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

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

RVBD-10-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
02BX = G 1/4" BSPP
03BX = G 3/8" BSPP
06TX = SAE = #6
08TX = SAE = #8

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

TORQUE:
Steel = 55/60 Ft-Lb. [74/81 Nm]
Aluminum = 28/32 Ft-Lb. [38/43 Nm]

Reference: 520-P-030520-EN-00/09.2015
DESCRIPTION
This unit is a DIFFERENTIAL AREA, POPPET TYPE, BI-DIRECTIONAL, ADJUSTABLE, HYDRAULIC PRESSURE RELIEF, cartridge 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: 20.0 GPM [76 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]
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.