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
04BX = C 1/2" BSPP
06BX = C 3/4" BSPP
10TX = SAE - #10
12TX = SAE - #12

"A" - ALUM. HOUSING
"S" - STEEL HOUSING

PRESSURE DROP ($\Delta P$)

L/M (28,5 cSt)

G.P.M. (135 SUS)
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.

SPECIFICATIONS
OPERATING PRESSURE: 5,000 PSI [350 Bar]
PROOF PRESSURE: 10,000 PSI [700 Bar]
FLOW: 36.0 GPM [136.3 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.
FILTRATION: 25 microns or better.
SEAL KIT: SKN-1228 Buna “N”
SKV-1228 Viton
WEIGHT: 2.65 lb [1.21 kg] Aluminium. 5.25 lbs [2.38] Steel.
VALVE CAVITIES: #C1225

© 2015 by Bucher Hydraulics, Inc., 2545 Northwest Parkway, Elgin, Illinois 60124, USA
All rights reserved.
Data is provided for the purpose of product description only, and must not be construed as warranted characteristics in the legal sense.
The information does not relieve users from the duty of conducting their own evaluations and tests. Because the products are subject to continual improvement, we reserve the right to amend the product specifications contained in this catalogue.

Reference: S20-P-011430-EN-00/09.2015