RP FIELD TEST with a two-valve test kit

Preparation
NOTIFY CUSTOMER
INSPECT AREA
FLUSH TEST COCKS *(open 4, 3, 2, 1, then close 1, 2, 3, 4)*
INSTALL FITTINGS
INSPECT TEST KIT - CLOSE ALL NEEDLE VALVES

Observe
ATTACH HIGH PRESSURE HOSE TO TEST COCK 2

Check
ATTACH LOW PRESSURE HOSE TO TEST COCK 3

Valve #1
OPEN TEST COCK 3 SLOWLY then OPEN LOW BLEED NEEDLE VALVE
OPEN TEST COCK 2 SLOWLY then OPEN HIGH BLEED NEEDLE VALVE
CLOSE OUTLET SHUT-OFF VALVE
CLOSE BLEEDS - HIGH FIRST, LOW LAST
OBSERVE CHECK VALVE #1 - *(RECORD as CLOSED TIGHT or LEAKING)*

Record
ATTACH A THIRD HOSE (VENT HOSE) TO THE HIGH BLEED NEEDLE VALVE

Relief
OPEN HIGH BLEED SLIGHTLY TO BLEED AIR FROM VENT HOSE
OPEN HIGH BLEED VALVE 1 FULL TURN
OPEN LOW BLEED *SLIGHTLY* - NO MORE THAN 1/4 TURN
RECORD RV OPENING > or = 2.0 psi
CLOSE LOW BLEED NEEDLE VALVE – CLOSE HIGH BLEED NEEDLE VALVE

Observe
DISCONNECT VENT HOSE FROM LOW BLEED NEEDLE VALVE

Check
BLEED VENT HOSE TO REMOVE AIR

Valve #2
ATTACH THE VENT HOSE TO TEST COCK 4

Leaks or closed tight
CLOSE HIGH BLEED NEEDLE VALVE
OPEN TEST COCK 4
RESET GAUGE - (OPEN THEN CLOSE LOW BLEED)
OPEN HIGH BLEED NEEDLE VALVE ONE FULL TURN
OBSERVE WHETHER RELIEF VALVE VENT DRIPS
*(IF THE RELIEF VENT DRIPS, RESET GAUGE [low bleed] , IF RELIEF VALVE DRIPS A SECOND TIME, THEN CHECK VALVE 2 HAS FAILED AND MUST BE REPAIRED)*
*(RECORD as CLOSED TIGHT or LEAKING) Stop test here if CV#2 is leaking.*

Record Check
RESET GAUGE - (LOW BLEED)

Valve #1
RECORD CV 1 DIFFERENTIAL (5.0 psi min. and > RV opening)

Record Outlet Shutoff Valve
CLOSE TEST COCK 2 – *WAIT & CHECK GAUGE FOR LEAKS IN OUTLET SHUTOFF VALVE*
*(RECORD as CLOSED TIGHT or LEAKING)*

*If the needle on the gauge holds steady there is NO flow through the assembly, continue to next test.*

Record Check
CLOSE HIGH BLEED VALVE
CLOSE TEST COCKS 3 & 4
REMOVE VENT HOSE FROM TEST COCK 4
MOVE LOW HOSE TO TEST COCK 4
MOVE HIGH HOSE TO TEST COCK 3
OPEN TEST COCK 4 SLOWLY then OPEN LOW BLEED
OPEN TEST COCK 3 SLOWLY then OPEN HIGH BLEED
CLOSE HIGH BLEED FIRST, CLOSE LOW BLEED SLOWLY
RECORD CHECK VALVE 2 DIFFERENTIAL > or = 1.0 PSI

Final
CLOSE TEST COCKS - REMOVE ALL EQUIPMENT
OPEN ALL NEEDLE VALVES ON TEST KIT
OPEN OUTLET SHUT-OFF VALVE SLOWLY
2-Valve Differential Pressure Test Kit
Digital Gauge

Transducers

Bleed Valves

High Pressure Hose

Low Pressure Hose