HOT OIL SHUTTLE VALVE
SPOOL TYPE, SPRINGLESS.

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-042.1

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

HOSV-10-X-X-X

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
PORT 1 MUST BE PLUGGED.

L/M (28,5 cSt)

PRESSURE DROP (ΔP)

PSI
0 4 8 12 16
G.P.M. (135 SUS)
0 4 8 12 16
BAR
10.5 7.0 3.5

Reference: 520-P-040620-EN-09.2015
SPECIFICATIONS

HOT OIL SHUTTLE VALVE
SPOOL TYPE, SPRINGLESS.

DESCRIPTION
This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE, SPOOL TYPE, HYDRAULIC 3-WAY, 2-POS. DIRECTIONAL SHUTTLE 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 2 or port 4 will allow flow to port 3 from the opposite port which is piloted with high pressure, thus removing oil from 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 shifts in open transition.

FEATURES AND BENEFITS
Hardened precision fitted spool & 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: 16.0 GPM [60 L/M] nominal. See performance chart.
INTERNAL LEAKAGE: 5 cu.in./min. [85 cc/m].
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.
SEAL KIT NUMBER: SKN−1042 for Buna "N". SKV−1042 for Viton.
WEIGHT: 0.42 lb [.19 kg] cartridge only.
VALVE CAVITY: #C1040, See Page 0−042.0.

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Reference: 520-P-040620-EN-00/09.2015