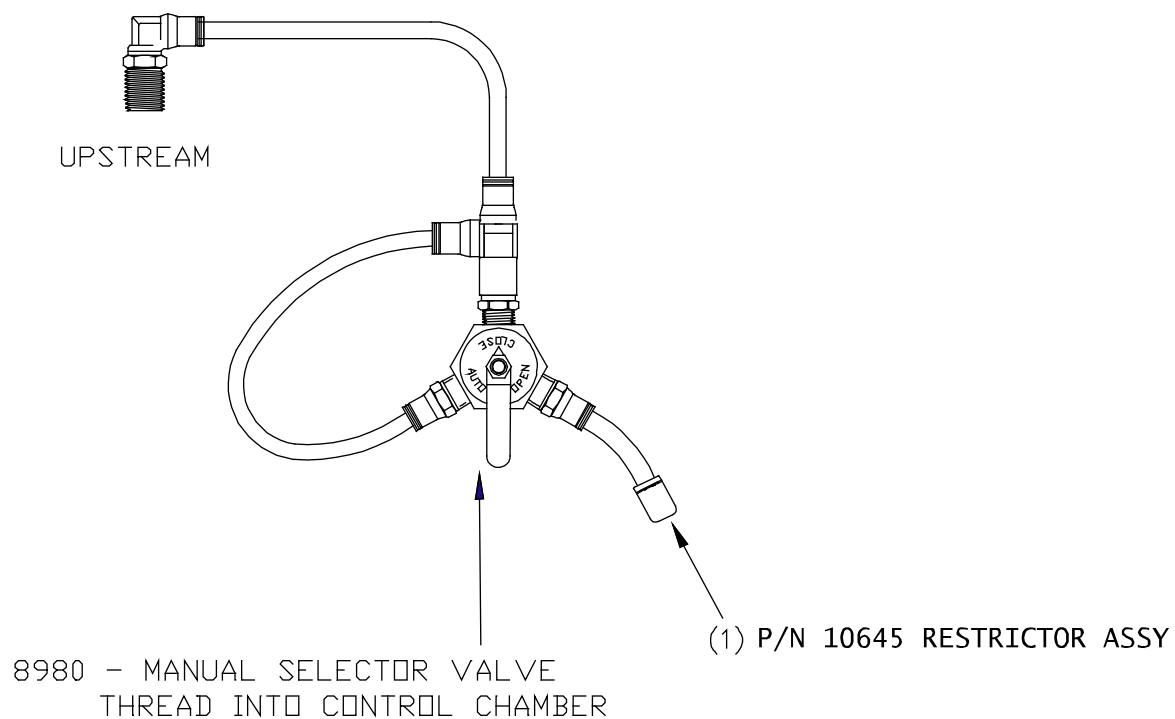


MANUAL ON/OFF

MODEL D1E1H1

FLOW DIRECTION



SOLENOID WITH INTERNAL FILTER

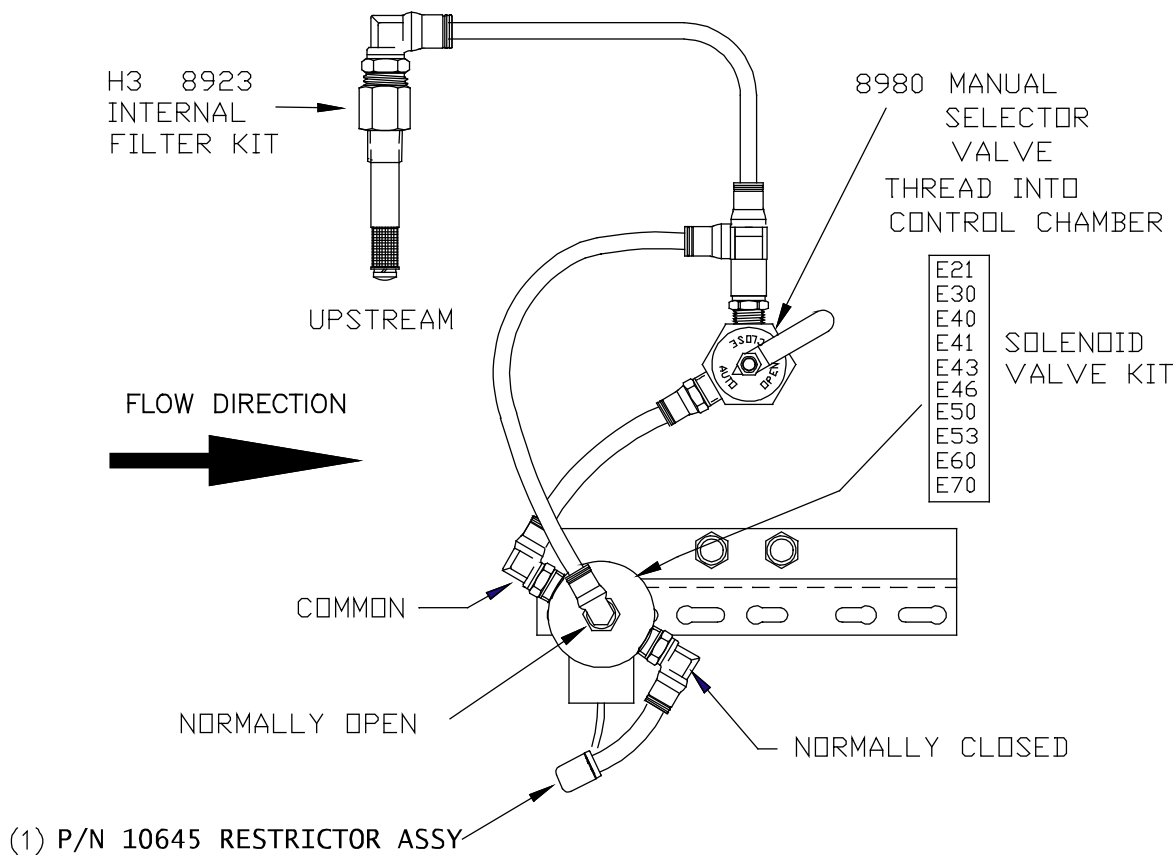
CLOSED: WHEN THE SOLENOID IS DE-ENERGIZED, UPSTREAM PRESSURE