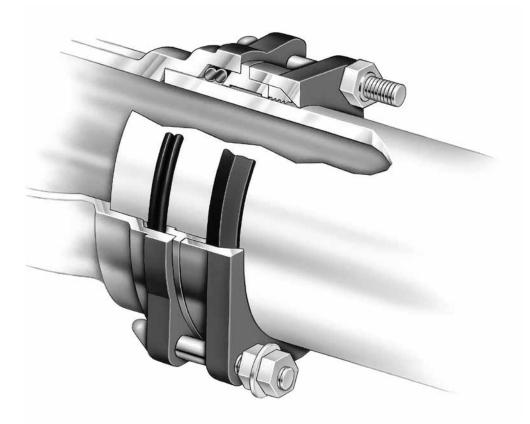
MUELLER[®] SUPER CENTURION[®] FIRE HYDRANT WITH AQUAGRIP[™] SYSTEM



Mueller AquaGrip System

The MUELLER AquaGrip System includes both the compression connection and the restraint system in one convenient, quick installation package. This eliminates the need for anchor couplings, tie rods or separate gland-type restraints. The AquaGrip system is available exclusively from Mueller on Centurion Fire Hydrants and 2300 Series Resilient Wedge Valves.



- TWO STYLES DIPS fits DI, C900 PVC and DIPS PE pipe. IPS fits PVC, IPS PE. No special pipe end preparation. PE pipe CDR9-DR17 requires a liner.
- PRESSURE RESPONSIVE O-RING SEAL unique double O-ring uses hydrostatic pressure from inside the pipe to enhance the seal as line pressure increases.
- 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. (Lower nut shown before tightening; upper one.)
- FULLY ASSEMBLED STAB CONNECTION insert the pipe and tighten the bolts. 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.
- NO POINT LOADING OF PIPE 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.





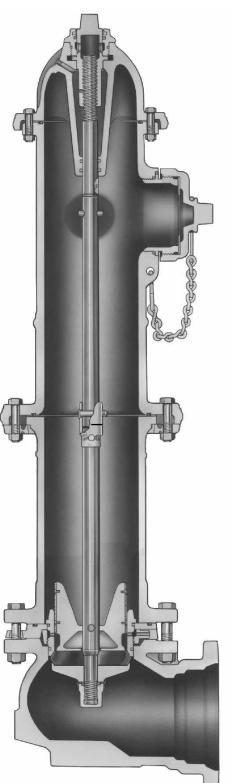
Rev. 9-09 Shaded area indicates changes



www.muellercompany.com • moreinfo@muellercompany.com

MUELLER® SUPER CENTURION® FIRE HYDRANT





MUELLER SUPER CENTURION 250[™] Fire Hydrant Features

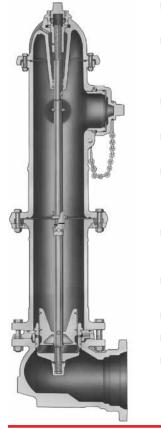
- PRESSURE RATED standard max. working pressure 250 psig (1725 kPa, 17 barg), optional 350 psig (2400 kPa, 24 barg). Test pressures 500 psig (3450 kPa, 35 barg) and 700 psig (4800 kPa, 48 barg) respectively.
- HOLD-DOWN NUT with integral weather seal. Design discourages unauthorized removal of the hold-down nut or bronze operating nut. Resilient wiper seal between hold-down nut and operating nut prevents water entry to protect operating nut from freezing. Wiper seal material is resistant to ultra-violet ray deterioration. O-ring seal provides second level of protection.
- ANTI-FRICTION WASHER Acetal washer on std. 250 psig hydrant; roller bearing on opt. 350 psig – helps assure easy operation for life of the hydrant.
- □ **OIL FILLER PLUG** permits quick check of oil level. Lets you add oil without removing bonnet.
- OIL RESERVOIR O-RING SEALS seal oil in, water out.
- STAINLES STEEL STEM COUPLING pulls free if hydrant is hit by a vehicle preventing damage to the stem and main valve. Coupling will not break into pieces that could drop into lower barrel and affect valve operation. Top of lower stem is below the top of the lower barrel so that a tire cannot depress the stem and open the main valve. Repair is easy and economical.
- TRAFFIC FLANGE breaks cleanly to help prevent barrel damage, yet is strong enough to withstand normal handling. Allows economical repair, adding of extension section, rotation or changing of upper barrel without digging or water shut-off.
- BRONZE UPPER VALVE PLATE conical design for smooth flow.
- □ **DRAIN VALVE FACINGS** specially designed, long-life facings provide effective sealing.
- CAST IRON CAP NUT -retains main valve. Seats against cap nut gasket to prevent corrosion of stem threads. Locked in place by a stainless steel lock washer. Mueller HP Epoxy coated for durability.
- SHOE DESIGNED FOR MAXIMUM FLOW AND EASY CONNECTION with its smooth transitional contours, extended neck and integral anti-rotation pads, allowing use of standard tee-head bolts. The inside of the shoe is covered with MUELLER HP® Epoxy Coating. This thermosetting epoxy forms a tough corrosion-resistant barrier to chemicals, physical impact and electrical currents.
- MEETS OR EXCEEDS all applicable requirements of ANSI/AWWA C502 Standard and UL 246 and FM 1510 specifications.
- □ **O-RING SEALS AT BONNET, GROUND, AND SHOE FLANGES** for better leak resistance, easier maintenance.
- SEALED OIL RESERVOIR O-ring sealed to prevent leakage. Provides positive lubrication of stem threads and bearing surfaces each time the hydrant is operated. Filled at the factory.
- □ **FULL FLOW OPENINGS** large radius hose and pumper openings produce low friction loss.
- □ **FIELD REPLACEABLE HOSE AND PUMPER NOZZLES** O-ring sealed. Threaded in place and retained by stainless steel locks. Nozzles are easily replaced.
- ELECTRO-GALVANIZED BOLTS AND NUTS provide corrosion protection.
- **NON-KINKING CHAINS** heavy-duty chains are securely attached to the hydrant. Special chain loop permits free turning of the cap.
- BRONZE SEAT RING threaded into drain ring and O-ring sealed. Seat ring is easily removed or installed from above ground. Each time main valve is opened or closed, double drain valves force-flush both drain valve openings to keep them open for effective barrel drainage. Bronze drain valves are integral parts of main valve assembly.
 - **PATENTED 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 350 opt. includes reinforced main valve for higher pressure holding capability (both main valves are interchangeable).



MUELLER® FIRE HYDRANTS

Rev. 3-18 Shaded area indicates changes

Mueller Super Centurion 200[™] 2-Way and 1-Way Fire Hydrant



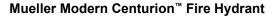
Meets all applicable parts of ANSI/AWWA C502 Standard

- Hold-down nut with integral weather seal; designed to discourage unauthorized tampering
- Gasket seals at bonnet, ground and shoe flanges
- Dry top design with O-ring sealed oil reservoir
- Stainless steel stem coupling pulls free if hydrant is hit by a vehicle preventing damage to the stem and main valve
- Reversible, compressiontype main valve closes with pressure for positive seal
- Low flow loss design with full flow nozzles and shoe
- Field replaceable nozzles
- Dual bronze drain ways
- 200 psig (1400 kPa/14 barg) maximum working pressure, 400 psig (2800 kPa/28 barg) test pressure

Mueller Centurion Spin-in Fire Hydrant



- Lower barrel threaded to fit most sizes of R.D.Wood fire hydrant shoes
- Meets all applicable parts of ANSI/AWWA C502 Standard
- Post type dry barrel design
- Dry top design with O-ring sealed oil reservoir
- Traffic feature
- Reversible, compression-type main valve closes with pressure for positive seal
- Low flow loss design with full flow nozzles and shoe
- Field replaceable nozzles
- Dual bronze drain ways
- Two way and three way design
- 200 psig (1400 kPa/14 barg) maximum working pressure, 400 psig (2800 kPa/28 barg) test pressure



- Modern, sleek exterior design
- Meets all applicable parts of ANSI/AWWA C502 Standard
- Post type dry barrel design
- Dry top design with O-ring sealed oil reservoir
- Traffic feature
- Stainless steel stem coupling pulls free if hydrant is hit by a vehicle preventing damage to the stem and main valve
- Reversible, compression-type main valve closes with pressure for positive seal
- Low flow loss design with full flow nozzles and shoe
- Field replaceable nozzles
- Dual bronze drain ways
- Two way and three way designs
- 250 psig (1725 kPa/17 barg) maximum working pressure, 500 psig (3450 kPa/35 barg) test pressure

Mueller Centurion Standard Post & Flush Fire Hydrant

- 2-1/8" main valve opening
- Meets all applicable parts of ANSI/AWWA C502 Standard
- Dry barrel design
- Used for blow offs, sampling, irrigation, golf course watering, private estates, etc.
- Compression type main valve closes with pressure
- Bronze drain
- Flush type has a cast iron box with lid
- 150 psig (1034 kPa/10 barg) maximum working pressure, 300 psig (2068 kPa/21 bar) test pressure



MUELLER® O.E.M. FIRE HYDRANT REPAIR PARTS AND REPAIR KITS

Mueller Co.

Shaded area indicates change Rev. 9-17

Mueller Co. considers a fire hydrant to be a critical piece of emergency equipment used to preserve lives and property. For this reason all Mueller Fire Hydrants are designed, built and tested to assure high performance and dependability.

Each component part of a Mueller Fire Hydrant is specially designed to assure proper and reliable operation. Attention to detail doesn't stop once the part is designed. Quality control tests are made on all component parts to assure dimensional and material integrity are maintained. Every Mueller Fire Hydrant is pressure tested and operated before it leaves our plant to assure it meets our high quality standards.

Mueller Co. is confident it produces one of the most reliable fire hydrants available and backs this claim with a **10 YEAR LIMITED WARRANTY ON PARTS AND WORKMANSHIP** for the Mueller Super Centurion[®] Fire Hydrant. The claim of outstanding performance and reliability is proven by the fact that almost half of all the fire hydrants sold in the United States today are manufactured by Mueller Co.

A fire hydrant is exposed to the elements on a daily basis and over a period of time repairs may eventually become necessary. Mueller Co. offers repair kits that have the same parts as are used in our regular production hydrants. When you use genuine Mueller replacement parts you are assured the part matches the manufacturer's original equipment specifications with regard to dimensions, materials and performance. Only genuine Mueller parts are marked with the Mueller name.



