

**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 5.0 GPM [0 to 19,0 L/M] max. Normally Opens 5.0 to 0 GPM [19,0 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: 5.0 GPM [19,0 l/m] Max. See performance chart.

INTERNAL LEAKAGE: 15 cu.in/min [250 cc/m] @ 5,000 PSI [350 Bar]

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.

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 1.6 AMPS.

24 VDC, Operating current 0.2 to 0.8 AMPS.

SEAL KIT: SKN-0822 Buna "N"

SKV-0822 Viton

INSTALLATION: Use undercuts in cavity to obtain max rated flow when using a pressure compensator in series.

WEIGHT: 0.40 lbs [0,19 kg] cartridge only.

0.46 lbs [0,21 kg] coil & housing.

0.31 lbs [0,14 kg] aluminum body.

1.10 lbs [0,50 kg] steel body.

VALVE CAVITY: #C0820, See Page 0-011.0.