EMDV-10-O4

Solenoid Valve, Normally Open.
Pilot Operated, Poppet Type (2/2)

NOTES:
1. For aluminum or steel valve housing configurations see page 0-012.1
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

TORQUE:
Steel = 55/60 Ft.-Lb. [74/81 Nm]
Aluminum = 35/40 Ft.-Lb. [47/54 Nm]

EMDV-10-X-O4-X-XXX X

BASIC
SIZE
10 = 7/8"-14UNF
SEALS
N = BUNA "N"
V = VITON
TYPE
O4=NORMALLY OPEN
2-WAY, 2-POSITION
PORTS
0 = CARTRIDGE ONLY
06TX = SAE - #6
08TX = SAE - #8
02BX = 1/4" BSPP
03BX = 3/8" BSPP "A" - ALUM. HOUSING
"S" - STEEL HOUSING

TERMINALS
L=18G A, 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
36D = 36 VDC 1.00
48D = 48 VDC 0.75
110D = 110 VDC 0.33
115A = 115 VAC 0.32
230A = 230 VAC 0.16

PRESSURE DROP (ΔP)
L/M (28,5 cSt)

G.P.M.(135 SUS)

Reference: 520-P-100820-EN-00/09.2015
SOLENOID VALVE NORMALLY OPEN, PILOT OPERATED, POPPET TYPE (2/2)

DESCRIPTION
This unit is a NORMALLY OPEN, TWO POSITION, screw-in cartridge type, pilot operated, poppet type, solenoid operated, bidirectional, control valve.

OPERATIONS
When solenoid coil is de-energized, this valve allows flow between ports 2 and 1 and free reverse flow between ports 1 and 2. When solenoid coil is energized, the poppet in this valve is shifted to block flow between ports 2 and 1 and reverse flow between ports 1 and 2 at a high pressure drop.

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.
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Specifications

Operating Pressure: 5,000 PSI [350 Bar]
Proof Pressure: 10,000 PSI [700 Bar]
Flow: 20.0 GPM [75.7 l/m] See performance chart.
Internal Leakage: 5 drops/min [0.25 cc/m] @ 5,000 PSI [350 Bar]
5000 PSI [350 Bar] = Steel - Unplated.
Oil Temperature: -40° to +175° F. [-40° to +80° C.]
Ambient Temperature: -40° to +122° F. [-40° to +50° C.]
Please consult factory for continuously energized or high ambient temperature application (>122° F [50°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 rating.
* Pull-in: 50 ms
* Drop-Out: 50 ms
Seal Kit: SKN-1022 Buna “N”
SKV-1022 Viton
Installation: No restrictions.
Weight: 1.80 lb [0.82 kg] cartridge with coil only.
Valve Cavity: #C1020, See Page 0-012.0.