IS APPLIED TO THE CONTROL CHAMBER CLOSING THE MAIN VALVE.

OPEN: WHEN THE SOLENOID IS ENERGIZED, THE MAIN VALVE IS OPENED BY VENTING THE CONTROL CHAMBER TO ATMOSPHERE.

MODEL # D1

H3

- E21
- E30
- E40
- E41
- E43
- E46
- E50
- E53
- E60
- E70



SOLENOID WITH EXTERNAL FILTER

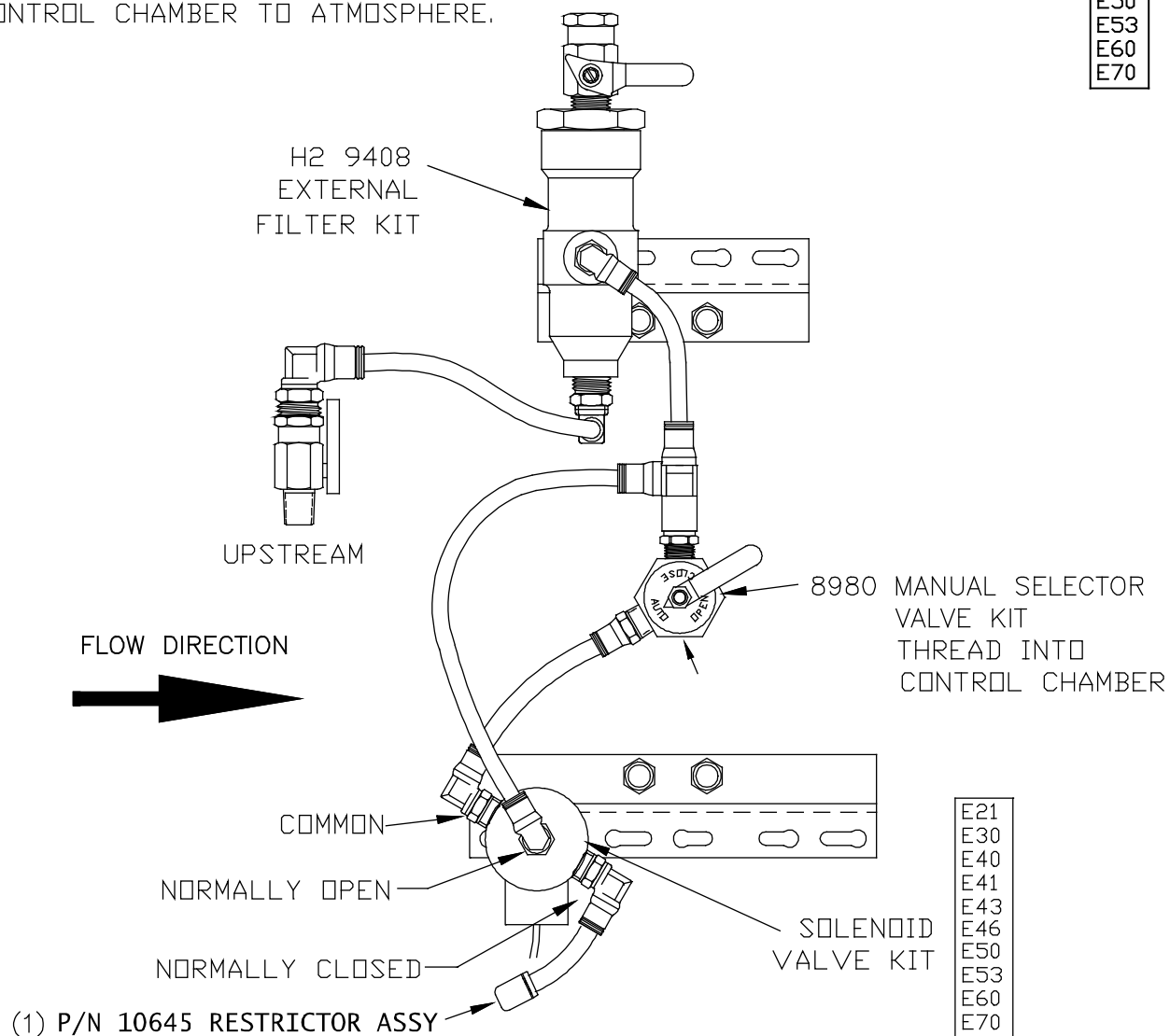
CLOSED: WHEN THE SOLENOID IS DE-ENERGIZED,
UPSTREAM PRESSURE IS APPLIED TO THE CONTROL
CHAMBER CLOSING THE MAIN VALVE.

