HOT OIL SHUTTLE VALVE
SPOOL TYPE, SPRINGLESS WITH RELIEF VALVE

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

NOTE: CAVITY BOTTOM HOLE MUST ALLOW FOR POPPET EXTENSION (.500 DIA)
FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-012.1

HOSR-10-X-X-X-XX

RELIEVING PRESSURE
CUSTOMER TO SPECIFY
100 PSI TO 400 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

10 = 7/8"-14 UNF
SEALS
N = BUNA "N"
V = VITON

TANK PORT
3B = G 3/8" BSPP
6T = SAE = #6

TANK PORT

Steel = 55/60 Ft-Lb. [74/81 Nm]
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Reference: 520-P-040420-EN-00/09.2015
HOT OIL SHUTTLE VALVE,
SPOOL TYPE, SPRINGLESS WITH RELIEF VALVE

DESCRIPTION
This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE, SPOOL TYPE, HYDRAULIC 3—WAY, 2 POS. DIRECTIONAL SHUTTLE VALVE, with built—in ADJUSTABLE RELIEF VALVE which may be used on a hydrostatic transmission to direct charge pump oil to heat exchanger or to tank.

OPERATIONS
This valve with its internal pilots at port 1 or port 2 will allow flow to tank port from the opposite port which is piloted with high pressure, thus removing oil from the low pressure side for cooling or filtration purposes. This valve is springless therefore relying solely on the internal pressure signal to shift it to either side. This valve has a built—in internally adjustable (100 to 400 PSI) relief valve.

FEATURES AND BENEFITS
Hardened precision fitted spool and cage provides reliable, long life. A unibody cage construction provides very low hysteresis and reliable operation. All external carbon steel parts are plated for longer life against the elements. 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: 6.0 GPM [22.8 L/M] nominal. See performance chart.
INTERNAL LEAKAGE: 5 cu.in./min [82 cc/m]
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: 0.42 lbs [0.19 kg] cartridge only.
VALVE CAVITY: #C1020, See Page 0−012.0.

Reference: 520−P−040420−EN−00/09.2015

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