



# Super Centurion<sup>®</sup> Hydrants

Designed for efficient flow and outstanding, long-term reliability

**Mueller Co.**

Reliable Connections<sup>®</sup>

# Mueller® Super Centurion® Fire Hydrants

High flow and dependable long time performance.

## 1 Hold-down nut

Features an integral washer 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 Storz-style 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 safety 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 Safety 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 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.



**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.
- 250psig working pressure and 500psig test pressure; 350psig working pressure option available.
- Reliable safety 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 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

## Models

Super Centurion 200™ (200psi rated)			
A-420	4-1/2"	2-way	2 hose nozzle
A-422	5-1/4"	2-way	2 hose nozzle
A-424	4-1/2"	1-way	1 pumper nozzle
A-425	5-1/4"	2-way	2 pumper nozzle
A-433	4-1/2"	2-way	2 hose nozzle
A-435	5-1/4"	2-way	2 hose nozzle
Super Centurion 250™ (250psi rated)			
A-421	4-1/2"	3-way	2 hose nozzle/1 pumper nozzle
A-423	5-1/4"	3-way	2 hose nozzle/1 pumper nozzle
A-423	5-1/4"	3-way	2 hose nozzle/1 pumper nozzle - 24" above ground line
A-454	5-1/4"	3-way	3 hose nozzle
A-455	5-1/4"	4-way	4 hose nozzle
A-458	5-1/4"	4-way	3 hose nozzle/1 pumper nozzle
A-459*	5-1/4"	4-way	2 hose nozzle/2 pumper nozzle
Super Centurion 350™ (350psi rated)			
A-421HP	4-1/2"	3-way	2 hose nozzle/1 pumper nozzle
A-423HP	5-1/4"	3-way	2 hose nozzle/1 pumper nozzle

\* UL Listed/AWWA C502 compliant



### 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.
- Mueller Centurion 200™ & 250™ hydrants with Mueller Storz nozzle retain their UL/FM Listings.
- Mueller also offers a 4-1/2" NST x 5" Storz adapter.



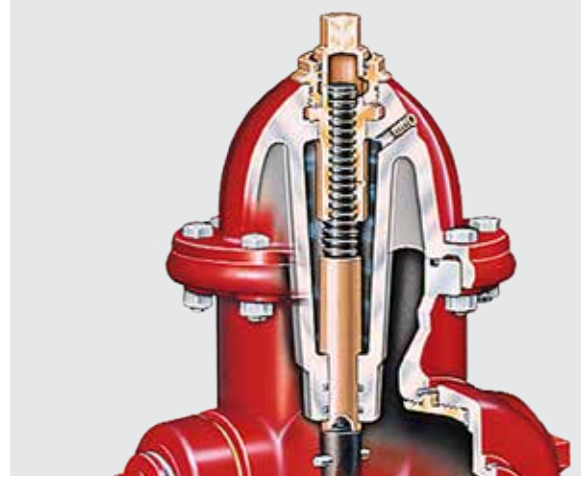
### 4-way with Monitor Elbow

- Monitor-style eliminates a possible leak path with separate monitor nozzle attachment.
- All parts are interchangeable with Mueller Super Centurion hydrant.
- 250psig working pressure and 500psig test pressure.
- Full flow 4-way openings: 4" monitor elbow\*\*, one 4-1/2" pumper nozzle, and two 2-1/2" hose nozzles.

\*\* ASME/ANSI B16.1 Class 125 drilling

## 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 safety flange bolts and rotating the upper barrel assembly.

Mueller Storz nozzles feature the same threaded-in design making conversion from a threaded pumper to a Storz pumper nozzle simple.



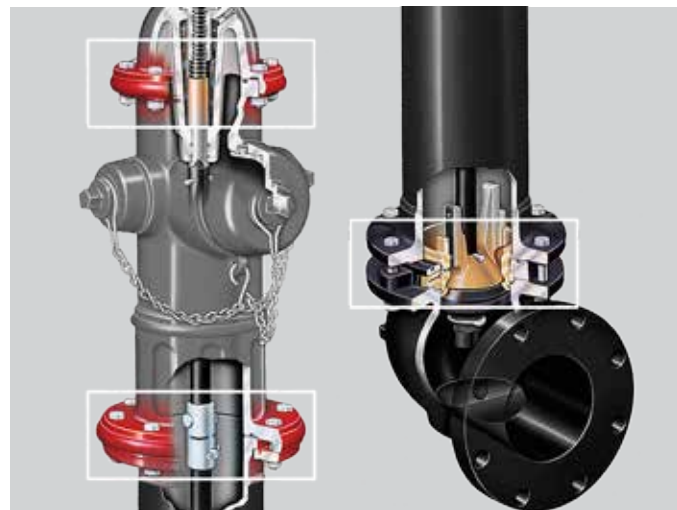
## Safety Flange & Stainless Steel Stem Coupling

Mueller Co.'s improved safety flange and stainless steel stem coupling protect the main connection from traffic induced damage and minimize damage to the hydrant. If struck by a vehicle, the safety flange breaks away below the ground flange area and the safety stem coupling pulls apart. The high strength stainless steel safety coupling resists corrosion and insures a tight connection between the stem sections during normal hydrant operation. The safety coupling clevis pins are perpendicular for added strength during operation. Upon traffic impact the coupling separates, 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 safety flange and coupling using a convenient repair kit.



