PIFC-12

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

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

LIMITED RANGE ADJUSTMENT
(SCREW TYPE)

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

- 12D = 12 VDC 3.00
- 24D = 24 VDC 1.50

ADJUSTMENT OPTIONS

- 0-F-100 = NONE
- M-F-100 = MANUAL OVERRIDE
- 0-S-160 = LIMITED RANGE ADJ
- M-S-160 = BOTH MO/LTD ADJ

PORTS

- 12TX = SAE - #12
- "A" = ALUM. HOUSING
- "S" = STEEL HOUSING

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

AMPERAGE (AMPS) @ 24 VDC

- 0.15 0.30 0.45 0.60 0.75 0.90 1.05 1.20

- 0.30 0.60 0.90 1.20 1.50 1.80 2.10 2.40

L/M

REGULATED FLOW @ 160 PSI

- 05 10 15 20 25

NORMALLY OPEN

- 95 76 57 38 19

NORMALLY CLOSED

SEALS

- N = BUNA "N"
- V = VITON

STYLE

- C = NORMALLY CLOSED
- O = NORMALLY OPEN

BASIC

- 12 = 1.062"-12UNF

SIZE

- 12TX

REFERENCES:

- 520-P-112130-EN-00/09.2015

NOTES:

1. SOLENOIDS AVAILABLE WITH DIODES - CONSULT FACTORY.
DESCRIPTION
This valve is an electro-hydraulic, proportional, in-line (Restrictive) type, pressure compensated, hydraulic 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] is proportional to the current input, regardless of load or system pressure.

OPERATIONS
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 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.
SPECIFICATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar]
PROOF PRESSURE: 10,000 PSI [700 Bar]
REGULATED FLOW: 24.0 GPM [90.7 L/M] Max. See performance chart.
INTERNAL LEAKAGE: 30 cu.in/min [495 cc/m] @ 5,000 PSI [350 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: Buna "N": SKN-1222, SKN-1232
VITON: SKV-1222, SKV-1232
INSTALLATION: No restrictions.
WEIGHT: 5.52 lbs [2.51 kg]. aluminum body.
15.60 lbs [7.10 kg]. steel body.

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