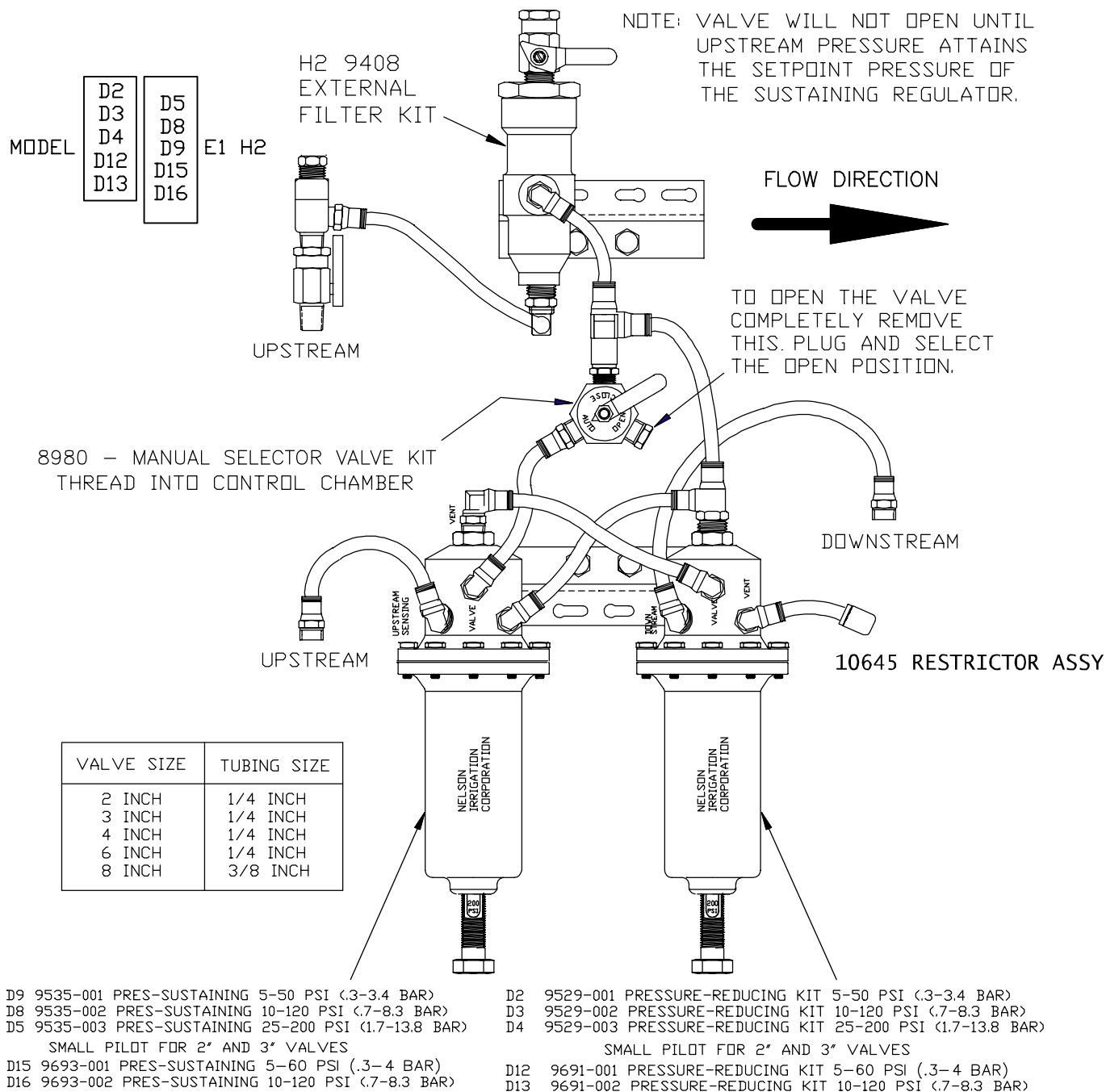


COMBINATION PRESSURE SUSTAINING & REDUCING WITH EXTERNAL FILTER



SEE SHEET TITLED "PRESSURE SUSTAINING & REDUCING ADJUSTING PROCEDURE"

