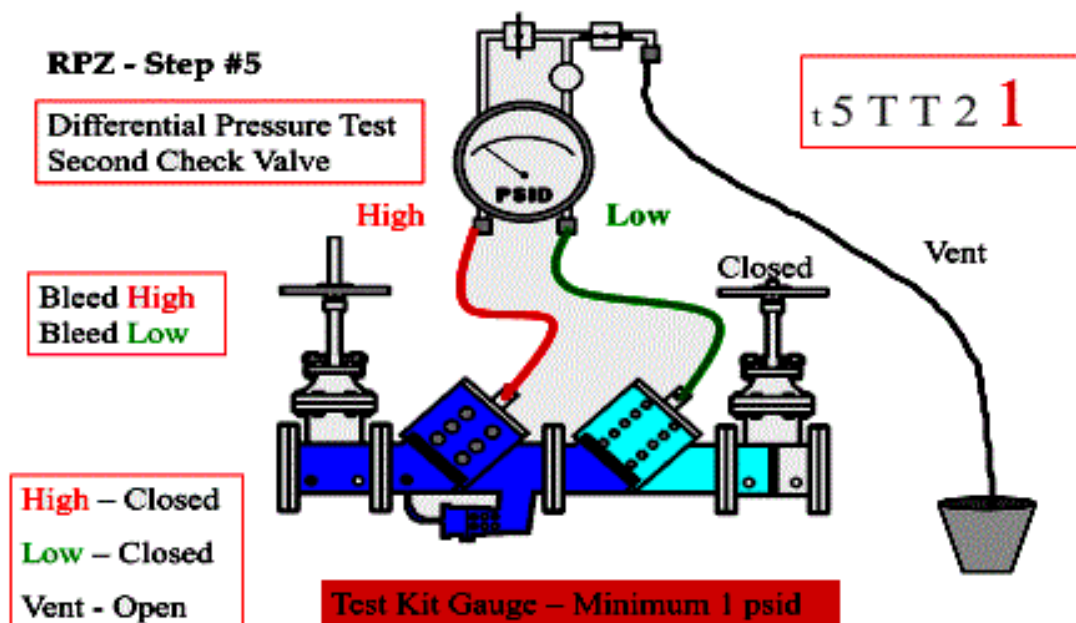


Test the Second Check Valve Differential Pressure

Testing the differential pressure across the second check valve will validate the if a backpressure condition exists, a faulty second check valve spring, or if the device is in a no-flow condition. If the downstream valve is leaking and/or the device is in a flow condition, the differential pressure test across the second check valve cannot be performed.

1. Orientate the test kit --- close high and low control valves. Open the vent control valve.
2. Connect the high pressure hose to test cock # 3.
3. Connect the low pressure hose to test cock # 4.
4. Open test cocks # 3 and # 4.
5. Open the high control valve on the test kit to bleed the air from the high pressure hose.
6. Close the high control valve.
7. Open the low control valve on the test kit to bleed the air from the low pressure hose.
8. Close the low control valve.
9. Record the differential pressure gauge reading. It should be a minimum of 1 PSID, if the second check valve was held tight against backpressure. If the differential pressure reading across the second check valve is 0 PSID this is an indication that the downstream shut-off valve is leaking and the device is under a backpressure condition.



DEVICE TESTING SEQUENCE SUMMARY

DEVICES	FIRST CHECK VALVE	SECOND CHECK VALVE Tightness	No-Flow Tightness Validation Test	RELIEF VALVE	SECOND CHECK VALVE DP	AIR INLET VALVE
DCV	1	1	T			
RPZ	1	T	T	2	1	
PVB/ SRVB	1		T			1