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

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

IN-LINE, NON-COMPENSATED FLOW CONTROL VALVE.

PFCV-16

TYPICAL APPLICATIONS:
- Hydraulic systems
- Fluid control systems
- Pneumatic systems

TERMINALS
- L = 18 GA, 24" LEADS
- T = SPADE TERM.
- B = BOLT TERM.
- G = DIRK 43650
- 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

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

STYLE
- C = NORMALLY CLOSED
- O = NORMALLY OPEN

REGULATED FLOW
- BASIC
- 16 = 1.312"-12UNF

PORTS
- 06 = CARTRIDGE ONLY
- 06BX = C 3/4" BSPP
- 08BX = G 1" BSPP
- 12TX = SAE - #12
- 16TX = SAE - #16

TORQUE:
- Steel = 95/100 Ft-Lb. [129/136 Nm]
- Aluminum = 70/75 Ft-Lb. [95/102 Nm]

REFERENCE: 520-P-112040-EN-00/09.2015
### 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 36.0 GPM [0 to 137.0 L/m] max. Normally Open 36.0 to 0 GPM [137.0 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. Industry common cavity.
SPECIFICATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar]

PROOF PRESSURE: 10,000 PSI [700 Bar]

REGULATED FLOW: 36.0 GPM [136.0 l/m] Max. See performance chart.

INTERNAL LEAKAGE: 40 cu.in/min [660 cc/m] @ 160 PSI DELTA P [11 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 0.4 to 2.4 AMPS.

24 VDC, Operating current 0.2 to 1.2 AMPS.

SEAL KIT: SKN−1622 Buna "N"

SKV−1622 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: 0.95 lbs [0.42 kg] cartridge only.

1.09 lbs [0.50 kg] coil & housing.

1.25 lbs [0.57 kg] aluminum body.

4.65 lbs [2.10 kg] steel body.

VALVE CAVITY: #C1620, See Page 0−014.0.