RELIEF VALVE DIRECT ACTING,
POPPET TYPE

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-012.1

RVDI-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 = 100 TO 1500 PSI
30 = 300 TO 3000 PSI
50 = 500 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]

L/M (28.5 cSt)

PRESSURE DROP (Δ P)

G.P.M.(135 SUS)

Reference: 520-P-030620-EN-00/04.2015
## RELIEF VALVE DIRECT ACTING, POPPET TYPE

### DESCRIPTION
This unit is a DIRECT ACTING RELIEF VALVE, cartridge type, poppet type, low leakage, screw in type, adjustable, pressure control valve.

### OPERATIONS
This valve (RVDI) blocks flow from port #1 to port #2 until sufficient pressure is present at port #1 to force the 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.
- Adjustment screw can not be backed out of valve.
- Overset protection — spring can not go solid.
- Hardened precision fitted poppet & cage provides reliable, long life.
- 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:** 10.0 GPM [38 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–1021 for Buna "N".
  SKV–1021 for Viton.
- **WEIGHT:** 0.38 lb [.17 kg] cartridge only.
- **VALVE CAVITY:** #C1020, See Page 0–012.0.

### Reference:
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