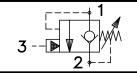


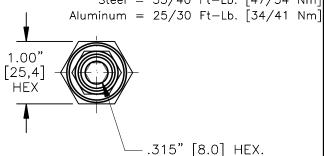
Counterbalance Valves

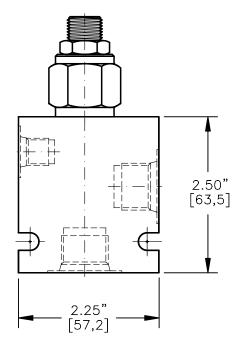
	MODEL	DESCRIPTION	FLOW	CAVITY	PAGE NO.
3	CBPA-08 CBPA-10 CBPA-20M CBPA-12 CBPP-10 CBPP-20M	COUNTERBALANCE VALVE, FREE REVERSE	10 GPM 20 GPM 20 GPM 35 GPM 15 GPM 15 GPM	C0825 C1025 T-11A C1225 C1025 T-11A	8-051.0 8-052.0 8-112.0 8-053.0 8-152.0
C 2	DCBA-08 DCBA-10 DCBA-12	DUAL COUNTERBALANCE VALVE	10 GPM 20 GPM 35 GPM	C0825 C1025 C1225	8-061.0 8-062.0 8-063.0
3-12-13	CBPS-08 CBPS-10 CBPS-20M CBPS-12	COUNTERBALANCE, FREE REVERSE w/SEALS	10 GPM 20 GPM 20 GPM 35 GPM	C0825 C1025 T-11A C1225	8-071.0 8-072.0 8-122.0 8-073.0
C 1	DCBS-08 DCBS-10 DCBS-12	DUAL COUNTERBALANCE, FREE REV. w/SEALS	10 GPM 20 GPM 35 GPM	C0825 C1025 C1225	8-081.0 8-082.0 8-083.0
3-11-11-11-11-11-11-11-11-11-11-11-11-11	CBPG-08 CBPG-10 CBPG-20M CBPG-12	COUNTERBALANCE, FREE REVERSE VENTED	10 GPM 20 GPM 20 GPM 35 GPM	C0825 C1025 T-11A C1225	8-091.0 8-092.0 8-132.0 8-093.0
C1	DCBG-08 DCBG-10 DCBG-12	DUAL COUNTERBALANCE, FREE REV. VENTED	10 GPM 20 GPM 35 GPM	C0825 C1025 C1225	8-101.0 8-102.0 8-103.0

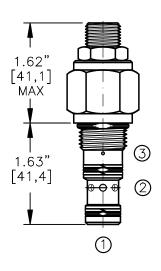




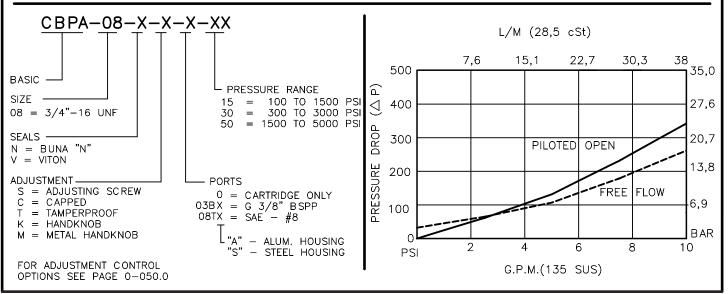
TORQUE: Steel = 35/40 Ft-Lb. [47/54 Nm]







FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-021-1.





DESCRIPTION

This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE, POPPET TYPE, ADJUSTABLE, PILOT ASSISTED, HYDRAULIC COUNTERBALANCE VALVE.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port 2 to port 1 and then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at port 3 modulating flow from port 1 to port 2.

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 and with no dynamic seals on all moving parts provides very low hysteresis (1.5%) and reliable operation. Minor internal leakage past the pilot piston purges the air from the pilot line thus improving stability.

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: 10.0 GPM [38 L/M] nominal. See performance chart.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized. 5000 PSI [350 Bar] = Steel - Unplated.

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-0828 for buna "N".

SKV-0828 for viton.

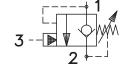
WEIGHT: 0.30 lb [.14 kg] cartridge only. VALVE CAVITY: #C0825, See Page 0-021.0.

