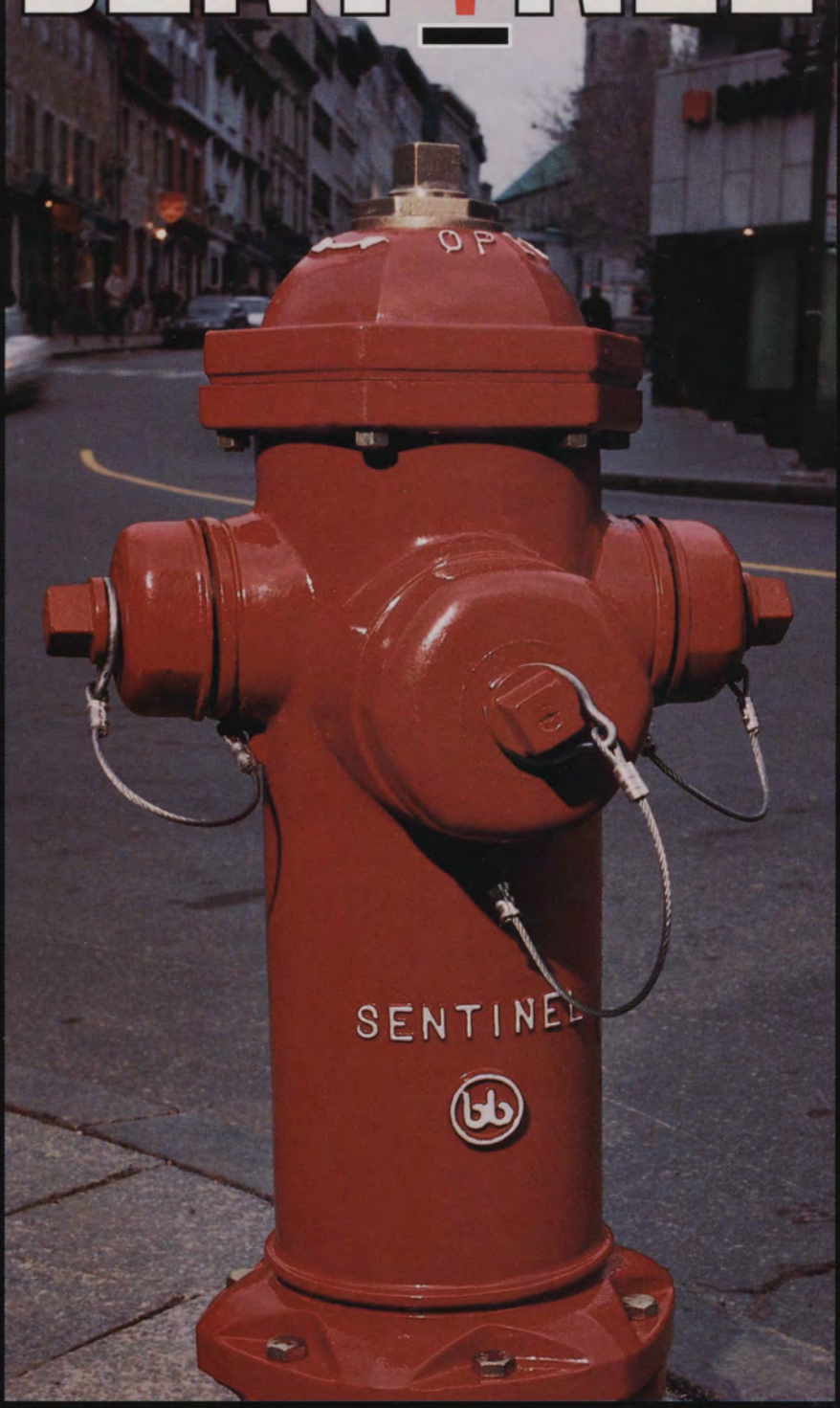
SENTINEL



BF-9602

To remove mechanism

To continue into the hydrant, remove cap bolts

3

Unthread the operating nut from the upper stem and remove the cast iron cap

4

Fit wrench onto the upper stem and remove slowly

5

To replace the top O-rings, simply remove the retaining nut from the operating nut and replace O-rings in the retaining nut

2

Remove the main valve assembly by pulling up and out on the upper stem

6

Unscrew the hold-down nut

1

Please note
Each time these parts are removed, special attention should be given to all seals and threads with respect to lubrification and wear. It is recommended that, once removed, the parts should be relubricated to ensure smooth operation of the hydrant.

