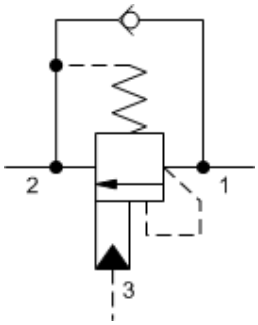
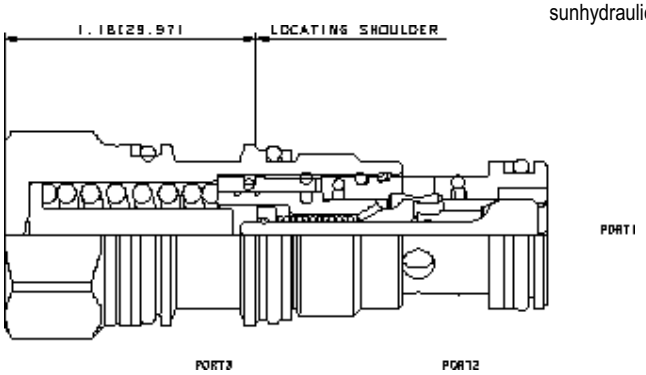
MODEL
CBBDX

Fixed setting, 4.5:1 pilot ratio, semi-restrictive counterbalance valve
SERIES 1 / CAPACITY: 40 L/min. / CAVITY: T-11A

sunhydraulics.com/model/CBBDX



3-Port Non-vented, Fixed Setting



Fixed-setting, 3-port counterbalance valves with pilot-assist function similarly to the adjustable versions except the fixed setting is pre-set to a nominal value. These fixed-setting valves are meant to control an overrunning load. The check valve allows free flow from the directional valve (port 2) to the load (port 1) while a direct-acting, pilot-assisted relief valve controls flow from port 1 to port 2. Pilot assist at port 3 lowers the effective setting of the relief valve at a rate determined by the pilot ratio.

Other names for this valve include motion control valve and over-center valve.

CONFIGURATION

M	Fixed Pressure Range	4700 - 5600 psi (325 - 390 bar)
N	Seal Material	Buna-N
(none)	Material/Coating	

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Pilot Ratio	4.5:1
Maximum Recommended Load Pressure	See Technical Features
Factory Pressure Settings Established at	30 cc/min.
Maximum Valve Leakage at Reseat	0,3 cc/min.
Check Cracking Pressure	1,7 bar
Seal kit - Cartridge	Buna: 990011007
Seal kit - Cartridge	EPDM: 990011014
Seal kit - Cartridge	Polyurethane: 990011002
Seal kit - Cartridge	Viton: 990011006

CONFIGURATION OPTIONS

Model Code Example: CBBDXMN

FIXED PRESSURE RANGE	(M)
M	4700 - 5600 psi (325 - 390 bar)
V	3200 - 3800 psi (220 - 260 bar)
X	3500 - 4200 psi (245 - 290 bar)
Z	4125 - 4900 psi (285 - 340 bar)

SEAL MATERIAL	(N)
N	Buna-N
E	EPDM
V	Viton

MATERIAL/COATING
Standard Material/Coating
/AP Stainless Steel, Passivated

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