BSXS-10

PRESSURE BREAKER/SEQUENCE VALVE
PILOT OPERATED, SLIDING SPOOL

Pat.#5,546,980

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

BSXS-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

Graph: Pressure Drop (ΔP)

Pressure: 0 to 200 PSI
GPM (135 SUS): 3 to 12
L/M (28.5 cSt): 9.5 to 38
Bar: 7.0 to 10.5

Reference: 520-P-061320-EN-00/09.2015

For aluminum or steel valve housing configurations see page 0-032.1
PRESSURE BREAKER/SEQUENCE VALVE
PILOT OPERATED, SLIDING SPOOL

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

OPERATIONS
This is a normally closed breaker/sequence valve, blocking flow port 2 to port 3. Port 1 is an 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: 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]
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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