



STYLE 129 FIRE HYDRANT



- Time Tested
- Proven Service
- Reliable Performance



Approved

PROUDLY



MADE IN ANNISTON, ALABAMA
USA

The M&H 129

Yesterday, Today & Tomorrow

For over 60 years the M&H 129 hydrant has been produced to protect property and lives.

Hydrants Produced in the 1930's are still able to be retrofitted with production parts built today.

Now, every modern hydrant feature is available on the 129 and we can retrofit to 60 year old hydrants.

M&H has kept the user in mind—continuously upgrading, while maintaining parts interchangeability, minimizing inventory and maximizing service life.

For the integrity of your system, specify M&H 129 fire hydrants with the assurance that our past reliability will continue into the future...all compatible.

Further evidence of the 129 unquestionable superiority is attested by its 5 year limited warranty protection on materials and workmanship.

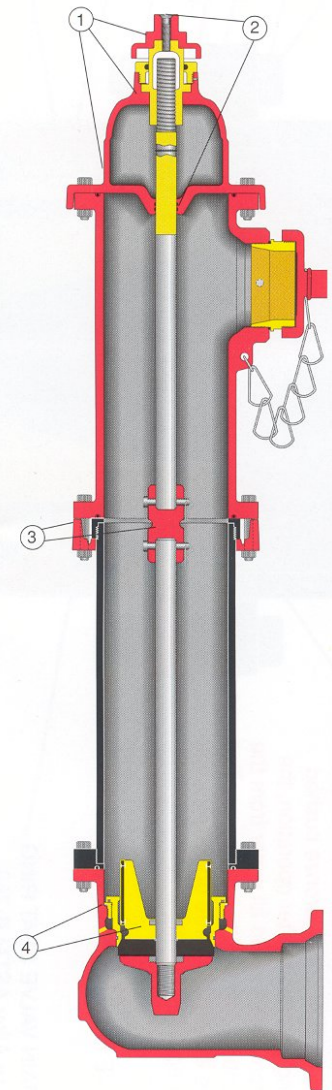
Features and Benefits

1 **BONNET DESIGN** is a single unit component with integral lubrication chamber completely isolating stem threads from any dirt or moisture. The one-piece operating nut/weathershield discourages tampering and repels outside weather elements that cause operating problems. A nylon thrust bearing maintains low operating torques effectively throughout hydrant life.

2 **DUAL LUBRICATION** is a user option afforded by the 129 for selection of either grease or oil as operating mechanism lubricant. Standard factory procedure is to lubricate with grease. Oil is easily substituted in field by removing operating nut/weathershield bolt and add oil through bolt hole into reservoir. Either lubricant is contained in the chamber by two O-ring seals and water cannot enter when hydrant is operating under pressure.

3 **VEHICLE IMPACT** protection is afforded by a split safety flange connection at ground line. In the event of a traffic accident, the safety flange breaks and the stem safety coupling separates allowing the above ground hydrant assembly to fall away cleanly from the standpipe flange without any damage to operating components. The 129 can also be rotated 360 for more desirable curb alignment of the nozzle outlets by simply loosening the safety flange bolts and turning the nozzle section.

4 The 4-1/2" or 5-1/2" main valve opening assures high flow capacity. The compression type main valve opens against water pressure and is held shut by this pressure during repair or maintenance. Two drain valves provides quick drainage of the hydrant standpipe following closure of the hydrant. Those drains are self-flushing with each cycle of the main valve. A bronze-to-bronze seat retainer insures easy removal of the main valve should maintenance or repair be required. This is accomplished with a short disassembly wrench.





Style 129 Fire Hydrant

Yesterday, Today & Tomorrow

AWWA C502



1) WEATHER SHIELD

Cast Iron ASTM A-126, Class B
One-piece component deflects moisture and dust exposure to bronze operating nut. Affords protection against freezing conditions ensuring operational efficiency.

3) OPERATING NUT

Bronze Alloy CDA 84400, ASTM B-584

4) HOLD DOWN NUT "O" RING

N.B.R.

8) BONNET

Cast Iron ASTM A-126, Class B
Single unit design includes reservoir for oil lubrication as option to factory applied grease on operating threads. Two O-ring seals at penetration point of operating stem prevent lubricant leakage and exclude water entry of chamber when hydrant is pressurized.

Flange ring gives finished appearance at bonnet/nozzle section flange and prevents dirt build-up between flanges. Flange connection sealed with heavy O-ring.

9) BRONZE STEM SLEEVE "O" RING

N.B.R.

10) BRONZE STEM SLEEVE

Brass Tubing, ASTM B-125 Alloy C22000

13) BONNET NUTS 1/2-13 (6)

Electro Zinc Plated Steel

14) LOWER BONNET STEM "O" RINGS (2)

N.B.R.

11) UPPER ROD/STEM ASSEMBLY

Steel C1117 HFS w/BRZ Stem Sleeve
High strength steel stem has rugged acme threads at top end to match threads in bronze operating nut. Brass stem sleeve is machine fitted on segment that penetrates oil reservoir providing smooth, non-corrodible bearing surface for double O-ring seals. O-ring insert between sleeve and stem provides additional leakage protection.

29) SAFETY STEM COUPLING/BREAK COUPLING

Cast Iron ASTM A-126, Class B
Designed to break from collision without damage to main valve or lower rod. Bottom half of coupling is square and accepts short disassembly wrench.

35) STAND PIPE UPPER FLANGE

Ductile Iron

30) CLEVIS PIN 3/8 x 2 1/2 (2)

410 Stainless Steel

36) STAND PIPE

Ductile Iron Pipe
Fabricated for exceptional strength and support of below ground unit.

43) UPPER DRAIN VALVE/UPPER VALVE PLATE/MAIN VALVE TOP PLATE

Aluminum-Bronze Alloy ASTM B-763
Includes two rubber faced bronze drain valves and provides positive closure of two bronze bushed drain ports during operation. After operation, the drain valves automatically drain all water from the standpipe preventing cold weather freeze-up. Drain ports are purged during first three operating turns on opening and again on closing.

45) DRAIN VALVE FACINGS RIVETS

Marine Grade Aluminum

51) BRONZE MAIN VALVE SEAT RING

Aluminum-Bronze Alloy ASTM B-763
Contoured for smooth flow and low pressure drop.

52) VALVE MAIN SEAT RING UPPER "O" RING

N.B.R.

42) DRAIN HOLE BUSHINGS

Bronze ASTM B-135

Annular Drain exhausts water through two brass lined ports on either side of shoe. Drain area is corrosion-free.

53) VALVE MAIN SEAT RING LOWER "O" RING

N.B.R.

48) MAIN VALVE RUBBER SEAT

S.B.R.

Compression designed, opens against system pressure. Pressure against main valve assembly helps keep valve tight even if nozzle section is separated at ground-line flange.