COMBINATION PRESSURE SUSTAINING & REDUCING ADJUSTMENT PROCEDURE

FOR VALVES JUST DOWNSTREAM OF PUMPS

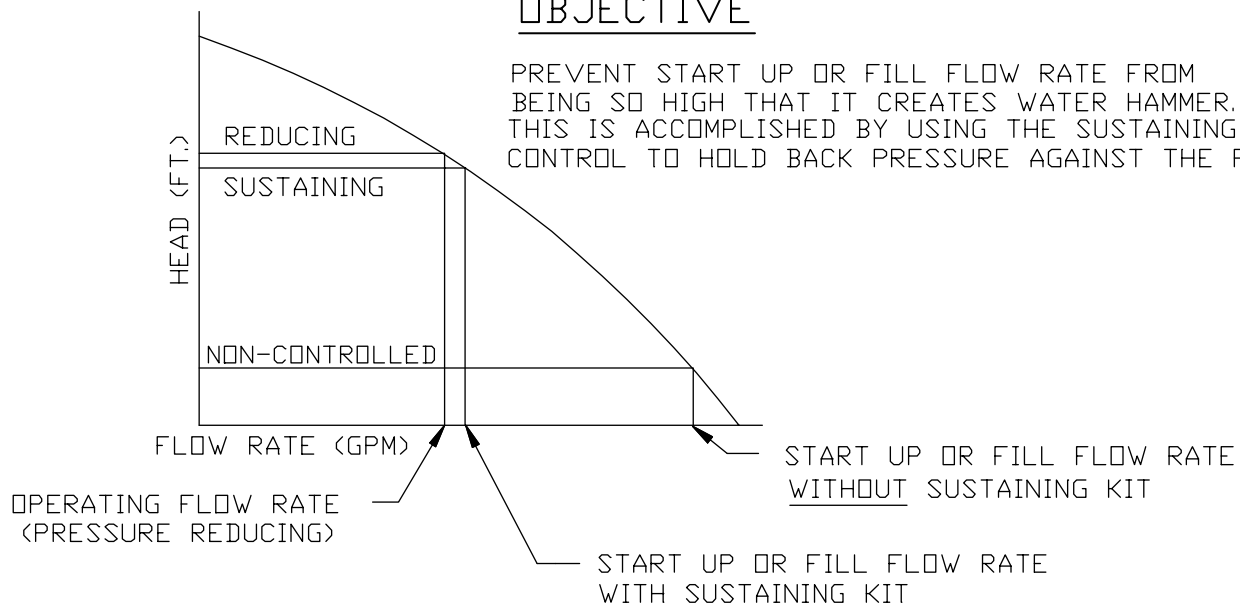
1. ADJUST THE PRESSURE-REDUCING KIT (DOWNSTREAM REGULATOR) TO MAINTAIN THE DESIRED REGULATED PRESSURE WITH THE IRRIGATION SYSTEM OPERATING.
2. ADJUST THE PRESSURE SUSTAINING KIT (UPSTREAM REGULATOR) TO APPROX. 10 PSI (.7 BAR) LESS THAN THE REDUCING KIT.

NOTE: IF YOU HAVE TROUBLE MAINTAINING THE DESIRED DOWNSTREAM PRESSURE.

- A. SET THE PRESSURE SUSTAINING CONTROL TO 0 PSI.
- B. ADJUST THE PRESSURE-REDUCING CONTROL TO THE DESIRED DOWNSTREAM PRESSURE.
- C. RECORD THE UPSTREAM PRESSURE.
- D. SET THE PRESSURE SUSTAINING CONTROL TO A PRESSURE LESS THAN THE PRESSURE RECORDED IN STEP C.

OBJECTIVE

PREVENT START UP OR FILL FLOW RATE FROM BEING SO HIGH THAT IT CREATES WATER HAMMER. THIS IS ACCOMPLISHED BY USING THE SUSTAINING CONTROL TO HOLD BACK PRESSURE AGAINST THE PUMP.



