LCEFP-12-C

LOGIC CONTROL ELEMENT
SPOOL TYPE, VENT TO OPEN, SPOOL "C".

TORQUE:
Steel = 70/75 Ft-Lb. [95/102 Nm]
Aluminum = 55/60 Ft-Lb. [74/81 Nm]

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.0

LCEFP-12-X-C-X-X-XXX

BASIC SIZE
12 = 1.062"-12 UNF

SEALS
N = BUNA "N"
V = VITON

SPOOL "C" = SPOOL (VENT TO OPEN)

ADJUSTMENT
F = FIXED (FACTORY SET)
S = ADJUSTING SCREW
C = CAPPED
T = TAMPERPROOF

PRESSURE BIAS SPRING
070 = 70 PSI (FIXED)
100 = 100 PSI (FIXED)
160 = 40–160 PSI (ADJ.)

PORTS
0 = CARTRIDGE ONLY
04BX = G 1/2" BSPP
06BX = G 3/4" BSPP
10TX = SAE – #10
12TX = SAE – #12

L/M (28.5 cSt)

PRES. DROP (Δ P)

PSI

G.P.M. (135 SUS)

BAR

Reference: S20-P-070330-EN-00/09.2015
### LOGIC CONTROL ELEMENT

**SPOOL TYPE, VENT TO OPEN, SPOOL "C".**

### DESCRIPTION

This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE, SPOOL TYPE, HYDRAULIC DIRECTIONAL LOGIC ELEMENT, with multi-functional potential when used with other directional, pressure or flow control devices.

### OPERATIONS

This valve blocks flow from port 1 to port 2 with a spring bias. It will shift to allow full flow from port 1 to port 2 only when there is no pressure in port 3. Valve will close when port 3 is blocked and will maintain the same pressure plus the bias spring force value. When no pressure is present at port 3, it will allow flow from port 1 to port 2 once the bias spring force is overcome by the pressure in port 1. This is vent to open directional logic element.

### 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 and capped adjustments.
- All cartridge valves are 100% functionally tested.
### SPECIFICATIONS

**OPERATING PRESSURE:** 5,000 PSI [350 Bar]  
**PROOF PRESSURE:** 10,000 PSI [700 Bar]  
**FLOW:** 36.0 GPM [136 L/M] nominal. See performance chart.  
**INTERNAL LEAKAGE:** 5 cu.in./min. [85 cc/m] @ 85% of crack pressure.  
**DEFINITION OF CRACK:** evident at 0.06 GPM [0.25 LPM]  
**VALVE HOUSINGS:** 2500 PSI [175 Bar] = Aluminum – Anodized.  
                        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−1227 for buna "N".  
                      SKV−1227 for viton.  
**WEIGHT:** 0.84 lb [.38 kg] cartridge only.  
**VALVE CAVITY:** #C1225, See Page 0−023.0.