OPEN: WHEN THE SOLENOID IS ENERGIZED,
THE MAIN VALVE IS OPENED BY VENTING THE
CONTROL CHAMBER TO ATMOSPHERE.

MODEL # D1

H2

E21
E30
E40
E41
E43
E46
E50
E53
E60
E70



LARGE SOLENOID WITH INTERNAL FILTER

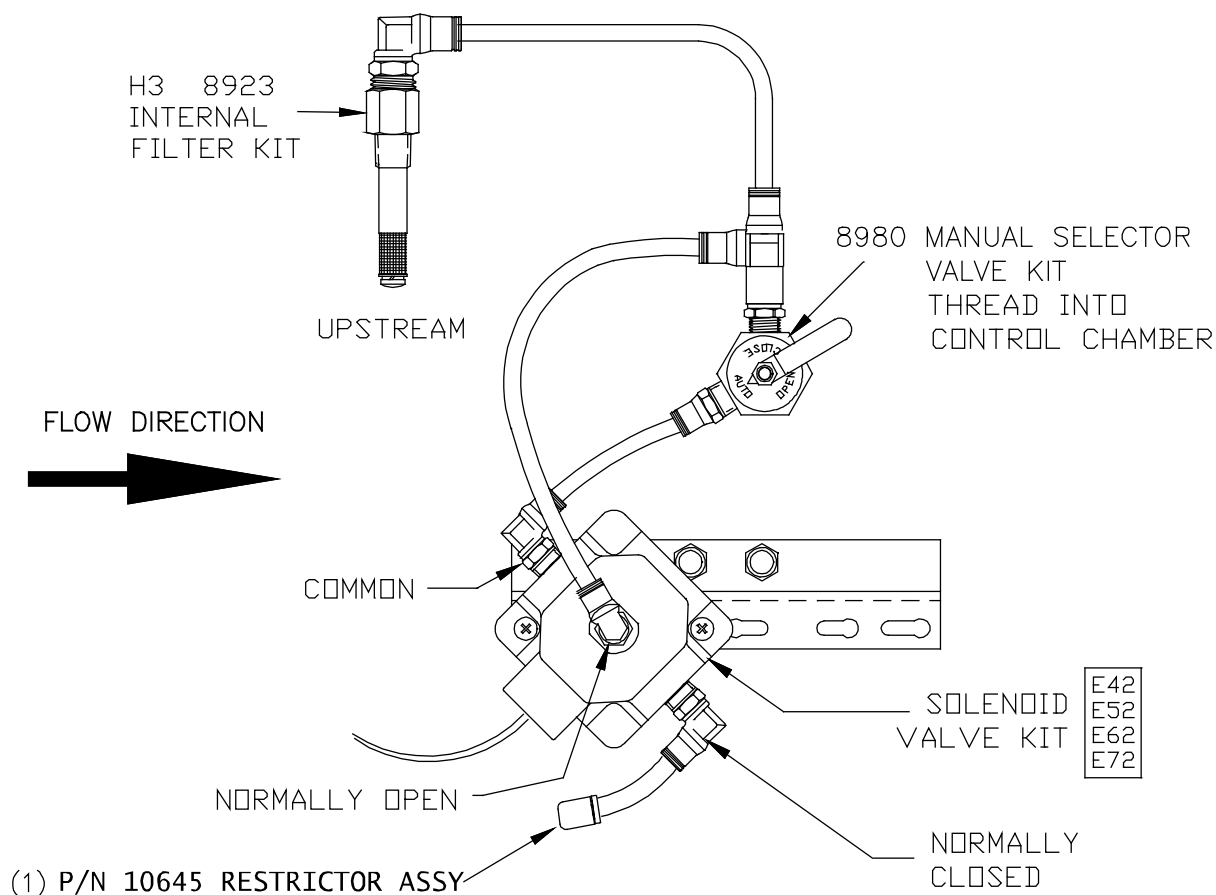
CLOSED: WHEN THE SOLENOID IS DE-ENERGIZED, UPSTREAM PRESSURE IS APPLIED TO THE CONTROL CHAMBER CLOSING THE MAIN VALVE.