49) LOWER VALVE PLATE LOCKWASHER

18-8 Stainless Steel

Designed to secure bottom plate to valve assembly.

500 lbs. hydrostatic test pressure

250 lbs. work pressure

Many design and material improvements have been made to the current Style 129 Fire Hydrant. In no case have any changes sacrificed interchangeability.

2) LUBRICATION PLUG BOLT 1/2-13x2

Electro Zinc Plated Steel
Firmly attaches operating nut/weather shield unit to bronze operating nut and is tamper resistant. Plug is easily removed for field servicing or maintenance.

5) HOLD DOWN NUT

Bronze Alloy CDA 84400, ASTM B-584

Non-corrodible bronze nut secures stem nut for operating thrusts. Hold down nut provides additional weather protection with threading attachment to bonnet and large O-ring seal.

6) HOLD DOWN NUT SET SCREW

18-8 Stainless Steel

Drilled and tapped hole in nozzle with stainless steel set screw. Secures hold down nut to bonnet.

7) THRUST WASHER

Nylon

Nylon antifriction bearing at thrust collar reduces operating torque for smoother open/close cycles.

12) BONNET BOLTS 1/2-13 x 2 1/4 (6)

Electro Zinc Plated Steel

15) NOZZLE/STAND PIPE "O" RINGS

N.B.R.

Superior sealing quality of O-rings used on all standpipe flange joints.

16-17) HOSE/PUMPER NOZZLE CAP

Cast Iron ASTM A-126, Class B

Hose and pumper nozzle are machine threaded into C.I. nozzle outlets, an original M&H design. They are easily removed for field replacement.

18-19) HOSE/PUMPER NOZZLE CAP GASKET

Rubber ASTM D2000

20-21) HOSE/PUMPER NOZZLE SET SCREW

18-8 Stainless Steel

Drilled and tapped hole in nozzle with stainless steel set screw. Prevents turning of brass during hose coupling attachment or removal.

22-23) HOSE/PUMPER NOZZLE

Bronze Alloy CDA 84400, ASTM B-584

24-25) HOSE/PUMPER NOZZLE "O" RING

N.B.R.

28) NOZZLE CAP CHAINS

Electro Zinc Plated Steel

27) "S" HOOK

Electro Zinc Plated Steel

26) NOZZLE SECTION

Cast Iron ASTM A-126, Class B

Molded from durable cast iron and available with either two hose and one pumper nozzle or two hose nozzles. Above ground hydrant assembly may be rotated full 360° on the standpipe flange to improve alignment to curb. Simply loosen flange bolts, rotate and retighten.

32) SAFETY FLANGE BOLTS 5/8-11 x 4 (8)

Electro Zinc Plated Steel

34) SAFETY FLANGE (2 HALVES)

Cast Iron ASTM A-126, Class B

Upon vehicular impact, lower safety flange ring fractures to allow above ground hydrant assembly to separate cleanly from standpipe without damage to internal parts or loss of water. Repair is easily accomplished with economical field repair kit.

33) SAFETY FLANGE NUTS 5/8-11 (8)

Electro Zinc Plated Steel

31) RETAINING CLIP (2)

C1038 Electro Zinc Plated Steel

37) LOWER ROD/LOWER STEM

STEEL C1117 HFS

44) DRAIN VALVE FACINGS (2)

EPDM

39) SHOE BOLTS 5/8-11 x 3 1/2 (8)

304 Stainless Steel

38) STAND PIPE LOWER FLANGE

Ductile Iron

40) SHOE BOLTS NUTS 5/8-11 (8)

304 Stainless Steel

54) SHOE/SEAT RETAINER RING

Bronze Alloy CDA 8440, ASTM B-584

Permanently affixed shoe and O-ring sealed. Provides bronze to bronze interface for main valve seat as standard.

55) SHOE RETAINER RING "O" RING

N.B.R.

46) LOWER STEM PIN 1/2 x 1 3/4

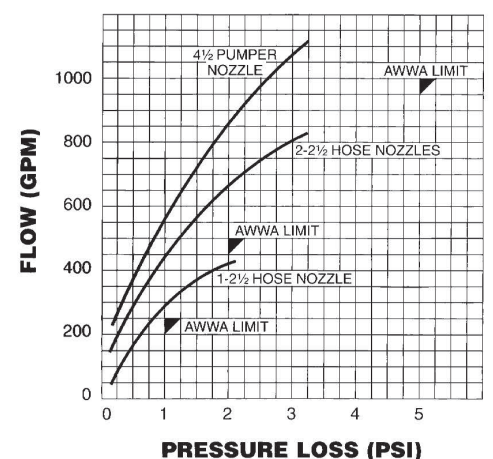
18-8 Stainless Steel

47) LOWER STEM "O" RING SEAL

N.B.R.

41) HYDRANT SHOE ELBOW

Ductile Iron ASTM A-536, Grade 70-50-5
Fusion bonded epoxy coating inside and out. Meets AWWA C550 standards. Flange or mechanical joint shoes available.



M&H VALVE COMPANY

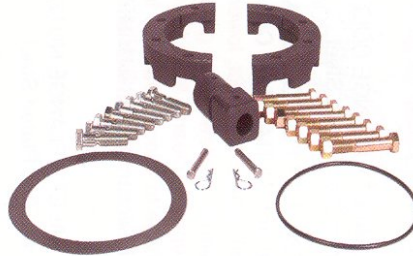
A DIVISION OF MCWANE, INC.
Anniston, Alabama
www.mh-valve.com
2010

ACCESSORIES/ORDERING



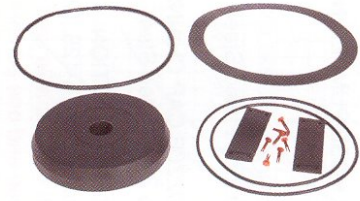
EXTENSION KIT

Conveniently packaged including all necessary parts to raise hydrant in any increment of 6". Specify if hydrant size is 4-1/2" or 5-1/4".



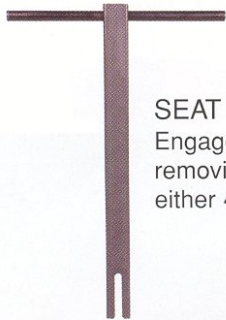
TRAFFIC REPAIR KIT

Available for 4-1/2" or 5-1/4" hydrant and packaged with all components needed to restore hydrant to service following collision.



MAIN VALVE REPAIR KIT

Available for 4-1/2" or 5-1/4" hydrant and packaged with all components needed to repair damaged valve assembly.



SEAT NOZZLE WRENCH
Engages stem drive pin for removing main valve seat. Fits either 4-1/2" or 5-1/4" hydrants.



