



TROUBLESHOOTING - HYDRANTS

Before performing any work on hydrants verify that the control valve has been shut and pressure has been released

Area	Section	Problem Issue	Possible Conditions	Solution
Above Grade	Bonnet	Operating Nut Will Not Turn	1 Operating nut could be frozen to the upper stem due to the corrosion issue.	1 Contact Clow for further information, 1 (800) 829-2569.
		Operating Nut Hard to Turn	1 Stem threads could be damaged due to corrosion issue.	1 Use a cheater bar if necessary to break loose the operating nut. Refer to Upper Stem Replacement Manual for follow up. Operating nut should be examined for defects when changing the upper stem.
		Operating Nut Spins Freely	1 Stem coupling broken. 2 Coupling pin out of position.	1 Replace stem coupling. 2 Reinsert coupling pin and verify that cotter pin is in place.
	Nozzle	Water in the Housing	1 Damaged stem o-rings. 2 Damaged operating nut o-ring. 3 Damaged thrust nut o-ring.	1 Remove and examine o-rings from the bottom of bonnet reservoir. Replace if damaged. 2 Examine operating nut o-ring and replace if damaged. 3 Examine thrust nut o-ring and replace if damaged.
		Nozzle Loose or Leaking	1 Damaged nozzle. 2 Damaged nozzle gasket. 2 Damaged nozzle cap.	1 Remove nozzle and examine. Replace if damaged. 2 Remove nozzle gasket and examine. Replace if damaged. 2 Remove nozzle cap and examine. Replace if damaged.
		Leaking at Nozzle Caps	1 Non draining hydrant model. 2 Vacuum created in barrel.	1 This is common in non draining models. If water is at risk of freezing, or preventing maintenance, it should be pumped out. 2 Loosen caps to allow water to drain.
	Pipe	Water Standing in the Upper Barrel	3 Drains clogged. 2 Seat out of position. 2 Damaged seat o-rings. 3 Damaged or obstructed main valve seat.	1 While standing behind the hydrant with caps on, slowly open it to fill and pressurize the barrel, then close the hydrant. If this doesn't work hydrant will need to be removed for examination. 1 Tighten seat ring by turning it clockwise. 2 Remove valve assembly and examine seat o-rings. Replace if damaged. 3 Remove valve assembly and examine main valve. If obstructed, remove obstruction. If seat rubber has been damaged it must be replaced.
		Seat	Hydrant Leaking Past the Seat Into the Barrel	1 Contact the local Clow parts distributor for replacement parts. 2 If unsure of local distributor contact Clow for further information, 1 (800) 829-2569.
			Broken or Damaged Parts	
	General			