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

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

"S" SCREW
"F" FIXED

.315" [8.0] HEX.

1.06" [27.0] HEX

3.50" [88.9]

1.89" [48.0] MAX.

2.50" [63.5]

SEALS
10 = 7/8"-14 UNF
N = BUNA "N"
V = VITON
SPOOL
"F" = SPOOL
ADJUSTMENT
F = FIXED (FACTORY SET)
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.0
### 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 a closed 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]
- **OPERATING TEMPERATURE**: $-40^\circ$ to $+250^\circ$ F. $[-40^\circ$ to $+120^\circ$ 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.

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