HOLD DOWN NUT WRENCH



HOSE NOZZLE WRENCH



PUMPER NOZZLE WRENCH
Slots engage drive lugs in nozzle I.D. for removal. Threads are left hand. Specify nozzle size if other than National Standard.

How To Order

1 Model: M&H Style 129. 4-1/2" or 5-1/4" valve opening. Traffic Model AWWA C-502 hydrant. Equipped with two 2-1/2" outlets and one 4-1/2" pumper outlet or two 2-1/2" outlets.

2 Hose and Pumper Nozzle Threading: National Standard Specifications

(As adopted by Nation Board of Fire Underwriters)
Hose Nozzle: 2-1/2" - Threads, 3-1/16" O.D.
7-1/2 threads per inch.
Pumper Nozzle: 4-1/2" - Threads, 5-3/4" O.D.
4 threads per inch.
Operating Nut: Pentagon - 1-1/2" point to flat.
Direction of Opening: Left (counter-clockwise)

If other than NST, specify standard by description or send male coupling from discarded section to hose. Do not send hydrant cap.

3 Size and Type of Shoe Connection: 6" Mechanical Joint, Flanged.

4 Size and Shape of Operating Nut: If other than National Standard pentagon measuring 1-1-2" Point to Flat, give dimension measuring point to flat for pentagon and across center from flat to flat for square and hexagon nuts.

5 Direction of Opening: Specify left (counter-clockwise) or right (clockwise). If not specified, open left will be provided.

6 Depth of Trench: Distance from ground line to bottom of connecting pipe. "Trench" and "Ditch" are the same as "Bury". "Cover" is distance from ground line to top of connecting pipe.

7 Color: Unless otherwise specified, final paint coat will be fire Hydrant Red.



M&H VALVE COMPANY

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GENERAL FEATURES / GENERAL SPEC

M&H AWWA C502 FIRE HYDRANTS

- ◆ Model 129
- ◆ Traffic Model
- ◆ 250 PSI Working Pressure – 500 PSI Hydrostatic Test – AWWA
- ◆ UL / FM Approved



Type: Compression type, opening against line pressure. Main valve will remain closed should hydrant be broken off by traffic accident.

Classification and Size: Hydrants are classified by the main valve size, number and size of hose and pumper nozzles. Hydrant sizes are designated as 4 ½ and 5 ¼ inches, size being the inside diameter of the main valve seat opening.

Length: Hydrant lengths are determined by depth of trench below ground level. Lengths are in multiples of six inches.

Barrel: Upper section of barrel (nozzle section) contains the hose and pumper nozzles. The water way is uniform in diameter for entire length of barrel.

Hydrant Inlet: Hydrant shoe or elbow is provided with flange or mechanical joint connection to fit connecting pipe. All shoe types except flanged are provided with lugs for strapping. The two drain openings in the hydrant shoe are bronze bushed. All shoes are protected from corrosion with fusion bonded epoxy coating.

Hose and Pumper Nozzles: Threaded with fine thread and screwed (no quarter turns) into tapped openings in nozzle section of hydrant. Hose and pumper nozzle caps are provided with rubber gaskets and chained to nozzle section.

Dry Top: Operating threads are isolated from the waterway by a double O-ring seal in the one piece bonnet. Operating nut has lubricating hole for lubrication of operating threads and thrust bearing.

Dry Barrel: When the valve of the hydrant is closed, two drain valves in the hydrant shoe automatically open and allow rapid and complete drainage of the hydrant barrel. This dry barrel eliminates danger of damage to the hydrant by freezing.

Operating Mechanism and Working Parts: A tamper resistant cast iron weather shield protects the operating mechanism and rubber O-ring seals from environmental elements and painting solvents. The bronze operating nut drives a steel main valve rod, which is bronze sheathed where it passes through the one-piece bonnet. A bronze-to-bronze seat assembly allow for all working parts to be easily removable through the top of the hydrant without excavating. The bronze seat ring threads into a bronze retainer ring bushing, which is permanently affixed into the shoe. The dual positive acting drain valve is constructed of a high strength aluminum bronze to provide additional strength for operation and disassembly. The rubber drain valve facings are water pressure activated and effectively eliminate the drain valve as a maintenance issue.

Component Materials: All gray iron parts conform to ASTM A-126, Class B. Ductile Iron components conform to ASTM A536. All non-corrosive metal parts are made of copper alloys conforming to AWWA Standard C502 requirements. Remaining components are performance selected from some of the highest quality materials available today.

Shop Tests: Main valve tested from inlet side to 250psi. With main valve open, drain valve and entire hydrant, hydrant hydrostatic pressure tested to 500psi.

FEATURES AND BENEFITS

M&H AWWA C502 MODEL 129 FIRE HYDRANTS

YESTERDAY, TODAY, AND TOMORROW---An American Company with an American made product. M&H has been around since 1854 and have been producing hydrants since 1929. We back up our M&H 129 Fire Hydrants with a 10 Year Limited Warranty.

(1) WEATHER SHIELD---One-piece cast iron component deflects moisture and dust exposure to bronze stem nut. Affords protection against freezing conditions ensuring operational efficiency. Protects bronze operating nut from pipe wrench damage commonly seen on all bronze actuated hydrants.

(2) LUBRICATION PLUG BOLT---Firmly attaches operating nut / weather shield unit to bronze stem nut. Bolt fits flush with top of weather shield causing it to be tamper resistant. Using Allen wrench, plug is easily removed for field servicing or maintenance.

(3) BRONZE OPERATING NUT---Primary operating component. Is a heavy duty design. Ample amounts of brass along the throat of nut.

(4 & 5) HOLD DOWN NUT---Non-corrodible bronze nut secures stem nut for operating thrusts. Lock nut provides additional weather protection with threading attachment to bonnet and large O-ring seal.

(6) HOLD DOWN NUT SET SCREW
Stainless Steel set screw keeps hold down nut from backing out during operation. Is removed / re-installed with Allen wrench.

(7) NYLON THRUST WASHER---Nylon antifriction bearing at thrust collar reduces operating torque up to 40% for smoother open / close cycles. Standard on 5 1/4" hydrants

(8, 14, & 15) BONNET DESIGN / HYDRANT DUAL LUBRICATION
With the single unit design, an M&H 129 Fire Hydrant customer is afforded the option of using either grease or oil as an operating mechanism lubricant. Standard factory procedure is to lubricate with grease. Oil is easily substituted in field by removing lubrication plug bolt. Two O-ring seals in bonnet prevents pressurized water from entering and lubricant from escaping into the hydrant. Bonnet flange ring gives finished appearance at bonnet / nozzle section flange. Prevents dirt build-up between flanges. Hidden flange connection sealed with heavy O-ring.

