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MUELLER COLUMBIAN STANDARD FIRE HYDRANT

*Built in
compliance
with the
Specifications
of the American
Water Works
Association*



MUELLER CO. of Missouri
CHATTANOOGA, TENN.

Main Office and Plant - Decatur, Ill.

Other Factories - Los Angeles, Calif., Toronto, Ont., Canada

MUELLER-COLUMBIAN

• STANDARD FIRE HYDRANT •

INTERIOR VIEW

The MUELLER-COLUMBIAN Standard Fire Hydrant is a true compression type Fire Hydrant made in strict compliance with the specifications of the American Water Works Association. The Hydrant is simple in design and reliable in operation.

The barrel is with an extra large inside diameter for the full length, and without obstruction to the flow. The barrel is in two sections with a flanged joint approximately 2' above the ground line.

The lower barrel section is tapered slightly with the larger diameter at the bottom. This prevents the frost from heaving the hydrant out of the ground.

The bronze hose nozzles and bronze steamer nozzle are breach-locked into the hydrant barrel by means of interlocking lugs cast on the bronze nozzles, turned one-eighth of a turn and then permanently caulked in place with lead. It is impossible for the nozzles to be blown out.

The valve is the compression type closing with the pressure. The valve remains closed even if the barrel and stem are broken.

The drain mechanism is simple and positive since it is an integral part of the main valve. There are no springs, plungers, toggle joints or mechanism of any kind which requires adjusting or synchronizing. The wings on the upper valve plate serve as a guide and also contain the dovetailed drain leather insert.

With the hydrant in the closed position, water in the barrel is free to drain by gravity through the lateral hole in the seat ring into the annular groove and then out of the hydrant through the drain holes in the shoe.

As the hydrant is opened, the leather insert covers the opening in the seat ring thereby preventing the hydrant from draining in the open position.



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DIRECTIONS FOR ORDERING MUELLER-COLUMBIAN FIRE HYDRANTS

No.	SPECIFICATIONS	INSTRUCTIONS	YOKE SEC.
1	QUANTITY REQUIRED	If more than one size, quantity of each.	
2	SIZE OF VALVE OPENING	4 1/2", 5 1/2", or 6 1/2".	
3	NUMBER OF 3/4" NOSE NOZZLES	Usually two. Maximum is four.	
4	NUMBER OF STREAMER NOZZLES	Usually one. Maximum is two.	
5	DEPTH OF BENT	Distance from ground line to bottom of connecting pipe. "Stream" and "dash" are the same as "bars." "Cover" is the distance from the ground line to the top of connecting pipe.	
6	SIZE OF SIDE CONNECTION		
7	TYPE OF SIDE CONNECTION	Usually Hub (cast) end. Can be furnished with flanged, screwed, Unimount and other types.	
8	SIZE OF OPERATING NUT; SHAPE OF OPERATING BUT	Nutless Standard is 1 1/2" diameter, measured from point to opposite flat. Square and hexagon can also be furnished, size determined by measuring across center from flat to flat.	
9	DIRECTION OF OPENING	Usually left (counter-clockwise). Where previous hydrants open right, new hydrants should open in a similar direction.	
10	NOSE NOZZLE THREADING	Lead male coupling on hydrant nozzle to show threads standard EXCEPT in the following cases: (a) If using National Standard, specify accordingly on order (b) If we have previously furnished hydrants at some location and there has been a change, in the latter two cases, it will NOT BE NECESSARY TO SEND SAMPLE . Samples will not be necessary on subsequent orders, as complete records are kept on file in our Engineering Department for reference.	
11	STREAMER NOZZLE THREADING	Same instructions as number 10.	
12	COLOR	Unless otherwise specified on order, lead coating will be metallic aluminum bronze except brass. Lead nozzle caps and streamer nozzle caps, which will be standard for lead and red. We will accept any color or metal specified in match existing hydrant in your city.	

