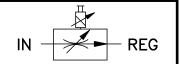
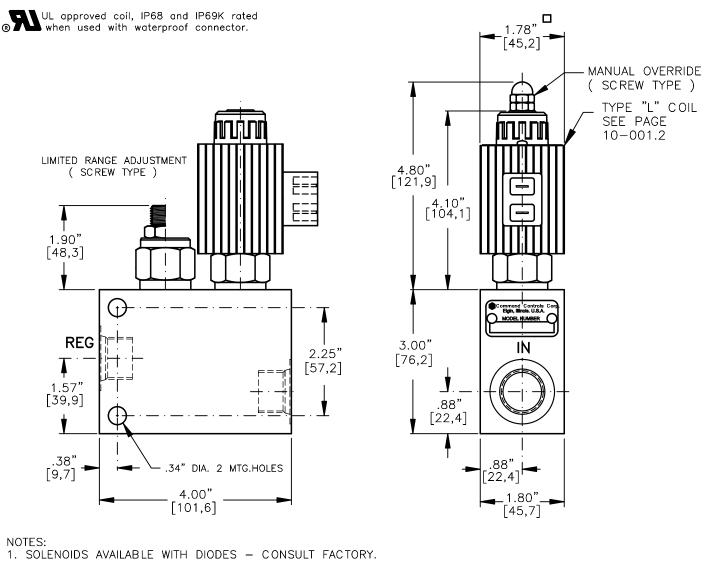
### PIFC-10

# **BUCHER** hydraulics

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





#### AMPERAGE (AMPS) @ 24 VDC PIFC -10-X-X-XX-X-X-XXX-XXX X 0.15 0.30 0.45 0.60 0.75 0.90 1.05 1.20 TERMINALS-16 60 BASIC L =18GA. 24" LEADS T =SPADE TERM. NORMALLY NORMALLY bpen CLOSE SIZE B = BOLT TERM. PSI 10= 7/8"-14UNF G =DIN43650 45 12 W = WEATHER - PACK160 SEALS -D = DEUTSCH - DT04 - 2PN = BUNA "N" M = METRI-PACK CONN. VOLTAGE AMPS 12D = 12 VDC 3.00 24D = 24 VDC 1.50 V = VITON⊚ FLOW 30 80 C = NORMALLY CLOSED O = NORMALLY OPEN ADJUSTMENT OPTIONS REGULATED O O-F-100 = NONEREGULATED FLOW -M-F-100 = MANUAL OVERRIDE04 = 0 TO 4.0 GPM 08 = 0 TO 8.0 GPM 15 0-S-160 = LIMITED RANGE ADJ.M-S-160 = BOTH MO/LTD ADJ12 = 0 TO 12.0 GPM 16 = 0 TO 16.0 GPM 10TX = SAE - #10"A" = ALUM. HOUSING "S" = STEEL HOUSING **GPM** 0.30 0.60 0.90 1.20 1.50 1.80 2.10 2.40 AMPERAGE (AMPS) @ 12 VDC



PRESSURE COMPENSATED, PROPORTIONAL, IN-LINE, FLOW CONTROL VALVE.

#### **DESCRIPTION**

This valve is an electro—hydraulic, proportional, in—line (Restrictive) type, pressure compensated, hydraulic flow control. Regulated flow Normally Closed 0 to 16.0 GPM, [0 to 61,0 L/m] max. Normally Open 16.0 to 0 GPM [61,0 to 0 L/m] is proportional to the current input, regardless of load or system pressure.

## **OPERATIONS**

This unit is a direct acting (NO PILOT FLOW), electro—hydraulic, pro—portional, pressure compensated, flow control valve. When the coil is energized the armature moves the metering orifice open or close 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 the valve with a constant regulated flow regardless of load or system 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, IN-LINE, FLOW CONTROL VALVE.

#### SPEC IFIC ATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar] PROOF PRESSURE: 10,000 PSI [700 Bar]

REGULATED FLOW: 16.0 GPM [61,0 L/m] Max. See performance chart. INTERNAL LEAKAGE: 15 cu.in/min [245 cc/m] @ 5,000 PSI [350 Bar] VALVE HOUSINGS: 2500 PSÍ [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-1022, SKN-1032 VITON: SKV-1022, SKV-1032

INSTALLATION: No restrictions.

WEIGHT: 4.58 lbs [2,09 kg]. aluminum body. 7.65 lbs [3,48 kg]. steel body.

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