SUNTEC MODEL A-7400 FUEL UNIT

SOLENOID DUMPING PUMP

(CLOSED - OR ENERGIZED - POSITION)

SOLENOID

VALVE

D = Delay

PISTON

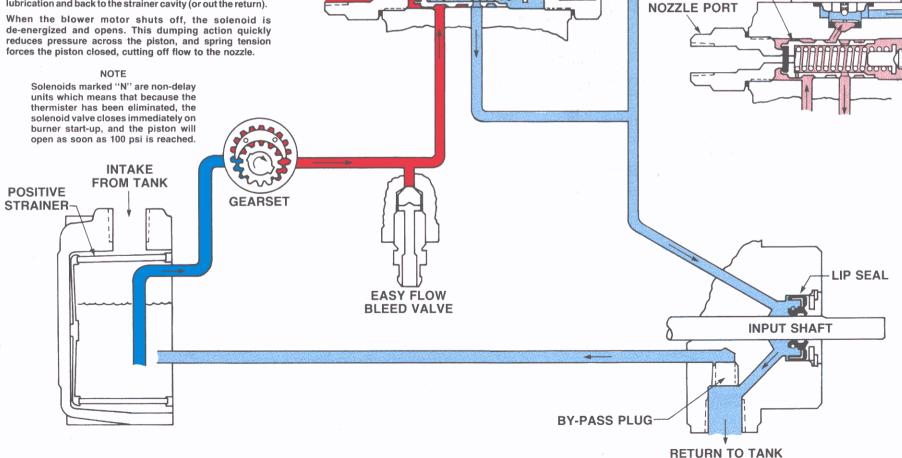
ASSEMBLY-

NOZZLE PORT

N = Non Delay

The A-74 series pump is the ultimate in fuel unit design. With a dumping solenoid incorporated in the charge circuit, nozzle cut-off occurs quickly, while the blower is at nearly full speed. The solenoid itself contains a thermister which provides an approximate delay of 2 seconds on start-up. ensuring nozzle cut-on at high blower speeds.

Unlike the A-70 series, the A-74 does not contain a cone valve or diaphragm valve. These are replaced by the solenoid which is wired in parallel with the blower motor. When the blower starts, the solenoid is energized. Due to the 2 second delay, the solenoid remains open and low pressure oil (at approximately 40-50 psi) from the gearset is ported around the piston, into the seal cavity and back to the strainer cavity (or out the return). When the thermister warms up and completes the circuit, the solenoid valve closes. With the valve closed, the oil is now pressurized to 100 psi which forces the piston open allowing oil to be ported to the nozzle. Excess oil is ported to the seal chamber for lubrication and back to the strainer cavity (or out the return).



PRESSURE

ADJUSTING

-SCREW

PISTON

ASSEMBLY

(OPEN - OR DE-ENERGIZED - POSITION)

SOLENOID

VALVE

SUNTEC MODEL B-8400 FUEL UNIT

SOLENOID DUMPING PUMP

(CLOSED - OR ENERGIZED - POSITION)

