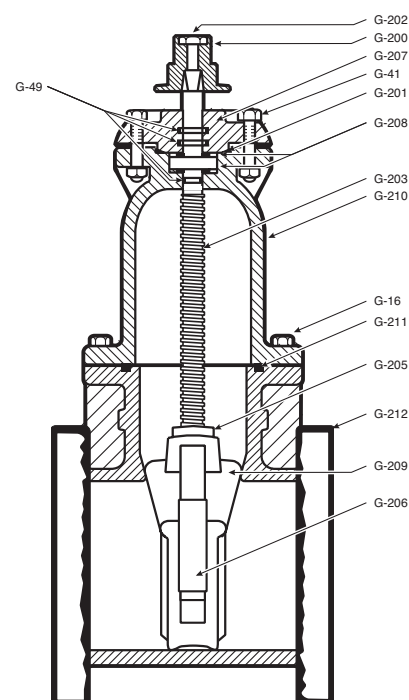
\*\*18" - 48" ASTM B584

†18" - 48" EPDM standard

++30"-48" are hot rolled steel ASTM A36

+ Manufacturers option to change material to Ductile iron ASTM A536

▼ Material strength ASTM A536 65-45 minimum

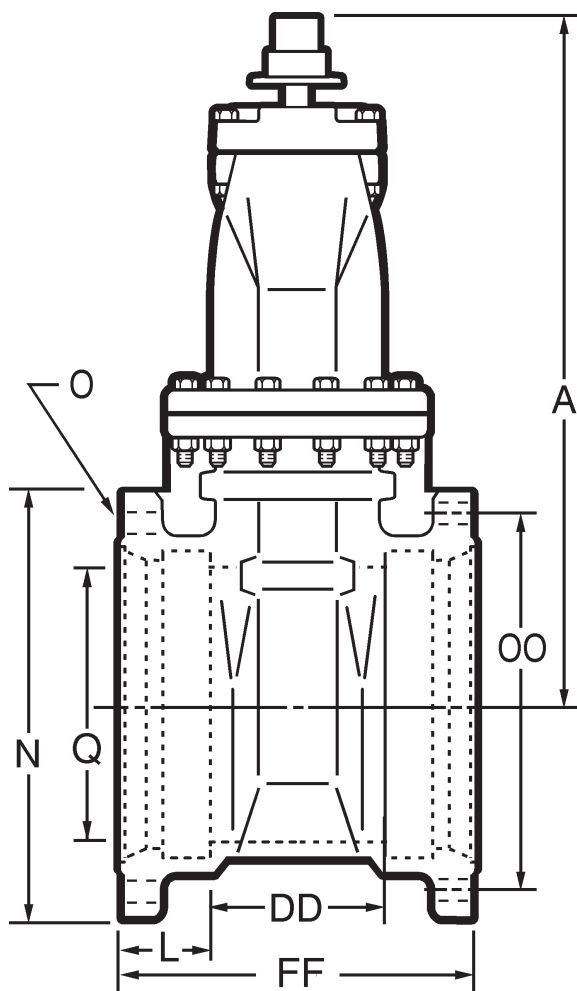


# 14"- 48" A-2361 D.I. RESILIENT WEDGE GATE VALVES - M.J. x M.J.



# 10.19

Shaded area indicates change Rev. 4-14



## Dimensions

Dimension	Nominal Size								
	14"	16"	18"	20"	24"	30"†	36"†	42"†	48"†
A	32.75	37.88	44.19	48.25	53.88	See A for Spur or Bevel Gear			
L	3.50	3.50	3.50	3.50	3.50	4.00	4.00	4.00	4.00
N	20.62	22.56	24.88	27.01	31.88	39.53	46.41	53.53	60.41
O (number and size of holes for MJ)	10--.88	12--.88	12--.88	14--.88	16--.88	20--1.125	24--1.125	28--1.38	32--1.38
Q (bore)	14.38	16.00	18.38	20.38	24.38	30.38	36.38	42.38	48.38
OO (bolt circle diameter for MJ)	18.75	21.00	23.25	25.50	30.00	36.88	43.75	50.62	57.50
R	21.00	23.50	25.00	27.50	32.00	38.75	46.00	53.00	59.50
UU (bolt circle diameter)	18.75	21.25	22.75	25.00	29.50	36.00	42.75	49.50	56.00
FF	19.75	19.75	21.00	21.50	23.50	33.50	37.50	42.37	44.72
B (number and size of holes for FL)	12--1.12	16--1.12	16--1.12	20--1.25	20--1.38	28--1.38	32--1.63	36--1.63	44--1.63
A - Spur Gear	40.49	43.58	49.41	53.01	59.15	70.81	83.08	97.74	109.70
A - Bevel Gear**	34.55	37.77	44.50	47.69	54.06	64.93	77.19	90.75	102.61
DD	12.36	12.55	13.90	14.13	16.06	25.56	29.34	34.58	36.80
Turns to open (without gearing)	43.5	49	57	63	75	-	-	-	-
Turns to open (Spur gearing)	178	201	234	258	308	381	455	524	596
Turns to open (Bevel gearing)	174††	196††	228††	252††	300††	372††	444††	524††	596††
Weight*	695	846	1274	1820	2438	6523	8400	13300	19700

\*All dimensions are in inches. All weights are in pounds and are approximate. Weights for 30"-48" valves are with gearing; for all others without gearing.