MODEL # D1

E42
E52
E62
E72

H3

OPEN: WHEN THE SOLENOID IS ENERGIZED, THE MAIN VALVE IS OPENED BY VENTING THE CONTROL CHAMBER TO ATMOSPHERE.



THE LARGE SOLENOID IN THIS CONFIGURATION ALLOWS THE SIX AND EIGHT-INCH VALVES TO OPEN AND CLOSE EXTREMELY FAST AND WILL SELDOM BE DESIRABLE. THE TWO-, THREE-, & FOUR-INCH VALVES CAN OPEN AND CLOSE PLENTY FAST USING THE SMALLER SOLENOID.

LARGE SOLENOID WITH EXTERNAL FILTER

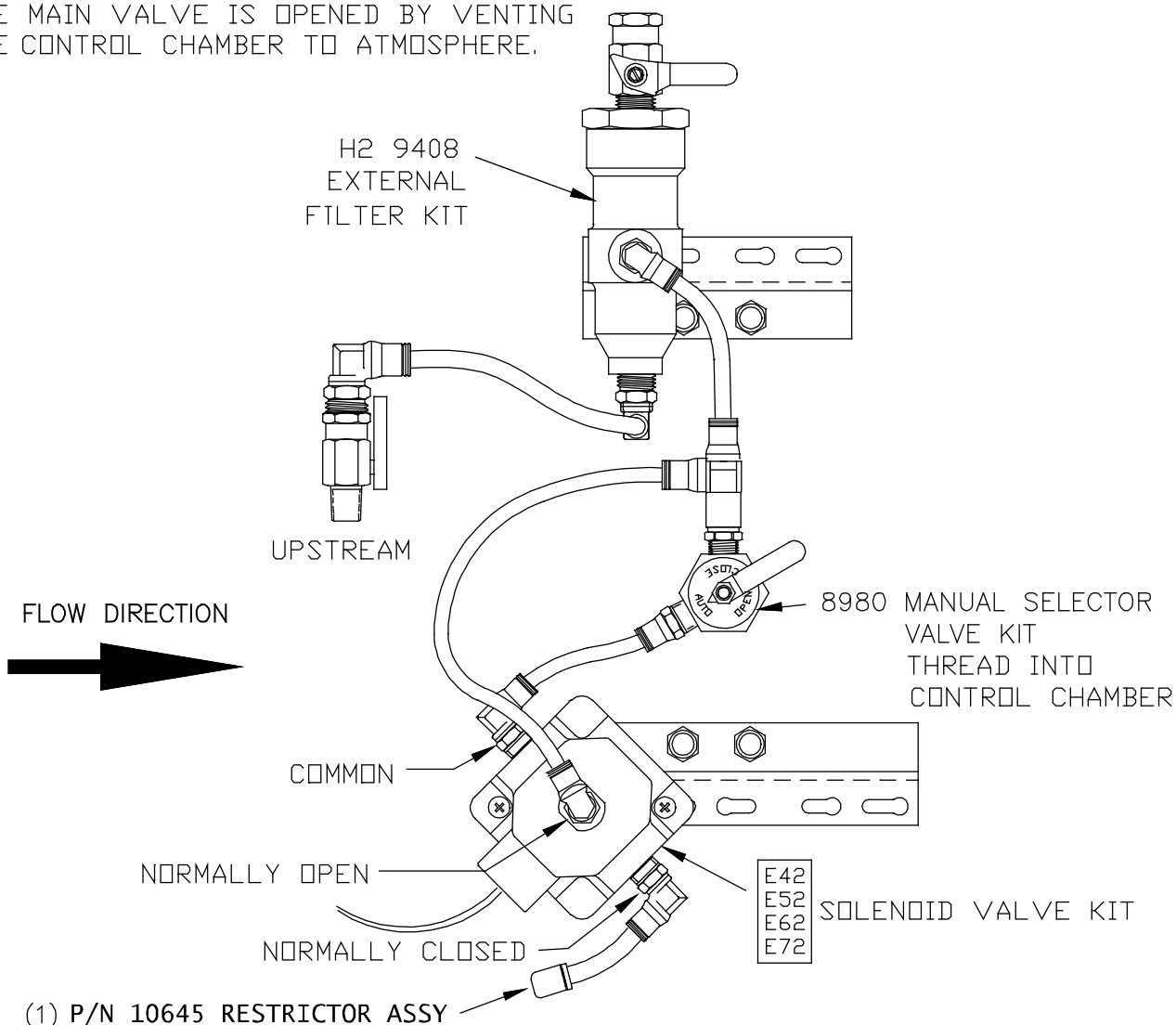
CLOSED: WHEN THE SOLENOID IS DE-ENERGIZED, UPSTREAM PRESSURE IS APPLIED TO THE CONTROL CHAMBER CLOSING THE MAIN VALVE.

