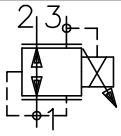
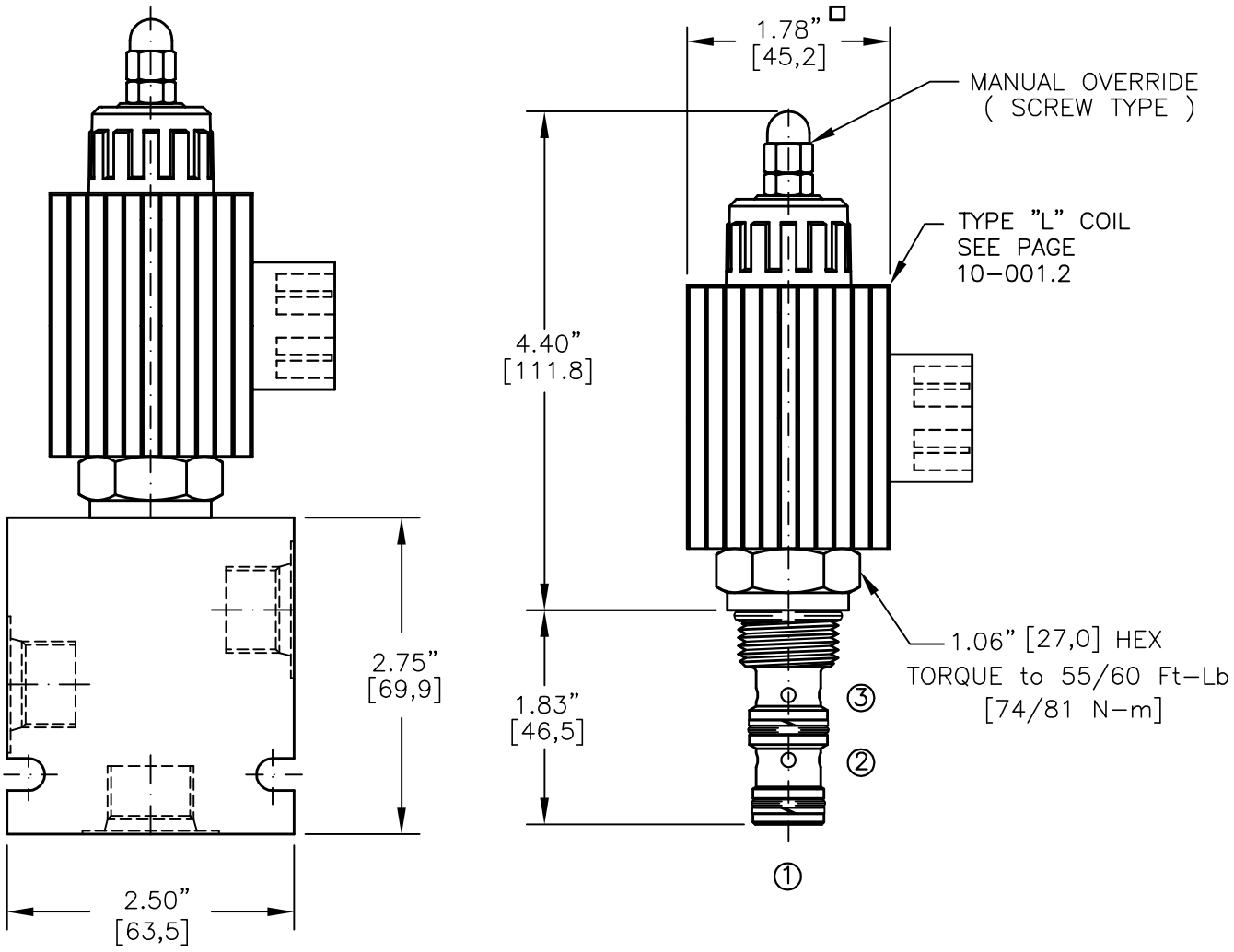
PROPORTIONAL PRESSURE REDUCING/ RELIEVING. DIRECT ACTING, SPOOL TYPE.





NOTES:
1. FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-032.1
2. SOLENOIDS AVAILABLE WITH DIODES - CONSULT FACTORY.

