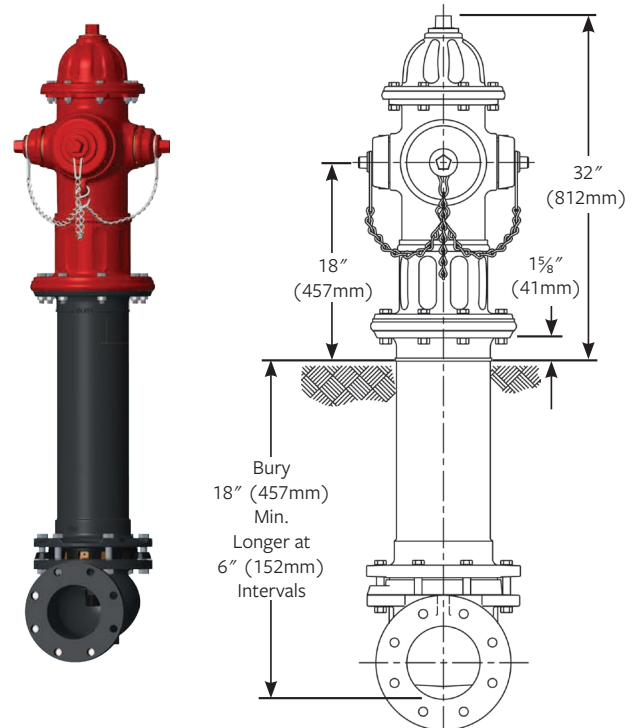


MUELLER

SUPER CENTURION® FIRE HYDRANT

PRODUCT FEATURES

- 2-way, 3-way, and 4-way Hydrant: maximum working pressure 350psig/24barg (2400kPa); test pressures 700psig/48barg (4800kPa).
- UL Listed and FM Approved (CE marked to EN14384 available).
- Meets or exceeds all applicable requirements of ANSI/AWWA C502 and certified to ANSI/NSF 61/372.
- O-ring sealed Bonnet, Ground, and Shoe Flange – better leak resistance, easier maintenance.
- O-ring sealed Oil Reservoir with Filler Plug – permits easy check of oil level and refill without removing Bonnet; filled at factory.
- Operating mechanism lubrication – automatic lubrication of Stem threads and bearing surfaces each time Hydrant is operated.
- Stem - E-Coated for Corrosion Resistance.
- Full flow performance – large radius Hose and Pumper openings and conical Upper Valve Plate reduce turbulence and provide low friction loss.
- Field replaceable, O-ring sealed Hose and Pumper Nozzles – threaded in place and retained by Stainless Steel locks. NST or BSP Nozzle threads available. Integral Storz connector also available
- to order.O-ring sealed Bronze Seat Ring – Resists corrosion and easily removed for maintenance through top of Hydrant.
- Traffic Flange and Stainless Steel Stem Coupling – if Hydrant is struck, Flange and Coupling break free preventing damage to Stem and Main Valve, and uncontrolled Water flow – Coupling will not break into pieces that could drop down and affect Valve operation. Reusable Clip is easy to use. Repair is simple and economical.
- Double Bronze Drains – each time main Valve opens or closes, drain Valves force-flush drain openings to keep them open for barrel drainage.
- Inlet Connections: 6"/DN150 Flanged ANSI B16.1 Class 125 Flat Face (optional PN10, PN16 drilling). Mechanical Joint and other Inlet Connections available.



