ELECTRO-HYDRAULIC, PROPORTIONAL, PRIORITY PRESSURE COMP, FLOW CONTROL VALVE.

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-033.1

EPFB-12-X-X-XX-X-X-XXX X

- **BASIC**
- **SIZE**
  - 12 = 1.062"-12UNF
- **SEALS**
  - N = BUNA "N"
  - V = VITON
- **STYLE**
  - C = NORMALLY CLOSED
  - O = NORMALLY OPEN
- **REGULATED FLOW**
  - 05 = 0 TO 5.0 GPM
  - 10 = 0 TO 10.0 GPM
  - 15 = 0 TO 15.0 GPM

**TERMINALS**
- L = 18GA. 24" LEADS
- T = SPADE TERM.
- B = BOLT TERM.
- G = DIN43650
- W = WEATHER-PACK
- D = DEUTSCH-DT04-2P
- M = METRI-PACK CONN.

**VOLTAGE AMPS**
- 12D = 12 VDC 3.00
- 24D = 24 VDC 1.50

**ADJUSTMENT OPTIONS**
- 0 = NONE
- M = MANUAL OVERRIDE

**PORTS**
- 0 = CARTRIDGE ONLY
- 04BX = G 1/2"-14 BSPP
- 06BX = G 3/4"-14 BSPP
- 10TX = SAE - #10
- 12TX = SAE - #12

**REGULATED FLOW**
- 05 = 0 TO 5.0 GPM
- 10 = 0 TO 10.0 GPM
- 15 = 0 TO 15.0 GPM

**AMPERAGE (AMPS) @ 12 VDC**
- 0.15 0.30 0.45 0.60 0.75 0.90 1.05 1.20

**AMPERAGE (AMPS) @ 24 VDC**
- 0.15 0.30 0.45 0.60 0.75 0.90 1.05 1.20

**SEALS**
- N = BUNA "N"
- V = VITON

**TYPE "L" COIL**
SEE PAGE 10-001.2

**MANUAL OVERRIDE**
(SCREW TYPE)

**TORQUE**
- 80/90 Ft-Lb. [100/120 N-m].

**ALUMINUM HOUSING**
- 1.31" [33.3] Hex.

**METRIC**
- 3.50" [88.9]
- 4.00" [101.6]
- 1.78" [45.2]
- 4.68" [118.9]
- 2.65" [67.3]

**REFERENCE**
- EPFB-12-X-X-XX-X-X-XXX X

**ADJUSTMENT OPTIONS**
- 0 = NONE
- M = MANUAL OVERRIDE

**AMPERAGE (AMPS) @ 12 VDC**
- 0.15 0.30 0.45 0.60 0.75 0.90 1.05 1.20

**AMPERAGE (AMPS) @ 24 VDC**
- 0.15 0.30 0.45 0.60 0.75 0.90 1.05 1.20

Reference: S20-P-111530-EN-01/06.2017
## DESCRIPTION
This valve is a cartridge style, electro-hydraulic, proportional, priority (BY-PASS) type, pressure compensated, hydraulic flow control. Regulated flow 15.0 GPM [56.8 L/M] max. is proportional to the current input regardless of load or system pressure. After the priority flow is satisfied the excess flow is diverted to a secondary circuit or to tank. Maximum inlet flow is 26.0 GPM [98.4 L/M].

## OPERATIONS
This unit is a direct acting (NO PILOT FLOW), electro hydraulic, proportional, pressure compensated, flow control valve. When the coil is energized the armature moves the metering orifice open against a precision bias spring varying the flow. A pressure compensator spool (HYDROSTAT) modulates the flow at 100 PSI/6.9 Bar delta "P" providing the valve with a constant regulated flow regardless of load or system pressure. When current is increased to the coil the flow will increase, as the current is decreased the flow will decrease proportionally. **In the event of power failure the valve will close.**

## FEATURES AND BENEFITS
Continuous-duty, very low heat rise & waterproof solenoid coil. Interchangeable solenoid coils & termination options available. Hardened precision fitted spool & sleeve provides reliable, long life. Very efficient wet – armature solenoid core tube construction. All external carbon steel parts are plated for longer life against the elements. All cartridge valves are 100% functionally tested.
PROPORTIONAL, PRIORITY TYPE, PRESSURE COMP, FLOW CONTROL VALVE.

SPECIFICATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar]
PROOF PRESSURE: 10,000 PSI [700 Bar]
REGULATED FLOW: 15.0 GPM [56.7 l/m] Max. See performance chart.
INTERNAL LEAKAGE: 20 cu.in/min [330 cc/m] @ 5,000 PSI [350 Bar]
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.
RESPONSE: The most efficient method to control this valve is with current control and a 50 Hz dither.
POWER REQUIREMENTS: 12 VDC, Operating current 0.2 to 2.2 AMPS.
24 VDC, Operating current 0.1 to 1.1 AMPS.
SEAL KIT: SKN-1232 Buna "N"
SKV-1232 Viton
INSTALLATION: No restrictions.
WEIGHT: 2.66 lb [1.20 kg] cartridge with coil only.
VALVE CAVITY: #C'1230, See Page 0–033.0.