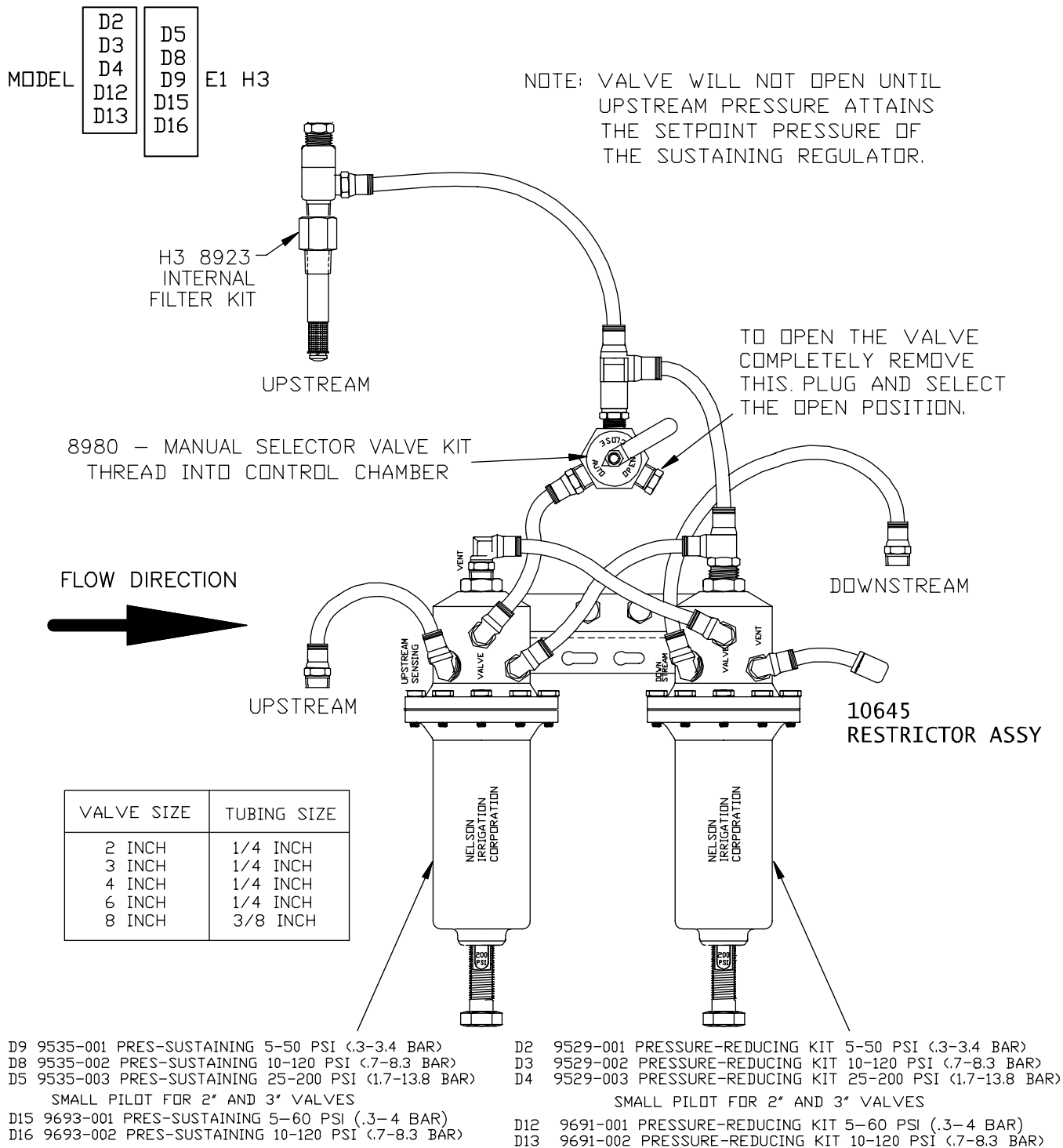
FOR VALVES JUST DOWNSTREAM OF SAND MEDIA FILTERS

1. ADJUST THE PRESSURE-REDUCING KIT (DOWNSTREAM REGULATOR) TO MAINTAIN THE DESIRED REGULATED PRESSURE WITH THE IRRIGATION SYSTEM OPERATING.
2. ADJUST THE PRESSURE SUSTAINING KIT (UPSTREAM REGULATOR) TO MAINTAIN THE DESIRED UPSTREAM PRESSURE AGAINST THE SAND MEDIA FILTERS FOR THE CORRECT BACK FLUSH PRESSURE NEEDED.

NOTE: IF YOU HAVE TROUBLE MAINTAINING THE DESIRED DOWNSTREAM PRESSURE.

- A. SET THE PRESSURE SUSTAINING CONTROL TO 0 PSI.
- B. ADJUST THE PRESSURE-REDUCING CONTROL TO THE DESIRED DOWNSTREAM PRESSURE.
- C. RECORD THE UPSTREAM PRESSURE.
- D. SET THE PRESSURE SUSTAINING CONTROL TO A PRESSURE LESS THAN THE PRESSURE RECORDED IN STEP C. (CAUTION: IF SUSTAINING PRESSURE IS BELOW SAND MEDIA FILTER MANUFACTURER'S RECOMMENDED PRESSURE, THEN FIND OUT WHY THERE IS NOT ENOUGH FLOW/PRESSURE AVAILABLE TO THE SYSTEM).

COMBINATION PRESSURE SUSTAINING & REDUCING WITH INTERNAL FILTER



SEE SHEET TITLED "PRESSURE SUSTAINING & REDUCING ADJUSTING PROCEDURE"

