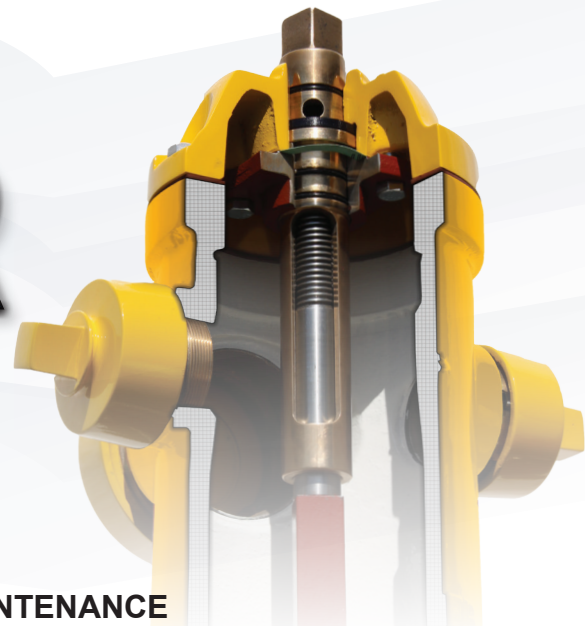


# BRIGADIER HYDRANT



## QUALITY GUARANTEE

Clow Canada's Brigadier Fire Hydrant incorporates several new design features and improved components for increased performance in firefighting, along with greater durability, economy and convenience. These hydrants are manufactured in Canada to the highest standards of quality. Every unit is thoroughly tested to ULC/FM & AWWA before leaving the CLOW factory. Lubrication is assured through the Brigadier's unique Hydra-lube™ mechanism.

## MAINTENANCE

The Brigadier can be rotated to any position - during or after installation - without disturbing the working mechanism. The rugged Brigadier stands up easily to traffic damage. It is designed for easy upkeep, repair and replacement of parts; its internal assembly can be removed and replaced in 20 minutes, without excavation. Alternative design options and accessories serve a wide range of municipal and industrial needs.

## ADVANTAGES

- Efficient compression-type hydrant
- Factory-lubricated operating mechanism effectively O-ring sealed for long and efficient operation
- Very low opening and closing torques
- Automatic drainage
- Positive sealing with O-rings at operating nut, operating housing, upper stem and main valve seat
- Durable and positive seating
- Easy multiple positioning
- Safety stem coupling and four safety segments
- Internal parts easily removed - bury easily increased

## MADE IN CANADA MATTERS!

For over 175 years, Clow Canada has been proudly making quality products in Canada for the Waterworks industry.

Established in 1834, Clow Canada is the only national manufacturer of Fire Hydrants for municipal and industrial fire protection.

All of our products meet and/or exceed all industry third party certifications such as AWWA, UL, ULC, FM, ASTM and NSF. Our products are designed to stand up to the unique challenges encountered due to extreme Canadian Climate.

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At our manufacturing facility in Saint John, New Brunswick and our warehouse in Medicine Hat Alberta, our comprehensive facilities and innovative technologies make us an economic, safety, environmental and community leader.

From safety and environmental responsibility to employee training and community outreach, we work hard every day to make sure we are the best we can be.

When making your choice for quality products with a strong history, remember "Made In Canada Matters".



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WHEN PLACING ORDERS, REQUESTING QUOTES OR SUBMITTAL DRAWINGS, PLEASE PROVIDE THE FOLLOWING INFORMATION:

- Hydrant Style - Regular/Monitor/Heritage
- Hose and pumper nozzle thread specifications
- Type of inlet connection
- Depth of trench or bury
- Direction of opening
- Size and shape of operating nut
- Colour desired
- Town or municipality

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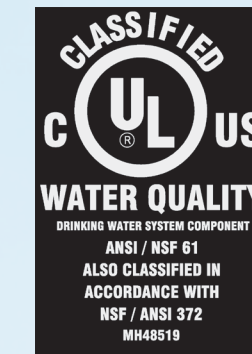
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# The Industry's Most Advanced Fire Hydrant McAVITY BRIGADIER



## SETTING A NEW STANDARD FOR FIRE PROTECTION

AWWA C502 · Underwriters Laboratories Canada listed and FM approved · 250 PSI working pressure · 12-year limited warranty

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For Generations

## BRIGADIER FIRE HYDRANT FEATURES

- » Fire hydrant has an internally lubricated bronze operating nut with O-ring seals. Operating nut is of the Hydra-lube™ design to ensure self-lubrication during operation.
- » Fire hydrant hose nozzles are mechanically locked into place by an external Allen screw, and have O-ring seals.
- » Fire hydrant lower rod is 1-1/4" in sq.
- » Fire hydrant will have a main valve opening of 5-1/4".

- » Fire hydrant will be a traffic model, complete with safety flanges and stem break coupling. Upper body can be rotated 360 degrees to adjust pumper direction.
- » Fire hydrant will be manufactured with a lower valve plate that bottoms out in the shoe for maximum opening.
- » Fire hydrant shall be backed by manufacturer's 12-year limited warranty.
- » Fire hydrant shall be the Clow Canada Brigadier as manufactured by Clow Canada.