(11) UPPER STEM ASSEMBLY---High strength steel stem has rugged acme threads at top end to match threads in bronze stem nut. Brass stem sleeve is machined fitted on segment that penetrates grease / oil reservoir providing smooth, non-corrodible bearing surface for double O-ring seals. O-ring inset between sleeve and stem provides additional leakage protection.

(22, 23, 24, & 25) BRASS NOZZLES / NOZZLE O-RINGS---Hose and pumper nozzles are machine threaded into nozzle outlets, an original M&H design. They are easily removed for field replacement. Nozzle leak protection afforded by O-ring behind each nozzle.

(20 & 21) NOZZLE SET SCREWS---Nozzles are firmly set into place by stainless steel set screw. Prevents turning of nozzle during hose coupling attachment or removal. If nozzles ever need to be replaced, setscrew can be removed using standard Allen wrench.

(26) NOZZLE SECTION---Molded from durable cast iron and available with either two hose and one pumper nozzle or two hose nozzles. Has generous cross-sectional area and smoothly contoured hose outlets to deliver maximum available flow. Entire nozzle section coated with a fusion bonded polyester

(26) NOZZLE SECTION 360 ROTATION / ALIGNMENT--- Above ground hydrant assembly may be rotated full 360 degrees on the standpipe flange to improve alignment to curb. This is accomplished without dismantling. Simply loosen flange bolts, rotate and re-tighten.

(34) TRAFFIC IMPACT PROTECTION---Upon vehicular impact, two lower safety flange rings fracture and stem couple separates below break line. This allows the above ground hydrant assembly to separate cleanly from standpipe and keeps accidental opening of hydrant from vehicle tire. Repair is easily accomplished with economical field repair kit.

(15) O-RING SEALS---Heavy Duty O-Rings provides superior sealing contact between standpipe flange joints. O-ring at break joint makes hydrant rotation easier than traditional flat gaskets.

(29) TRAFFIC STEM COUPLING---Designed to break from collision without damage to main valve or rod assembly. Bottom half of coupling is square and accepts short disassembly wrench. Square design provides a direct drive area below break area for main valve seat removal and maintenance.

(36) DUCTILE IRON STANDPIPE---Fabricated for exceptional strength and support below grade.

HYDRANT EXTENSIONS---M&H 129 Fire Hydrants may be lengthened where ground level is being raised without digging up hydrant or requiring complete new barrel. Simply add an M&H hydrant extension available in 6" increments to the existing standpipe.

(43, 44, & 45) UPPER DRAIN VALVE---Made of high strength aluminum-bronze alloy Includes double drains with rubber facings. Design provides positive closure of two bronze-bushed drain ports during operation. After operation, the drain valve quickly drains all water from the standpipe preventing cold weather freeze-up. Drain ports are purged during first three operating turns on opening and again on closing.

(51) BRONZE MAIN VALVE SEAT RING---Generous amount of material and contoured design provide smooth flow and low-pressure drop.

(54) BRONZE SHOE RETAINER RING---Permanently affixed to hydrant shoe with O-ring seal. Shoe Retainer Ring provides a bronze-to-bronze interface with the Main Valve Seat Ring for years for easy seat disassembly.

(41) HYDRANT SHOE / ELBOW---Ductile iron hydrant shoe designed to provide smooth, even flow around valve assembly assuring highest possible flow through main valve. Coated internal and externally with fusion bonded epoxy that meets AWWA C550 standards. Provides corrosion resistance to water or soil. Mechanical Joint shoes come standard with strapping lugs for restraining hydrant shoe to pipeline.

(49 & 50) LOCK WASHER / BOTTOM PLATE---Bottom plate is single component made from cast iron. Bottom plate compresses lock washer and rubber seat against top plate and securely attaches valve assembly to lower operating stem. Bottom plate is coated with same fusion bonded epoxy applied to shoe.

PARTS INTERCHANGABILITY---Several design and material improvements have been made to the current Style 129 Fire Hydrant. In no case have any changes sacrificed interchangeability. Parts produced today will work on M&H hydrants produced since 1929.

VALVE DISASSEMBLY---Disassembly of internal valve is achieved with the use of a Short Disassembly Wrench that engages the square end of our traffic coupling. No large removal wrench needed.

VALVE OPENING SELECTION---We offer the choice between a 4 1/2" and 5 1/4" valve opening on our 129 fire hydrants.

APPROVALS---M&H 129 Fire Hydrants meet or exceed AWWA C502. Underwriters Laboratory and Factory Mutual approvals.

TESTING---M&H 129 Fire Hydrants are individually seat tested at 250 psi followed by a 500 psi shell test to assure material and seal quality.

SUGGESTED SPECIFICATIONS (1 of 2)

M&H AWWA C502 FIRE HYDRANTS

- ◆ Model 129
- ◆ Traffic Model
- ◆ 250 PSI Working Pressure – 500 PSI Hydrostatic Test - AWWA
- ◆ UL / FM Approved

GENERAL

Fire hydrants shall comply in all respects with AWWA Standard C-502, latest revision. Fire hydrants shall be of the compression type, with the main valve opening against the pressure and closing with the pressure. The main valve opening shall be (4 ½” or 5 ¼”) in diameter. Fire Hydrant shall be of a dry barrel, dry top design. The nozzle section shall consist of two (2) hose nozzles and one (1) pumper nozzle or other as specified.

RATING

Fire hydrants shall be rated at 250 psi water working pressure, tested at 500 pounds hydrostatic for structural soundness in the following manner: 500 pound hydrostatic test supplied from the inlet side, first with the main valve closed for the testing of the valve seat: second, with the main valve open for testing of the drain valves and the hydrant barrel. Testing to be complete in accordance with AWWA C-502 and UL & FM requirements.

END

CONFIGURATION

Hydrants shall be connected to the main by a 4” or 6” fusion bonded, epoxy coated mechanical joint or flanged shoe. Mechanical joint shoes shall be fitted with strapping lugs.

DESIGN

The main valve seat of the hydrant shall be made of rubber and be supported by a one-piece bronze top plate / drain valve mechanism. Drain valve shall have replaceable rubber facings.

The bottom stem threads of the main valve rod shall be fitted with an epoxy coated, cast iron bottom plate, sealing lower rod threads from the water.

Changes in size or shape of the waterway (hydrant nozzles) shall be accomplished by means of easy curves. Exclusive of the main valve opening, the net area of the waterway of the barrel and the foot piece at the smallest part shall not be less than 120% of that of the net opening of the main valve.

Hose and pumper nozzles shall be threaded and screwed into the nozzle section. And then mechanically locked to prevent turning.

Hose and pumper caps shall be chained to the hydrant

The hydrant shall be so designed that when it is in place, no excavation will be required to remove the main valve and movable parts of the drain valve. Further, the hydrant shall be of the type that can be extended without excavating.

Hydrants shall be so designed that, in the event of accident, or breaking of the hydrant above or near grade level; the main valve will remain closed.

