PRESSURE BREAKER/SEQUENCE VALVE
PILOT OPERATED, SLIDING SPOOL

Pat.#5,546,980

BSCS-10-X-X-X-XX

BASIC
SIZE
10 = 7/8"-14 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

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

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

TORQUE:
Steel = 55/60 Ft–Lb. [74/81 Nm]
Aluminum = 35/40 Ft–Lb. [47/54 Nm]

Reference: 520-P-061520-EN-00/09.2015
## 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 closed breaker/sequence valve, blocking flow from port 1 to port 2. When pressure in port 1 exceeds bias spring setting the spool will shift and stay shifted allowing flow from port 1 to port 2 and blocking 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.
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:               | 12.0 GPM [46 L/M] nominal. See performance chart. |
| INTERNAL LEAKAGE:   | 5 cu.in./min [.82 cc/min] @ 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–1031 for buna "N". |
|                     | SKV–1031 for viton. |
| WEIGHT:             | 0.42 lb [.19 kg] cartridge only. |
| VALVE CAVITY:       | #C1030, See Page 0–032.0. |

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