Super Centurion Fire Hydrants

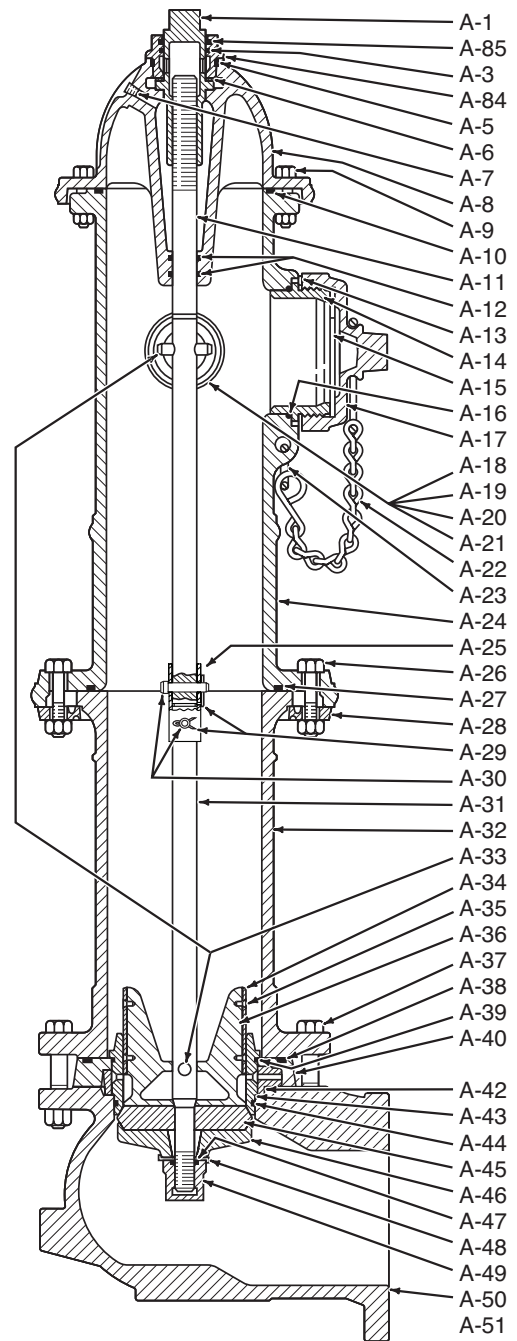
Pressure Rating		Main Valve		Nozzles		Listings	
250psig	350psig	4½"	5¼"	Pumper	Hose	UL	FM
A421	A421HP	●		1	2	●	●
A423	A423HP		●	1	2	●	●
A424	A424HP	●		1	0		●
A425	A425HP		●	2	0	●	
A433	A433HP	●		0	2	●	●
A435	A435HP		●	0	2	●	●
A454	A454HP		●	0	3	●	*
A455	A455HP		●	0	4	●	*
A458	A458HP		●	1	3	●	*
A459	A459HP		●	2	2	●	
A461	A461HP	●		1	2	●	●
A473	A473HP		●	1	2	●	●
A477	A477HP		●	1	0		



*For models with 3 or 4 Hose Nozzles, FM requires Hose Gate Valves (175psig/12barg WP)