Casting Number A2400—4 1/2" Valve Opening Standard Hydrant
 Casting Number A2405—5 1/2" Valve Opening Standard Hydrant
 Casting Number A2406—6 1/2" Valve Opening Standard Hydrant

HYDRANT EXTENSION SECTIONS

One of the economical advantages of the MUELLER-COLUMBIAN Standard Fire Hydrant is that it can be lengthened to meet any raise in grade levels of the streets by merely installing a hydrant extension section of the proper length.

The barrel, stem and valve mechanism is first removed from the shoe, the new extension section is installed between the shoe and the lower barrel and the stem and valve mechanism is then re-assembled in the threads at the top of the extension section. No new barrels or stems are required—just the extension section of the proper length to raise the nozzles sufficiently high above the new grade. These extension sections are furnished in lengths of six-inch variations starting with twelve inches and upward. Be sure to give full information when ordering.

MAIN VALVE

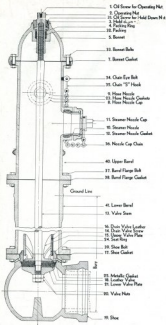


EXTENSION SECTION



FOR GRADE
LEVEL CHANGES

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ADVANCED ENGINEERING KEEPS
MUELLER FIRE HYDRANTS YEARS AHEAD



- 1. Oil Screw for Operating Nut
- 2. Operating Nut
- 3. Hold Down for Hold Down Nut
- 4. Hold Down Nut
- 5. Packing Ring
- 10. Packing
- 5. Bonnet
- 33. Bonnet Bolt
- 1. Bonnet Gasket
- 24. Chain Eye Bolt
- 25. Chain "D" Hook
- 9. Hose Nipple
- 12. Hose Nipple Gasket
- 8. Hose Nipple Cap
- 11. Steamer Nipple Cap
- 10. Steamer Nipple
- 13. Steamer Nipple Gasket
- 14. Nipple Cap Chain
- 40. Upper Barrel
- 17. Barrel Flange Bolt
- 18. Barrel Flange Gasket
- Ground Line
- 40. Lower Barrel
- 13. Valve Stem
- 16. Drain Valve Leader
- 14. Drain Valve Screw
- 15. Young Valve Plate
- 24. Seat Ring
- 19. Shoe Bolt
- 17. Shoe Gasket
- 23. Metal Caplet
- 18. Loading Valve
- 21. Lower Valve Plate
- 20. Valve Plate
- 19. Shoe

DIRECTIONS FOR REPAIRING

- (1) Remove Hold Down Nut (3).
- (2) Remove Operating Nut (2).
- (3) Unbolt and remove Hydraulic Head— or Bonnet (5).
- (4) Insert Repair Wrench over top of Hydraulic Stem (10) into Hydraulic Barrel (40).

N. B.—Be sure that slotted portion of wrench fits over top of upper valve plate (7) and is in close contact with top of seat ring (24).

- (5) FASTEN REPAIR WRENCH DOWN TO SEAT RING (24) BY SCREWING OPERATING NUT (2) DOWN ON THREADED PORTION OF HYDRAULIC STEM THAT PROTRUDES THROUGH TOP OF REPAIR WRENCH.

N. B.—This is extremely important.

- (6) Cut water off. (If water is cut off before repair wrench is inserted, Steam (13) will drop down so Operating Nut (2) can not be screwed down on top of wrench).
- (7) Break bond existing between Seat Ring and Shoe by planting piece of flat metal on top of Operating Nut (2), then striking this two or three solid blows.
- (8) Unscrew Seat Ring (24) and all working parts can be lifted through the top of hydrant.
- (9) When removing Seat Ring (24) on last operation, short pieces of pipe may be used on the handles of repair wrench to increase leverage.

WHEN ORDERING REPAIR PARTS
PLEASE SPECIFY THE NAME
AND NUMBER AS GIVEN ABOVE.

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For more complete details of the Mueller Standard ask any Mueller representative