RELIEF VALVE
POPPET TYPE, BI-DIRECTIONAL (CROSS-OVER)

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-013.1

RVBD-12-X-X-X-XX

PRESSURE RANGE
15 = 100 TO 1500 PSI
30 = 300 TO 3000 PSI
50 = 500 TO 5000 PSI

PORTS
0 = CARTRIDGE ONLY
04BX = G 1/2" BSPP
06BX = G 3/4" BSPP
10TX = SAE - #10
12TX = SAE - #12

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
S = ADJUSTING SCREW
C = CAPPED
T = TAMPERPROOF

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

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.0

TORQUE:
Steel = 70/75 Ft-Lb. [95/102 Nm]
Aluminum = 55/60 Ft-Lb. [74/81 Nm]

Reference: 520-P-030530-EN-00/09.2015
**RELIEF VALVE**

**POPPET TYPE, BI-DIRECTIONAL (CROSS-OVER)**

**DESCRIPTION**
This unit is a CARTRIDGE STYLE, DIFFERENTIAL AREA, POPPET TYPE, BI-DIRECTIONAL, ADJUSTABLE, HYDRAULIC PRESSURE RELIEF VALVE.

**OPERATIONS**
This valve relieves from port 1 to port 2 and port 2 to port 1. This valve provides a fast response, rugged, dirt tolerant operation and has a good pressure vs. flow characteristics.

**FEATURES AND BENEFITS**
Leakproof screw adjustment is standard. Adjustment screw can not be backed out of the valve. Overset protection – spring can not go solid. Hardened precision fitted poppet & cage provides reliable, long life. A unibody cage construction provides very low hysteresis, dependable 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: 40.0 GPM [152 L/M] nominal. See performance chart.
- INTERNAL LEAKAGE: 5 cu.in/min [85 cc/m] @ 85% of crack pressure.
- DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]
- 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.
- WEIGHT: 0.68 lb [.34 kg] cartridge only.
- VALVE CAVITY: #C1220, See Page 0–013.0.