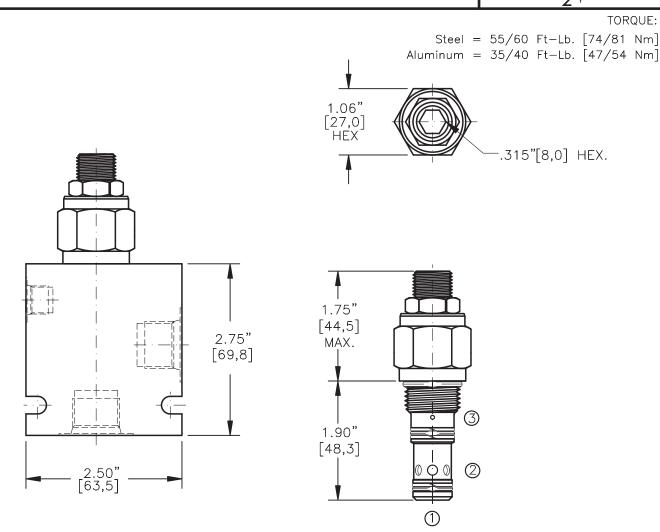
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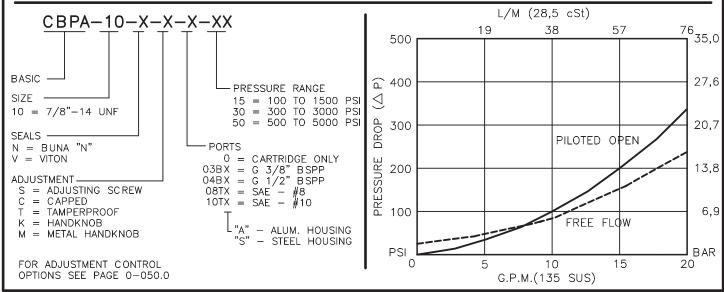
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DESCRIPTION

This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE, POPPET TYPE, ADJUSTABLE, PILOT ASSISTED, HYDRAULIC COUNTERBALANCE VALVE.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port 2 to port 1 and then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at port 3 modulating flow from port 1 to port 2.

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 and with no dynamic seals on all moving parts provides very low hysteresis (1.5%) and reliable operation. Minor internal leakage past the pilot piston purges the air from the pilot line thus improving stability.

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.



SPECIFIC ATIONS

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.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized.

5000 PSI 350 Bar = Steel - Unplated.

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-1028 for bund "N".

SKV-1028 for viton.

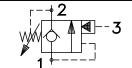
WEIGHT: 0.46 lb [.21 kg] cartridge only. VALVE CAVITY: #C1025, See Page 0-022.0.

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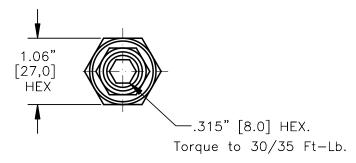
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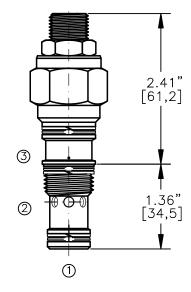


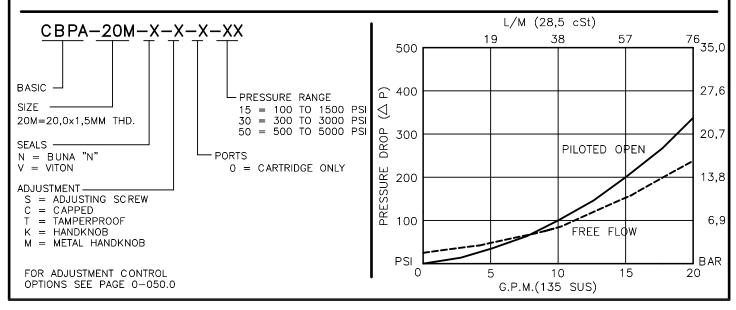


FITS INTO SUN CAVITY #T-11A



Turn screw clockwise to increase the pressure setting.







DESCRIPTION

This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE, POPPET TYPE, ADJUSTABLE, PILOT ASSISTED, HYDRAULIC COUNTERBALANCE VALVE.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port 2 to port 1 and then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at port 3 modulating out flow from port 1 to port 2.

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 and with no dynamic seals on all moving parts provides very low hysteresis (1.5%) and reliable operation. Minor internal leakage past the pilot piston purges the air from the

pilot line thus improving stability.

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.

Fits in to SUN cavity # T-11A.

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.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $\begin{bmatrix} -40^{\circ} \text{ to } +120^{\circ} \text{ C.} \end{bmatrix}$ 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-1029 for bung "N".

SKV-1029 for viton.

WEIGHT: 0.46 lb [.21 kg] cartridge only.

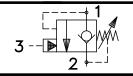
VALVE CAVITY: SUN # T-11A.

