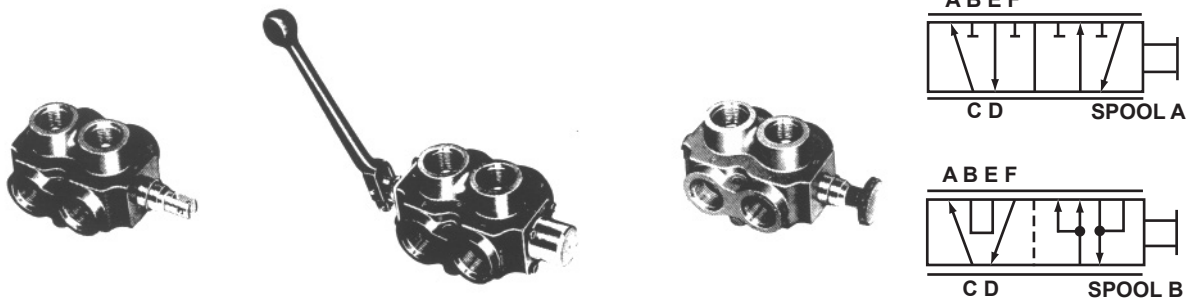


# SD Series

Hydraulic Selector Valve



The CROSS series SD hydraulic selector valves are spool type, manually operated, 6-way, 2-position valves featuring cast-in metering notches for smooth operation. They provide an economical method of diverting flow to two separate hydraulic circuits or providing various types of multiple system operations in combination with other valves.

## GENERAL SPECIFICATIONS

|                                                                                 |                      |
|---------------------------------------------------------------------------------|----------------------|
| Maximum working pressure .....                                                  | 5000 * psi (172 bar) |
| Maximum shock and surge pressure .....                                          | 6000 * psi (242 bar) |
| Maximum flow capacity .....                                                     | 40 gpm (151 l/min)   |
| Mounting.....                                                                   | 2 bolt, any position |
| Shipping Weight: .....                                                          | 9 lbs (4 kg)         |
| *SAE #12 ports and smaller, 4500 psi for SAE #16 ports, 2500 psi for NPTF ports |                      |

## MATERIAL SPECIFICATIONS

|             |                                         |
|-------------|-----------------------------------------|
| Body .....  | High tensile strength cast iron         |
| Spool ..... | Ground, plated and polished steel alloy |
| Seals ..... | Buna N                                  |

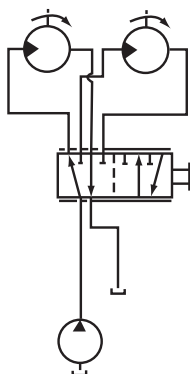
## STANDARD FEATURES

- 1-1/16 - 12 (3/4" SAE #12) o-ring ports
- Knob actuator (at port 'C')
- Standard selector spool

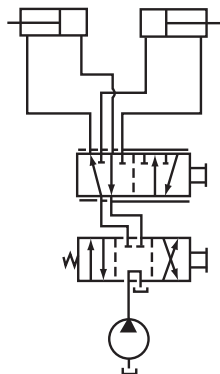
## OPTIONAL FEATURES AVAILABLE

- 3/4 - 16 (1/2" SAE #8) ports
- Handle Actuator
- Clevis
- Detent
- Spring return with wiper seal
- Actuator at port 'D'
- Series/parallel spool

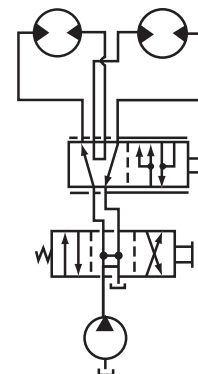
## TYPICAL APPLICATION (Simplified circuits)



