Problem	Probable Cause	Verification	Solution
Valve will not open	Ball valves in control circuit closed (if equipped)	Check ball valve handle positions	Open ball valves
	Insufficient supply pressure to inlet of main valve	Check upstream and downstream isolation	Open upstream and downstream valves
	Cover chamber pressure not being discharged through pilot system	Inspect pilot system	Correct as suggested in trouble shooting section of Valve IOM
	Diaphragm assembly not operating properly (eg: stem binding guides)	Inspect diaphragm assembly	Clean or replace damaged parts as necessary
	Flow stabilizer not properly adjusted for control valve start-up	Check that the adjustment screw is not turned all the way out	Correct as suggested in trouble shooting section of Valve IOM

Problem	Probable Cause	Verification	Solution
Valve will not close	Cover chamber pressure not being discharged through pilot system	Inspect pilot system	Correct as suggested in trouble shooting section of Valve IOM
	Strainer is clogged	Disconnect supply line at cover chamber, check for flow	Remove and clean strainer
	Resilient disc is damaged	Inspect resilient disc	Flip the disc over or replace
	Diaphragm failure (Valve flow under the seat)	Pull cover, inspect diaphragm for damage	Replace diaphragm
	Obstruction	Bleed bonnet until water stops flowing to confirm diaphragm ok.	Disassemble valve and remove blockage

Problem	Probable Cause	Verification	Solution
Valve will not modulate	Air in control circuit or pilots		Bleed all air
	Pilot is not adjusted correctly	Turning adjusting screw on pilot and check response	Re-adjust pilot
	Opening and/or closing speed controls not adjusted correctly	Turn adjusting screws and check response	Adjust opening and/or closing speed needle valves
	Operating conditions do not fall within the spring range of the pilot	1. Check tag on pilot for proper spring range	1. Replace with pilot of correct spring range
		2. Adjust the screw all the way in and all the way out to check for pilot response	2. Replace with pilot of correct spring range
		3. Read gauges/meters to ensure proper operating conditions	3. Change operating conditions to desired range or change pilot set-point