COMBINATION PRESSURE SUSTAINING & REDUCING ADJUSTMENT PROCEDURE

FOR VALVES JUST DOWNSTREAM OF PUMPS

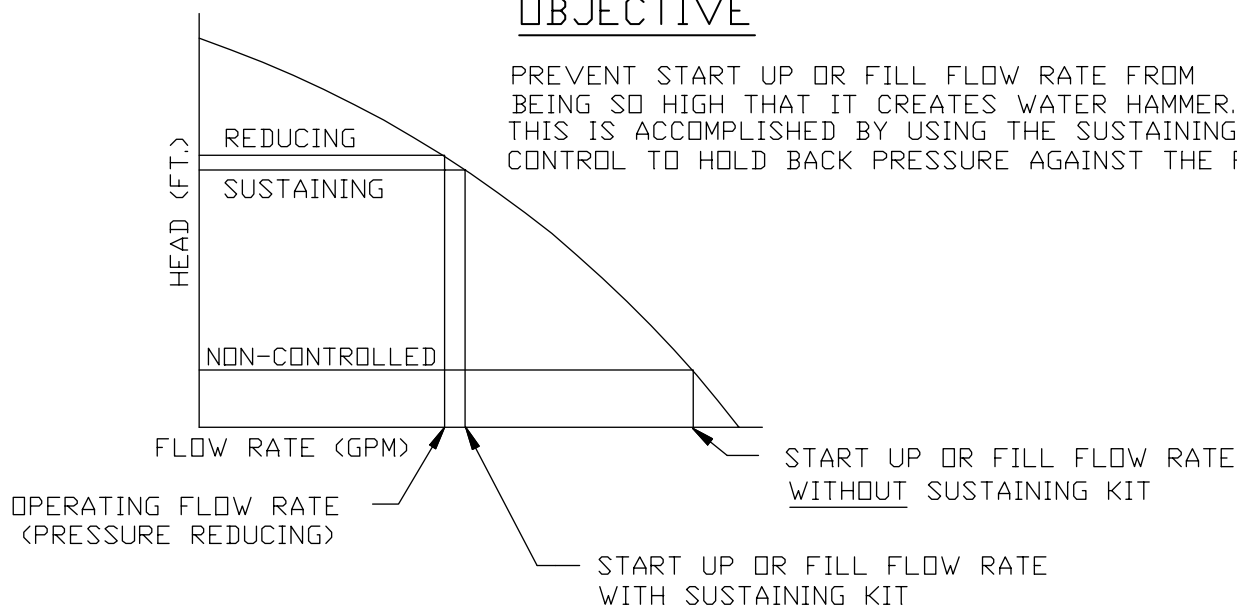
1. ADJUST THE PRESSURE-REDUCING KIT (DOWNSTREAM REGULATOR) TO MAINTAIN THE DESIRED REGULATED PRESSURE WITH THE IRRIGATION SYSTEM OPERATING.
2. ADJUST THE PRESSURE SUSTAINING KIT (UPSTREAM REGULATOR) TO APPROX. 10 PSI (.7 BAR) LESS THAN THE REDUCING KIT.

NOTE: IF YOU HAVE TROUBLE MAINTAINING THE DESIRED DOWNSTREAM PRESSURE.

- A. SET THE PRESSURE SUSTAINING CONTROL TO 0 PSI.
- B. ADJUST THE PRESSURE-REDUCING CONTROL TO THE DESIRED DOWNSTREAM PRESSURE.
- C. RECORD THE UPSTREAM PRESSURE.
- D. SET THE PRESSURE SUSTAINING CONTROL TO A PRESSURE LESS THAN THE PRESSURE RECORDED IN STEP C.

OBJECTIVE

PREVENT START UP OR FILL FLOW RATE FROM BEING SO HIGH THAT IT CREATES WATER HAMMER. THIS IS ACCOMPLISHED BY USING THE SUSTAINING CONTROL TO HOLD BACK PRESSURE AGAINST THE PUMP.



FOR VALVES JUST DOWNSTREAM OF SAND MEDIA FILTERS

1. ADJUST THE PRESSURE-REDUCING KIT (DOWNSTREAM REGULATOR) TO MAINTAIN THE DESIRED REGULATED PRESSURE WITH THE IRRIGATION SYSTEM OPERATING.
2. ADJUST THE PRESSURE SUSTAINING KIT (UPSTREAM REGULATOR) TO MAINTAIN THE DESIRED UPSTREAM PRESSURE AGAINST THE SAND MEDIA FILTERS FOR THE CORRECT BACK FLUSH PRESSURE NEEDED.

NOTE: IF YOU HAVE TROUBLE MAINTAINING THE DESIRED DOWNSTREAM PRESSURE.

- A. SET THE PRESSURE SUSTAINING CONTROL TO 0 PSI.
- B. ADJUST THE PRESSURE-REDUCING CONTROL TO THE DESIRED DOWNSTREAM PRESSURE.
- C. RECORD THE UPSTREAM PRESSURE.
- D. SET THE PRESSURE SUSTAINING CONTROL TO A PRESSURE LESS THAN THE PRESSURE RECORDED IN STEP C. (CAUTION: IF SUSTAINING PRESSURE IS BELOW SAND MEDIA FILTER MANUFACTURER'S RECOMMENDED PRESSURE, THEN FIND OUT WHY THERE IS NOT ENOUGH FLOW/PRESSURE AVAILABLE TO THE SYSTEM).