\*\*Center line of operating nut to center line of valve.

†Spur or Bevel Gear must be used with 30", 36", 42", 48" valves.

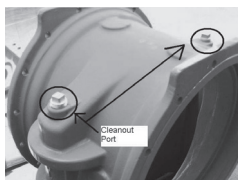
††Turns shown for Bevel gearing. Valves with Bevel gearing: All Sizes - 4:1 ratio.

Rev. 2-18 Shaded area indicates changes

### Resilient Wedge Options

#### Clean out Port Option on 16"-54" RWGV

Cleanout port option is available for 16"- 54" resilient wedge gate valves. 16" valves would utilize a 1" port, 18"-24" a 1-1/2" port, while 30"-54" valves utilize a 2" port. Please refer to option 202 (ex. 240A236106LN202) when ordering.



### Resilient Wedge and Double-Disc Gate Valve Options

#### Needle and Slot (Universal) Position Indicator

Can be furnished on 4" and larger non-rising stem valves with or without gearing. Mechanism is fully enclosed and uses a moving pointer on a scale to show relative position of valve gate.

### N.R.S. Bypass

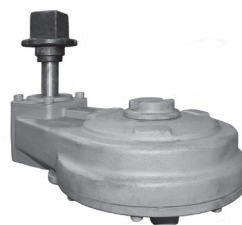
Bypass valves are AWWA non-rising stem type. On resilient wedge valves, the bypass valve is also the RW type. On double-disc valves, it is the DD type. Bevel geared or horizontally installed valves have the bypass mounted on the bottom end of the valve. Spur geared or vertically installed valves have the bypass mounted on the disc of the valve body.



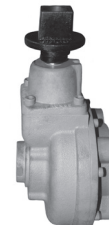
Available on 16"-54" Gate Valves Only.

Valve size/type	Bypass valve size
16" RW, FLxFL, MJxMJ, FLxMJ, end types only	2"
18"-20" RW	2"
24" RW	2-1/2"
30", 36" RW	3"
42"-54" RW	4"
16"-20" DD	3"
24", 30" DD	4"
36"	6"

### Gearing



Spur Gearing



Bevel Gearing

Non-rising stem gate valves 4" and larger can be furnished with bevel or spur gearing. Gearing is recommended for all resilient wedge gate valves 30" and larger, and for all double-disc gate valves 24" and larger. Gearing provides an additional bearing to support the extreme end of the valve stem. All gears have machine cut teeth. Bevel geared valves are for horizontal installation and spur geared valves for vertical. Styles shown are typical – actual appearance may vary.

### 2" Square Wrench Nut or Handwheel

The 2" square wrench nut is standard on all N.R.S. resilient wedge and double-disc gate valves except flange x flange and thread x thread valves, which have a handwheel as standard. The wrench nut and handwheel are optional alternatives to these standard features.

### How to order

Accessories are ordered by adding a suffix number to the basic gate valve catalog number. See chart below for accessory suffix numbers.

#### Catalog number for options\*

Catalog number suffix		Description	Valve size
Without indicator	With indicator		
02	102	Bevel gearing	4" and larger
03	103	Spur gearing	4" and larger
06	106	Bevel gearing and bypass	16"-54"
07	107	Spur gearing and bypass	16"-54"
09	-	Bypass only	16"-24"
-	108	Position indicator only	4"-24"

\*Fasteners, coatings, operators and other options not included in this chart are ordered by including them in the valve specification notations.

# GATE VALVE ORDERING INSTRUCTIONS



# 10.59

Shaded area indicates change Rev. 2-17

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## To order Gate Valves specify:

### Quantity

If more than one size, specify quantity of each

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### Size

Nominal size of valve

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### Catalog number

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### Special catalog number suffix

See chart at bottom of page 10.54 if gearing, grease cases, bypass valves or position indicators are required. The appropriate suffix number is added to the base catalog number.

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### Direction of opening

Specify open left (counter-clockwise) or open right (clockwise). Wrench nuts on valves that open to the right are painted red for identification purposes.

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### Method of operation

N.R.S. valves are available with either a 2" square wrench nut or a handwheel. Handwheels are standard on flanged x flanged and thread x thread valves; all other NRS\* valves have a 2" square wrench nut as standard. Outside screw and yoke type valves are available with handwheel only. When ordering NRS valves, specify wrench nut or handwheel.

\* 30"-54" resilient wedge and double-disc gate valves must be ordered with actuator.

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### Special Requirements

Contact Mueller Customer Service Center with special requirements such as special paints or coatings, low zinc bronze stems, stainless steel fasteners etc.

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### Gate Valve Repair Parts

To order repair parts specify size of valve, direction of opening, year date on body, part number, catalog number of valve if known, and type of ends if ordering body.

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