



FIRE HYDRANT MAINTENANCE BEST PRACTICE

Department of Environment & Conservation - Gander Clean Water Show
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FOREWORD

- AWWA Manual M17 @ ACWWA.CA
- AWWA C502 standard
- Canada Valve Darling troubleshooting manual 1002-001

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ANNUAL INSPECTION

HYDRANT INSPECTION REPORT

Date _____	Location _____	
Make _____	Model _____ Year _____	
Drain Type []	Non-Drain Type []	
VISUAL INSPECTION		
	<u>OK</u>	<u>Not OK</u>
		<u>Comment</u>
Port Height	[]	[]
Operating Nut	[]	[]
Caps	[]	[]
Paint	[]	[]
Chains	[]	[]
Traffic Flange	[]	[]
Water in Barrel	[]	[]
PREVENTATIVE MAINTENANCE		
	<u>Compl.</u>	<u>Comment</u>
Lubricate OP Mech.	[]	_____
Insp/Clean Noz. Thrds.	[]	_____
Insp/Clean Cap Thrds.	[]	_____
Lub. Noz. Thrds.	[]	_____
Flush Hydrant	[]	_____
	<u>Yes</u>	<u>No</u>
Clear flow obtained?	[]	[]
HYDROSTATIC TEST		
	<u>Yes</u>	<u>No</u>
		<u>Comment</u>
Fully open - above grnd leak	[]	[]
- undergrnd leak (noise)	[]	[]
Fully closed - adequate drainage	[]	[]
- undergrnd leak	[]	[]
Non-Draining Hydrant - Pumped Out	[]	Drop Line Checked []

- 2 x per year
- Check for damaged exterior parts
- Remove caps, clean, grease all – replace
- Flush Hydrant
- Use listening device for leaks while in open
- Close, repeat step
- Remove cap, inspect drainage

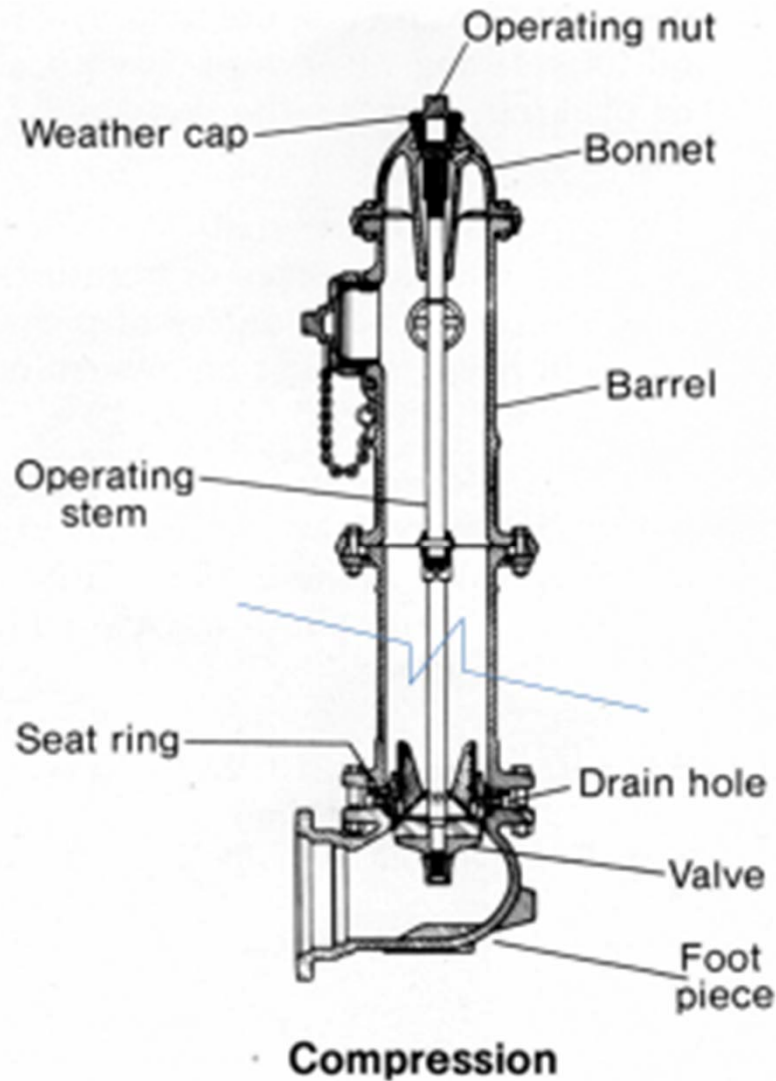
THIS IS NOT THE TIME FOR HYDRANT MAINTENANCE



PREVENTATIVE MAINTENANCE – CONFUSED?

