## TROUBLE SHOOTING GUIDE — Reduced Pressure Backflow Preventers

PROBLEM	CAUSE	Should valve be replaced?	SO	LUTION
A. Valve spits pe	eriodically from the vent.			
	ctuating supply pressure.	No	A.1	Install a spring-loaded, soft seated check valve immediately upstream of the device.
A.2 Flu	ctuating downstream pressure.	No	A.2	Install a spring-loaded, soft seated check valve downstream of the device as close as possible to the shutoff valve.
B. Valve drips co	ontinually from the vent.			
B.1 Fou	led first check.	No	B.1	Flush valve. If flushing does not resolve problem, disassemble valve and clean or replace the first check.
<b>B.2</b> Dar	maged or fouled relief valve seat.	No	B.2	Clean or replace the relief valve seat.
B.3 Rel pip	ief valve piston "O" ring not free to move due to e scale, dirt or build-up of mineral deposits.	No	B.3	Clean, grease or replace the piston "O" ring.
<b>B.4</b> Exc has	sessive backpressure, freezing, or water hammer s distorted the second check.	No	B.4	Eliminate source of excessive backpressure or water hammer in the system downstream of the device. Use Watts No. 601 to dampen out backpressure and No. 15 to eliminate water hammer. Replace defective second check assembly. In case of freezing; thaw, disassemble, and inspect internal components. Replace as necessary.
<b>B.5</b> Ele	ctrolysis of relief valve seat or first check seats.	No	B.5	Replace relief valve seat or inlet cover. Install dielectric unions (Watts Series 3001 through 3006). Electrically ground the piping system and/or electrically isolate the device with plastic pipe immediately upstream and downstream of the device.
<b>B.6</b> Val	ve improperly reassembled.	No	B.6	If valve is diassembled during installation, caution must be exercised to install check springs in their proper location.
C. Valve exhibits	high pressure drop.			
<b>C.1</b> Fou	led strainer.	No	C.1	Clean strainer element or replace.
C.2 Val	ve too small for flows encountered.	Yes	C.2	Install proper size device based upon flow requirements.
D. No water flow	/s downstream of valve.			
<b>D</b> . Val	ve installed backwards.	No	D.	Install valve in accordance with flow direction arrow.
E. Valve does no	ot test properly.			
E.1 Fol	low manufacturer's test procedure. iky downstream gate valve.	No No	E.1,	, E.2 Clean or replace gate valve with full port ball valves or resilient wedge shutoff valves.
F. Valve quickly	and repeatedly fouls following servicing.			
	oris in pipe line is too fine to be trapped by straine	er. No	F.	Install finer mesh strainer element in the strainer.
G. Winterization of backflow preventers.			G.	Prevent freeze damage by enclosing in a WATTSBOX heated enclosure. For additional information, send for ES-WB or ES-WB-T.



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