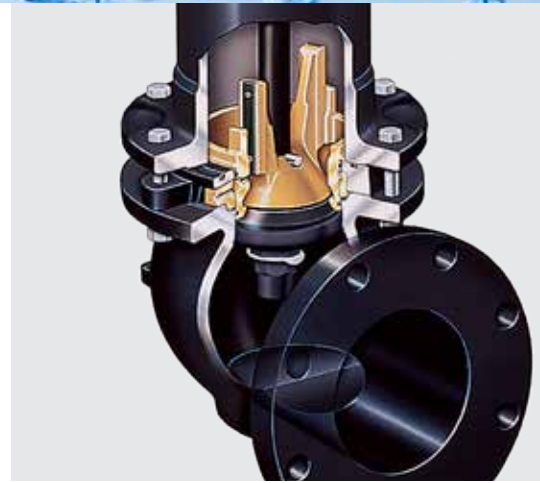
## O-ring Sealed Flanges

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 handling.



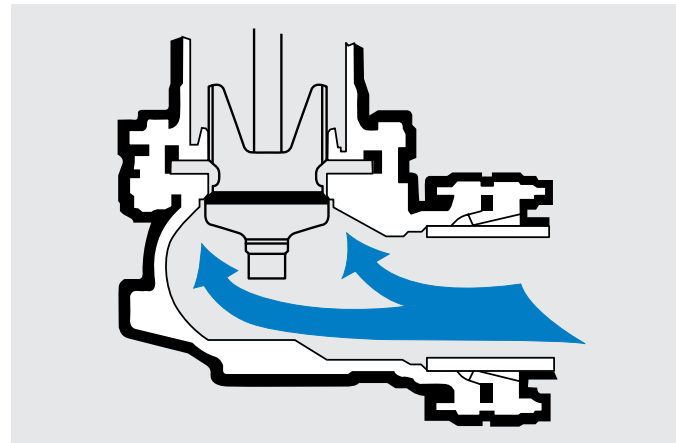
## Shoe Designed for Maximum Flow & Easy Connection

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). Epoxy coats the shoe 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.

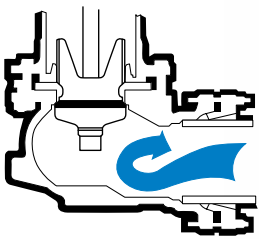


## Reversible, Compression-Type Main Valve §

The reversible, compression-type 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.

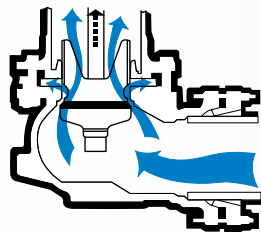


## Main Valve Operation



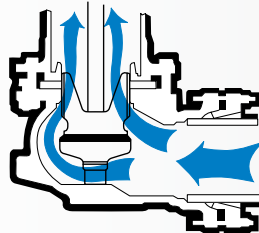
### CLOSED

The main valve held closed by operating nut & water pressure; barrel is dry.



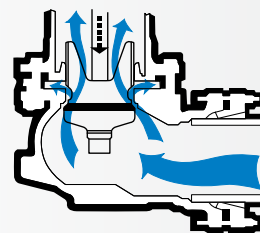
### OPENING

Water pressure force-flushes double drain valves and drain openings; establishes drainage field around hydrant.



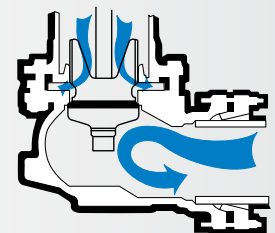
### FULLY OPEN

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 Co. 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 Co. products and those of its affiliates are used throughout the water system...from the source to the consumer. And we are committed to continuing research and development of new products and services to meet the growing needs of the water infrastructure industry. Mueller Co. 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 Co. 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.

*For more information about Mueller Co. or to view Mueller Co.’s full line of water products, please visit [www.muellercompany.com](http://www.muellercompany.com) or call Mueller Co. Customer Service at 1.800.423.1323.*

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## Other Innovative Mueller Products

### Mueller® A-2361 350psi Resilient Wedge Gate Valve

- 350 psig (2400 kPa/24 Barg) working pressure, 700 psig (4800 kPa/48 Barg) 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



**Mueller Co., LLC**  
633 Chestnut St., Suite 1200  
Chattanooga, TN 37450  
[www.muellercompany.com](http://www.muellercompany.com)  
[moreinfo@muellercompany.com](mailto:moreinfo@muellercompany.com)

Toll Free: 1.800.423.1323  
Canada: 1.705.719.9965  
International: 1.423.490.9555

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