Typical bonnet repair kit



Typical traffic flange repair kit



Typical main valve repair kit



Typical shoe repair kit



MUELLER® SUPER CENTURION® FIRE HYDRANT

Rev. 9-17 Shaded area indicates changes

| Super Centurion 250 [™] catalog numbers - UL 246, FM 1510 ANSI/AWWA C502 250 psi rated A421 4-1/2" main valve opening 3-way (2 hose nozzle / 1 pumper nozzle) A423 5-1/4" main valve opening 3-way (2 hose nozzle / 1 pumper nozzle) A454 5-1/4" main valve opening 3-way (3 hose nozzle) * A455 5-1/4" main valve opening 4-way (4 hose nozzle) * A458 5-1/4" main valve opening 4-way (3 hose nozzle) * A459 5-1/4" main valve opening 4-way (2 hose nozzle / 1 pumper nozzle) * A459 5-1/4" main valve opening 4-way (2 hose nozzle / 2 pumper nozzle) * * Hose Gate Valves required on FM Approved Models ** A459 is UL Listed and ANSI/AWWA C502 |
|--|
| Super Centurion 350 [™] catalog number - UL 246, FM 1510 ANSI/AWWA C502 350 psi rated A423 5-1/4" main valve opening 3-way (2 hose nozzle / 1 pumper nozzle) A421 4-1/2" main valve opening 3-way (2 hose nozzle / 1 pumper nozzle) |
| Super Centurion 200 [™] catalog numbers - UL 246, FM 1510 ANSI/AWWA C502 200 psi rated A-433 4-1/2" main valve opening 2-way (2 hose nozzle) A-435 5-1/4" main valve opening 2-way (2 hose nozzle) |
| ANSI/AWWA C502 200 psi rated A-420 4-1/2" main valve opening 2-way (2 hose nozzle) A-424 4-1/2" main valve opening 1-way (1 pumper nozzle) A-422 5-1/4" main valve opening 2-way (2 hose nozzle) A-425 5-1/4" main valve opening 2-way (2 pumper nozzle) A-423 5-1/4" main valve opening 3-way (1 hose nozzle / 2 pumper nozzle) |
| 10 year limited warranty on material and workmanship Meets all applicable parts of ANSI/AWWA C502 Standard Post type dry barrel design Dry top design with O-ring sealed oil reservoir |
| Traffic feature with stainless steel stem coupling Compression-type main valve closes with pressure for positive seal; it is made of rubber and is conveniently reversible providing a spare for long service life Operating nut available in wide variety of shapes and sizes-open left or right |

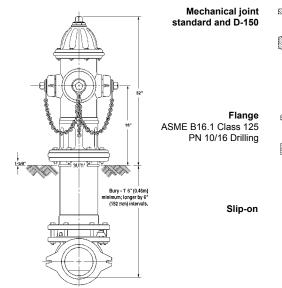
- □ Field replaceable hose and pumper nozzles
- Hose and pumper nozzles have large radius, full flow openings for low friction loss
- Contoured shoe is designed for full flow
- Dual bronze drain valves provide effective barrel drainage
- 350 psig (2400 kPa/24 barg) maximum working pressure, 700 psig (4800 kPa/48 barg) static test pressure;
 250 psig (1725 kPa/17 barg) maximum working pressure, 500 psig (3450 kPa/35 barg) static test pressure;
 200 psig (1400 kPa/14 barg) maximum working pressure, 400 psig (2800 kPa/28 barg) static test pressure

10-1/8 4" Shoe 8-7/32" 6" Shoe 10-3/8" 8" Shoe

10-7/8" - 4" Shoe -9-3/4" - 6" Shoe -

9-11/16" + 6" Shoe

Dimensions



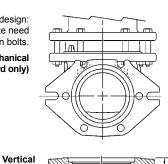
Non-rotating bolt design: cast-in pads eliminate need for anti-rotation bolts.

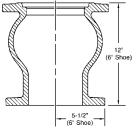
Front view detail of Mechanical joint (Standard only)

Flange

ASME B16.1 Class 125

PN 10/16 Drilling







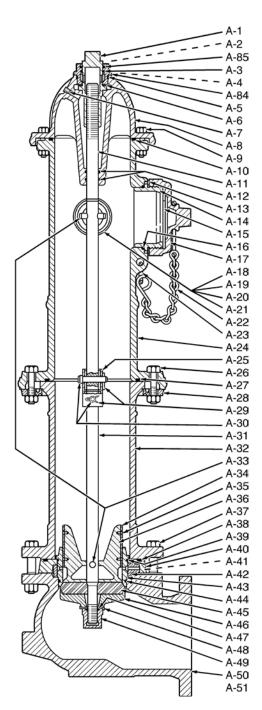
SEE PAGE 9.28 FOR ORDERING INSTRUCTIONS

MUELLER® SUPER CENTURION® FIRE HYDRANT PARTS



Mueller Super Centurion Fire Hydrant Parts

| Catalog Part Number | Description | Material | Material Standard |
|---------------------|---|-----------------|--|
| A-1 | Operating Nut | Bronze | ASTM B62 |
| A-2 | Weather Cap (not shown - used only on | Cast Iron | ASTM A126 CL.B |
| A-3 | pre-1988 models) Hold Down Nut O-ring | Rubber | ASTM D2000 - BUNA N |
| A-4 | Hold Down Nut (not shown - used only on | Bronze | ASTM B22000 BONAN |
| A-5 | pre-1998 models Bonnet O-ring | Rubber | ASTM D2000 - BUNA N |
| A-6**** | Anti-friction Washer | Acetal | ASTIVI D2000 - BUINA IN |
| A-0 | Oil Plug | Brass | - ASTM B16 |
| A-8 | Bonnet | Cast Iron | ASTM B10 ASTM A126 CL.B |
| A-9 | Bonnet Bolt and Nut | Steel | SAE J429 Grade 2****** |
| A-10 | Bonnet O-ring (1997 and newer 3-way models; all pre-1997 models and 1-way and 2-way models have flat gasket) | Rubber | ASTM D2000 - BUNA N |
| A-11 | Upper Stem | Steel | ASTM A576 1144T |
| A-12 | Stem O-ring | Rubber | ASTM D2000 - BUNA N |
| A-13 | Nozzle Lock | Stainless Steel | ASTM A276 |
| A-14 | Pumper Nozzle | Bronze | ASTM B584 |
| A-15 | Pumper Nozzle 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 | Bronze | ASTM B584 |
| A-19 | Hose Nozzle 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 Ring | Steel | Plated |
| A-24 | Upper Barrel Less Nozzles | Cast Iron | ASTM A126 CL.B |
| A-25 | Stem Coupling | Stainless Steel | ASTM A890 |
| A-26 | Traffic Flange Bolt and Nut | Steel*** | SAE J429 Grade 2***** |
| A-27 | Traffic Flange O-ring (1997 and newer models; pre-1997 models have a flat gasket) | Rubber | ASTM D2000 - BUNA N |
| A-28 | Traffic Flange | Cast Iron | ASTM A126 CL.B |
| A-29 | Cotter Pin | Stainless Steel | ASTM A276 |
| A-30 | Clevis Pen | Stainless Steel | ASTM A276 |
| A-31 | Lower Stem | Steel | ASTM A576 1144T |
| A-32 | Lower Barrel | Cast Iron | ASTM A126 CL.B |
| A-33 | Stem Pin | Stainless Steel | ASTM A582 |
| A-34 | Drain Valve Facing | Plastic | - |
| A-35 | Drain Valve Screw | Stainless Steel | ASTM A276 |
| A-36 | Upper Valve Plate (includes A-34 and A-35) | Bronze | ASTM B584 |
| A-37 | Shoe Bolt and Nut | Steel*** | SAE J429 Grade 2***** |
| A-38 | Drain Ring Housing O-ring (1997 and newer models; pre-1997 models have a square gasket) | 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-41 | Drain Ring Housing Bolt and Nut (not shown - used only on pre-1997 model hydrants) | Steel | ASTM A307 Plated |
| A-42 | Drain Ring | Bronze | ASTM B62 |
| A-43 | Seat Ring | Bronze | ASTM B584 |
| A-44 | Seat Ring Bottom O-ring | Rubber | ASTM D2000 - BUNA N |
| A-45 | Reversible Encapsulated Main Valve* (1997 and newer models only; pre-1997 models use non- reversible main valve and lower valve plate - not shown) | Rubber | ASTM D2000 reinforced Cast Iron ASTM A126 CL.B |
| A-46 | Lower Valve Plate (1997 and newer models for reversible main valve; pre-1997 models have non-reversivble main valve - not shown | Cast Iron | ASTM A126 CL.B |
| A-47 | Cap Nut Seal | Rubber | ASTM D2000 - Natural |
| A-48 | Lock Washer | Stainless Steel | ASTM A276 |
| A-49 | Lower Valve Plate Nut | Cast Iron | ASTM A126 CL.B |
| A-50 | Shoe** | Cast Iron | ASTM A536 |
| A-84 | Hold Down Nut | Bronze | ASTM B62 |
| A-85 | Weather Seal | Rubber | ASTM D2000 - EPDM |
| 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.

** 6" MJ shoe is Ductile Iron, ASTM A536

*** Stainless steel Type 304 and 316 available as an option

**** For 350 psig option, A-6 is a roller thrust bearing, Steel.

****** For 350 psig option, A-9, 27, and 37 are Steel SAE J429 Grade 5



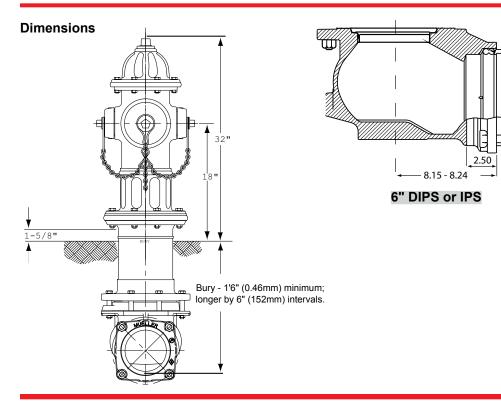
MUELLER[®] SUPER CENTURION[®] FIRE HYDRANT WITH AQUAGRIP[™] SYSTEM

Rev. 9-17 Shaded area indicates changes

Super Centurion 250[™] catalog numbers
A421 4-1/2" main valve opening 3-way (2 hose nozzle / 1 pumper nozzle)
A423 5-1/4" main valve opening 3-way (2 hose nozzle / 1 pumper nozzle)
A454 4-1/2" main valve opening 3-way (3 hose nozzle) *
A455 5-1/4" main valve opening 4-way (4 hose nozzle) *
A458 4-1/2" main valve opening 4-way (3 hose nozzle / 1 pumper nozzle) *
A459 5-1/4" main valve opening 4-way (2 hose nozzle / 1 pumper nozzle) *
A459 5-1/4" main valve opening 4-way (2 hose nozzle / 1 pumper nozzle) *
A459 5-1/4" main valve opening 4-way (2 hose nozzle / 1 pumper nozzle) *

