PROPORTIONAL, NORMALLY CLOSED OR NORMALLY OPEN, IN-LINE, NON-COMPENSATED FLOW CONTROL VALVE.

UL approved coil, IP68 and IP69K rated when used with waterproof connector.

**PFCV-12-X-X-XX-X-X-XXX**

**BASIC**
- **SIZE**
  - 12 = 1.062"-12UNF
- **SEALS**
  - N = BUNA "N"
  - V = VITON
- **STYLE**
  - C = NORMALLY CLOSED
  - O = NORMALLY OPEN
- **REGULATED FLOW**
  - 06 = 0 TO 6.0 GPM
  - 12 = 0 TO 12.0 GPM
  - 18 = 0 TO 18.0 GPM
  - 24 = 0 TO 24.0 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
  - 120 = 12 VDC 3.00
  - 240 = 24 VDC 1.50

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

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

**REGULATED FLOW (1-2) @ 160 PSI**
- PFCV-12-X-X-XX-X-X-XXX

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

Reference: 520-P-112030-EN-00/09.2015
PROPORTIONAL, IN–LINE TYPE, FLOW CONTROL VALVE.

DESCRIPTION
This valve is a cartridge style, electro–hydraulic, proportional, in–line (RESTRICTIVE) type, hydraulic non–compensated flow control. Regulated flow Normally Closed 0 to 24.0 GPM [0 to 91.2 L/M] max. Normally Open 24.0 to 0 GPM [91.2 to 0 L/m] @ 160 PSI DELTA P. Flow is proportional to the current input.

OPERATIONS
This unit is a direct acting (NO PILOT FLOW), electro–hydraulic, proportional, non–compensated, flow control valve. When the coil is energized the armature moves the metering orifice to open or to closed position against a precision bias spring varying the flow. When current is increased or decreased to the coil the flow will increase or decrease proportionally. IN THE EVENT OF POWER FAILURE THE VALVE WILL CLOSE OR OPEN DEPENDING ON THE VALVE VERSION.

FEATURES AND BENEFITS
Continuous–duty, very low heat rise & waterproof solenoid coil. Interchangeable solenoid coils & terminations 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, IN–LINE TYPE, FLOW CONTROL VALVE.

SPECIFICATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar]
PROOF PRESSURE: 10,000 PSI [700 Bar]
REGULATED FLOW: 25.0 GPM [94.5 l/m] Max. See performance chart.
INTERNAL LEAKAGE: 30 cu.in/min [495 cc/m] @ 160 PSI DELTA P [11 Bar]
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 0.4 to 2.4 AMPS. 24 VDC, Operating current 0.2 to 1.2 AMPS.
SEAL KIT: SKN–1222 Buna "N" SKV–1222 Viton
INSTALLATION: Flow 1–2 preferred, Max Flow 2–1 lower than shown on graph. Use undercuts in cavity to obtain max rated flow when using a pressure compensator in series. Pressure drop across valve must not exceed 300 PSI [21] bar.

WEIGHT: 0.84 lbs [0.38 kg] cartridge only.
1.09 lbs [0.50 kg] coil & housing.
1.10 lbs [0.50 kg] aluminum body.
4.20 lbs [1.90 kg] steel body.

VALVE CAVITY: #C1220, See Page 0–013.0.