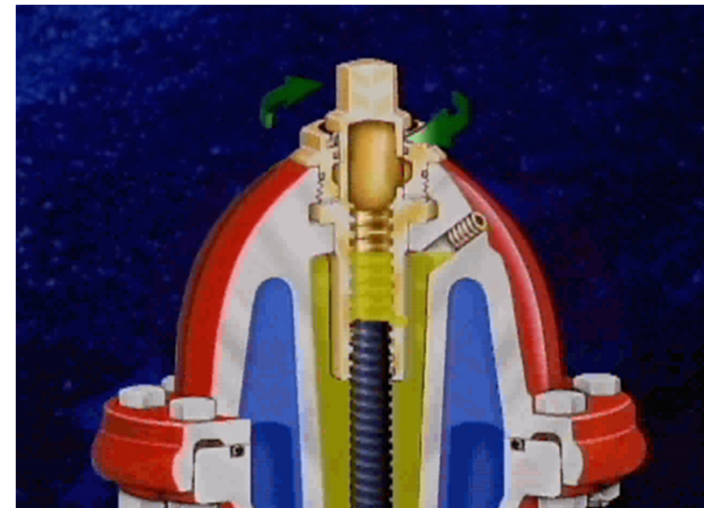


KNOW YOUR HYDRANTS – HAVE TOOLS



DRY TOP OPERATION ASSEMBLY

- Operating assembly uses grease or oil
- Bearing lubricated each operation exercise
- One piece op nut / thrust collar per C502
- O-ring sealed



TRAFFIC FEATURE

- **Bury line 3-4” above**
- **Breakaway Flange**
Breakable Cast Traffic Flange
vs
Strong Ductile Extension Flange
- **Breakaway Coupling**
Breakable Cast or SS Coupling
vs
Strong Ductile or solid SS



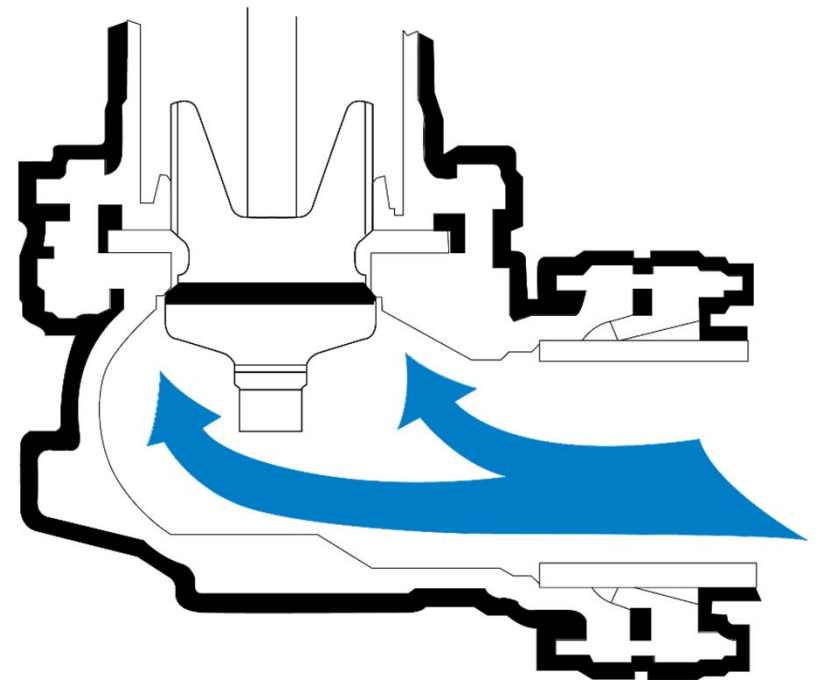
HYDRANT MAIN VALVE



- **Main Valve Disc ‘ball’ – EPDM or SBR rubber**
- **Bronze Main Valve Seat resist corrosion**
- **Bronze Drain Ring for easy removal of main valve and self drain**

DRY BARREL COMPRESSION TYPE HYDRANT

- Moves vertically on a stem
- Seats against the hydrant base
- 5 1/4" or 4 1/2" diameter main valve





THANK YOU FOLKS FOR KEEPING YOUR HYDRANTS OPERABLE

QUESTIONS?