PARTS LIST

ID	PART NAME	MATERIAL
A-1	Operating Nut	Bronze ASTM B62
A-3	Hold Down Nut O-ring	Rubber ASTM D2000 - BUNA N
A-5	Bonnet O-Ring	Rubber ASTM D2000 - BUNA N
A-6	Anti-friction Washer	Acetal
A-7	Oil Plug	Brass ASTM B16
A-8	Bonnet	Cast Iron ASTM A126 CL.B
A-9	Bonnet Bolt and Nut	Steel SAE J429/J995
A-10	Bonnet O-ring	Rubber ASTM D2000 BUNA N
A-11	Upper Stem	Steel ASTM A576
A-12	Stem O-Ring	Rubber ASTM D2000 - BUNA N
A-13	Nozzle Lock	Stainless Steel ASTM A276
A-14	Pumper Nozzle	Brass ASTM B584
A-15	Pumper Nozzle Cap Gasket	Rubber ASTM D2000 Neoprene
A-16	Pumper Nozzle O-Ring	Rubber ASTM D2000 BUNA N
A-17	Pumper Nozzle Cap	Cast Iron ASTM A126 CL.B
A-18	Hose Nozzle	Brass ASTM B584
A-19	Hose Nozzle Cap Gasket	Rubber ASTM D2000 Neoprene
A-20	Hose Nozzle O-Ring	Rubber ASTM D2000 BUNA N
A-21	Hose Nozzle Cap	Cast Iron ASTM A126 CL.B
A-22	Cap Chain	Steel Plated
A-23	Chain Hook	Steel Plated
A-24	Upper Barrel Minus Nozzles	Cast Iron ASTM A126 CL.B
A-25	Stem Coupling	Stainless Steel ASTM A890
A-26	Traffic Flange Bolt & Nut	Steel SAE J429/J995
A-27	Traffic Flange O-Ring	Rubber ASTM D2000 BUNA N
A-28	Traffic Flange	Cast Iron ASTM A126 CL.B
A-29	Reusable Clip	Stainless Steel 18-8
A-30	Clevis Pin	Stainless Steel ASTM A276
A-31	Lower Stem	Steel ASTM A576
A-32	Lower Barrel	Cast Iron ASTM A126 CL.B
A-33	Stem Pin	Stainless Steel ASTM A276
A-34	Drain Valve Facing	Plastic
A-35	Drain Valve Screw	Stainless Steel ASTM A276
A-36	Upper Valve Plate	Brass ASTM B584
A-37	Shoe Bolt & Nut	Steel SAE J429/J995
A-38	Drain Ring Housing O-Ring	Rubber ASTM D2000 BUNA N
A-39	Seat Ring Top O-ring	Rubber ASTM D2000 BUNA N
A-40	Drain Ring Housing	Cast Iron ASTM A126 CL.B
A-42	Drain Ring	Bronze ASTM B62
A-43	Seat Ring	Brass ASTM B584
A-44	Seat Ring Bottom O-ring	Rubber ASTM D2000 BUNA N
A-45	Reversible Encapsulated Main Valve*	Iron Encapsulated Rubber ASTM D2000 BUNA N
A-46	Lower Valve Plate	Cast Iron ASTM A126 CL.B
A-47	Nut Seal	Rubber
A-48	Lock Washer	Stainless Steel ASTM A276
A-49	Lower Valve Plate Nut	Cast Iron ASTM A126 CL.B
A-50	Shoe	Ductile Iron ASTM A536
A-84	Hold Down Nut	Bronze ASTM B62
A-85	Weather Seal	Rubber ASTM D2000 EPDM
A-86	Bury Tag	Stainless Steel ASTM A240
A-51	10.5 ounce Hydrant Lubricating Oil	



* Pre-1997 models may be upgraded to use the reversible main valve by also replacing the lower valve plate with the 1997 model.

For more information about us, or to view our full line of products, please visit www.mueller-international.com or call International Customer Service at:

UK: +44.1438.487410 Dubai: +971.4.214.6640 Singapore: +65.6816.3088 USA: +1.800.423.1323 | International@muellerwp.com

Mueller refers to one or more of Mueller Water Products, Inc., a Delaware corporation ("MWP"), and its subsidiaries. MWP and each of its subsidiaries are legally separate and independent entities when providing products and services. MWP does not provide products or services to third parties. MWP and each of its subsidiaries are liable only for their own acts and omissions and not those of each other. MWP brands include Mueller®, Echologics®, Hydro Gate®, Hydro-Guard®, Jones®, Krausz®, MiNet®, Milliken®, Pratt®, Pratt Industrial®, Singer®, and U.S. Pipe Valve & Hydrant. Please see muellerwp.com/brands to learn more.

© 2020 Mueller Water Products, Inc. All Rights Reserved. The trademarks, logos and service marks displayed in this document are the property of Mueller Water Products, Inc., its affiliates or other third parties. Products above marked with a section symbol (§) are subject to patents or patent applications. For details visit www.mwppat.com.

F 12921 4/20

MUELLER

MUELLER

SUPER CENTURION[®] HYDRANTS

Designed For Efficient Flow and Outstanding, Long-Term Reliability



MUELLER

MUELLER

Performance and longevity are the real tests of a Fire Hydrant. Superior flow characteristics, easy operation, and maintenance and life-extending features are among the benefits of installing a Mueller Super Centurion® Fire Hydrant. Super Centurion Hydrants are made in our U.S.A. plant that is ISO 9001 certified, and backed by a 10-year limited warranty on materials and workmanship.