**CIRCUIT SELECTOR**  
Allows either motor to be driven uni-directionally.



**CIRCUIT SELECTOR**  
Allows either cylinder to be operated by one directional control valve.



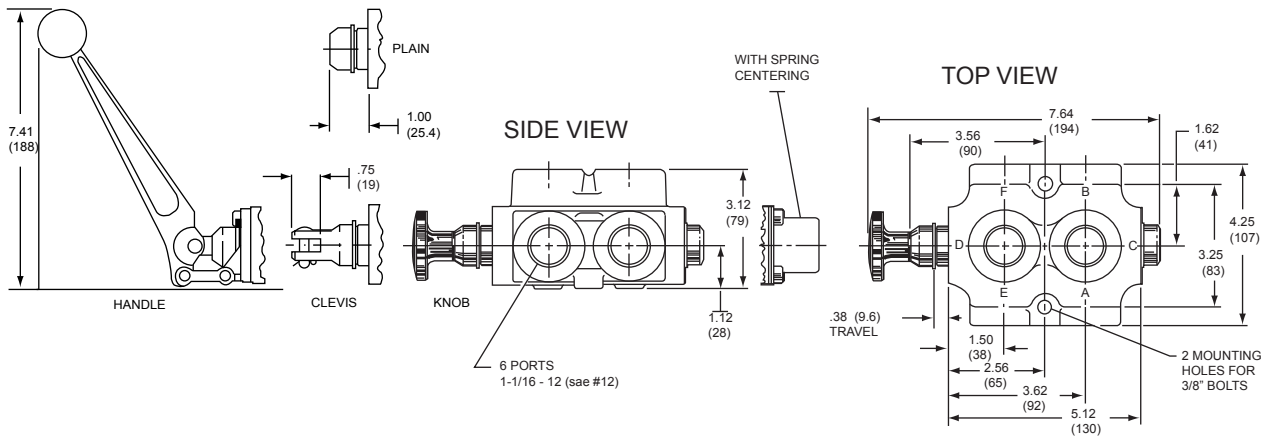
**SERIES/PARALLEL**  
Allows selection if either series or parallel motor operation.

# SD Series

Hydraulic Selector Valve

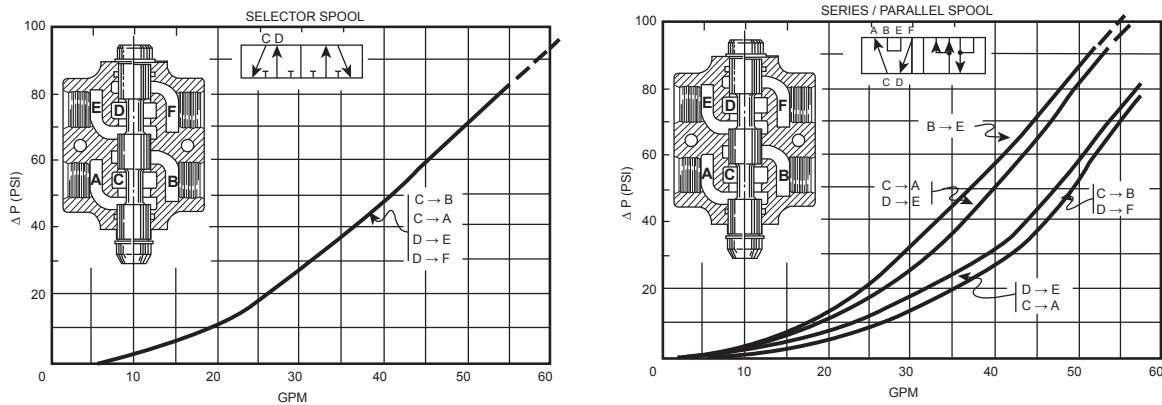


## DIMENSIONAL DATA: in inches and (millimetres)



## PERFORMANCE DATA: (Typical)

FLOW VS PRESSURE LOSS (DTE - 24 OIL 120° F 1-1/16 - 12 SAE PORTS)



## ORDERING INFORMATION

| SERIES | MODEL       | ACTUATOR LOCATION                             | ACTUATOR OPTIONS                                                                          | END CAP OPTIONS                                                                              | SPOOL TYPE                                 | PORT SIZE (ALL PORTS)                                                                                                                                                          |
|--------|-------------|-----------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SD     | 4<br>40 gpm | A<br>@ port 'C' side<br>B*<br>@ port 'D' side | A. Handle<br>C. Clevis<br>K. Knob*<br>L. Plain<br>U. Hydraulic Pilot<br>G. Other, specify | L. Plain*<br>B. Spring Return<br>D. 2 Pos. Detent<br>U. Hydraulic Pilot<br>G. Other, specify | A*<br>(Selector)<br>B<br>(Series/Parallel) | 1<br>1/2" NPTF<br>2<br>3/4 - 16 (SAE #8)<br>3<br>7/8 - 14 (SAE #10)<br>4<br>3/4 NPTF<br>5<br>1-1/16 - 12 (SAE #12)<br>6<br>1" NPTF<br>7<br>1-5/16 - 12 (SAE #16)<br>8<br>Other |
| SD     | 4           | B                                             | K                                                                                         | L                                                                                            | A                                          | 5                                                                                                                                                                              |

### \*Standard

Example: Model SD4BKLA5 is a standard unit with a knob actuator located at the 'D' port side with standard selector spool and SAE #12 o-ring ports.