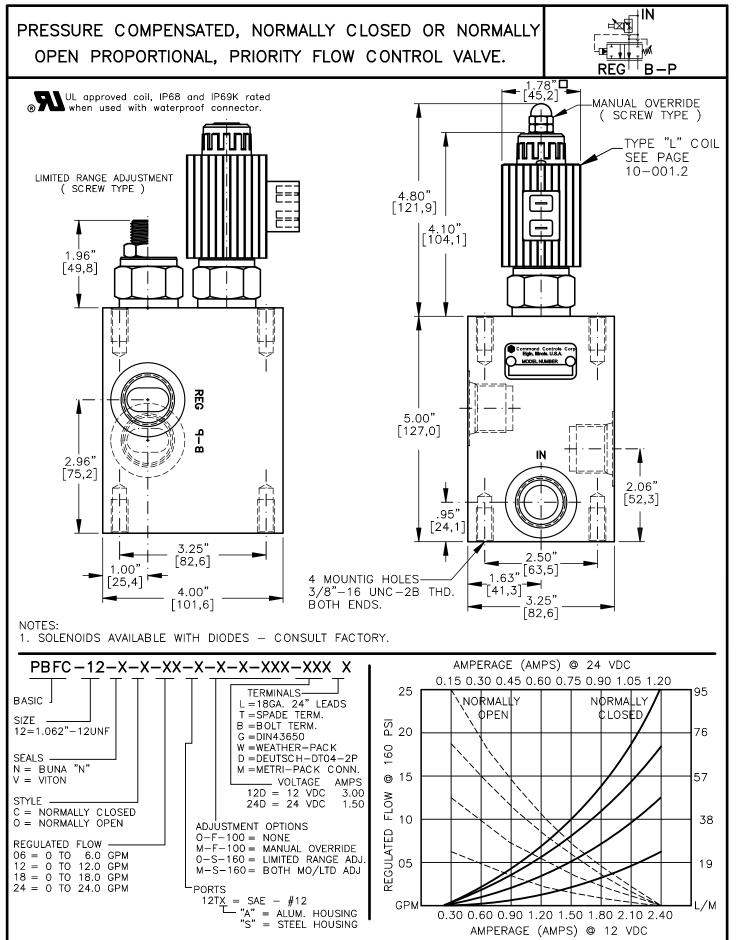
## PBFC-12

# **BUCHER** hydraulics





#### PRESSURE COMPENSATED, PROPORTIONAL, PRIORITY FLOW CONTROL VALVE.

### **DESCRIPTION**

This valve is an electro-hydraulic, proportional, priority (By-Pass) type, pressure compensated, hydraulic flow control. Regulated flow normally closed 0 to 24.0 GPM [0 to 91,2 L/M] or normally open 24.0 to 0 GPM [91,2 to 0 L/M] @ 160 PSI DELTA P. 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 35.0 GPM [130,0 L/M].

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 or closed against a precision bias spring varying the flow. A pressure compensator spool (HYDROSTAT) modulates the flow at 160 PSI/11,0 Bar delta "P" providing pressure. 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 RESPECTIVELY.

### 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 valves are 100% functionally tested.

PRESSURE COMPENSATED, PROPORTIONAL, PRIORITY FLOW CONTROL VALVE. SPECIFIC ATIONS OPERATING PRESSURE: 5,000 PSI [350 Bar] PROOF PRESSURE: 10,000 PSI [700 Bar] REGULATED FLOW: 24.0 GPM [91,2 I/m] Max. See performance chart. INTERNAL LEAKAGE: 30 cu.in/min [495 cc/m] @ 5,000 PSI [350 Bar] VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized. 5000 PSI [350 Bar] = Steel - Unplated. OPERATING TEMPERATURE:  $-40^{\circ}$  to  $+250^{\circ}$  F.  $[-40^{\circ}$  to  $+120^{\circ}$  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: Buna "N": SKN-1222, SKN-1242 VITON: SKV-1222, SKV-1242 INSTALLATION: No restrictions. WEIGHT: 5.58 lbs [2,54 kg]. aluminum body. 9.65 lbs [4,38 kg]. steel body.

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