PRESSURE SEQUENCE VALVE
PILOT OPERATED, SLIDING SPOOL

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-031.1

PSOS-08-X-S-X-XX

BASIC
SIZE
08 = 3/4"-16 UNF

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

CARTRIDGE ONLY

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

PORTS
0 = CARTRIDGE ONLY
028X = G 1/4" BSPP
06TX = SAE - #6

"A" = ALUM. HOUSING
"S" = STEEL HOUSING

TORQUE:
Steel = 35/40 Ft-Lb. [47/54 Nm]
Aluminum = 25/30 Ft-Lb. [34/41 Nm]

PSOS-08
# 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 from port 1 to port 2 and blocking flow in 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:** 6.0 GPM [23 L/M] nominal. See performance chart.
- **INTERNAL LEAKAGE:** 5 cu.in./min [0.82 cc/m] @ 85% of crack pressure.
- **DEFINITION OF CRACK:** evident at 0.06 GPM [0.25 LPM]
- **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.
- **INSTALLATION:** No restriction.
- **Filtration:** 25 microns or better.
- **SEAL KIT NUMBER:** SKN-0831 for buna "N".
  - SKV-0831 for viton.
- **Weight:** 0.30 lb [.14 kg] cartridge only.
- **Valve Cavity:** #C0830, See Page 0-031.0.

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