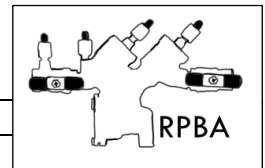


# RPBA Test Using Mako MK3 3-Valve Test Kit



Step	Procedure
1.	<b>NOTIFY OWNER</b> , identify, inspect, & observe assembly.
2.	<b>OPEN TEST COCKS</b> <ol style="list-style-type: none"> <li>Open and leave open Test Cock (TC) #4, then TC #3, TC #2, and finally TC #1</li> <li>Fully close TC #1, TC#2, TC #3, and TC #4</li> </ol> <b>Note:</b> If needed, install appropriate fittings to test cocks
3.	<b>ATTACH TEST KIT</b> <ol style="list-style-type: none"> <li>Verify MK3 is turned on and captured values are cleared (Hold Down the Back Button)</li> <li>Close all MK3 test kit valves</li> <li>Connect high side hose from MK3 to TC #2</li> <li>Connect low side hose from MK3 to TC #3</li> <li>Slowly open TC #2 fully and <b>RECORD line pressure reading (Press the Capture Button)</b></li> <li>Close TC #2</li> </ol>
4.	<b>BLEED AIR FROM HOSES</b> <ol style="list-style-type: none"> <li>Slowly open TC #3 fully</li> <li>Open bypass valve approximately 1 turn, then open low side valve (leave open)</li> <li>Slowly open TC #2 fully, then open high side valve (leave open)</li> </ol>
5.	<b>ISOLATE</b> <ol style="list-style-type: none"> <li>Close #2 shutoff valve</li> <li>Close high side valve</li> <li>Wait for MK3 psid reading to stabilize, then slowly close the low side valve</li> <li>Close the bypass valve</li> <li><b>If relief valve doesn't open, RECORD the reading (Press the Capture Button) as the apparent differential pressure across the #1 Check Valve.</b></li> </ol>
6.	<b>TEST RELIEF VALVE</b> <ol style="list-style-type: none"> <li>Open high side valve approximately 1 turn</li> <li>Slowly Open low side valve <i>no more than ¼ turn</i></li> <li><b>RECORD psid reading (Press the Capture Button) at first discharge of water from the Relief Valve</b></li> <li>Close low side valve</li> </ol>
7.	<b>TEST #2 CHECK VALVE</b> <ol style="list-style-type: none"> <li>Maintain #2 shutoff valve in closed position and MK3 high side valve in open position</li> <li>Attach bypass hose to bypass valve on MK3</li> <li>Bleed air from the bypass hose by opening the bypass valve, then close the bypass valve</li> <li>Attach the bypass hose from the MK3 to TC #4, then fully open TC #4</li> <li>Loosen low side hose on TC #3</li> <li>Once the reading exceeds the apparent differential pressure across #1 Check Valve,</li> <li>Slowly tighten the low side hose on TC #3</li> <li>Open the bypass valve and wait for psid reading to stabilize:</li> <li><b>RECORD the #2 Check Valve as "closed tight" (relief valve closed) or "leaked" (relief valve opens)</b></li> </ol>
8.	<b>TEST #1 CHECK VALVE</b> (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"> <li>With bypass hose still connected to TC #4 and high side and bypass valves remaining open,</li> <li>Loosen low side hose on TC #3 until reading exceeds the apparent differential pressure across #1 Check Valve</li> <li>Slowly tighten the low side hose on TC #3</li> <li>Once the reading stabilizes:</li> <li><b>RECORD psid reading (Press the Capture Button) across #1 Check Valve</b></li> </ol>
9.	<b>REMOVE EQUIPMENT</b> <ol style="list-style-type: none"> <li>Close all test cocks, remove all test equipment and fittings</li> <li>Slowly open #2 shutoff valve</li> <li>Open the high, low, and bypass valves; drain water from hose(s)</li> <li>Notify owner</li> <li>Fill out test report</li> </ol>

