DUAL PILOT OPERATED CHECK VALVE Poppet
Type, Pilot to Open, 3 to 1 Pilot Ratio.

"M" Manual Load Release

CRACK PRESSURE
010 = 10 PSI
030 = 30 PSI
060 = 60 PSI

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
F = Fixed
M = Manual Release

PORTS
G3BX = G 3/8" BSPP
G4BX = G 1/2" BSPP
08TX = SAE - #8
10TX = SAE - #10

"A" - Alum. Housing
"S" - Steel Housing

PRESSURE DROP (Δ P)

G.P.M. (135 SUS)

L/M (28.5 cSt)

PSI 0 5 10 15 20
BAR 0 10 20 30 40 50 60

Reference: 520-P-011420-EN-00/09.2015
DUAL PILOT OPERATED CHECK VALVE
POPPET TYPE, PILOT TO OPEN, 3 TO 1 PILOT RATIO.

DESCRIPTION
This unit is a cartridge type, guided poppet, with cross line pilot, dual hydraulic pilot operated check valve, for use as a blocking or load holding device for high pressure applications.

OPERATIONS
This valve allows free flow from port V1 to port C1 and V2 to C2 then blocks reverse flow until a pilot pressure is sensed at pilot ports which are connected to ports V1 and V2 therefore opening flow from port C1 or port C2.

This pilot operated check valve has a 3 to 1 pilot ratio, meaning that it takes at least one-third of the load pressure held at port 1 that is required at port 3 to open the valve.

FEATURES AND BENEFITS
A low friction seal on pilot piston is standard.
A separate heavy spring assures fast return of the pilot piston for a very quick, reliable and positive valve re-seat.
Optional screw type manual load release is available.
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: 18.0 GPM [70 l/m] nominal. See performance chart.
PILOT RATIO: 3 TO 1
INTERNAL LEAKAGE: 5 drops per minute maximum @ 5,000 PSI [350 Bar]
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 restrictions.
SEAL KIT: SKN−1028 Buna "N"
SKV−1028 Viton
WEIGHT: 1.85 lb [.92 kg].
VALVE CAVITIES: #C1025, See Page 0−022.0.