PSOS-10

PRESSURE SEQUENCE VALVE
PILOT OPERATED, SLIDING SPOOL

Pat.#5,546,980

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-032.1

PSOS-10-X-X-X-XX

PRESSURE RANGE
15 = 50 TO 1500 PSI
30 = 50 TO 3000 PSI
50 = 50 TO 5000 PSI

PORTS
0 = CARTRIDGE ONLY
02BX = G 1/4" BSPP
03BX = G 3/8" BSPP
06TX = SAE - #6
08TX = SAE - #8

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
S = ADJUSTING SCREW
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.0

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

**PILOT OPERATED, SLIDING SPOOL**

**DESCRIPTION**
This unit is a PILOT OPERATED, SCREW IN CARTRIDGE STYLE, SLIDING SPOOL TYPE, ADJUSTABLE, INTERNAL PILOT, HYDRAULIC PRESSURE SEQUENCE VALVE.

**OPERATIONS**
This valve is a normally open sequence valve, allowing flow port 1 to port 2 and blocking flow port 2 to port 3. When pressure in port 1 exceeds bias spring setting the spool will shift allowing no flow from port 1 to port 2 and pass flow from port 2 to port 3.

**FEATURES AND BENEFITS**
- Leakproof screw adjustment.
- Pressure in tank port (3) will add to the bias spring setting, and is limited to 2000 PSI.
- Adjustment screw can not be backed out of the valve.
- Overset protection—pilot spring can not go solid.
- Hardened precision fitted poppet & cage provides reliable, long life.
- A unique self aligning (floating) cage provides very low hysteresis and reliable operation.
- All external carbon steel parts are plated for longer life against the elements.
- Valve is available with screw, tamperproof, capped and handknob adjustments.
- 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]
- **FLOW**: 12.0 GPM [46 L/M] nominal. See performance chart.
- **INTERNAL LEAKAGE**: 5 cu.in./min [.82 cc/m] @ 85% of crack pressure.
- **DEFINITION OF CRACK**: evident at 0.06 GPM [0.25 LPM]
- **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.

**INSTALLATION**: No restriction.

**FILTRATION**: 25 microns or better.

**SEAL KIT NUMBER**: SKN–1031 for buna ”N”. SKV–1031 for viton.

**WEIGHT**: 0.42 lb [.19 kg] cartridge only.

**VALVE CAVITY**: #C1030, See Page 0–032.0.