- Super Centurion 200[™] catalog numbers
 A-433 4-1/2[™] main valve opening 2-way (2 hose nozzle)
 A-435 5-1/4[™] main valve opening 2-way (2 hose nozzle)
- 10 year limited warranty on material and workmanship
- Meets all applicable parts of ANSI/AWWA C502 Standard
- Post type dry barrel design
- Dry top design with O-ring sealed oil reservoir
- Traffic feature with stainless steel stem coupling
- Compression-type main valve closes with pressure for positive seal; it is made of rubber and is conveniently reversible providing a spare for long service life
- Operating nut available in wide variety of shapes and sizes open left or right
- □ Field replaceable hose and pumper nozzles
- Hose and pumper nozzles have large radius, full flow openings for low friction loss
- Contoured shoe is designed for full flow
- Dual bronze drain valves provide effective barrel drainage
- 250 psig (1725 kPa/17 barg) maximum working pressure, 500 psig (3450 kPa/35 barg) static test pressure for 3-way hydrants
- 200 psig (1400 kPa/14 barg) maximum working pressure, 400 psig (2800 kPa/28 barg) static test pressure for 2-way and 1-way hydrants

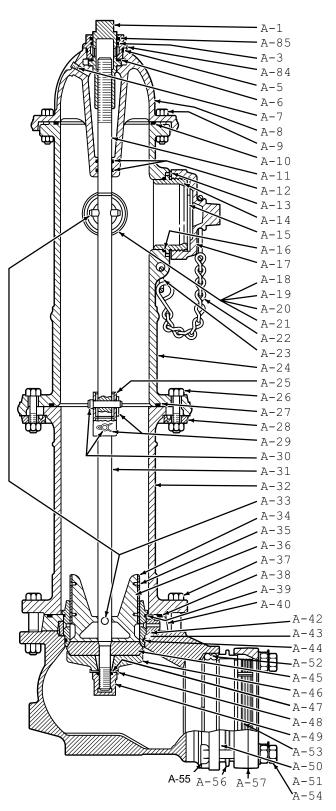




MUELLER[®] SUPER CENTURION[®] FIRE HYDRANT WITH AQUAGRIP[™] SYSTEM

Mueller Super Centurion Fire Hydrant Parts

| - | г сепцинон гне пу | | |
|---------------------|--|-----------------|---|
| Catalog Part Number | Description | Material | Material Standard |
| 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 Grade 2 |
| A-10 | Bonnet O-ring | Rubber | ASTM D2000 - BUNA N |
| A-11 | Upper Stem | Steel | ASTM A576 1144T |
| A-12 | Stem O-ring | Rubber | ASTM D2000 - BUNA N |
| A-13 | Nozzle Lock | Stainless Steel | ASTM A276 |
| A-14 | Pumper Nozzle | Bronze | ASTM B584 |
| A-15 | Pumper Nozzle 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 | Bronze | ASTM B584 |
| A-19 | Hose Nozzle 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 Ring | Steel | Plated |
| A-24 | Upper Barrel Less Nozzles | Cast Iron | ASTM A126 CL.B |
| A-25 | Stem Coupling | Stainless Steel | ASTM A890 |
| A-26 | Traffic Flange Bolt and Nut | Steel* | SAE J429 Grade 2 |
| A-27 | Traffic Flange O-ring | Rubber | ASTM D2000 - BUNA N |
| A-28 | Traffic Flange | Cast Iron | ASTM A126 CL.B |
| A-29 | Cotter Pin | Stainless Steel | ASTM A276 |
| A-30 | Clevis Pen | Stainless Steel | ASTM A276 |
| A-31 | Lower Stem | Steel | ASTM A576 1144T |
| A-32 | Lower Barrel | Cast Iron | ASTM A126 CL.B |
| A-33 | Stem Pin | Stainless Steel | ASTM A582 |
| A-34 | Drain Valve Facing | Plastic | - |
| A-35 | Drain Valve Screw | Stainless Steel | ASTM A276 |
| | Upper Valve Plate | | |
| A-36 | (includes A-34 and A-35) | Bronze | ASTM B584 |
| A-37 | Shoe Bolt and Nut | Steel* | SAE J429 Grade 2 |
| 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-41 | Drain Ring Housing Bolt and Nut - not shown | Steel | SAE J429 Grade 2 |
| A-42 | Drain Ring | Bronze | ASTM B584 |
| A-43 | Seat Ring | Bronze | ASTM B584 |
| A-44 | Seat Ring Bottom O-ring | Rubber | ASTM D2000 - BUNA N |
| A-45 | Reversible Encapsulated Main Valve | Rubber | ASTM D2000 reinforced Cast Iron ASTM A126 CL.B |
| A-46 | Lower Valve Plate | Cast Iron | ASTM A126 CL.B |
| A-47 | Cap Nut Seal | Rubber | ASTM D2000 - Natural |
| 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-50 A-84 | | | ASTM B62 |
| | Hold Down Nut | Bronze | |
| A-85 | Weather Seal | Rubber | ASTM D2000 - EPDM |
| A-52 | Double O-ring | Rubber | ASTM D2000 - BUNA N |
| A-53 | Gripper Ring | Ductile Iron | ASTM A536 |
| A-54 | Breakaway Nut with Washer | Steel | - |
| A-55 | T-head Bolt | Steel | - |
| A-56 | Immediate Ring | Ductile Iron | ASTM A536 |
| A-57 | End-ring | Ductile Iron | ASTM A536 |



* Stainless steel Type 304 and 316 available as an option

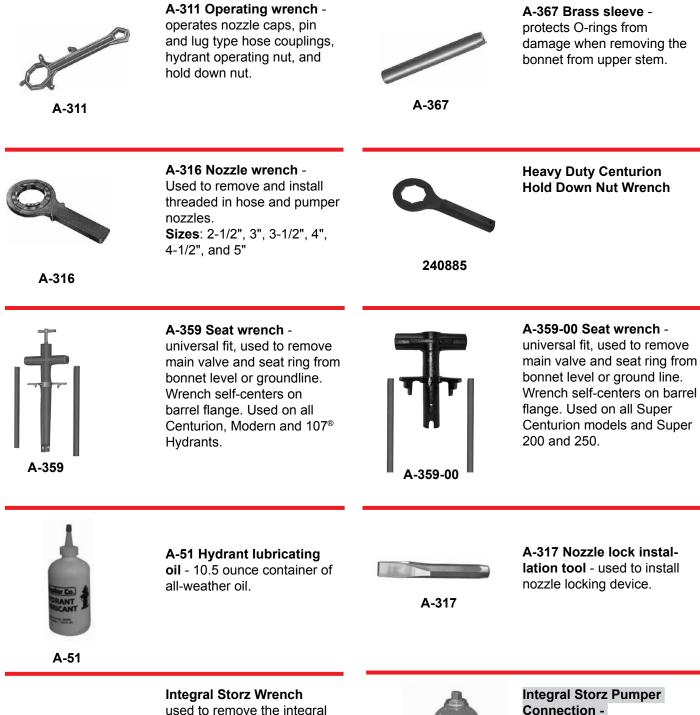
Mueller Co.

9.10



MUELLER® SUPER CENTURION® FIRE HYDRANT MISCELLANEOUS EQUIPMENT

Rev. 9-15 Shaded area indicates changes



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used to remove the integral Storz Pumper Connection. Sizes - 4" - 287402 5" - 287403



Integral Storz Pumper Connection used to quickly connect to hydrants. Available on Centurion 200[™], 250[™] or Modern hydrant.

MUELLER® SUPER CENTURION® FIRE HYDRANT REPAIR KITS



Bonnet Repair Kit



| Kit Catalog Number | | | | | |
|--------------------|--------------|--|--|--|--|
| 4-1/2" M.V.O. | 5-1/4" M.V.O | | | | |
| 280355 | 280355 | | | | |

Bonnet Repair Kit consists of -(1) Weather seal

- (2) Hold down nut O-rings
- (2) Bonnet O-rings
- (1) Bonnet/Upper barrel O-ring (1) Anti-friction washer
- (1) Bonnet flange gasket
- (2) Stem O-rings
- (1) 10.5 oz. Hydrant lubricating oil
- (1) Instruction sheet

Main Valve Repair Kit



Main Valve Repair Kit consists of -

- (1) Top seat O-rings
- (1) Bottom seat O-rings
- (1) Main valve (reversible)
- (1) Lower valve plate (reversible)
- (1) Cap nut seals
- (1) Bronze seat ring
- (1) Instruction sheet

| Kit Catalo | Kit Catalog Number | | | | |
|---------------|--------------------|--|--|--|--|
| 4-1/2" M.V.O. | 5-1/4" M.V.O | | | | |
| 280358 | 280359 | | | | |

Extension Kit



Extension Kit consists of -

- (1) Stem
- (1) Barrel
- (1) Stainless steel extension stem coupling
- (1) Extension flange
- (1) Bonnet/Upper barrel O-ring
- (3) Gaskets
- (1) Bonnet/Upper barrel O-ring
- (8) Bolts and nuts
- (2) Clevis pins
- (3) Cotter pins
- (1) Instruction sheet
- (1) 10.5 oz. hydrant lubricating oil
- Extension lengths: 0'-6", 1'-0",

1'-6", 2'-0", 2'-6", 3'-0", 3'-6", 4'-0"

.

Traffic Flange Repair Kit

Traffic Flange Repair Kit consists of:

- (1) Traffic flange
- (2) Gaskets
- (8) Traffic flange bolts and nuts
- (1) Traffic flange O-ring
- (1) Bonnet/Upper barrel O-ring
- (1) 10.5 oz. hydrant lubricating oil
- (1) Stainless steel stem coupling
- (2) Clevis pins
- (3) Cotter pin
- (1) Instruction sheet

| Kit Catalog Number | | | | |
|--------------------|--------------|----------|--|--|
| 4-1/2" M.V.O. | 5-1/4" M.V.O | 350 psi | | |
| A-300 | A-301 | A-301-35 | | |

Kit Catalog Number 4-1/2" M.V.O. 5-1/4" M.V.O 350 psi A-319 A-320 A-320-35

Shoe Repair Kit



Shoe Repair Kit consists -

- (2) Drain valve facings
- (4) Drain valve facing screws
- (1) Drain ring housing gasket
- (1) Top seat O-ring
- (1) Bottom seat O-ring
- (1) Gasket
- (1) Main valve (reversible)
- (1) Lower valve plate (reversible)
- (1) Cap nut seal
- (1) Lock washer
- (6) Shoe bolts and nuts
- (1) 10.5 oz. hydrant lubricating oil
- (1) Instruction sheet

Conversion Kit

Replaces 107 hydrant bonnet with Centurion stop-in-bonnet style. Open left, 1-1/2" pentagon operating nut.