- Epoxy coatings inside and out, top to bottom to resist the ravages of time and the environment. Upper section polyurethane enamel topcoat has superior UV resistance for extended gloss and color retention.
- 2-way, 3-way, and 4-way Hydrant: maximum working pressure 350psig/24barg (2400kPa); test pressure 700psig/48barg (4800kPa).
- Reliable traffic coupling and flange design reduces traffic damage. Convenient replacement kit available.
- Efficient hydraulic design provides maximum flow.
- Threaded-in hose and pumper nozzles are field replaceable.
- Automatic, forced oil lubrication each time it's operated and anti-friction washers ease operation.
- Reversible encapsulated main Valve provides a convenient replacement 'in-place' if ever needed.
- Main Valve is easily removed from the bonnet flange or ground line flange.
- AWWA C502 compliant
- UL 246 Listed, FM 1510 approved
- Certified to ANSI/NSF 61 & 372

MUELLER STORZ-STYLE PUMPER NOZZLE



- Designed, manufactured, and warranted by Mueller Co.
- Available in 4" & 5" pumper nozzles; allows quick, quarter-turn connection of hose.
- Does away with cross threading, alignment and leakage problems.
- 250 psi working pressure hydrants with Mueller Storz nozzle retain their UL/FM Listings.
- Mueller also offers a 4½" NST x 5" Storz adapter.



4-WAY WITH MONITOR ELBOW

- Monitor-style eliminates a possible leak path with separate monitor nozzle attachment.
- All parts are interchangeable with Mueller Super Centurion Hydrant.
- Maximum working pressure 350psig/24barg (2400kPa); test pressure 700psig/48barg (4800kPa).
- Full flow 4-way openings: 4" monitor elbow**, one 4½" pumper nozzle, and two 2½" hose nozzles.

** ASME /ANSI B16.1 Class 125 drilling

MODELS

Super Centurion Fire Hydrants

Pressure Rating		Main Valve		Nozzles		Listings	
250psig	350psig	4½"	5¼"	Pumper	Hose	UL	FM
A421	A421HP	•		1	2	•	•
A423	A423HP		•	1	2	•	•
A424	A424HP	•		1	0		•
A425	A425HP		•	2	0	•	
A433	A433HP	•		0	2	•	•
A435	A435HP		•	0	2	•	•
A454	A454HP		•	0	3	•	•
A455	A455HP		•	0	4	•	•
A458	A458HP		•	1	3	•	•
A459	A459HP		•	2	2	•	
A461	A461HP	•		1	2	•	•
A473	A473HP		•	1	2	•	•
A477			•	1	0		

SUPER CENTURION® HYDRANTS

High Flow and Dependable Long Time Performance

1 HOLD-DOWN NUT

Features an integral weather seal.

2 ANTI-FRICTION WASHER

Helps assure easy operation over the life of the Hydrant.

3 OIL FILLER PLUG

Permits visual check of oil level. Allows addition of oil without removing bonnet.

4 SEALED OIL RESERVOIR

O-ring sealed to prevent leakage. Lubricant is forced over stem threads and bearing surfaces each time Hydrant is operated.

5 DUAL O-RING SEALS

Seal in lubricant and seal out water.

6 FIELD-REPLACEABLE HOSE & PUMPER NOZZLES

O-ring sealed, threaded in place, and retained by Stainless Steel locks. Optional Mueller integral Storz Pumper Nozzle available.

7 FULL-FLOW OPENINGS

Large, smooth radius Hose & Pumper openings reduce friction loss.

8 HEAVY-DUTY NON-KINKING CHAINS

Special chain loop permits free turning of Cap.

9 STAINLESS STEEL STEM COUPLING

Provides a tight, corrosion resistant connection during normal operation. If vehicle hits Hydrant, Coupling breaks cleanly, preventing Stem or Main Valve damage. Designed so a tire cannot depress the stem and open Main Valve.