EPRR-10-X-XX-X-X-X-XXX X

BASIC

SIZE
10 = 7/8"-14UNF

SEALS
N = BUNA "N"
V = VITON

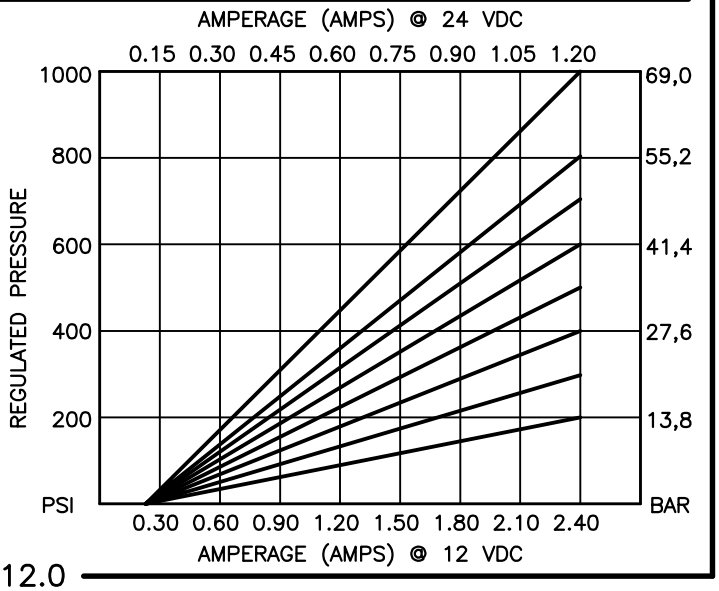
REGULATED PRESSURE
02 = 0 TO 200 PSI
03 = 0 TO 300 PSI
04 = 0 TO 400 PSI
05 = 0 TO 500 PSI
06 = 0 TO 600 PSI
07 = 0 TO 700 PSI
08 = 0 TO 800 PSI
10 = 0 TO 1000 PSI

PORTS
0 = CARTRIDGE ONLY
02BX = G 1/4" BSPP
03BX = G 3/8" BSPP
06TX = SAE - #6
08TX = SAE - #8
"A" = ALUM. HOUSING
"S" = STEEL HOUSING

ADJUSTMENT OPTIONS
M = MANUAL OVERRIDE

VOLTAGE AMPS
12D = 12 VDC 3.00
24D = 24 VDC 1.50

TERMINALS
L=18GA. 24" LEADS
T=SPADE TERM.
B=BOLT TERM.
G=DIN43650
W=WEATHER-PACK
D=DEUTSCH-DT04-2P
M=METRI-PACK CONN.



ELECTRO–HYDRAULIC, PROPORTIONAL, PRESSURE REDUCING/RELIEVING VALVE.

DESCRIPTION

This unit is a electro–hydraulic, proportional, screw in cartridge style, direct acting, spool type, pressure reducing/relieving flow pressure control valve.

OPERATIONS

When the coil is de–energized, this valve allows no flow or pressure from port 2 to 1 and port 1 is open to (tank) port 3.
When the coil is energized, the spool in this valve shifts and allows flow and pressure between ports 2 and 1 and blocks port 3 (tank).
When the coil is energized the armature moves a precision bias spring against the metering spool thus varying the pressure at port 1 (Reg.) proportional to the curent input. When the current is increased to the coil the pressure will increase and when decreased it will decrease.

IN THE EVENT OF POWER FAILURE THE VALVE WILL REDUCE REGULATED PRESSURE AT PORT 1 TO ZERO.

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.

SPECIFICATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar]
PROOF PRESSURE: 10,000 PSI [700 Bar]
REGULATED PRESSURE: 0 to 1,000 PSI [0 to 69,0 Bar] See performance chart
FLOW: 1.0 GPM (3.8 l/m) nominal
INTERNAL LEAKAGE: 10 cu.in/min [164 cc/m] @ 5,000 PSI [350 Bar]
VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum – Anodized.
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 0.2 to 2.4 AMPS.
24 VDC, Operating current 0.1 to 1.2 AMPS.
SEAL KIT: SKN–1031 Buna "N"
SKV–1031 Viton
INSTALLATION: No restrictions.
WEIGHT: 1.95 lb [.88 kg] cartridge with coil only.
VALVE CAVITY: #C1030, See Page 0–032.0.