#### BUCHER hydraulics EMDV-10-4E 4 SOLENOID VALVE, 4-WAY, 2-POSITION. WW. DIRECT ACTING, SPOOL TYPE (4/2) 3 1 TORQUE: Steel = 55/60 Ft-Lb. [74/81 Nm] Aluminum = 35/40 Ft-Lb. [47/54 Nm] 1.78"<sup>□</sup> - MANUAL OVERRIDE [45,2] TYPE "L" COIL === ΠΠΠ SEE PAGE 10 - 001.2**└**== 3.67" [93,2] === -1.06" [27.0] HEX 3.50" [88,9] Φ0 4 2.49" [63,2] ΟÓΟ 3 0Φ0 (2)2.50" [63,5] $\bigcirc$ NOTES: 1. FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-042.1 2. SOLENOIDS AVAILABLE WITH DIODES - CONSULT FACTORY. 3. ALL A.C. COILS ARE INTERNALLY A.C. TO D.C. RECTIFIED. 4. FOR SOFT SHIFT SOLENOID VALVE SEE PAGE 10-002.0 L/M (28,5 cSt) EMDV-10-X-4E-X-XXX X 7,6 15,1 22,7 30,3 200 14,0 BASIC -L =18GA. 24" LEADS T =SPADE\_TERM. SIZE 10 = 7/8" - 14 UNF<u>a</u> B = BOLT TERM. 150 10,5 9 G = DIN43650 SEALS -W = WEATHER - PACK N = BUNA "N" d0y0 100 D = DEUTSCH-DT04-2P V = VITON M = METRI-PACK CONN. 7,0 TYPE "E" SPOOL 3 tb 4 PRESSURE VOLTAGE AMPS 12D = 12 VDC 3.00 24D = 24 VDC 1.50 4-WAY, 2-POSITION 3.00 1.50 50 3,5 PORTS -0 = CARTRIDGE ONLY 02BX = G 1/4" BSPP 03BX = G 3/8" BSPP36D = 36 VDC 1.00 1 tþ 2 48D = 48 VDC 0.75 110D = 110 VDC 0.33115A = 115 VAC 0.3206TX = SAE - #608TX = SAE - #8BAR PSI 230A = 230 VAC 0.16 08TX = SAE - "#8 "A" = ALUM. HOUSING "S" = STEEL HOUSING 0 2 4 6 8 G.P.M.(135 SUS)

Reference: 520-P-102920-EN-00/09.2015



# SOLENOID VALVE 4-WAY, 2-POSITION, DIRECT ACTING, SPOOL TYPE (4/2)

## **DESCRIPTION**

This unit is a FOUR-WAY, TWO POSITION, cartridge type, spool type, direct acting, screw in type, solenoid operated, directional control valve.

## OPERATIONS

When solenoid coil is de-energized, this valve allows flow between ports 1 and 2 and ports 3 and 4. When solenoid coil is energized, the spool in this valve is shifted and allows flow between ports 1 and 4 and no flow between ports 2 and 3. Manual Operator Standard: Push in and hold a small plunger on top of the valve with a screw driver or a similar plunger smaller then .188" dia.

# 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.



SOLENOID VALVE 4-WAY, 2-POSITION, DIRECT ACTING, SPOOL TYPE (4/2)

### **SPECIFICATIONS**

OPERATING PRESSURE: 5,000 PSI [350 Bar] PROOF PRESSURE: 10,000 PSI [700 Bar] FLOW: 8.0 GPM [30 I/m] See performance chart. INTERNAL LEAKAGE: 5cu.in/min [82 cc/m] @ 5,000 PSI (350 Bar) VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized. 5000 PSI [350 Bar] = Steel - Unplated.OIL TEMPERATURE: -40° to +175° F. [-40° to +80° C.] AMBIENT TEMPERATURE:  $-40^{\circ}$  to  $+122^{\circ}$  F.  $[-40^{\circ}$  to  $+50^{\circ}$  C.] Please consult factory for continuously energized or high ambient temperature application  $(>122^{\circ} F [50^{\circ}C])$ OPERATING MEDIA: All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc. RESPONSE TIME: First indication of change in pressure with 100% voltage supplied @ 80% of nominal flow ratina. \* Pull-in: 50 ms \* Drop-Out: 50 ms SEAL KIT: SKN-1042 Buna "N" SKV-1042 Viton WEIGHT: 2.01 lb [.91 kg] cartridge with coil only. VALVE CAVITY: #C1040, See Page 0-042.0.

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