Bonnet Replacement Kit consists of -

- (1) Bonnet
- (1) Bonnet gasket
- (8) Bonnet bolts/nuts
- (1) Operating nut
- (1) Hold down nut
- (1) Stop nut
- (1) Oil plug
- (1) Anti-friction washer
- (1) Weather seal
- (1) Hold down nut O-ring
- (2) Bonnet O-rings
- (2) Stem O-rings
- (1) Upper stem assembly
- (1) 10.5 oz. hydrant lubricating oil
- (1) Instruction sheet form 11089

| Kit Catalog Number | | | | |
|--------------------|--------------|--|--|--|
| 4-1/2" M.V.O. | 5-1/4" M.V.O | | | |
| 280356 | 280357 | | | |

A-417 107®



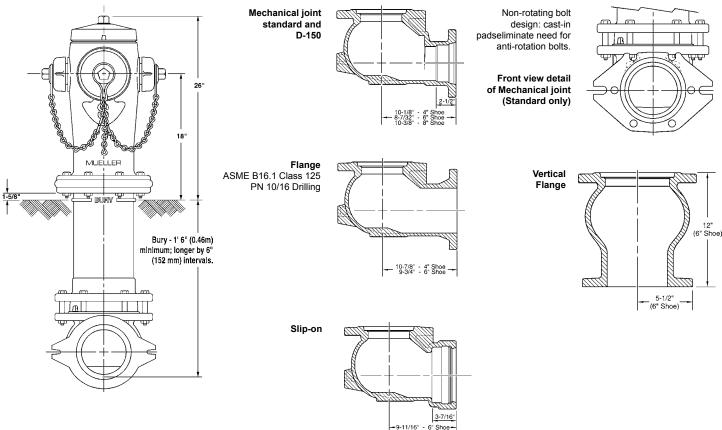
MUELLER® MODERN CENTURION® FIRE HYDRANT

Rev. 9-17 Shaded area indicates changes

- Catalog numbers A-441 5-1/4" main valve opening 2-way (2 hose nozzles)
 A-442 5-1/4" main valve opening 3-way (2 hose nozzles and 1 pumper nozzle)
- □ Modern, sleek exterior design
- Meets all applicable parts of ANSI/AWWA C502 Standard
- Post type dry barrel design
- Dry top design with O-ring sealed oil reservoir
- Traffic feature with stainless steel stem coupling
- □ Compression type main valve closes with pressure for positive seal; it is made of rubber and is conveniently reversible providing a spare for long service life
- Operating nut available in wide variety of shapes and sizes
- □ Field replaceable hose and pumper nozzles
- □ Hose and pumper nozzles have large radius, full flow openings for low friction loss
- Contoured shoe is designed for full flow
- Dual bronze drain valves provide effective barrel drainage
- 250 psig (1725 kPa/17 barg) maximum working pressure, 500 psig (3450 kPa/35 barg) test pressure



Dimensions

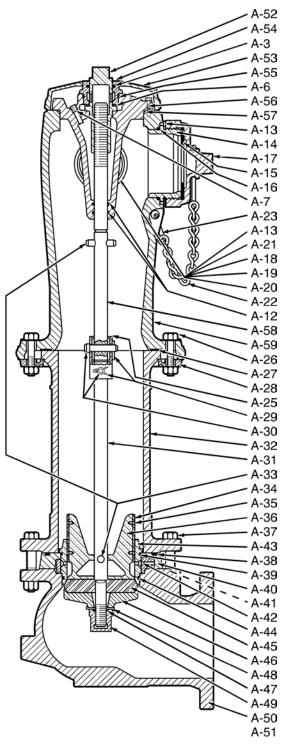


MUELLER® MODERN CENTURION® FIRE HYDRANT PARTS



Mueller Modern Centurion Fire Hydrant Parts

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|--|---|--------------------|---|
| Catalog Part Number | Description | Material | Material Standard |
| 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-12 | Stem O-ring | Rubber | ASTM D2000 - BUNA N |
| A-13 | Nozzle Lock | Stainless Steel | ASTM A276 |
| A-14 | Pumper Nozzle | Bronze | ASTM B584 |
| A-15 | Pumper Nozzle 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 | Bronze | ASTM B584 |
| A-19 | Hose Nozzle 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 Ring | Steel | Plated |
| A-25 | | Stainless Steel | ASTM A890 |
| | Stem Coupling | | |
| A-26 | Traffic Flange Bolt and Nut | Steel*** | SAE J429 Grade 2 |
| A-27 | Traffic Flange O-ring (1997 and newer models; pre-1997 models have a flat gasket) | Rubber | ASTM D2000 BUNA-N |
| A-28 | Traffic Flange | Cast Iron | ASTM A126 CL.B |
| A-29 | Cotter Pin | Stainless Steel | ASTM A276 |
| A-30 | Clevis Pin | Stainless Steel | ASTM A276 |
| A-31 | Lower Stem | Steel | ASTM A576 Grade 1144T |
| 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 (includes A-34 and A-35) | Bronze | ASTM B584 |
| , | | Steel*** | SAE J429 Grade 2 |
| A-38 | Drain Ring Housing O-ring (1997 and newer models; pre-1997 models have a | Rubber | ASTM D2000 - BUNA N |
| | square gasket) | | |
| | | Rubber | ASTM D2000 - BUNA N |
| A-40 A-41 | Drain Ring Housing Drain Ring Housing Bolt and Nut (not shows - used only on pre-1997 model | Cast Iron Steel | ASTM A126 CL.B ASTM A307 Plated |
| | hydrants) | | |
| A-42 | Drain Ring | Bronze | ASTM B62 |
| A-43 | Seat Ring | Bronze | ASTM B584 |
| A-44 | Seat Ring Bottom O-ring | Rubber | ASTM D2000 - BUNA N |
| A-45 | Reversible Encapsulated Main Valve* (1997 and newer models only; pre-1997 models use reversible main valve and lower valve plate - not shown) | Rubber | ASTM D2000 reinforced Cast Iron ASTM A126 CL.B |
| A-46 Lower Valve Plate (1997 and newer models for reversible main valve; pre-1997 models have non-rever- sivble main valve - not shown | | Cast Iron | ASTM A126 CL.B |
| A-47 | Cap Nut Seal | Rubber | ASTM D2000 - Natural |
| A-48 | Lock Washer | Stainless Steel | ASTM A276 |
| A-49 | Lower Valve Plate Nut | Cast Iron | ASTM A126 CL.B |
| A-50 | Shoe** | Cast Iron | ASTM A536 |
| A-51 | 10.5 oz. Hydrant Lubricating Oil (not shown) | - | - |
| A-52 | Operating Nut | Bronze | ASTM B62 |
| A-53 | Weather Cap | Cast Iron | ASTM A126 CL.B |
| A-54 | Hold Down Nut | Bronze | ASTM B62 |
| A-55 | Housing | Cast Iron | ASTM A126 CL.B |
| A-56 | Housing Bolt | Steel | SAE J429 Grade 2 |
| | Top Housing O-ring | Rubber | ASTM D2000 - BUNA N |
| A-57 | | | |
| A-57 A-58 | Upper Stem | Steel | ASTM A576 Gade 1144T |



* Pre-1997 models may be upgraded to use the reversible main valve by also replacing the lower valve plate with the 1997 model. ** 6" MJ shoe is Ductile Iron, ASTM A536

*** Stainless steel Type 304 and 316 available as an option



MUELLER® MODERN CENTURION® FIRE HYDRANT MISCELLANEOUS EQUIPMENT

Rev. 9-15 Shaded area indicates changes



A-311

A-311 Operating wrench

- operates nozzle caps, pin and lug type hose couplings, hydrant operating nut, and hold down nut.



A-367

A-367 Brass sleeve protects O-rings from damage when removing the bonnet from upper stem.



A-359 Seat wrench universal fit, used to remove main valve and seat ring from bonnet level or groundline. Wrench self-centers on barrel flange. Used on all Centurion, Modern and 107[®] Hydrants.



A-359-00 Seat wrench universal fit, used to remove main valve and seat ring from bonnet level or ground line. Wrench self-centers on barrel flange. Used on all Super Centurion models and Super

200 and 250.

A-316

A-316 Nozzle wrench -Used to remove and install threaded in hose and pumper nozzles. Sizes: 2-1/2", 3", 3-1/2", 4", 4-1/2", and 5"



A-317

A-317 Nozzle lock installation tool - used to install nozzle locking device.



A-51 Hydrant lubricating oil - 10.5 ounce container of all-weather oil.



Integral Storz Wrench used to remove the integral Storz Pumper Connection. Sizes - 4" - 287402

287402 - 4" - 287402 5" - 287403



Integral Storz Pumper Connection used to quickly connect to hydrants. Available on Centurion 200[™], 250[™] or Modern hydrant.

MUELLER® MODERN CENTURION® FIRE HYDRANT REPAIR KITS

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Shoe Repair Kit



Kit Catalog Number 5-1/4" M.V.O 280357

Shoe Repair Kit consists of:

- (2) Drain valve facings
- (4) Drain valve facing screws • •
 - (1) Drain ring housing gasket
- (1) Drain ring housing O-ring (1) Top seat O-ring
- (1) Bottom seat O-ring
- (1) Main valve (reversible)
- (1) Lower valve plate (reversable)
- (1) Cap nut seal
- (1) Lock washer
- (6) Shoe bolts and nuts
- (2) Drain ring bolts and nuts
- (1) 10.5 oz. hydrant lubricating oil
- . (1) Instruction sheet

Main Valve Repair Kit



| Kit Catalog Number |
|--------------------|
| 5-1/4" M.V.O |
| 280359 |

Main Valve Repair Kit consists of:

- (1) Top seat O-rings •
- (1) Bottom seat O-rings
- (1) Main valve (reversible)
- (1) Lower valve plate (reversible) •
- (1) Cap nut seals
 - (1) Bronze seat ring
 - (1) Instruction sheet

Extension Kit



Kit Catalog Number

| | | - 5 | - | |
|--------|---|------|---|--|
| 5-1/4" | Μ | .V.O | | |
| A-320 | | | | |

Extension Kit consists of:

- (1) Stern
- (1) Barrel
- (1) Stainless steel extension stem coupling
- (1) Extension flange
- (2) Gaskets
- (8) Bolts and nuts
- (2) Clevis pins
- (3) Cotter pins
- (1) 10.5 oz. hydrant lubricating oil
- (1) Instruction sheet .
 - Extension lengths: 0'-6", 1'-0", 1'-6", 2' 0", 2'-6", 3'-0", 3;-6", 4'-0", 4'-6" & 5'-0"



Kit Catalog Number

5-1/4" M.V.O

A-301

Traffic Flange Repair Kit

Traffic Flange Repair Kit consists of:

- (1) Traffic flange
- (2) Gaskets •
 - (8) Traffic flange bolts and nuts
- (1) Traffic flange O-ring
- . (1) Bonnet/Upper barrel O-ring
- (1) 10.5 oz. hydrant lubricating oil
- (1) Stainless steel stem coupling
- (2) Clevis pins