The main valve rod shall be made in two parts and fitted with breakable coupling at the ground line flange.

The ground line connection between nozzle section and the barrel shall incorporate the use of two traffic flange. This connection shall be so designed that the nozzle section can be rotated in any increment of 360°. The ground line connection between the barrel and nozzle sections shall have a rubber o-ring gasket to provide a seal.

The operating threads of the hydrant shall be so designed as to avoid the working of any iron or steel parts against either iron or steel. The operating stem and operating nut threads shall be square or acme type.

SUGGESTED SPECIFICATIONS (2 of 2)

DESIGN

(Continued)

The operating thread shall be lubricated at factory with food grade grease. Access shall be provided to field lubricate the operating mechanism.

The operating thread shall be sealed from water at all times when the valve is either in the opened or closed position. The operating rod shall be bronze sheathed where it passes through the double "O" ring seal in the bonnet.

The bonnet shall be weather proof and utilize a weather shield integral with the external wrench operating nut.

The operating nut shall be made of bronze with a self-lubricating design.

Hydrants shall be of the dry barrel type and hydrant shoe shall have two positive acting non-corrosive drain valves that shall drain the hydrant completely by opening when the main valve is closed, and close tightly in accordance with AWWA C-502 requirements when main valve is open.

The main valve assembly shall be seated in the hydrant with a bronze-to-bronze interface to facilitate removal of the main valve, should maintenance be required. The nozzle section shall consist of two-2 1/2" hose nozzles to the specified thread designation (NST or other, as specified) and one pumper nozzle 4 1/2" in diameter to the specified thread designation (NST or other, as specified), or other combination of nozzle outlets, including independent hose gate valves, as specified.

Two O-ring seals shall be utilized where the main hydrant rod passes through the 1 piece bonnet.

Hydrant standpipe shall be ductile iron and single piece for all bury depths.

All like parts of hydrants of the same size and model produced by the same manufacturer shall be interchangeable.

Hydrant shall open by turning to the (left or right). Direction of opening to be permanently marked on hydrant bonnet.

Threads on hose and steamer nozzles shall be National Standard unless otherwise specified.

Size and shape of operating nuts cap nuts shall conform to National Standard unless otherwise specified.

Bury shall be (specify depth of bury) measuring depth from grade line to bottom of trench or connecting pipe.

Auxiliary shut-off (isolation) gate valves, when required, shall be of the same manufacture as the hydrant.

COATING

Hydrant shoes shall have an interior and exterior thermosetting epoxy coating of 5 to 6 mils meeting AWWA C550. Exterior of hydrant nozzle section shall be Fire Hydrant Red (or as specified).

MARKINGS

Hydrant shall be marked with the name of the manufacturer, size of valve opening, direction of opening and the year of manufacture all in accordance with the AWWA C-502. Country of origin to be cast on all major hydrant castings.

SOURCE

Hydrants shall be M&H Model 129 or approved equal

M&H VALVE COMPANY

Anniston, Alabama

M&H C502 Fire Hydrants

TEN-YEAR LIMITED WARRANTY

M&H Valve Company warrants that its AWWA C502 Fire Hydrant will be free from defects in material and workmanship under normal and customary use and maintenance for a period of ten (10) years from the date of purchase, provided the hydrant is installed and maintained according to M&H instructions, and applicable codes. The foregoing warranty does not cover failure of any part or parts from external forces, including, but not limited to, earthquake, vandalism, vehicular or other impact, application of excessive torque to the operating mechanism or frost heave.

Should any M&H Valve Company part or parts fail to conform to the foregoing warranty, M&H shall, upon prompt written notice thereof, repair or replace, F.O.B. point of manufacture, such defective part or parts. Purchaser shall, if requested, return the part or parts to M&H, transportation prepaid. Purchaser shall bear all responsibility and expense incurred for removal, reinstallation and shipping in connection with any part supplied under the foregoing warranty.

THE FOREGOING WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES NOT EXPRESSLY SET FORTH HEREIN, WHETHER EXPRESS OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS. IN NO EVENT SHALL M&H VALVE COMPANY BE RESPONSIBLE OR LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL LOSSES, DAMAGES, OR EXPENSES.

