

Operation & Maintenance of Fire Hydrants

Operation:

- ☐ Most hydrants open when the operating nut is turned in a counter clockwise direction
- ☐ Compression hydrants are the most common in the province; the hydrant valve opens downward against the flow of water
- □ Always open and close hydrants slowly
 - opening a hydrant too quickly can cause a sudden decrease in pressure that could create vacuum in the distribution system; back-siphonage may occur
 - closing a hydrant too quickly can result in water hammer and may damage the distribution system
- ☐ When operating a hydrant, the valve should be fully open
 - ➤ 18 to 22 turns of the hydrant valve will fully open or close the hydrant
- ☐ The hydrant valve must not be used to throttle the flow; a fire hose nozzle or a gate valve attached to the hydrant nozzle can be used





Maintenance:

- ☐ Always close the valve on the hydrant lead to isolate the hydrant
- ☐ Remove a nozzle cap and slightly open the hydrant valve to relieve pressure
- ☐ Remove bonnet and retaining gland
- ☐ Remove and clean operating nut and bearing (may be a Delrin washer or a set of bearings)





- ☐ Replace any worn O-rings or gaskets on the operating nut assembly
- ☐ To remove valve seat assembly turn valve seat wrench counter clockwise (if removing the valve seat from a McAvity hydrant be sure to use the holding nut)
- ☐ Inspect and clean the valve disc and valve seat; replace any damaged O-rings or damaged valve disc; inspect the valve seat for scrapes and abrasions; damage to the valve seat must be sanded out or the valve seat should be replaced
- ☐ Always lubricate O-rings before reassembling the hydrant; only use food grade grease on hydrants
- □ Note: The operating nut assembly on most hydrants can be greased from a grease screw in the operating nut or bonnet