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- (3) Cotter pins
- (1) Instruction sheet





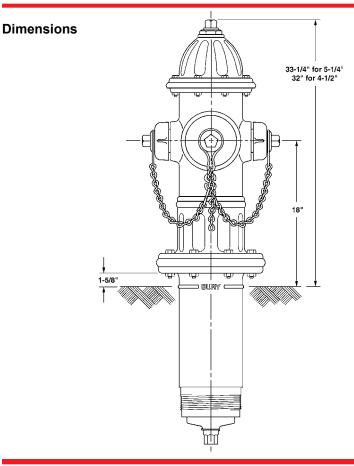
MUELLER® CENTURION SPIN-IN FIRE HYDRANT

Rev. 9-17 Shaded area indicates changes

- Catalog numbers -A-466 4-1/2"* main valve opening 3-way (2 hose nozzles and 1 pumper nozzle) fits 4" regular R.D.Wood shoe A-467 5-1/4" main valve opening 3-way (2 hose nozzles and 1 pumper nozzle) fits 6" regular R.D.Wood shoe A-468 5-1/4" main valve opening 3-way (2 hose nozzles and 1 pumper nozzle) fits 5" bronze lined R.D.Wood shoe
 Meets all applicable parts of ANSI/AWWA C502 Standard
 Post type dry barrel design
- Dry top design with O-ring sealed oil reservoir
- Traffic feature with stainless steel stem coupling
- Compression type patented main valve closes with pressure for positive seal;
 it is made of rubber and is conveniently reversible providing a spare for long service life
- Operating nut available in wide variety of shapes and sizes
- □ Field replaceable hose and pumper nozzles
- □ Hose and pumper nozzles have large radius, full flow openings for low friction loss
- Dual bronze drain valves provide effective barrel drainage
- 200 psig (1400 kPa/14 barg) maximum working pressure, 400 psig (2800 kPa/28 barg) test pressure

*4-1/2" M.V.O. hydrants have 5-1/4" bonnets, upper barrels, traffic flanges and lower barrels and are marked 5-1/4" even though the main valve opening is 4-1/2".





MUELLER® CENTURION® SPIN-IN FIRE HYDRANT PARTS

Mueller Co.)

Mueller Centurion Spin-In Fire Hydrant Parts

| Catalog Part Number | Description | Material | Material Standard |
|---------------------|--|-----------------|--|
| A-1 | Operating Nut | Bronze | ASTM B62 |
| | Weather Cap (not shown - used only on | | |
| A-2 | pre-1988 models) | Cast Iron | ASTM A126 CL.B |
| A-3 | Hold Down Nut O-ring | Rubber | ASTM D2000 - BUNA N |
| A-4 | Hold Down Nut (not shown - used only on pre-1988 models) | Bronze | ASTM B62 |
| 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 | Hose Nozzle Cap | Cast Iron | ASTM A126 CL.B |
| A-9 | Hose Nozzle Gasket | Rubber | ASTM D2000 - Neoprene |
| A-10 | Hose Nozzle | Bronze | ASTM B584 |
| A-11 | Upper Stem | Steel | ASTM A576 1144T |
| A-12 | Stem O-ring | Rubber | ASTM D2000 - BUNA N |
| A-13 | Nozzle Lock | Stainless Steel | ASTM A276 |
| A-14 | Pumper Nozzle | Bronze | ASTM B584 |
| A-15 | Pumper Nozzle 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 | Bronze | ASTM B584 |
| A-19 | Hose Nozzle 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 Ring | Steel | Plated |
| A-24 | Upper Barrel | Cast Iron | ASTM A126 CL.B |
| A-25 | Stem Coupling | Stainless Steel | ANSI C1018 Plated |
| A-26 | Traffic Flange Bolt and Nut | Steel | SAE J429 Grade 2 |
| A-27 | Traffic Flange O-ring (1997 and newer models; pre-1997 models have a flat gasket) | Rubber | ASTM D2000 - BUNA N |
| A-28 | Traffic Flange | Cast Iron | ASTM A126 CL.B |
| A-29 | Cotter Pin | Stainless Steel | ASTM A276 |
| A-30 | Clevis Pen | Stainless Steel | ASTM A276 |
| A-31 | Lower Stem | Steel | ASTM A576 1144T |
| A-32 | Lower Barrel | Cast Iron | ASTM A126 CL.B |
| A-33 | Stem Pin | Stainless Steel | ASTM A582 |
| A-34 | Drain Valve Facing | Plastic | - |
| A-35 | Drain Valve Screw | Stainless Steel | ASTM A276 |
| A-36 | Upper Valve Plate (includes A-34 and A-35) | Bronze | ASTM B584 |
| A-45* | Reversible Encapsulated Main Valve* (1997 and newer models only; pre-1997 models use non-reversible main valve and lower valve plate - not shown) | Rubber | ASTM D2000 reinforced Cast Iron ASTM A126 CL.B |
| A-46 | Lower Valve Plate (1997 and newer models for reversible main valve; pre- 1997 models have non-reversibble main valve - not shown | Cast Iron | ASTM A126 CL.B |
| A-47 | Cap Nut Seal | Rubber | ASTM D2000 - Natural |
| A-48 | Lock Washer | Stainless Steel | ASTM A276 |
| A-49 | Lower Valve Plate Nut | Cast Iron | ASTM A126 CL.B |
| A-51 | 10.5 oz. Hydrant Lubricating Oil (not shown) | - | - |
| A-52 | Hold Down Nut | Bronze | ASTM B62 |
| A-85 | Weather Seal | Rubber | ASTM D2000 - EPDM |
| A-84 | Hold Down Nut | Bronze | ASTM B584 |
| A-200 | Sleeve O-ring | Rubber | ASTM D2000 - Nitrile |
| A-201 | Sleeve | Copper | ASTM B75 |
| A-201 | Stop Nut | Ductile Iron | ASTM A395 |
| A-250 | Seat Ring | Bronze | ASTM B584 |
| A-251 | Top Seat Ring Gasket | Rubber | ASTM D2000 - Nitrile |
| A-251 | Bottom Seat Ring Gasket | Rubber | ASTM D2000 - Nitrile |

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

9.18



MUELLER® CENTURION® SPIN-IN FIRE HYDRANT MISCELLANEOUS EQUIPMENT

Rev. 4-14 Shaded area indicates changes



A-311

A-311 Operating wrench - operates nozzle caps, pin and lug type hose couplings, hydrant operating nut, and hold down nut.



A-367

A-367 Brass sleeve - protects O-rings from damage when removing the bonnet from upper stem.



A-316

A-316 Nozzle wrench -Used to remove and install threaded in hose and pumper nozzles. Sizes: 2-1/2", 3", 3-1/2", 4", 4-1/2", and 5"



A-359 Seat wrench universal fit, used to remove main valve and seat ring from bonnet level or groundline. Wrench self-centers on barrel flange. Used on all Centurion, Modern and 107[®] Hydrants.



A-317

A-317 Nozzle lock installation tool - used to install nozzle locking device.



A-51 Hydrant Iubricating oil - 10.5 ounce container of all-weather oil.

A-51

MUELLER® CENTURION® SPIN-IN FIRE HYDRANT REPAIR KITS



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Shaded area indicates change Rev. 3-18

Bonnet Repair Kit



Kit Catalog Number

5-1/4" M.V.O 280355

Bonnet Repair Kit consists of: (1) Weather seal

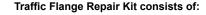
- (1) Hold down nut O-ring
- (1) Bonnet O-ring
- (1) Bonnet/Upper barrel O-ring
- (1) Anti-friction washer
 - (1) Bonnet gasket
 - (2) Stem O-rings
 - (1) 10.5 oz. Hydrant lubricating oil

Traffic Flange Repair Kit

Kit Catalog Number

5-1/4" M.V.O

A-301



- (1) Traffic flange
- (2) Gaskets •
 - (8) Traffic flange bolts and nuts
- (1) Traffic flange O-ring
- (1) Bonnet/Upper barrel O-ring
- (1) 10.5 oz. hydrant lubricating oil
- (1) Stainless steel stem coupling
- (2) Clevis pins
- (3) Cotter pins
- (1) Instruction sheet



Kit Catalog Number 5-1/4" M.V.O A-320

Extension Kit consists of:

(1) Stem

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- (1) Bonnet/Upper barrel O-ring
- coupling

- (2) Gaskets
- (8) Bolts and nuts
- (2) Clevis pins
- (3) Cotter pins
- (1) 10.5 oz. hydrant lubricating oil
- (1) Instruction sheet



(1) Barrel •

- (1) Stainless steel extension stem
- (1) Extension flange
- (1) Traffic flange O-ring

9.20



MUELLER[®] 5-1/4" FLUSH TYPE FIRE HYDRANT

Rev. 4-14 Shaded area indicates changes

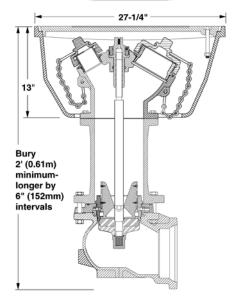
- Catalog Numbers -A-415 5-1/4" main valve opening 3-way (2 hose nozzles and 1 pumper nozzle)
- Meets all applicable parts of ANSI/AWWA C502 Standard
- □ Flush type dry barrel design
- Cast iron flush box with non-locking lid
- □ Compression type patented main valve closes with pressure for positive seal; it is made of rubber and is conveniently reversible providing a spare for long service life
- Operating nut available in wide variety of shapes and sizes
- Hose and pumper nozzles have large radius, full flow openings for low friction loss
- Contoured shoe is designed for full flow
- Dual bronze drain valves provide effective barrel drainage
- 250 psig (1725 kPa/17 barg) maximum working pressure, 500 psig (3450 kPa/35 barg) test pressure



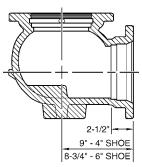


Dimensions

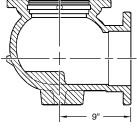
FIRE HYDRANT CAMERCIER ACTION



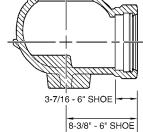
Mechanical joint standard and D-150











MUELLER[®] 5-1/4" FLUSH TYPE **FIRE HYDRANT**

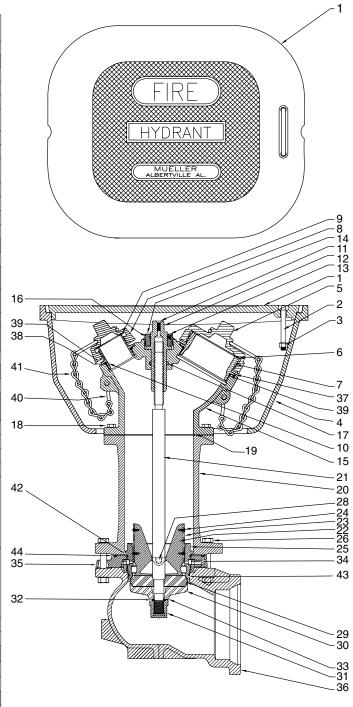
Mueller Co.