M&H MODEL 129 FIRE HYDRANT-3 WAY

ITEM#	QTY	DESCRIPTION	MATERIAL
1	1	WEATHER SHIELD	CAST IRON, ASTM A-126, CLASS B
2	1	LUBRICATION PLUG BOLT 1/2-13x2	ELECTRO ZINC PLATED STEEL
3	1	OPERATING NUT	BRONZE ALLOY CDA 84400,ASTM B-584
4	1	HOLD DOWN NUT "O" RING	BUNA-N
5	1	HOLD DOWN NUT	BRONZE ALLOY CDA 84400,ASTM B-584
6	1	HOLD DOWN NUT SET SCREW	18-8 SS, ASTM F-593 GROUP 1
7	**1	THRUST WASHER	NYLON
8	1	BONNET	CAST IRON, ASTM A-126 CLASS B
9	*1	BRONZE STEM SLEEVE "O" RING	BUNA-N
10	*1	BRONZE STEM SLEEVE	230 BRASS TUBING, ASTM B-135
11	1	UPPER ROD/STEM ASSEMBLY	STEEL C1117 HFS w/BRASS STEM SLEEVE
12	6	BONNET BOLTS 1/2-13 x 2 1/4	ELECTRO ZINC PLATED STEEL
13	6	BONNET NUTS 1/2-13	ELECTRO ZINC PLATED STEEL
14	2	LOWER BONNET STEM "O" RINGS	BUNA-N
15	3	NOZZLE/STAND PIPE "O" RINGS	BUNA-N
16	2	HOSE NOZZLE CAP	CAST IRON, ASTM A-126, CLASS B
17	1	PUMPER NOZZLE CAP	CAST IRON, ASTM A-126, CLASS B
18	2	HOSE NOZZLE CAP GASKET	RUBBER ASTM D2000
19	1	PUMPER NOZZLE CAP GASKET	RUBBER ASTM D2000
20	2	HOSE NOZZLE SET SCREW	18-8 SS, ASTM F-593 GROUP 1
21	1	PUMPER NOZZLE SET SCREW	18-8 SS, ASTM F-593 GROUP 1
22	2	HOSE NOZZLE 2 1/2	BRONZE ALLOY CDA 84400,ASTM B-584
23	1	PUMPER NOZZLE 4 1/2	BRONZE ALLOY CDA 84400,ASTM B-584
24	2	HOSE NOZZLE "O" RING	EPDM
25	1	PUMPER NOZZLE "O" RING	EPDM
26	1	NOZZLE SECTION	CAST IRON, ASTM A-126, CLASS B
27	1	"S" HOOK	ELECTRO ZINC PLATED STEEL
28	1	NOZZLE CAP CHAINS	ELECTRO ZINC PLATED STEEL
29	1	SAFETY STEM COUPLING/BREAK COUPLING	CAST IRON, ASTM A126, CLASS B
30	2	CLEVIS PIN 3/8 x 2 1/2	410 STAINLESS STEEL
31	2	RETAINING CLIP	18-8 SS, ASTM F-593 GROUP 1
32	8	SAFETY FLANGE BOLTS 5/8-11 X 4	ELECTRO ZINC PLATED STEEL
33	8	SAFETY FLANGE NUTS 5/8-11	ELECTRO ZINC PLATED STEEL
34	2	SAFETY FLANGE (HALF)	CAST IRON, ASTM A126, CLASS B
35	*1	STAND PIPE UPPER FLANGE	DUCTILE IRON ASTM A-536, GRADE 70-50-5
36	1	STAND PIPE	DUCTILE IRON PIPE
37	1	LOWER ROD / LOWER STEM	STEEL C1117 HFS
38	*1	STAND PIPE LOWER FLANGE	DUCTILE IRON ASTM A-536, GRADE 70-50-5
39	8	SHOE BOLTS 5/8-11 X 3 1/2	304 STAINLESS STEEL
40	8	SHOE BOLT NUTS 5/8-11	304 STAINLESS STEEL
41	1	HYDRANT SHOE/ELBOW	DUCTILE IRON ASTM A-536, GRADE 70-50-5
42	2	DRAIN HOLE BUSHINGS	BRONZE, ASTM B-135
43	1	UPPER DRAIN VALVE/UPPER VALVE PLATE	ALUMINUM-BRONZE ALLOY, ASTM B-763
44	2	DRAIN VALVE FACINGS	EPDM
45	8	DRAIN VALVE FACING RIVETS	ALUMINUM
46	1	LOWER STEM PIN 1/2 X 1 3/4	18-8 STAINLESS STEEL TYPE E
47	1	LOWER STEM "O" RING SEAL	RUBBER
48	1	MAIN VALVE RUBBER/SEAT	BUNA-N
49	1	LOWER VALVE PLATE LOCKWASHER	18-8 STAINLESS STEEL
50	1	LOWER VALVE PLATE/BOTTOM PLATE	CAST IRON, ASTM A-126, CLASS B
51	1	BRONZE MAIN VALVE SEAT RING	ALUMINUM-BRONZE ALLOY ASTM B-763
52	1	MAIN VALVE SEAT RING UPPER "O" RING	BUNA-N
53	1	MAIN VALVE SEAT RING LOWER "O" RING	BUNA-N
54	*1	SHOE RETAINER RING	BRONZE ALLOY CDA 8440, ASTM B-584
55	*1	SHOE RETAINER RING "O"-RING	BUNA-N

* NOT FIELD REPLACEABLE - PERMANENTLY INSTALLED
 ** NOT STANDARD ON 4 1/2" VALVE OPENING

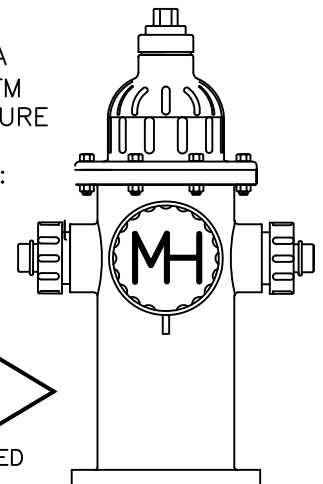
MAIN VALVE SIZES AVAILABLE: 4 1/2" & 5 1/4"

MEETS OR EXCEEDS AWWA C502

250 PSI WORKING PRESSURE AWWA
 200 PSI WORKING PRESSURE UL/FM
 500 PSI HYDROSTATIC TEST PRESSURE

HYDRANT SHOE OUTLETS AVAILABLE:

4" MJ: 4 1/2"
 6" MJ: 4 1/2" & 5 1/4"
 6" FL: 4 1/2" & 5 1/4"



APPROVED



APPROVED

M&H VALVE COMPANY
 ANNISTON, ALABAMA
 A DIVISION OF MCWANE INC.

DWN: TRIJ

DATE: 9/1/12

DWG. NO.