Certified to NSF/ANSI 61



FM

APPROVED

Corrosion free thrust bearing provides dependable low-torque operation even at 250 PSI.

Hydra-lube™ operating nut ensures self-lubrication during operation in cold weather applications and conditions.

Easy to identify and maintain. Hose and pumper nozzles are mechanically locked and O-ring sealed.

Stainless steel threaded stem provides corrosion free operation.

1 1/4" main valve stem assembly with corrosion protective coating minimizes maintenance.

Four safety flange segments and internal stem coupling are designed to shear to protect the working components in the event of a severe impact.

Available zinc anode for increased corrosion protection.

Cotter pin for ease of disassembly.

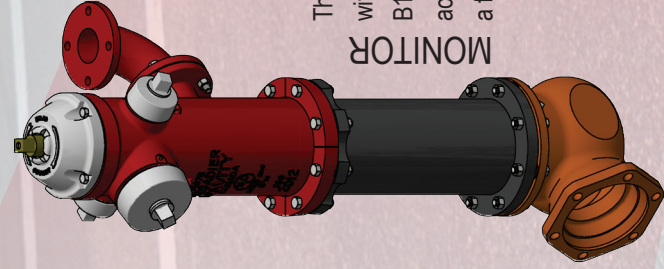
Stainless steel fasteners below grade.

Two 3/8" diameter automatic drains at 180 degrees drain hydrant after use.

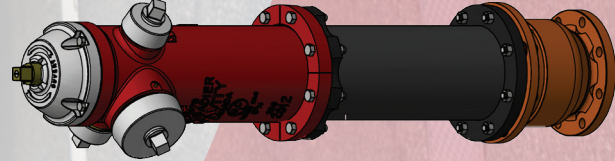
5-1/4" diameter main valve opening for maximum flow. Available in Buna (STD) or Polyurethane.

Pluggable 1/4" drain allows hydrant to be plugged from above grade.

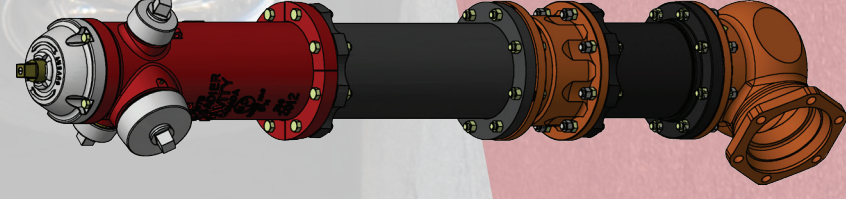
Lower valve plate prevents corrosion to bottom of stem.



The Brigadier is available with a 3" (76mm) ANSI B16.1 flanged outlet to accommodate mounting of a fire monitor.



The Brigadier is available with a 6" (150mm) or 8" (200mm) ANSI B16.1 flanged vertical chamber for connection to a standard AWWA tee.



(DEEP "Depth of Bury" HYDRANTS 12+) Clow Canada recommends all hydrants over 12' bury be supplied with an inline chamber (under the frost line) to make the hydrant safe for maintenance.

## RECOMMENDED SPECIFICATIONS

TESTING AND DESIGN SPECIFICATIONS (PER AWWA C502 / NSF / ULC & FM)

1. Hydrant shall be manufactured in accordance with AWWA C502 latest revision.
2. Hydrant has been certified by UL in accordance with the ANSI/NSF 61 and ANSI/NSF 372 (LEAD CONTENT VERIFICATION OF PRODUCTS IN CONTACT WITH POTABLE WATER).

3. Hydrant shall be designed for 250 PSI working pressure and tested to 500 PSI hydrostatic pressure.
4. Hydrant shall be rated for 250 PSI, FM working pressure and 200 PSI, ULC working pressure. (HERITAGE - 175 PSI)

5. Hydrant shall be a compression type, dry barrel design with center operating stem construction.
6. The O-ring seating surface on the upper stem shall be constructed of stainless steel.
7. Epoxy coating to be applied to interior and exterior of hydrant elbow for corrosion protection.
8. Hydrant shall be manufactured with operating nut and integral thrust collar made of bronze.
9. A Delrin washer bearing shall be located above thrust collar for ease of operation.
10. Hydrant shall have a lower valve assembly that fully encapsulates the lower operating rod threads. This allows for increased corrosion resistance and ease of disassembly.

11. Intermediate section shall be ductile iron. (AWWA/ANSI C151)

## OPTIONAL HYDRANT FEATURES

1. All standard inlets available in CAST IRON ASTM A 126 Class B or Ductile Iron ASTM A536 (65-45-12).
2. Two 65mm (2.5") hose nozzles - threads on nozzle ends to suit national, provincial or municipal standard or STORZ quick connect.
3. One 114mm (4.5") pumper nozzle - threads on nozzle ends to suit national, provincial or municipal standard.
4. 100mm (4") or 125mm (5") STORZ quick connect pumper nozzle.
5. Two external .375" NPT plugs in inlet @ 180 degrees/ one internal .25" NPT plug.
6. Hydrants painted/coated to suit national, provincial or municipal standard per AWWA C502/AWWA C550.