Shaded area indicates change Rev. 3-18

| Mueller 5-1/4 Flush Type Fire Hydrant Parts | | | | | | |
|--|--|-----------------|-----------------------|--|--|--|
| Catalog Part Number | Description | Material | Material Standard | | | |
| 1 | Flush Box Lid (non-locking) | Cast Iron | ASTM A126 CL.B | | | |
| 2 | Lift Handle | HRS | - | | | |
| 3 | Lift Handle Nut | Steel | - | | | |
| 4 | Flush Box | Cast Iron | ASTM A126 CL.B | | | |
| 5 | Pumper Nozzle Cap | Cast Iron | ASTM A126 CL.B | | | |
| 6 | Pumper Nozzle Gasket | Rubber | ASTM D2000 - Neoprene | | | |
| 7 | Pumper Nozzle | Bronze | ASTM B584 | | | |
| 8 | Hose Nozzle Cap | Cast Iron | ASTM A126 CL.B | | | |
| 9 | Hose Nozzle Gasket | Rubber | ASTM D2000 - Neoprene | | | |
| 10 | Hose Nozzle | Bronze | ASTM B584 | | | |
| 11 | Oil Screw for Operating Nut | Brass | ASTM B36 | | | |
| 12 | Operating Nut | Bronze | ASTM B584 | | | |
| 13 | Oil Screw in Hold Down Nut | Brass | ASTM B36 | | | |
| 14 | Hold Down Nut | Bronze | ASTM B62 | | | |
| 15 | Upper Barrel | Cast Iron | ASTM A126 CL.B | | | |
| 16 | Hold Down Nut O-ring | Rubber | ASTM D2000 | | | |
| 17 | O-ring Seal | Rubber | ASTM D2000 | | | |
| 18 | Cap Screw | Steel | ANSI B18.2.1 | | | |
| 19 | Barrel Flange Gasket | Rubber | ASTM D2000 | | | |
| 20 | Lower Barrel | Cast Iron | ASTM A126 CL.B | | | |
| 21 | Stem | Steel | ASTM A576 1144T | | | |
| 22 | Upper Valve Plate | Bronze | ASTM B584 | | | |
| 23 | Drain Valve Facing | Plastic | - | | | |
| 24 | Drain Valve Facing Screw | Stainless Steel | ASTM A276 | | | |
| 25 | Seat Ring | Bronze | ASTM B584 | | | |
| 26 | Shoe Bolt and Nut | Steel | SAE J429 Grade 2 | | | |
| 28 | Stem Pin | Stainless Steel | - | | | |
| 29* | Reversible Encapsulated Main Valve pre-2006 models have non-reversible main valve and lower valve plate - not shown | Rubber | ASTM D2000 - SBR | | | |
| 30 | Lower Valve Plate Pre-2006 models have non-reversible main valve and lower valve plate - not shown | Cast Iron | ASTM A126 CL.B | | | |
| 31 | Valve Plate Nut | Cast Iron | ASTM A126 CL.B | | | |
| 32 | Cap Nut Seal | Rubber | ASTM D2000 - Natural | | | |
| 33 | Lock Washer | Stainless Steel | Туре 304 | | | |
| 34 | Drain Ring | Bronze | ASTM B584 | | | |
| 35 | Drain Ring Housing | Cast Iron | ASTM A126 CL.B | | | |
| 36 | Shoe** | Cast Iron | ASTM A536 | | | |
| 37 | Pumper Nozzle O-ring | Rubber | ASTM D2000 - BUNA N | | | |
| 38 | Hose Nozzle O-ring | Rubber | ASTM D2000 - BUNA N | | | |
| 39 | Nozzle Lock | Stainless Steel | ASTM A276 | | | |
| 40 | Chain Hook | Steel | Plated | | | |
| 41 | Chain | Steel | Plated | | | |
| 42 | Top Seat O-ring | Rubber | ASTM D2000 - BUNA N | | | |
| 43 | Bottom Seat O-ring | Rubber | ASTM D2000 - BUNA N | | | |
| 44 | Drain Ring O-ring | Rubber | ASTM D2000 - BUNA N | | | |
| * Pre-1997 models may be upgraded to use the reversible main valve by also | | | | | | |

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

** 6" MJ shoe is Ductile Iron, ASTM A536







MUELLER® 5-1/4" FLUSH TYPE FIRE HYDRANT MISCELLANEOUS EQUIPMENT

Rev. 4-15 Shaded area indicates changes



A-314

A-314 Operating wrench operates nozzle caps, pin and lug type hose couplings, hydrant operating nut, and hold down nut.



A-346 Seat wrench -

Adjustable, used to remove main valve and seat ring from ground line level. For use with A-415 hydrant.





A-316

A-316 Nozzle wrench - Used to remove and install threaded in hose and pumper nozzles. Sizes: 2-1/2", 3", 3-1/2", 4", 4-1/2", and 5"

A-317

A-317 Nozzle lock installation tool - used to install nozzle locking device.

A-415 Wrench - Operating wrench for use with A-415 flush hydrants.

Part #290608: 1-1/2" pent. Part #290610: 1-1/8" pent.

A-415



Shaded area indicates change Rev. 8-04



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Dimensions



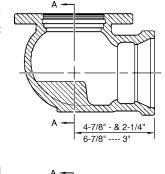
MUELLER[®] 2-1/8" POST TYPE FIRE HYDRANT

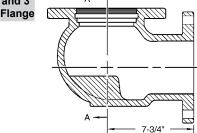
Rev. 03-18 Shaded area indicates changes

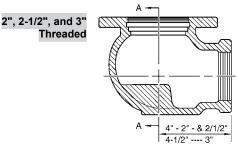
- Catalog numbers A-411 2-1/8" main valve opening two way (two 2-1/2" hose nozzles)
 A-411 2-1/8" main valve opening one way (one 2-1/2" hose nozzle)
- □ Meets all applicable parts of ANSI/AWWA C502 Standard
- Post type dry barrel design
- □ Compression type main valve closes with pressure
- Operating nut available in wide variety of shapes and sizes
- □ Field replaceable hose nozzles
- □ Hose nozzles have large radius, full flow openings for low friction loss
- Contoured shoe is designed for full flow
- Dual bronze drain valves provide effective barrel drainage
- 150 psig (1000 kPa/10 barg) maximum working pressure, 300psig (2100 kPa/21 bar) test pressure



2" and 3" Mechanical joint 2" and 3" Z" and 3" Fiange 2", 2-1/2", and 3" Threaded 6" (152 mn) Intervals.

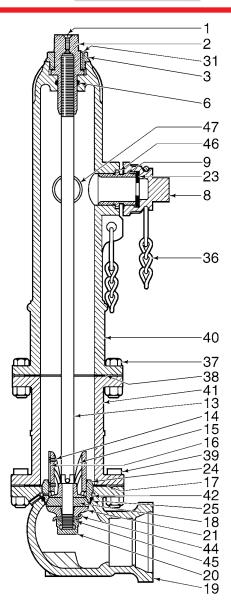




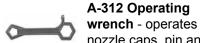




| Catalog Part Number | Description | Material | Material Standard |
|------------------------|-----------------------------|-----------------|-----------------------|
| 1 | Oil Screw for Operating Nut | Brass | ASTM B36 |
| 2 | Operating Nut | Bronze | ASTM B584 |
| 3 | Hold Down Nut | Bronze | ASTM B62 |
| 6 | Operating Nut O-ring | Rubber | ASTM D2000 - BUNA N |
| 8 | Hose Nozzle Cap | Cast Iron | ASTM A126 CL.B |
| 9 | Hose Nozzle | Bronze | ASTM B584 |
| 13 | Stem | Steel | ASTM A575 |
| 14 | Drain Valve Screw | Stainless Steel | - |
| 15 | Upper Valve Plate* | Bronze | ASTM B584 |
| 16 | Drain Valve Facing | Plastic | - |
| 17 | Shoe Gasket | Rubber | ASTM D2000 - SBR |
| 18 | Main Valve | Rubber | ASTM D2000 |
| 19 | Shoe | Ductile Iron | ASTM A536 |
| 20 | Valve Plate Nut | Ductile Iron | ASTM A536 |
| 21 | Lower Valve Plate | Cast Iron | ASTM A126 CL.B |
| 23 | Hose Nozzle O-ring | Rubber | ASTM D2000 - BUNA N |
| 24 | Seat Ring | Bronze | ASTM B584 |
| 25 | Seat Ring Gasket | Copper | ASTM B372 |
| 31 | Oil Screw | Brass | ASTM B36 |
| 31B | O-ring (for oil screw) | Rubber | ASTM D2000 - BUNA N |
| 36 | Nozzle Cap Chain | Steel | Plated |
| 37 | Barrel Flange Bolt and Nut | Steel | SAE J429 Gr. 2 |
| 38 | Barrel Flange Gasket | Rubber | ASTM D2000 - BUNA N |
| 39 | Shoe Bolt and Nut | Steel | SAE J429 Gr. 2 |
| 40 | Upper Barrel | Cast Iron | ASTM A126 CL.B |
| 41 | Lower Barrel | Cast Iron | ASTM A126 CL.B |
| 42 | O-ring | Rubber | ASTM D2000 - BUNA N |
| 44 | Valve Nut Washer | Stainless Steel | Туре 304 |
| 45 | Valve Nut Seal | Rubber | ASTM D2000 - BUNA N |
| 46 | Nozzle Lock | Stainless Steel | ASTM A276 |
| 47 | Hose Nozzle Gasket | Rubber | ASTM D2000 - Neoprene |



* Includes items #14 and #16. For pre-1986 models, contact customer service.



A-312

nozzle caps, pin and lug type hose couplings, hydrant operating nut and hold down nut.



A-347

A-347 Seat wrench -Adjustable, used to remove main valve and seat ring from ground line level.

A-316

A-316 Nozzle wrench - Used to remove and install threaded in hose and pumper nozzles.



A-317 Nozzle lock installation tool -Used to install nozzle locking device.