OPEN: WHEN THE SOLENOID IS ENERGIZED, THE MAIN VALVE IS OPENED BY VENTING THE CONTROL CHAMBER TO ATMOSPHERE.

MODEL # D1

 E42
 E52
 E62
 E72

H2



THE LARGE SOLENOID IN THIS CONFIGURATION ALLOWS THE SIX AND EIGHT-INCH VALVES TO OPEN AND CLOSE EXTREMELY FAST AND WILL SELDOM BE DESIRABLE. THE TWO-, THREE-, & FOUR-INCH VALVES CAN OPEN AND CLOSE QUICKLY USING THE SMALLER SOLENOID.

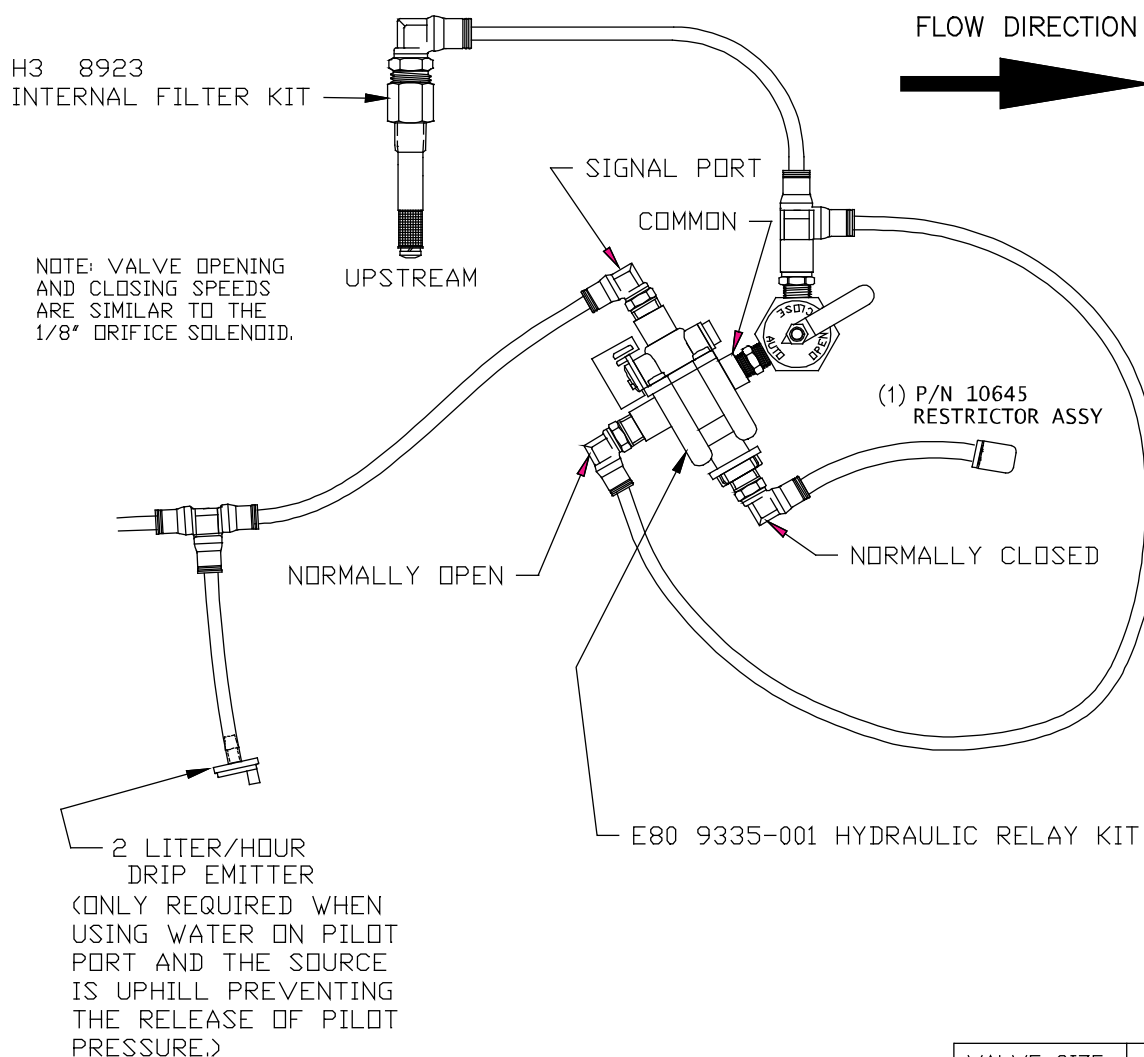
HYDRAULIC RELAY WITH INTERNAL FILTER

CLOSED: WHEN THE HYDRAULIC RELAY DOES NOT HAVE PRESSURE AT THE SIGNAL PORT, UPSTREAM PRESSURE IS APPLIED TO THE CONTROL CHAMBER CLOSING THE MAIN VALVE.

MODEL # D1 E80 H3

OPEN: WHEN THE RELAY HAS PRESSURE APPLIED TO THE SIGNAL PORT, THE MAIN VALVE IS OPENED BY VENTING THE CONTROL CHAMBER TO ATMOSPHERE.

NOTE: SIGNAL PORT PRESSURE MUST BE EQUAL TO OR GREATER THAN UPSTREAM PRESSURE IN ORDER TO ACTIVATE HYDRAULIC RELAY CORRECTLY.



VALVE SIZE	TUBING SIZE
2 INCH	1/4 INCH
3 INCH	1/4 INCH
4 INCH	1/4 INCH
6 INCH	1/4 INCH
8 INCH	1/4 INCH

NORMALLY CLOSED SOLENOID ACTUATED HYD. RELAY & INT. FILTER

THE VALVE WILL REMAIN CLOSED AS LONG AS THE SOLENOID ATTACHED TO THE HYDRAULIC RELAY IS DE-ENERGIZED. ONCE THE SOLENOID IS ENERGIZED THE VALVE BEGINS TO OPEN.