10 TRAFFIC FLANGE

Breaks cleanly to help prevent barrel damage, but strong enough to withstand normal handling. Allows economical repair, adding of extension section, and rotation or changing of Upper Barrel without excavation.

11 DRAIN VALVE FACINGS

Specially designed, long-life polymer facings provide effective seal.

12 BRONZE UPPER VALVE PLATE

Conical design reduces turbulence.

13 BRONZE SEAT RING

Threaded into Bronze drain ring and O-ring sealed. Can be removed or installed from above ground. Double drain Valves are flushed each time the main Valve is open or closed. Bronze drain Valves are integral parts of main Valve assembly.

14 REVERSIBLE, COMPRESSION-TYPE ENCAPSULATED MAIN VALVE

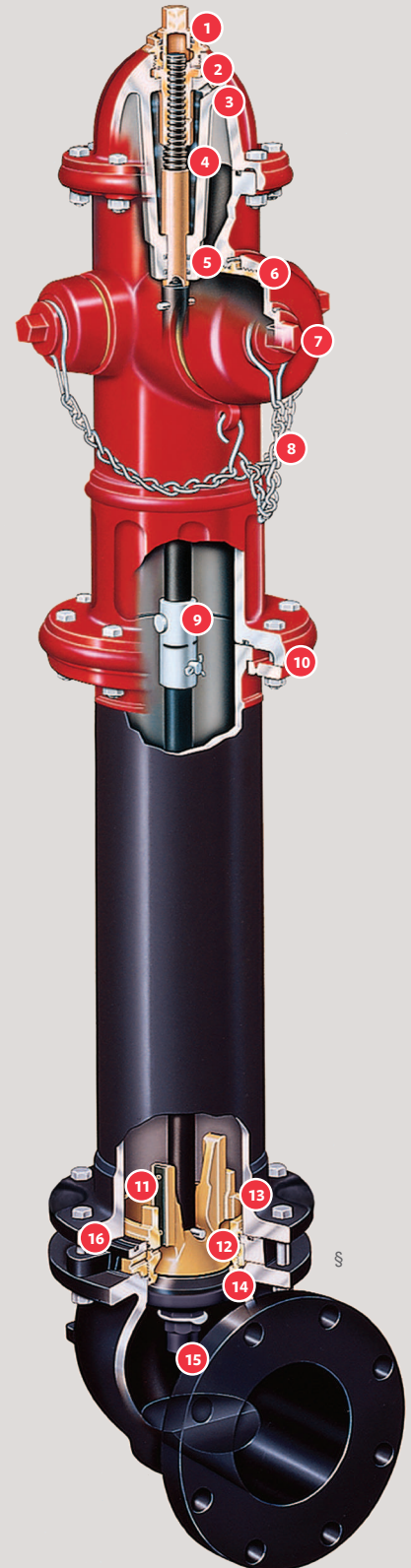
Closes with pressure for positive seal. Rubber material has long service life, yet is reversible, providing a convenient spare in place.

15 CAP NUT

Retains Main Valve. Sealed by Cap Nut gasket to prevent corrosion of Stem threads. Locked in place by a Stainless Steel lock washer. Epoxy coated to resist corrosion.

16 O-RING FLANGE SEALS

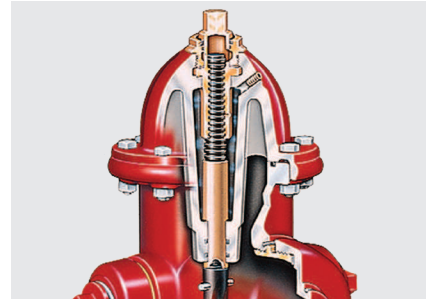
Superior pressure handling, easier disassembly & maintenance.



SUPER CENTURION® HYDRANTS

DRY-TOP DESIGN

Mueller Co.'s unique, self-oiling dry-top design provides automatic, positive lubrication for easy operation, even after years of service. Lubricant is forced over all stem threads and bearing surfaces in the operating mechanism each time the Hydrant is operated. Dual O-ring seals prevent lubricant loss during shipping, storage, and installation to keep water away from the stem threads and bearing surfaces when the Hydrant is in use. An anti-friction washer and automatic lubrication of the thrust collar add to easy operation.



