LCEF-12-D

LOGIC CONTROL ELEMENT
SPOOL TYPE, VENT TO CLOSE, SPOOL "D".

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

"S" screw adjustment
"F" fixed

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-023-1.

LCEF-12-X-D-X-X-XXX

BASIC SIZE
12 = 1.062"-12 UNF
SEALS N = BUNA "N"
V = VITON
SPOOL "D" = 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

"A" = ALUM. HOUSING
"S" = STEEL HOUSING

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.0

Reference: 520-P-070430-EN-00/09.2015
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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 is normally open from port 2 to port 1 with a spring bias. It will shift to allow full flow from port 2 to port 1 only when there is pressure in port 3. Valve will close when port 3 is opened and will maintain the same pressure plus the bias spring force value. When pressure is present at port 3, it will allow flow from port 2 to port 1, it will close once the pressure and the bias spring force is overcome by pressure in port 1. This is vent to close directional control 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.
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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]
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.