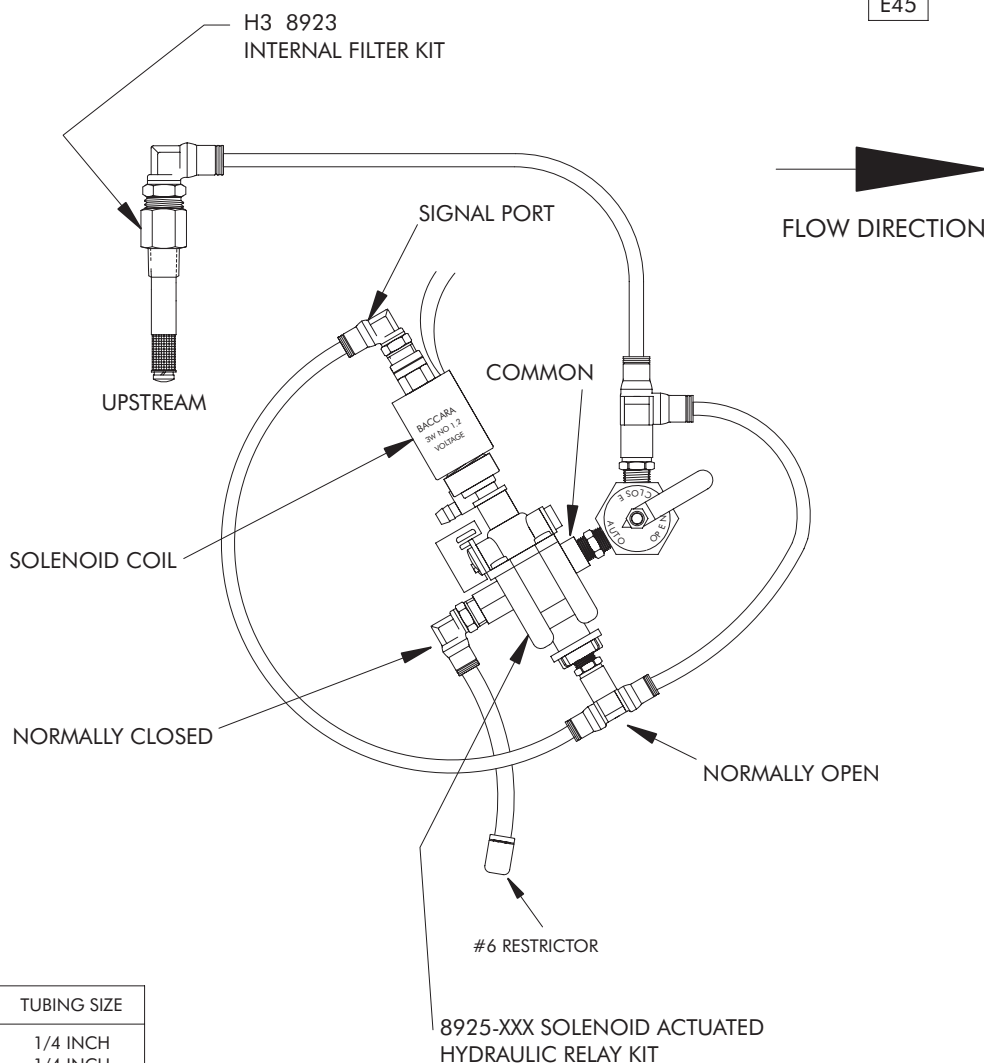
SOLENOID ENERGIZED: VALVE WILL OPEN BY VENTING CONTROL CHAMBER TO ATMOSPHERE.

SOLENOID DE-ENERGIZED: VALVE WILL CLOSE BY APPLYING UPSTREAM PRESSURE TO CONTROL CHAMBER.

