PRESSURE BREAKER/SEQUENCE VALVE
PILOT OPERATED, SLIDING SPOOL

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

BSOS-08-X-X-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

PRESSURE RANGE
15 = 100 TO 1500 PSI
30 = 300 TO 3000 PSI
50 = 500 TO 5000 PSI

PORTS
0 = CARTRIDGE ONLY
02BX = 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]

Reference: 520-P-061410-EN-00/09.2015

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.0
PRESSURE BREAKER/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 BREAKER/SEQUENCE VALVE.

OPERATIONS
This is a normally open breaker/sequence valve, allowing flow from port 1 to port 2 and no flow from port 2 to port 3. When pressure in port 1 exceeds bias spring setting, the spool will shift and stay shifted allowing no flow from port 1 to port 2 and pass flow from port 2 to port 3, until pressure at port 1 is removed. Acts like a circuit breaker in a hydraulic system.

FEATURES AND BENEFITS
Leakproof screw adjustment.
Pressure in tank port (3) will and 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 spool & 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]
INTERNAL LEAKAGE: 5 cu.in./min [.82 cc/m] @ 85% of crack pressure.
DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]
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.

Reference: 520-P-061410-EN-00/09.2015