3-WAY DIRECTIONAL CONTROL VALVE
SPOOL TYPE, PILOT OPERATED, SPOOL "C".

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

DCPS-10-X-C-X-X-XXX

BASIC
SIZE
10 = 7/8"-14 UNF
SEALS
N = BUNA "N"
V = VITON
SPOOL
"C" = SPOOL
ADJUSTMENT
F = FIXED (FACTORY SET)
S = ADJUSTING SCREW
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.0

PRESSES DROP (ΔP)

L/M (28.5 cSt)

0 25 50 75 100 125 150 175 200
7.6 15.1 22.7 30.3 37.9 45.4 53
0 2 4 6 8 10 12 14
0 3 to 2 3 to 4 3.5 1.7 1.2 1.03 0.8 0.69 0.52 0.35 0.17

Reference: 520-P-090320-EN-00/09.2015
3–WAY DIRECTIONAL CONTROL VALVE
SPOOL TYPE, PILOT OPERATED, SPOOL "C".

DESCRIPTION
This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE, SPOOL TYPE, HYDRAULIC 3–WAY DIRECTIONAL CONTROL ELEMENT, requiring remote pilot actuation.

OPERATIONS
This valve allows flow from port 3 to port 4 with a spring biased spool. Port 2 is blocked. The spool will shift when piloted at port 1 with sufficient pressure to overcome the spring bias and allow flow from port 3 to port 2. Spring is vented to port 4. This valve shifts in an open center position.

FEATURES AND BENEFITS
Leakproof screw adjustment.
This valve has a fixed or an adjustable bias spring.
Adjustment screw can not be backed out of the valve.
Overset protection – spring can not go solid.
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.
Valve is available with fixed, 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: 12.0 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]
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–1042 for buna "N".
SKV–1042 for viton.
WEIGHT: 0.46 lb [.21 kg] cartridge only.
VALVE CAVITY: #C1040, See Page 0–042.0.