9.26



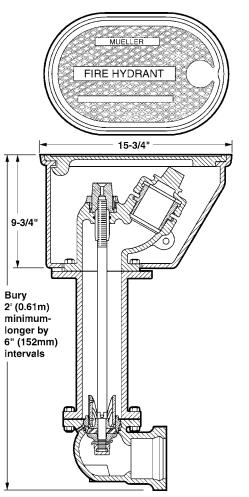
MUELLER[®] 2-1/8" FLUSH TYPE FIRE HYDRANT

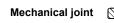
Rev. 4-14 Shaded area indicates changes

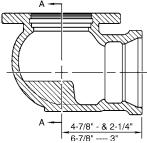
- Catalog numbers A-412 2-1/8" main valve opening one way (one 2-1/2" hose nozzle) non-locking lid
- Meets all applicable parts of ANSI/AWWA C502 Standard
- □ Flush type dry barrel design
- □ Compression type main valve closes with pressure
- □ Cast iron flush box with non-locking lid
- $\hfill\square$ Operating nut available in wide variety of shapes and sizes
- □ Field replaceable hose nozzles
- Hose nozzles have large radius, full flow openings for low friction loss
- Contoured shoe is designed for full flow
- Dual bronze drain valves provide effective barrel drainage
- 150 psig (1000 kPa/10 barg) maximum working pressure, 300 psig (2100 kPa/21 barg) test pressure

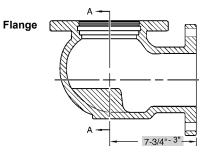


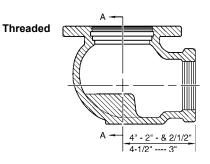
Dimensions





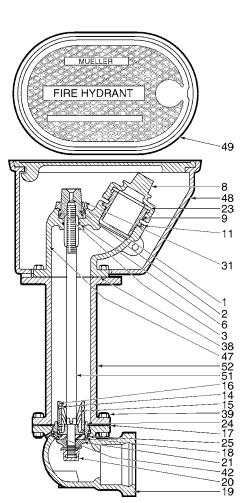






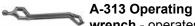
Mueller 2-1/8" Flush Type Fire Hydrant Parts

| Catalog Description Metazial Metazial Standard | | | | |
|--|---------------------------------|-----------------|-----------------------|--|
| Part Number | Description | Material | Material Standard | |
| 1 | Oil Screw for Operating Nut | Brass | ASTM B36 | |
| 2 | Operating Nut | Bronze | ASTM B584 | |
| 3 | Hold Down Nut | Bronze | ASTM B62 | |
| 6 | Operating Nut O-ring | Rubber | ASTM D2000 - BUNA N | |
| 8 | Hose Nozzle Cap | Cast Iron | ASTM A126 CL.B | |
| 9 | Hose Nozzle | Bronze | ASTM B584 | |
| 14 | Drain Valve Screw | Stainless Steel | - | |
| 15 | Upper Valve Plate* | Bronze | ASTM B584 | |
| 16 | Drain Valve Facing | Plastic | - | |
| 17 | Shoe Gasket | Rubber | ASTM D2000 - SBR | |
| 18 | Main Valve | Rubber | ASTM D2000 | |
| 19 | Shoe | Ductile Iron | ASTM A536 | |
| 20 | Valve Plate Nut | Ductile Iron | ASTM A536 | |
| 21 | Lower Valve Plate | Cast Iron | ASTM A126 CL.B | |
| 23 | Hose Nozzle Gasket | Rubber | ASTM D2000 - Neoprene | |
| 24 | Seat Ring | Bronze | ASTM B584 | |
| 25 | Seat Ring O-Ring | Rubber | ASTM D2000 Buna N | |
| 31 | Oil Screw | Brass | ASTM B36 | |
| 38 | Barrel Flange Gasket | Rubber | ASTM D2000 - BUNA N | |
| 39 | Shoe Bolt and Nut | Steel | ASTM A307 Plated | |
| 42 | O-ring | Rubber | ASTM D2000 - BUNA N | |
| 44 | Valve Nut Washer (not shown) | Stainless Steel | ASTM A276 | |
| 45 | Valve Nut Seal -not shown | Rubber | ASTM D2000 - BUNA N | |
| 46 | Nozzle Lock | Stainless Steel | ASTM A276 | |
| 47 | Upper Barrel | Cast Iron | ASTM A126 CL.B | |
| 48 | Flush Box | Cast Iron | ASTM A126 CL.B | |
| 49 | Flush Box Lid (non-locking) | Cast Iron | ASTM A126 CL.B | |
| 50 | Cap Screw | Steel | SAE J429 Gr. 2 | |
| 51 | Stem | Steel | ASTM A576 GR.B | |
| 52 | Lower Barrel | Cast Iron | ASTM A126 CL.B | |



* Includes items #14 and #16. For pre-1986 models

** on pre1986 models; 1986 models and newer use numbers 43, 44, and 45



A-313 wrench - operates nozzle caps, pin and lug type hose couplings, hydrant operating nut and hold down nut.



A-344 Seat wrench - Adjustable, used to remove main valve and seat ring from ground line level.



A-316 Nozzle wrench - Used to remove and install threaded in hose and pumper nozzles.



A-317 Nozzle lock installation tool - Used to install nozzle locking device.



Rev. 8-04 Shaded area indicates changes

When ordering Fire Hydrants, specify the following:

1. Quantity

If more than one size, quantity of each.

- 2. Size of main valve opening
- 3. Catalog number of Fire Hydrant

4. Nozzle arrangement

The catalog number indicates the normal arrangements of hose and pumper nozzles. If a different arrangement is desired, specify the size and number of hose and pumper nozzles required.

5. Depth of trench or bury

Distance from ground line to bottom of connecting pipe. "Trench" and "ditch" are the same as "bury". "Cover" is the distance from the ground to the top of the connecting pipe.

6. Size of inlet connection

7. Type of inlet connection

8. Size and shape of operating nut

National Standard is 1-1/2" pentagon, measured from point to opposite flat. Square and hexagon or other sizes of pentagon can also be furnished. Size is determined by measuring from flat to opposite flat on square and hexagon, and from point to opposite flat on pentagon. Measurements must be taken at base of nut.

9. Direction of opening

Open left (counter-clockwise) or open right (clockwise).

10. Hose nozzle threading

Send a sample of the male coupling on hydrant nozzle to show threads desired, **EXCEPT** in the following cases(a) if using National Standard, specify accordingly (b) if we have previously furnished hydrants to the same location and there is no change (complete records are kept on file in our Engineering Department for reference).

11. Pumper nozzle threading

Same instructions as 10 above.

12. Color

Unless otherwise specified, the hydrant will be enameled above ground with fire hydrant red. When so ordered, we will enamel any color (or colors) specified to match your existing standards.

When ordering parts, specify the following:

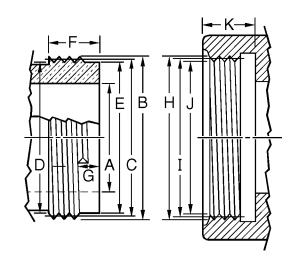
1. Year date shown on hydrant barrel

- 2. Part number and name
- 3. Size and catalog number of hydrant
- 4. Direction of opening
- 5. Depth of bury
- 6. Bonnet markings
- 7. Type of inlet connection
- 8. Nozzle specifications (see steps 10 and 11 above)

Contact your Mueller Distributor or Mueller Customer Service Center for repair parts for discontinued Mueller Fire Hydrants.

National Standard hose coupling thread specifications

| A. Nominal inside diameter of nozzle | | 2-1/2" | 3" | 3-1/2" | 4" | 4-1/2" |
|--------------------------------------|------|--------|---------|---------|---------|---------|
| Number of threads per inch | | 7-1/2 | 6 | 6 | 4 | 4 |
| D. Major diameter parala thread | Max. | 3.0686 | 3.6239 | 4.2439 | 5.0109 | 5.7609 |
| B. Major diameter nozzle thread | Min. | 3.0366 | 3.5879 | 4.3079 | 4.9609 | 5.7109 |
| C. Pitch diameter nozzle thread | Max. | 2.9820 | 3.5156 | 4.1356 | 4.8485 | 5.5985 |
| | Min. | 2.9660 | 3.4976 | 4.1176 | 4.8235 | 5.5735 |
| D. Minor diameter nozzle thread | Max. | 2.8954 | 3.4073 | 4.0273 | 4.6861 | 5.4361 |
| E. Diameter pilot nozzle | | 2.850 | 3.354 | 3.973 | 4.610 | 5.357 |
| F. Length of thread-nozzle* | | 1" | 1-1/8" | 1-1/8" | 1-1/4" | 1-1/4" |
| G. Face to start of second turn | | 1/4" | 5/16" | 5/16" | 7/16" | 7/16" |
| H. Major diameter coupling thread | Min. | 3.0836 | 3.6389 | 4.2639 | 5.0359 | 5.7859 |
| L Ditch diameter equaling thread | Max. | 3.0130 | 3.5486 | 4.1736 | 4.8985 | 5.6485 |
| I. Pitch diameter coupling thread | Min. | 2.9970 | 3.5306 | 4.1556 | 4.8735 | 5.6235 |
| I Minor diameter coupling thread | Max. | 2.9424 | 3.4583 | 4.0833 | 4.7611 | 5.5111 |
| J. Minor diameter coupling thread | Min. | 2.9104 | 3.4223 | 4.0473 | 4.7111 | 5.4611 |
| K. Depth of coupling | | 15/16" | 1-1/16" | 1-1/16" | 1-3/16" | 1-3/16" |



* Manufacturers standard

NOTE: All dimensions are in inches and all dimensional data and tolerances are in accord with ANSI B26.

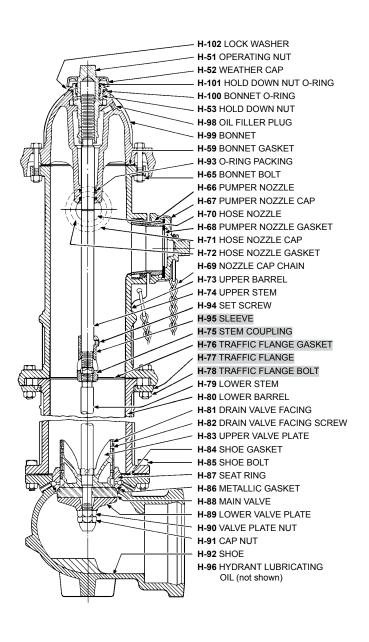
MUELLER® IMPROVED® FIRE HYDRANT PARTS

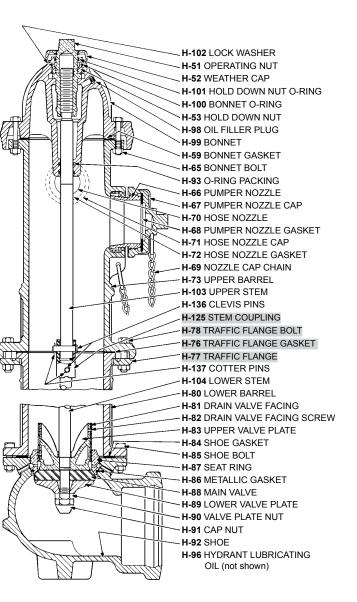
Mueller Co.