MODEL #

E24
E45

D1 H3



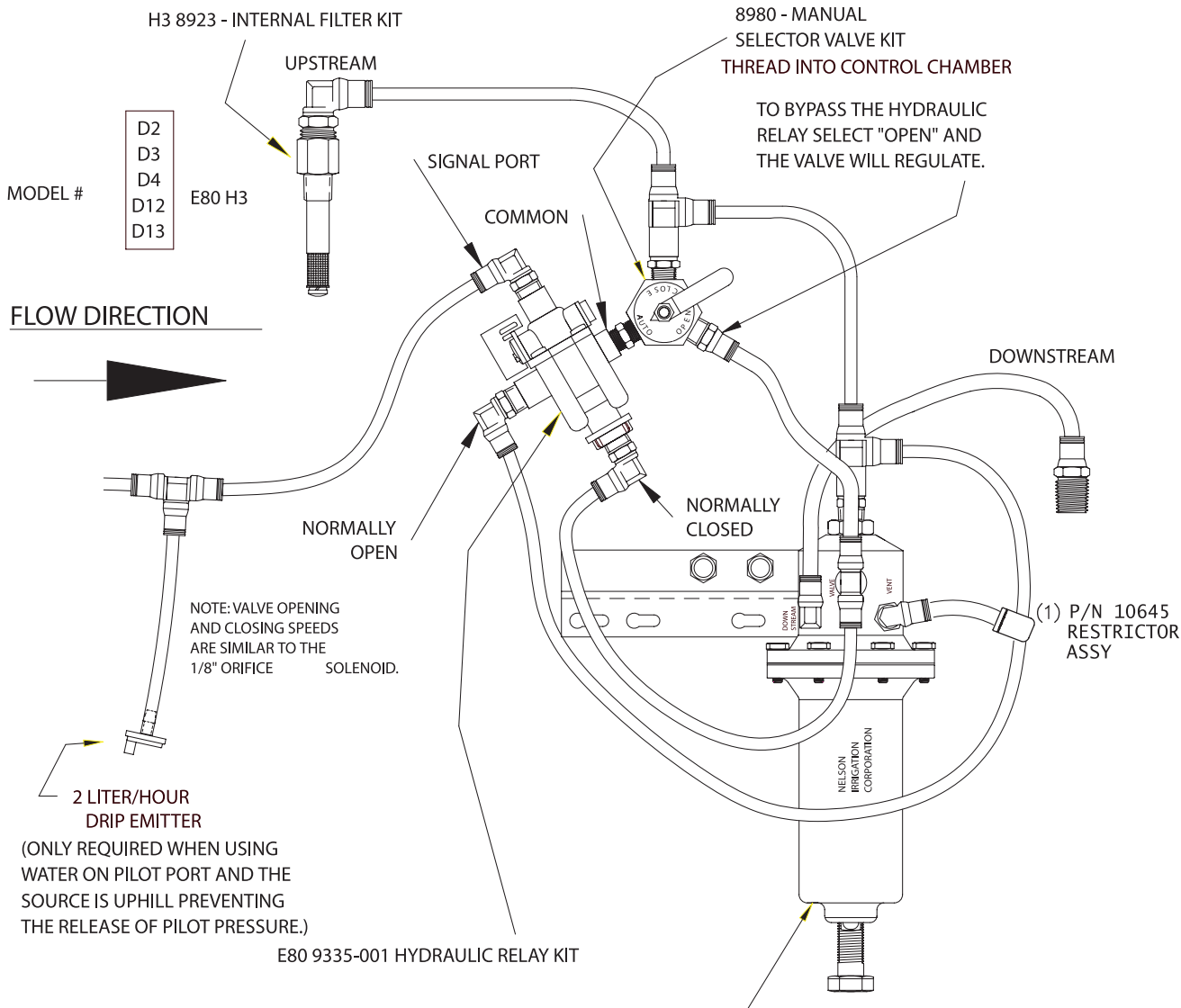
VALVE SIZE	TUBING SIZE
2 INCH	1/4 INCH
3 INCH	1/4 INCH
4 INCH	1/4 INCH
6 INCH	1/4 INCH
8 INCH	1/4 INCH

PRESSURE REDUCING WITH HYDRAULIC RELAY & INTERNAL FILTER

HYDRAULIC RELAY PRESSURIZED AT SIGNAL PORT: PRESSURE-REDUCING VALVE AUTOMATICALLY REDUCES A HIGHER INLET PRESSURE TO A CONSTANT OUTLET PRESSURE REGARDLESS OF VARYING INLET PRESSURE AND/OR CHANGING FLOW RATE.

HYDRAULIC RELAY NOT PRESSURIZED AT SIGNAL PORT: VALVE WILL CLOSE.

NOTE: SIGNAL PORT PRESSURE MUST BE EQUAL TO OR GREATER THAN UPSTREAM PRESSURE IN ORDER TO ACTIVATE HYDRAULIC RELAY CORRECTLY.



- MODEL #
- D2
 - D3
 - D4
 - D12
 - D13



NOTE: VALVE OPENING AND CLOSING SPEEDS ARE SIMILAR TO THE 1/8" ORIFICE SOLENOID.

2 LITER/HOUR DRIP EMITTER
(ONLY REQUIRED WHEN USING WATER ON PILOT PORT AND THE SOURCE IS UPHILL PREVENTING THE RELEASE OF PILOT PRESSURE.)

VALVE SIZE	TUBING SIZE
2 INCH	1/4 INCH
3 INCH	1/4 INCH
4 INCH	1/4 INCH
6 INCH	1/4 INCH
8 INCH	1/4 INCH

- D2 9529-001 PRESSURE-REDUCING KIT 5-50 PSI (.3-3.4 BAR)
 - D3 9529-002 PRESSURE-REDUCING KIT 10-120 PSI (.7-8.3 BAR)
 - D4 9529-003 PRESSURE-REDUCING KIT 25-200 PSI (1.7-13.8 BAR)
- SMALL PILOT FOR 2" AND 3" VALVES
- D12 9691-001 PRESSURE-REDUCING KIT 5-60 PSI (.3-4 BAR)
 - D13 9691-002 PRESSURE-REDUCING KIT 10-120 PSI (.7-8.3 BAR)