HLSV-10

PRESSURE SEQUENCE VALVE
POPPET TYPE, SOFT-SHIFT, HI-LO SEQUENCE

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

PRESSURE RANGE
15 = 300 TO 1500 PSI
25 = 1000 TO 2500 PSI
40 = 2000 TO 4000 PSI

PORTS
0 = CARTRIDGE ONLY
03BX = G 3/8" BSPP
04BX = G 1/2" BSPP
08TX = SAE - #8
10TX = SAE - #10

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

G.P.M.(135 SUS)
PSI
BAR

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.0

Reference: 520-P-060220-EN-00/09.2015
# PRESSURE SEQUENCE VALVE

## POPPET TYPE, SOFT-SHIFT, HI-LO SEQUENCE.

### DESCRIPTION

This unit is a PILOT OPERATED, SCREW IN CARTRIDGE STYLE, POPPET TYPE, ADJUSTABLE, SOFT SHIFT (shock free), HYDRAULIC HI-LO PRESSURE SEQUENCE VALVE.

### OPERATIONS

This valve blocks flow from port #2 to port #1 until sufficient pressure is present at port #3 to force the differential area poppet to shift thus opening the valve very gradually and without any shock. This valve is used in a two pump circuit to load and unload low press. high volume pump, from a high press. low volume pump pressure signal.

### FEATURES AND BENEFITS

- Leakproof screw adjustment.
- 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:   | 10 cu.in./min [164 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—1027 for buna ”N”. SKV—1027 for viton. |
| WEIGHT:             | 0.46 lb [.21 kg] cartridge only. |
| VALVE CAVITY:       | #C1025, See Page 0–022.0. |

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