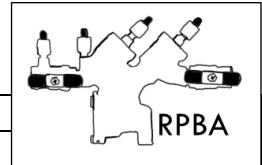


RPBA Test Using a Mako MK5 5-Valve Test Kit



Step	Procedure
1.	NOTIFY OWNER , identify, inspect, & observe assembly.
2.	OPEN TEST COCKS <ol style="list-style-type: none"> Open and leave open Test Cock (TC) #4, then TC #3, TC #2, and finally TC #1 Fully close TC #1, TC#2, TC #3, and TC #4 Note: If needed, install appropriate fittings to test cocks
3.	ATTACH TEST KIT <ol style="list-style-type: none"> Verify MK5 is turned on and captured values are cleared (Hold Down the Back Button) Close all MK5 test kit valves and verify high, low, and bypass hoses are all appropriately connected to MK5 Connect high side hose to TC #2 Open TC #2 fully and RECORD line pressure reading (Press the Capture Button), then close TC #2 Connect low side hose to TC #3
4.	BLEED AIR FROM HOSES <ol style="list-style-type: none"> Slowly open TC #3 fully, then open low side bleed valve (leave open) Slowly open TC #2 fully, then open high side bleed valve (leave open)
5.	ISOLATE <ol style="list-style-type: none"> Close #2 shutoff valve Close high side bleed valve Wait for MK5 psid reading to stabilize, then Slowly Close the low side bleed valve If relief valve doesn't open, RECORD the reading (Press the Capture Button) as the apparent differential pressure across the #1 Check Valve.
6.	TEST RELIEF VALVE <ol style="list-style-type: none"> Open high side control valve approximately one turn Slowly Open low side control valve <i>no more than 1/4 turn</i> RECORD psid reading (Press the Capture Button) at first discharge of water from the Relief Valve Close low side control valve
7.	TEST #2 CHECK VALVE <ol style="list-style-type: none"> Maintain #2 shutoff valve in closed position and MK5 high side control valve in open position Bleed air from the bypass hose by opening the bypass control valve then close the bypass control valve Attach the bypass hose from the MK5 to TC #4 Fully Open TC #4 Open low side bleed valve Once the reading reaches a value above the apparent differential pressure across #1 Check Valve, Slowly Close the low side bleed valve Open the bypass control valve and wait for psid reading to stabilize RECORD the #2 Check Valve as "closed tight" (relief valve closed) or "leaked" (relief valve opens)
8.	TEST #1 CHECK VALVE (Static differential pressure across #1 check valve must be greater than the relief valve opening point AND at least 5.0 psid) <ol style="list-style-type: none"> With bypass hose still connected to TC #4 and high side and bypass control valves remaining open, Open low side bleed valve until reading exceeds the apparent differential pressure across #1 Check Valve Slowly Close the low side bleed valve Once the reading stabilizes: RECORD psid reading (Press the Capture Button) across #1 Check Valve
9.	REMOVE EQUIPMENT <ol style="list-style-type: none"> Close all test cocks and remove all test equipment and fittings Slowly open #2 shutoff valve Open the high, low, bypass valves and the high/low bleed valves; drain water from hose(s) Notify owner Fill out test report