HOSE & PUMPER NOZZLES

Hose and Pumper Nozzles are threaded-in for easy field replacement if damaged, or for changeover to different thread style. A special locking method makes installation simple and secure. The Nozzles can be faced in any direction by loosening the Traffic Flange bolts and rotating the Upper Barrel assembly.



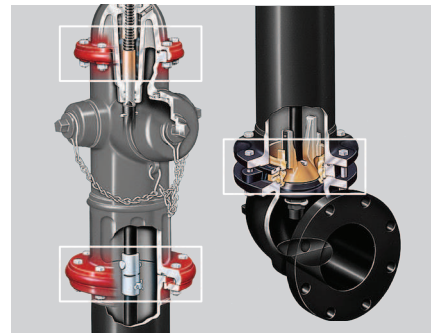
TRAFFIC FLANGE & STAINLESS STEEL STEM COUPLING

Mueller Co.'s improved Traffic Flange and Stainless Steel Safety Stem coupling protect the main connection from traffic induced damage and minimise damage to the Hydrant. If struck by a vehicle, the Traffic Flange and the Safety Stem Coupling break freely. The high strength Stainless Steel Stem Coupling resists corrosion and ensures a tight connection between the stem sections during normal Hydrant operation. The Safety Stem Coupling Clevis Pins are perpendicular for added strength during operation. Upon traffic impact, the Safety Stem Coupling tears away, leaving the Lower Stem below ground level, where it cannot be depressed by a vehicle tire and the main Valve remains closed. Service is restored quickly and easily without excavation by replacing the Traffic Flange and Safety Stem Coupling using a convenient repair kit.



O-RING SEALED FLANGES

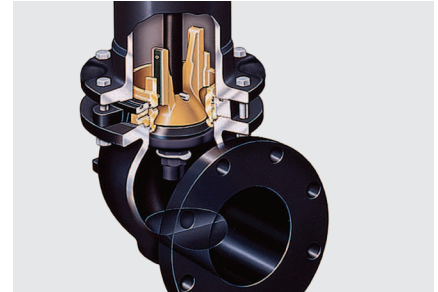
O-ring sealed Flanges at the bonnet, ground line, and shoe simplify maintenance by eliminating gasket adhesion at these points, making disassembly easier. The O-rings provide superior pressure sealing.



SUPER CENTURION® HYDRANTS

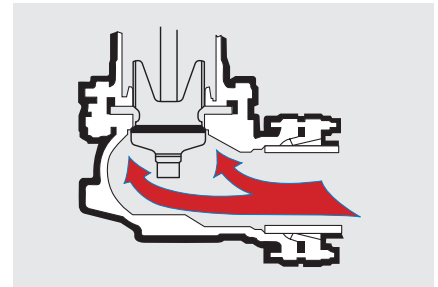
SHOE DESIGNED FOR MAXIMUM FLOW & EASY CONNECTION

The Shoe is designed for maximum flow and easy connection with its smooth transitional contours, extended neck and integral anti-rotation pads, allowing use of standard T-head bolts. Large blocking pads and two strapping lugs allow secure installation (lugs not provided on flanged connections). The Shoe is Epoxy coated inside and out, including the Drain-Ring housing, lower Main Valve plate, and its retaining nut. This provides excellent resistance to corrosion, deposits, chemicals, electrical currents, and physical impact.

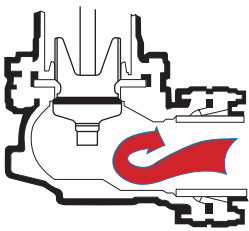


REVERSIBLE, COMPRESSION-TYPE ENCAPSULATED MAIN VALVE

The reversible, compression-type encapsulated main Valve closes with Water pressure for positive sealing. Double drain Valves are force flushed each time the Hydrant is operated and provide drainage of the barrel. A special wrench allows removal of the main Valve and Seat-Ring from either Bonnet or ground level Flange. The main Valve is made of durable rubber, which provides a long service life, yet is reversible, providing a convenient spare in place.

