GRESEN®



Engineering Data



DIRECTIONAL CONTROLS

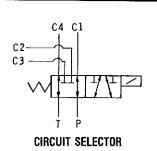
SELECTOR VALVE SIX PORTED

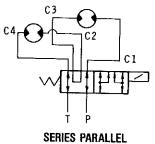
3/8"

3000 PSI 8 THRU 14 GPM

CIRCUIT SELECTOR AND SERIES — PARALLEL SELECTOR

STACKABLE





SYMBOL

SPECIFICATIONS-

PRESSURE RATING -- 3000 psi (207 bar, 20,700 kPa) all ports.

FLOW RATINGS -- 8 gpm (30,3 l/min.) @ 3000 psi (207 bar, 20,700 kPa) 10 gpm (37.8 l/min.) @ 2000 psi (138 bar, 13,800 kPa)

14 gpm (52.9 1/min.) @ 1000 psi (69 bar, 6,900 kPa)

SOLENOID VOLTAGE OPTIONS -= 9, 12, 24, 36, & 48 VDC and AC Rectified 115 Volts.

RES PONSE TIME -- Solenoid Energized ----- .080 seconds. Spring Return ----- .030 seconds.

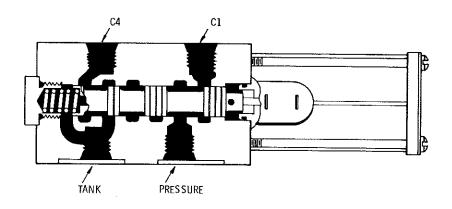
FLUID RECOMMENDATIONS -- Premium grade hydraulic fluid which matches the viscosity requirements of the pump.

MOUNTING -- Valve mounting is unrestricted. Valve can be mounted as a single valve or stacked together as required.

MATERIAL -- Gray Iron Body. Hardened Steel Spool.

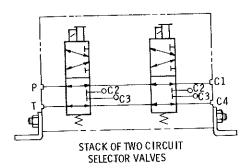
WEIGHT (Approx.) -- 8.75 lbs. (3.9 kg.)

PICTORIAL-

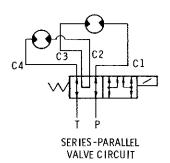


OPERATIONAL DATA

CIRCUIT SELECTOR VALVE-- In normal position, Port "P" is connected to Port "C1" and Port "T" is connected to Port "C4". Ports "C2" and "C3" located at 90 from the "C1" and "C4" ports are blocked. When the solenoid is energized, "P" is connected to "C2" and Port "T" is connected to "C3". Ports "C1" and "C4" are blocked. When circuit selector valves are stacked, the "C1" and "C4" ports lead to "P" and "T" of the adjacent valve.



SERIES-PARALLEL SELECTOR VALVE-- Used to select either series operation or parallel operation of two actuators, in normal position, Port "P." is connected to "C1"; "C2" is connected to "C3", while "T" is connected to "C4" for series operation. When the solenoid is energizes, "P" is connected to both "C1" and "C2", while "C3" and "C4" are both connected to "T" for parallel operation.



PERFORMANCE CHARACTERISTICS

TYPICAL LEAKAGE DATA

PRESSURE	MAXIMUM LEAKAGE PER PRESSURIZED PATH	
1000 PS I	10 CIPM	
2000 PS1	20 CIPM	
3000 PS I	20.01514	

DATA TAKEN WITH FLUID VISCOSITY OF 112 SUS (23.4 cSt) @ 120 F (48.8 C)

SOLENOID DATA

	Series 9 Encapsulated DC Solenoid	Series 9 Encapsulated AC Rect. Solenoid
Duty	Continuous	30 Min. maximum in 1 Hour *
Wattage @ 70 F	48	55
Wattage After 10 Minutes Cont- inuous Duty	29	33

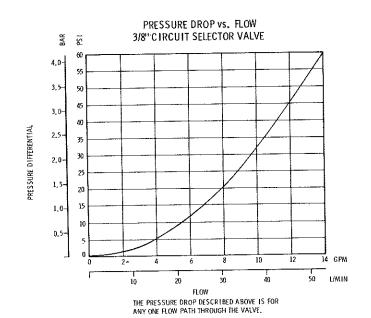
RES PONSE TIME

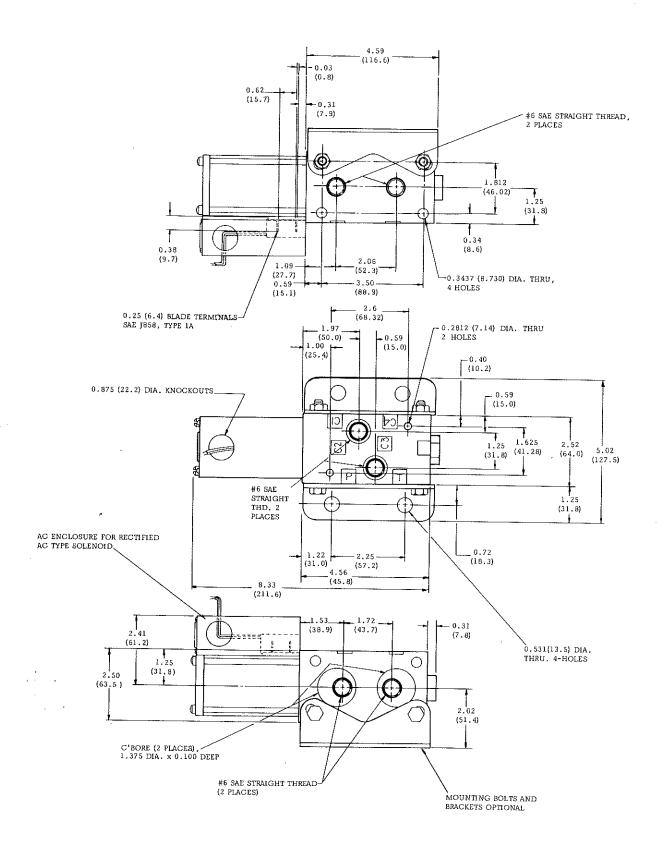
SOLENOID ENERGIZED - 80 Milliseconds SPRING RETURN

30 Milliseconds

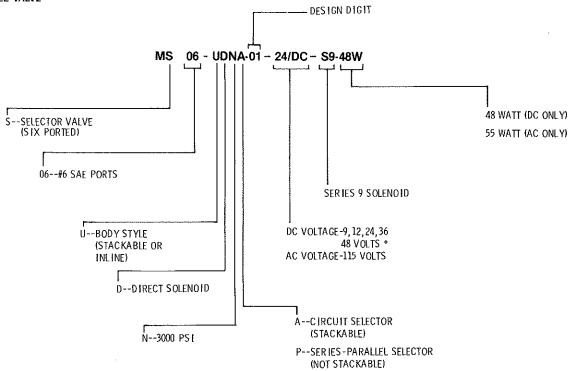
NOTE: DC SOLENOIDS AVAILABLE WITH 9,12,24,36, & 48 VDC COILS. CONSULT FACTORY FOR OTHER VOLTAGES *High Temperature May Cause Rectifier Failure. Hot Fluid, High Ambient Temperature And/Or Extended Use May Combine To Cause Overheating.

Response time is the elapsed time between initiation or interruption of the electrical signal to the solenoid and the first indication of pressure changes in the affected ports.





3/8" CIRCUIT SELECTOR AND SERIES PARALLEL VALVE



*EXTENDED MANUAL PUSH PINS & PALM BUTTONS ARE AVAILABLE

STACKING KITS

