PRESSURE BREAKER/SEQUENCE VALVE
PILOT OPERATED, SLIDING SPOOL

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

BSXS-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 = 50 TO 1500 PSI
30 = 50 TO 3000 PSI
50 = 50 TO 5000 PSI

PORTS
0 = CARTRIDGE ONLY
G2BX = 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]

CARTRIDGE ONLY

PRESSURE DROP (Δ P)

L/M (28,5 cSt)

3,8 7,6 11,4 15,2 19 22,8
300 250 200 150 100 50
200 150 100 50

PORTS 2–3 PILOTED OPEN

G.P.M. (135 SUS)

PSI 1 2 3 4 5 6
BAR

Reference: 520-P-061310-EN-00/09.2015
### 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 closed breaker/sequence valve, blocking flow from port 2 to port 3. Port 1 is as external pilot port. When pressure in port 1 exceeds spring bias setting, the spool will shift and stay shifted allowing 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 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 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]
- **FLOW:** 6.0 GPM [23 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]
- **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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