FH-129

M&H MODEL 129 FIRE HYDRANT WITH INTEGRAL STORZ

ITEM#	QTY	DESCRIPTION	MATERIAL
1	1	WEATHER SHIELD	CAST IRON, ASTM A-126, CLASS B
2	1	LUBRICATION PLUG BOLT 1/2-13X2	ELECTRO ZINC PLATED STEEL
3	1	OPERATING NUT	BRONZE ALLOY CDA 84400,ASTM B-584
4	1	HOLD DOWN NUT "O" RING	N.B.R.
5	1	HOLD DOWN NUT	BRONZE ALLOY CDA 84400,ASTM B-584
6	1	HOLD DOWN NUT SET SCREW	18-8 SS, ASTM F-593 GROUP 1
7	**1	THRUST WASHER	NYLON
8	1	BONNET	CAST IRON, ASTM A-126 CLASS B
9	*1	BRONZE STEM SLEEVE "O" RING	N.B.R.
10	*1	BRONZE STEM SLEEVE	230 BRASS TUBING, ASTM B-135
11	1	UPPER ROD/STEM ASSEMBLY	STEEL C1117 HFS w/BRASS STEM SLEEVE
12	6	BONNET BOLTS 1/2-13 x 2 1/4	ELECTRO ZINC PLATED STEEL
13	6	BONNET NUTS 1/2-13	ELECTRO ZINC PLATED STEEL
14	2	LOWER BONNET STEM "O" RINGS	N.B.R.
15	3	NOZZLE/STAND PIPE "O" RINGS	N.B.R.
16	2	HOSE NOZZLE CAP	CAST IRON, ASTM A-126, CLASS B
18	2	HOSE NOZZLE CAP GASKET	RUBBER ASTM D2000
20	2	HOSE NOZZLE SET SCREW	18-8 SS, ASTM F-593 GROUP 1
21	1	STORZ / PUMPER NOZZLE SET SCREW	18-8 SS, ASTM F-593 GROUP 1
22	2	HOSE NOZZLE 2 1/2	BRONZE ALLOY CDA 84400,ASTM B-584
24	2	HOSE NOZZLE "O" RING	N.B.R.
25	1	STORZ / PUMPER NOZZLE "O" RING	N.B.R.
26	1	NOZZLE SECTION	CAST IRON, ASTM A-126, CLASS B
27	1	"S" HOOK	ELECTRO ZINC PLATED STEEL
28	1	NOZZLE CAP CHAINS	ELECTRO ZINC PLATED STEEL
29	1	SAFETY STEM COUPLING/BREAK COUPLING	CAST IRON, ASTM A126, CLASS B
30	2	CLEVIS PIN 3/8 x 2 1/2	410 STAINLESS STEEL
31	2	RETAINING CLIP	18-8 SS, ASTM F-593 GROUP 1
32	8	SAFETY FLANGE BOLTS 5/8-11 X 4	ELECTRO ZINC PLATED STEEL
33	8	SAFETY FLANGE NUTS 5/8-11	ELECTRO ZINC PLATED STEEL
34	2	SAFETY FLANGE (HALF)	CAST IRON, ASTM A126, CLASS B
35	*1	STAND PIPE UPPER FLANGE	DUCTILE IRON ASTM A-536, GRADE 70-50-5
36	1	STAND PIPE	DUCTILE IRON PIPE
37	1	LOWER ROD / LOWER STEM	STEEL C1117 HFS
38	*1	STAND PIPE LOWER FLANGE	DUCTILE IRON ASTM A-536, GRADE 70-50-5
39	8	SHOE BOLTS 5/8-11 X 3 1/2	304 STAINLESS STEEL
40	8	SHOE BOLT NUTS 5/8-11	304 STAINLESS STEEL
41	1	HYDRANT SHOE/ELBOW	DUCTILE IRON ASTM A-536, GRADE 70-50-5
42	2	DRAIN HOLE BUSHINGS	BRONZE, ASTM B-135
43	1	UPPER DRAIN VALVE/UPPER VALVE PLATE	ALUMINUM-BRONZE ALLOY, ASTM B-763
44	2	DRAIN VALVE FACINGS	EPDM
45	8	DRAIN VALVE FACING RIVETS	ALUMINUM
46	1	LOWER STEM PIN 1/2 X 1 3/4	18-8 STAINLESS STEEL TYPE E
47	1	LOWER STEM "O" RING SEAL	N.B.R.
48	1	MAIN VALVE RUBBER/SEAT	S.B.R.
49	1	LOWER VALVE PLATE LOCKWASHER	18-8 STAINLESS STEEL
50	1	LOWER VALVE PLATE/BOTTOM PLATE	CAST IRON, ASTM A-126, CLASS B
51	1	BRONZE MAIN VALVE SEAT RING	ALUMINUM-BRONZE ALLOY ASTM B-763
52	1	MAIN VALVE SEAT RING UPPER "O" RING	N.B.R.
53	1	MAIN VALVE SEAT RING LOWER "O" RING	N.B.R.
54	*1	SHOE RETAINER RING	BRONZE ALLOY CDA 8440, ASTM B-584
55	*1	SHOE RETAINER RING "O"-RING	N.B.R.
56	1	INTEGRAL STORZ WITH CABLE	PURCHASED PART

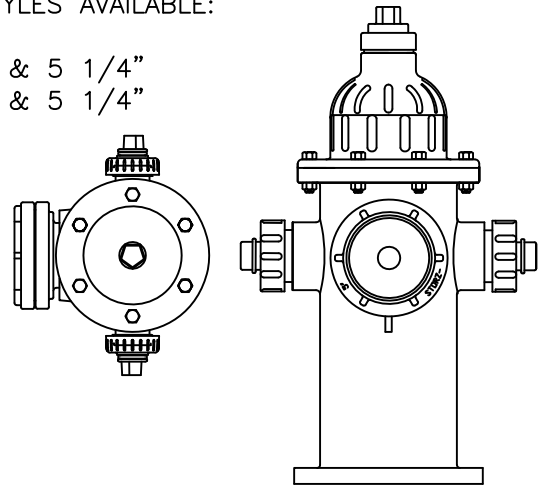
* NOT FIELD REPLACEABLE - PERMANENTLY INSTALLED
 ** NOT STANDARD ON 4 1/2" VALVE OPENING

MAIN VALVE SIZES AVAILABLE: 4 1/2" & 5 1/4"

250 PSI WORKING PRESSURE
 500 PSI HYDROSTATIC TEST PRESSURE

HYDRANT SHOE STYLES AVAILABLE:

- 4" MJ: 4 1/2"
- 6" MJ: 4 1/2" & 5 1/4"
- 6" MJ: 4 1/2" & 5 1/4"



M&H VALVE COMPANY
 ANNISTON, ALABAMA
 A DIVISION OF MCWANE INC.