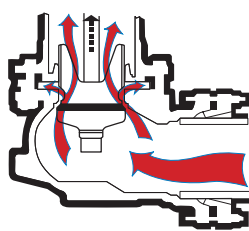


MAIN VALVE OPERATION



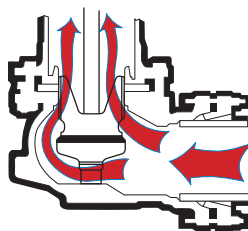
CLOSED

The main Valve held closed by operating nut & Water pressure; Barrel is dry.



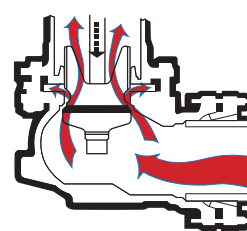
OPENING

Water pressure force-flushes double drain Valves and drain openings; establishes drainage field around Hydrant.



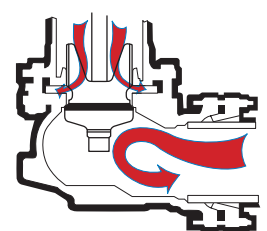
FULLY OPEN

Main Valve guides seal drain Valves closed.



CLOSING

Water pressure again force-flushes drain Valves.



FULLY CLOSED

Drain Valves are open to allow drainage of barrel.

OUR PRODUCTS

Mueller has built its reputation on producing innovative Water distribution products of superior quality – a reputation that is literally “on the line” every day throughout the world. Mueller products and those of its affiliates are used throughout the Water system... from the source to the consumer. We are committed to continuing research and development of new products and services to meet the growing needs of the Water infrastructure industry. Mueller is the largest and only full-line supplier of potable Water distribution products in North America and its markets continue to expand globally.

OUR PEOPLE

The capacity to deliver the widest array of products and stand behind those products to ensure your satisfaction is our strength. The success of Mueller is dependent upon the success of those who are involved, both inside and outside our company. Therefore, we feel our future is wholly dependent on long-term relationships with our employees, customers and suppliers. This is why we strive to be proactive and responsive to their needs, always looking for a “better way”. It’s an approach that has set us apart since 1857 and will assure our mutual achievement and prosperity in the future.

OTHER MUELLER PRODUCTS



Mueller® A-2361 350 psi Resilient Wedge Gate Valve

- 350psig/24barg (2400 kPa) working pressure, 700psig/48barg (4800 kPa) test pressure
- Dual-purpose lifting lugs provide stability for the Valve box
- Unique pressure-assist wedge geometry
- T-head bolt retention eliminates need for anti-rotation bolts
- Certified to ANSI/NSF 61 & 372, UL Listed, FM Approved, and exceeds applicable requirements of ANSI/AWWA C515 Standard
- 10-year limited warranty

For more information about us, or to view our full line of products, please visit www.mueller-international.com or call International Customer Service at:

UK: +44.1438.487410 Dubai: +971.4.214.6640 Singapore: +65.6816.3088 USA: +1.800.423.1323 | International@muellerwp.com

Mueller refers to one or more of Mueller Water Products, Inc., a Delaware corporation (“MWP”), and its subsidiaries. MWP and each of its subsidiaries are legally separate and independent entities when providing products and services. MWP does not provide products or services to third parties. MWP and each of its subsidiaries are liable only for their own acts and omissions and not those of each other. MWP brands include Mueller®, Echologics®, Hydro Gate®, Hydro-Guard®, Jones®, Krausz®, Mi.Net®, Milliken®, Pratt®, Pratt Industrial®, Singer®, and U.S. Pipe Valve & Hydrant. Please see muellerwp.com/brands to learn more.

© 2020 Mueller Water Products, Inc. All Rights Reserved. The trademarks, logos and service marks displayed in this document are the property of Mueller Water Products, Inc., its affiliates or other third parties. Products above marked with a section symbol (§) are subject to patents or patent applications. For details visit www.mwppat.com.