RELIEF VALVE
DIFFERENTIAL AREA, POPPET TYPE

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS See Page 0-011.1

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.0

RVDA-08-X-X-X-XX

PRESSURE RANGE
15 = 100 TO 1500 PSI
30 = 750 TO 3000 PSI
50 = 1500 TO 5000 PSI

PORTS
0 = CARTRIDGE ONLY
G2BX = G 1/4" BSPP
G6TX = SAE - #6

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

TORQUE:
Steel = 35/40 Ft-Lb. [47/54 Nm]
Aluminum = 25/30 Ft-Lb. [34/41 Nm]

Pressures and flow rates shown are approximate and may vary depending on actual operating conditions and fluid properties.
## DIFFERENTIAL AREA, POPPET TYPE

### DESCRIPTION
This unit is a DIFFERENTIAL AREA RELIEF VALVE, cartridge type, direct acting, poppet type, low leakage, screw in type, adjustable, pressure control valve.

### OPERATIONS
This valve (RVDA) blocks flow from port #2 to port #1 until sufficient pressure is present at port #2 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—0822 for Buna "N".
  SKV—0822 for Viton.
- **WEIGHT**: 0.26 lb [.12 kg] cartridge only.
- **VALVE CAVITY**: #C0820, See Page 0—011.0.