RELIEF VALVE PILOT OPERATED, SLIDING SPOOL

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.0

RVPS-10-X-X-X-XX

BASIC
SIZE
SEALS
ADJUSTMENT
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
08TX = SAE - #6
08TX = SAE - #8

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

 Pat.#5,546,980

Reference: 520-P-030320-EN-00/09.2015
RELIEF VALVE PILOT OPERATED, SLIDING SPOOL

DESCRIPTION
This unit is a PILOT OPERATED, BALANCED SLIDING SPOOL, PRESSURE RELIEF, cartridge valve for accurate and smooth pressure regulation.

OPERATIONS
This valve (RVPS) blocks flow from port #1 to port #2 until sufficient pressure is present at port #1 to force the pilot poppet from its seat thus opening the valve. This cartridge relief valve offers a smooth transition in response to a load change in a hydraulic circuit.

FEATURES AND BENEFITS
Leakproof screw adjustment.
Pressure in tank port (2) 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: 26.0 GPM [100 L/M] nominal. See performance chart.
INTERNAL LEAKAGE: 5 cu.in/min [85 cc/m] @ 95% 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–1022 for Buna "N".
SKV–1022 for Viton.
WEIGHT: 0.38 lb [.17 kg] cartridge only.
VALVE CAVITY: C1020, See Page 0–012.0.