9.29

HYDRANT WITH BRASS STEM COUPLING







W



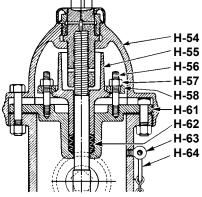
MUELLER® IMPROVED FIRE HYDRANT BONNET PARTS

Rev. 9-09 Shaded area indicates changes

1934 THROUGH 1947

Bonnet section of hydrant with conventional packing and without oil filler plug in bonnet. All other parts same as on previous page.

Appearance same as 1948 through 1953 with filler plug. If nozzle chains are attached to eyebolt, bonnet is this style. Packing is conventional.

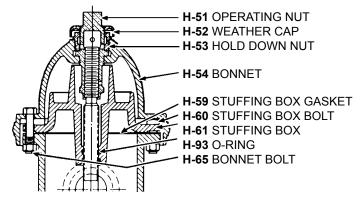


H-54 BONNET H-55 PACKING GLAND H-56 STUFFING BOX STUD H-57 STUFFING BOX STUD NUT H-58 PACKING GLAND FOLLOWER H-61 STUFFING BOX PLATE H-62 STEM PACKING H-63 CHAIN EYE BOLT H-64 CHAIN "S" HOOK

1948 THROUGH 1953

Bonnet section with O-ring seals and without oil filler plug in bonnet. All other parts same as drawing on previous page. Year date is marked on side of barrel.

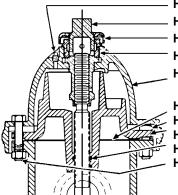
No oil filler plug. Nozzle chains are attached below each nozzle. O-rings now used in place of conventional packing.



1954 THROUGH 1961

Bonnet section with O-ring seals and oil filler plug in bonnet. All other parts same as drawing on previous page. Year date is marked on side of barrel.

Oil reservoir changed in shape to allow addition of oil without disturbing bonnet. Oil filter plug in vertical position.

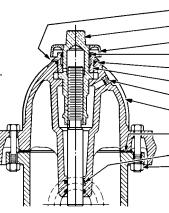


H-98 OIL FILLER PLUG H-51 OPERATING NUT H-52 WEATHER CAP H-53 HOLD DOWN NUT H-54 BONNET

H-59 STUFFING BOX GASKET H-60 STUFFING BOX BOLT H-61 STUFFING BOX H-93 O-RING H-65 BONNET BOLT

HYDRANT WITH SEALED OIL RESERVOIR - 1962 STYLE

Hydrant bonnet is marked SR on top of flange. Oil filler plug is set on an angle. Lock washer was added in 1965. Year date is marked on side of barrel.

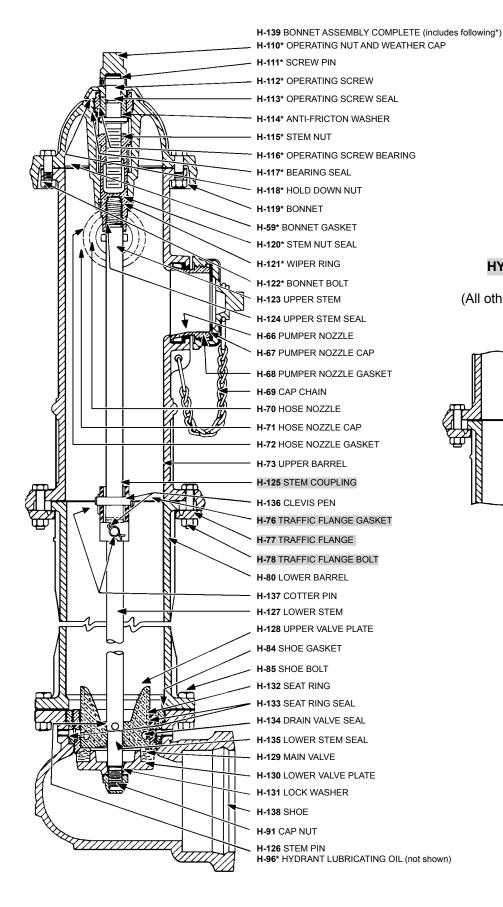


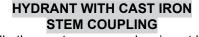
H-102 LOCK WASHER H-51 OPERATING NUT H-52 WEATHER CAP H-101 HOLD DOWN NUT O-RING H-100 BONNET O-RING H-53 HOLD DOWN NUT H-98 OIL FILLER PLUG H-99 BONNET H-59 BONNET GASKET

H-93 O-RING PACKING H-65 BONNET BOLT

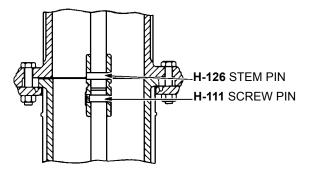
MUELLER® 107® FIRE HYDRANT PARTS







(All other parts same as drawing at left)

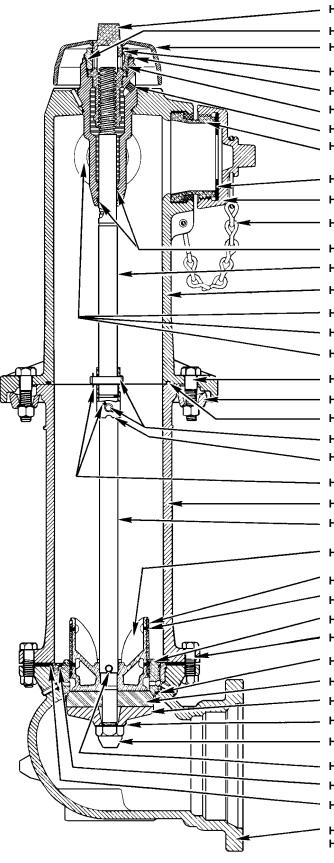


9.32



MUELLER[®] MODERN IMPROVED[®] FIRE HYDRANT PARTS

Rev. 9-09 Shaded area indicates changes



H-51 OPERATING NUT H-100 HOUSING O-RING H-201 WEATHER CAP H-101 HOLD DOWN NUT O-RING H-203 LOCK WASHER H-202 HOLD DOWN NUT H-98 OIL FILLER PLUG H-66 PUMPER NOZZLE H-69 PUMPER NOZZLE GASKET H-207 PUMPER NOZZLE CAP H-69 CAP CHAIN H-93 STEM O-RINGS H-206 UPPER STEM H-204 UPPER BARREL H-70 HOSE NOZZLE H-72 HOSE NOZZLE GASKET H-205 HOSE NOZZLE CAP H-209 TRAFFIC FLANGE BOLT AND NUT H-210 TRAFFIC FLANGE CLIP H-208 UPPER BARREL SEAL H-136 CLEVIS PINS H-125 STEM COUPLING H-137 COTTER PINS H-80 LOWER BARREL H-211 LOWER STEM H-212 UPPER VALVE PLATE H-81 DRAIN VALVE FACING H-82 DRAIN VALVE FACING SCREW H-213 SEAT RING H-85 SHOE BOLT AND NUT H-215 SEAT RING SEAL H-88 MAIN VALVE H-89 LOWER VALVE PLATE H-131 LOCK WASHER H-91 STEM PIN H-216 SEAT RING O-RING SEAL H-217 SHOE GASKET H-84 CAP NUT H-214 SHOE

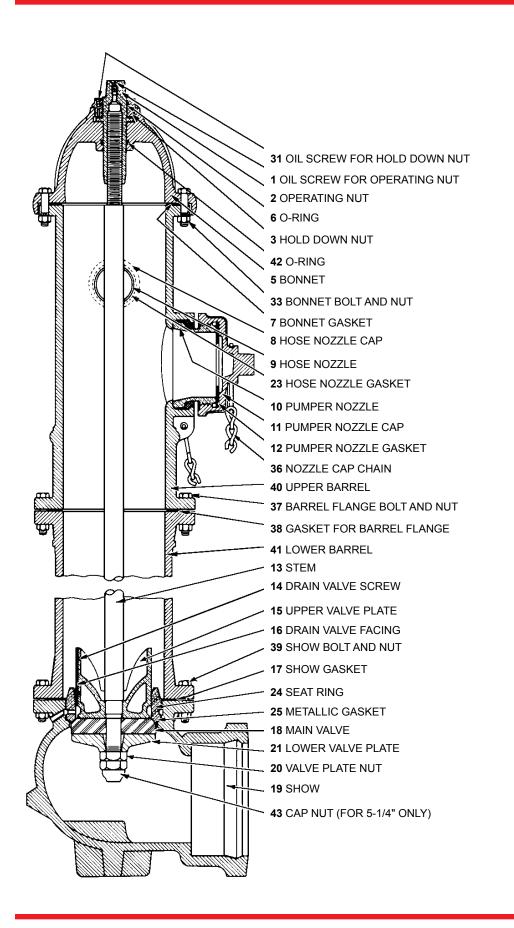
H-96* HYDRANT LUBRICATING OIL (not shown)

MUELLER® STANDARD FIRE HYDRANT PARTS

Mueller Co.

9.33

Shaded area indicates change Rev. 9-09





Rev. 9-09 Shaded area indicates changes

Mueller HI-FLO Wet Barrel Fire Hydrant

| Catalog Part Number | Description | Material | Material Standard |
|---------------------|--------------------------|----------------|-------------------|
| 1 | Pumper Nozzle Cap Gasket | Rubber | ASTM D2000 |
| 2 | Pumper Nozzle O-ring | Rubber | ASTM D2000 |
| 3 | Cotter Pin | Silicon Bronze | - |
| 4 | Anti-friction Washer | Celcon | - |
| 5 | Seat Washer | Rubber | ASTM D2000 |
| 6 | O-ring | Rubber | ASTM D2000 |
| 7 | Stem | Bronze | ASTM B584 |
| 8 | Stuffing Box O-ring | Rubber | ASTM D2000 |
| 9 | Stuffing Box | Bronze | ASTM B584 |
| 10 | Barrel O-ring | Rubber | ASTM D2000 |
| 11 | Hose Nozzle Cap Gasket | Rubber | ASTM D2000 |
| 12 | Hose Nozzle O-ring | Rubber | ASTM D2000 |
| 13 | Cotter Pin | Silicon Bronze | Silicon Bronze |
| 14 | Anti-friction Washer | Celcon | - |
| 15 | Seat Washer | Rubber | ASTM D2000 |
| 16 | O-ring | Rubber | ASTM D2000 |
| 17 | Stem | Bronze | ASTM B584 |
| 18 | Stuffing Box O-ring | Rubber | ASTM D2000 |
| 19 | Stuffing Box | Bronze | ASTM B584 |
| 20 | Barrel O-ring | Rubber | ASTM D2000 |
| 21 | Retaining Ring | Steel | - |
| - | Rivet (not shown) | Copper | - |

