WHY AN AIR RELEASE VALVE OPENS DURING SYSTEM OPERATION

COMPOUND LEVER TYPE

SYSTEM PRESSURE X ORIFICE AREA
150 PSI X 0.5 SQ. IN. = 75 LBS.

FLOAT WEIGHT X
1st MECH. ADV. X 2nd MECH. ADV.
1.6 LBS. X 8 X 6 = 76.8 LBS.

CONCLUSION: VALVE WILL OPEN AND VENT ACCUMULATED AIR.