3-WAY DIRECTIONAL CONTROL VALVE
SPOOL TYPE, PILOT OPERATED, SPOOL "E".

TORQUE:
Steel = 55/60 Ft-Lb. [74/81 Nm]
Aluminum = 35/40 Ft-Lb. [47/54 Nm]

DCPS-10-E

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.0

Reference: 520-P-091120-EN-00/09.2015
### DESCRIPTION

This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE, SPOOL TYPE, HYDRAULIC 3-WAY DIRECTIONAL CONTROL ELEMENT, requiring remote pilot actuation.

### OPERATIONS

This valve allows flow from port 3 to port 2 with a spring biased spool. Port 4 is blocked. The spool will shift when piloted at port 1 with sufficient pressure to overcome the spring bias and allow flow from port 3 to port 4. "V" spring chamber is vented to atmosphere. This valve shifts in an open center position.

### FEATURES AND BENEFITS

- Leakproof screw adjustment.
- This valve has a fixed or an adjustable bias spring.
- Adjustment screw can not be backed out of the valve.
- Overset protection — spring can not go solid.
- Hardened precision fitted spool & cage provides reliable, long life.
- A unibody cage construction provides very low hysteresis and reliable operation.
- All external carbon steel parts are plated for longer life against the elements.
- Valve is available with fixed, screw, tamperproof, capped and handknob adjustments.
- All cartridge valves are 100% functionally tested.
- Industry common cavity.

### SPECIFICATIONS

- **OPERATING PRESSURE:** 5,000 PSI [350 Bar]
- **PROOF PRESSURE:** 10,000 PSI [700 Bar]
- **FLOW:** 12.0 GPM [46 L/M] nominal. See performance chart.
- **INTERNAL LEAKAGE:** 5 cu.in./min. [85 cc/m].
- **DEFINITION OF CRACK:** evident at 0.06 GPM [0.25 LPM]
- **VALVE HOUSINGS:**
  - 5000 PSI [350 Bar] = Steel — Unplated.
- **OPERATING TEMPERATURE:** -40° to +250° F. [-40° to +120° C.]
- **OPERATING MEDIA:** All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc.
- **INSTALLATION:** No restriction.
- **FILTRATION:** 25 microns or better.
- **SEAL KIT NUMBER:** SKN-10452 for buna "N".
  - SKV-10452 for viton.
- **WEIGHT:** 0.46 lb [.21 kg] cartridge only.
- **VALVE CAVITY:** #C1040, See Page 0-042.0.