RVPD-10

RELIEF VALVE DIRECT ACTING,
LOW FLOW, PILOT CONTROL

Pat.#5,546,980

PRESSURE RANGE
15 = 0 TO 1500 PSI
30 = 0 TO 3000 PSI
50 = 0 TO 5000 PSI

PORTS
0 = CARTRIDGE ONLY
02BX = G 1/4" BSPP
03BX = G 3/8" BSPP
06TX = SAE - #6
08TX = SAE - #8

ADJUSTMENT
S = ADJUSTING SCREW
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.0

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

L/M (28,5 cSt)

G.P.M.(135 SUS)

PSI

BAR

Reference: 520-P-030120-EN-00/09.2015
## DESCRIPTION
This unit is a DIRECT ACTING, REMOTE CONTROL FOR VALVES WITH LOW PILOT FLOW, cartridge type, steel ball, low leakage, screw in type, adjustable, pressure control valve.

## OPERATIONS
This valve (RVPD) blocks flow from port #1 to port #2 until sufficient pressure is present at port #1 to force the steel ball 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 valve.
- Overset protection – spring can not go solid.
- Hardened precision steel ball & seat 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:** 2.0 GPM [7.6 L/M] nominal. See performance chart.
**INTERNAL LEAKAGE:** 5 drops/min [.25 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-1022 for Buna "N".
SKV-1022 for Viton.
**WEIGHT:** 0.38 lb [.17 kg] cartridge only.
**VALVE CAVITY:** #C1020, See Page 0-012.0.

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