HOSE AND PUMPER OUTLETS

Set screws holding the nozzles in place may be removed and the nozzle can be easily changed with a simple 90° rotation.

BREAKAWAY FLANGE

- As a safety feature, this flange will break in the event of a vehicule striking the hydrant, thus preventing barrel and seat damage.
- It also allows for a 360° rotation of the upper barrel during installation.

HYDRANT BOOT AND VALVE BOTTOM

Both are made of cast iron and epoxy coated for corrosion resistance.

- These closures are very resistant to wear, requiring minimal maintenance.
- Drain holes may be plugged without excavation of the hydrant.

GENERAL MAINTENANCE AND RECONDITIONING

NEW

- The valve mechanism sits on a brass insert which will facilitate the removal of the mecanism after many years.
- Many components have been combined to reduce the number of parts required for maintenance.
- The use of polyurethane on these parts reduces maintenance as polyurethane is very wear resistant.

QUALITY CONTROL

Every Bibby Sentinel hydrant is tested to AWWA and ULC specifications before shipping.

General characteristics of the Sentinel hydrant

SENTINEL

The Sentinel hydrant complies with the latest edition of AWWA C502. It also is in compliance with the most recent ULC Standard CAN/ULC S520-M91. Engineered for easy maintenance, the compression-style main valve assembly uses water pressure to assure a positive closure. Its classical yet modern design and maintenance friendly mechanism allow the Sentinel to blend in with any type of environment.

Technical specifications

APPROVAL

Approved in accordance with the most recent standards of the U.L.C.: CAN/U.L.C. - S520-M91

OPERATING MECHANISM

- Two O-rings prevent any infiltration into the mechanism, the top O-Ring being made of neoprene which is very resistant to adverse weather conditions.
- Acetal washers are used for durability and to reduce friction during the operation of the hydrant.

HOSE AND PUMPER OUTLETS

Set screws holding the nozzles in place may be removed and the nozzle can be easily changed with a simple 90° rotation.

BREAKAWAY FLANGE

- As a safety feature, this flange will break in the event of a vehicule striking the hydrant, thus preventing barrel and seat damage.
- It also allows for a 360° rotation of the upper barrel during installation.

HYDRANT BOOT AND VALVE BOTTOM

Both are made of cast iron and epoxy coated for corrosion resistance.

VALVE MECHANISM

NEW
- A lube inlet has been added to ease the lubrification of the upper mechanism without removing any parts.
- The 5 1/4" polyurethane valve disc is very resistant to distortion.
- Stones and debris will not become lodged in the polyurethane disc, thus allowing for a proper seal each time the hydrant is used.
- The polyurethane disc will also help to reduce maintenance costs from disc failure.

DRAIN MECHANISM

- Two tapped pipe thread drain holes assure complete drainage of the lower barrel.
- Polyurethane closures are used to seal the drain holes.
- These closures are very resistant to wear, requiring minimal maintenance.
- Drain holes may be plugged without excavation of the hydrant.

GENERAL MAINTENANCE AND RECONDITIONING

NEW
- The valve mechanism sits on a brass insert which will facilitate the removal of the mecanism after many years.
- Many components have been combined to reduce the number of parts required for maintenance.
- The use of polyurethane on these parts reduces maintenance as polyurethane is very wear resistant.

QUALITY CONTROL

Every Bibby Sentinel hydrant is tested to AWWA and ULC specifications before shipping.

- 316 stainless steel
- Fastened by two stainless steel Allen screws
- Fast and easy to install (cavity tapping guaranteed)
- ULC approved

- The Sentinel hydrant comes with a breakaway flange mechanism which will minimize costs in case of an accident
- In case of impact, it is the breakaway flange (#25) and the safety coupling (#22) that will break

Operating mechanism and upper stem

Lower rod and valve mechanism

Base; mechanical joint

Base; push-on joint

Base; flanged