DWN: TRIJ
 DATE: 9/1/12
 DWG. NO. FH-129-ISZ

M&H MODEL 129 FIRE HYDRANT WITH DOUBLE PUMPER

ITEM#	QTY	DESCRIPTION	MATERIAL
1	1	WEATHER SHIELD	CAST IRON, ASTM A-126, CLASS B
2	1	LUBRICATION PLUG BOLT 1/2-13x2	ELECTRO ZINC PLATED STEEL
3	1	OPERATING NUT	BRONZE ALLOY CDA 84400,ASTM B-584
4	1	HOLD DOWN NUT "O" RING	N.B.R.
5	1	HOLD DOWN NUT	BRONZE ALLOY CDA 84400,ASTM B-584
6	1	HOLD DOWN NUT SET SCREW	18-8 SS, ASTM F-593 GROUP 1
7	1	THRUST WASHER	NYLON
8	1	BONNET	CAST IRON, ASTM A-126 CLASS B
9	*1	BRONZE STEM SLEEVE "O" RING	N.B.R.
10	*1	BRONZE STEM SLEEVE	230 BRASS TUBING, ASTM B-135
11	1	UPPER ROD/STEM ASSEMBLY	STEEL C1117 HFS w/BRASS STEM SLEEVE
12	6	BONNET BOLTS 1/2-13 x 2 1/4	ELECTRO ZINC PLATED STEEL
13	6	BONNET NUTS 1/2-13	ELECTRO ZINC PLATED STEEL
14	2	LOWER BONNET STEM "O" RINGS	N.B.R.
15	3	NOZZLE/STAND PIPE "O" RINGS	N.B.R.
17	1	PUMPER NOZZLE CAP	CAST IRON, ASTM A-126, CLASS B
19	1	PUMPER NOZZLE CAP GASKET	RUBBER ASTM D2000
21	1	PUMPER NOZZLE SET SCREW	18-8 SS, ASTM F-593 GROUP 1
23	1	PUMPER NOZZLE 4 1/2	BRONZE ALLOY CDA 84400,ASTM B-584
25	1	PUMPER NOZZLE "O" RING	N.B.R.
26	1	NOZZLE SECTION	CAST IRON, ASTM A-126, CLASS B
27	1	"S" HOOK	ELECTRO ZINC PLATED STEEL
28	1	NOZZLE CAP CHAINS	ELECTRO ZINC PLATED STEEL
29	1	SAFETY STEM COUPLING/BREAK COUPLING	CAST IRON, ASTM A126, CLASS B
30	2	CLEVIS PIN 3/8 x 2 1/2	410 STAINLESS STEEL
31	2	RETAINING CLIP	18-8 SS, ASTM F-593 GROUP 1
32	8	SAFETY FLANGE BOLTS 5/8-11 X 4	ELECTRO ZINC PLATED STEEL
33	8	SAFETY FLANGE NUTS 5/8-11	ELECTRO ZINC PLATED STEEL
34	2	SAFETY FLANGE (HALF)	CAST IRON, ASTM A126, CLASS B
35	*1	STAND PIPE UPPER FLANGE	DUCTILE IRON ASTM A-536, GRADE 70-50-5
36	1	STAND PIPE	DUCTILE IRON PIPE
37	1	LOWER ROD / LOWER STEM	STEEL C1117 HFS
38	*1	STAND PIPE LOWER FLANGE	DUCTILE IRON ASTM A-536, GRADE 70-50-5
39	8	SHOE BOLTS 5/8-11 X 3 1/2	304 STAINLESS STEEL
40	8	SHOE BOLT NUTS 5/8-11	304 STAINLESS STEEL
41	1	HYDRANT SHOE/ELBOW	DUCTILE IRON ASTM A-536, GRADE 70-50-5
42	2	DRAIN HOLE BUSHINGS	BRONZE, ASTM B-135
43	1	UPPER DRAIN VALVE/UPPER VALVE PLATE	ALUMINUM-BRONZE ALLOY, ASTM B-763
44	2	DRAIN VALVE FACINGS	EPDM
45	8	DRAIN VALVE FACING RIVETS	ALUMINUM
46	1	LOWER STEM PIN 1/2 X 1 3/4	18-8 STAINLESS STEEL TYPE E
47	1	LOWER STEM "O" RING SEAL	N.B.R.
48	1	MAIN VALVE RUBBER/SEAT	S.B.R.
49	1	LOWER VALVE PLATE LOCKWASHER	18-8 STAINLESS STEEL
50	1	LOWER VALVE PLATE/BOTTOM PLATE	CAST IRON, ASTM A-126, CLASS B
51	1	BRONZE MAIN VALVE SEAT RING	ALUMINUM-BRONZE ALLOY ASTM B-763
52	1	MAIN VALVE SEAT RING UPPER "O" RING	N.B.R.
53	1	MAIN VALVE SEAT RING LOWER "O" RING	N.B.R.
54	*1	SHOE RETAINER RING	BRONZE ALLOY CDA 8440, ASTM B-584
55	*1	SHOE RETAINER RING "O"-RING	N.B.R.

* NOT FIELD REPLACEABLE - PERMANENTLY INSTALLED

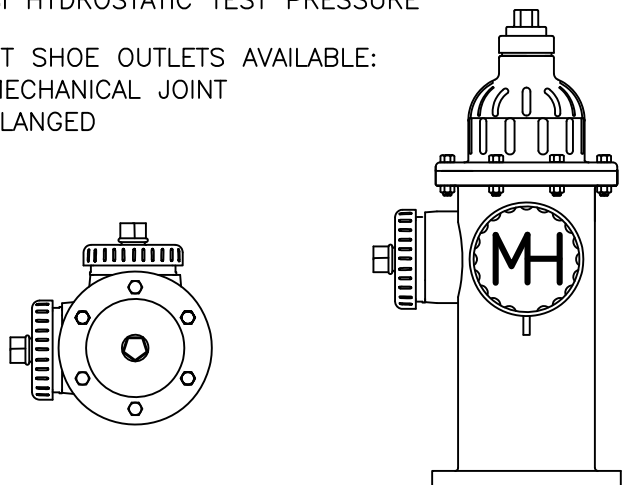
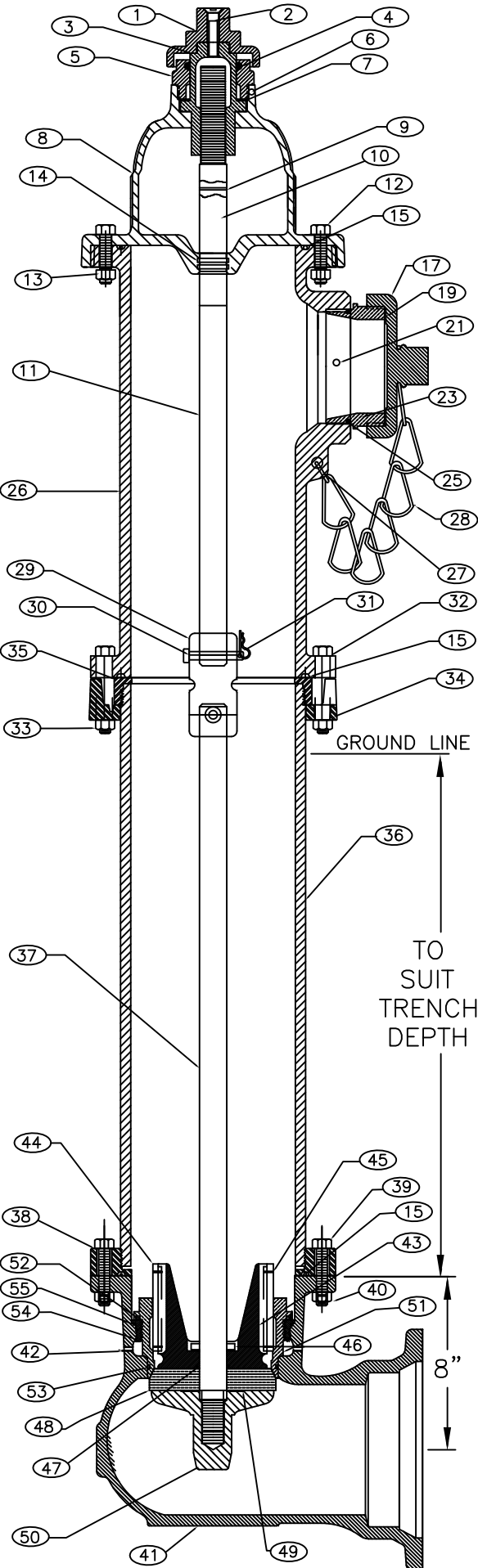
MAIN VALVE SIZES AVAILABLE: 5 1/4"

MEETS OR EXCEEDS AWWA C502

250 PSI WORKING PRESSURE AWWA
200 PSI WORKING PRESSURE UL/FM
500 PSI HYDROSTATIC TEST PRESSURE

HYDRANT SHOE OUTLETS AVAILABLE:

6" - MECHANICAL JOINT
6" - FLANGED



<p>M&H VALVE COMPANY ANNISTON, ALABAMA A DIVISION OF MCWANE INC.</p>	DWN: TRIJ
	DATE: 9/1/12
	DWG. NO. FH-129-DP