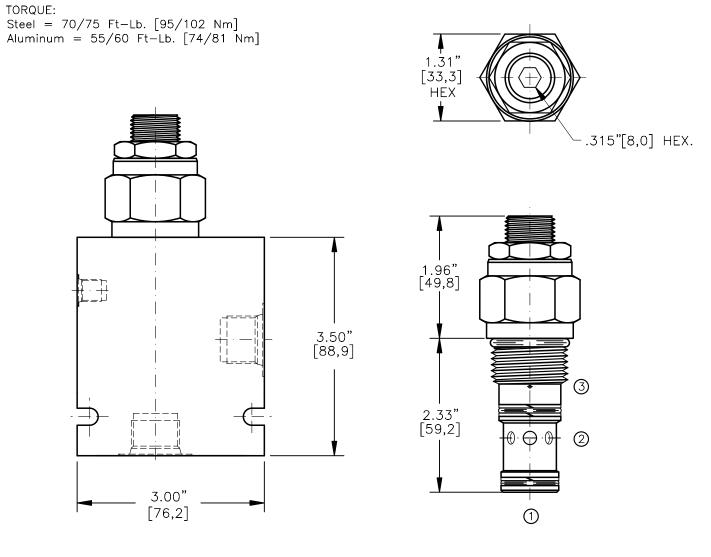
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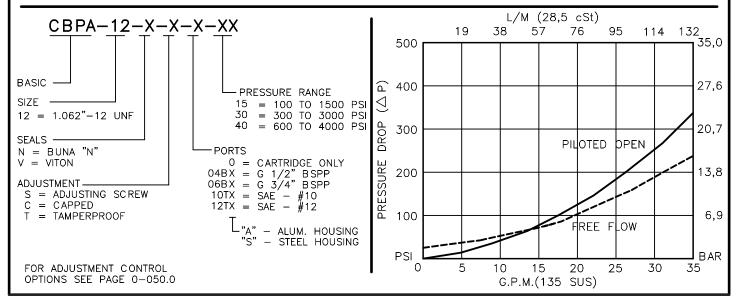
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FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-023-1.





DESCRIPTION

This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE, POPPET TYPE, ADJUSTABLE, PILOT ASSISTED, HYDRAULIC COUNTERBALANCE VALVE.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port 2 to port 1 and then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at port 3 modulating flow from port 1 to port 2.

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 and with no dynamic seals on all moving parts provides very low hysteresis (1.5%) and reliable operation. Minor internal leakage past the pilot piston purges the air from the pilot line thus improving stability.

All external carbon steel parts are plated for longer life against the elements. Valve is available with screw, tamperproof, and capped adjustments.

All cartridge valves are 100% functionally tested.

SPECIFICATIONS

OPERATING PRESSURE: 4,000 PSI [276 Bar] PROOF PRESSURE: 10,000 PSI [700 Bar]

FLOW: 35.0 GPM [132 L/M] nominal. See performance chart.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized. 5000 PSI [350 Bar] = Steel - Unplated.

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-1228 for Buna "N".

SKV-1228 for Viton.

WEIGHT: 0.84 lb [0,38 kg] cartridge only. VALVE CAVITY: #C1225, See Page 0-023.0.

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Counterbalance Valve, Poppet Type, SAE 10 / NG 8

Q_{max} = 15.0 gpm (60 l/min), p_{max} = 5000 psi (350 bar) direct acting, pilot assisted, poppet type, non-vented, adjustable Series CBPP-10... / CBPP-20M...



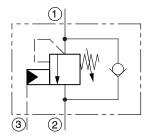
1 Description

The Counterbalance Valve model series CBPP... is a differential area, direct acting, screw in cartridge style, nonvented, poppet type, adjustable, pilot assisted, hydraulic counterbalance valve with thread 7/8-14 UNF (CBPP-10...) or 20 x 1.5 mm (CBPP-20M...) are size SAE 10 / NG 8. This valve controls a moving load, preventing it from running ahead of the pump. Locking the load in any position, it also provides static overload and thermal expansion protection. This valve is a modulating device that allows free flow from

- · Leak free and smooth-running pressure adjustment
- · Adjustment screw can not be backed out of the valve
- · Overset protection spring can not go solid
- Hardened precision fitted piston & poppet provide reliable, long life
- A unibody adapter cage construction provides very reliable operation
- Low hysteresis pilot piston not sealed towards the spring chamber
- Can be fitted in a line-mounting body

port 2 to port 1, then blocks reverse flow until a pilot pressure inversely proportional to the load pressure is sensed at port 3 modulating flow from port 1 to port 2. Back pressure at port 2 adds to the spring setting (pilot ratio +1) x back pressure. All external parts of the cartridge are zinc plated and chromited (CrVI–free). If you intend to manufacture your own cavities or are designing a line-mounting installation, please refer to the section "Related data sheets".

2 Symbol



3 Technical data

General characteristics	Description, value, unit
Designation	counterbalance valve, non-vented
Design	poppet type, free reverse flow, pilot assisted
Mounting method	screw-in cartridge 7/8-14 UNF or M20 x 1.5 mm
Size	SAE 10 / NG 8, cavity type C1025 or T-11A
Weight	0.62 lbs (0.28 kg)
Mounting attitude	design B: unrestricted design S,C,T: hanging or horizontal mounting position
Ambient temperature range	-40 °F +250 °F (-40 °C +120 °C)

Reference: 520-P-081520-EN-03

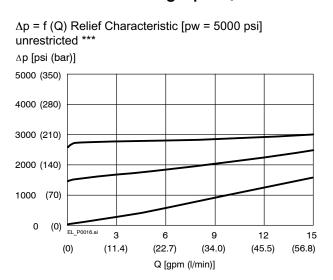
1/5

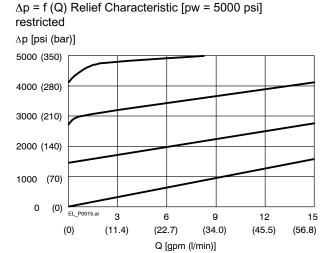
Issue: 10.2017

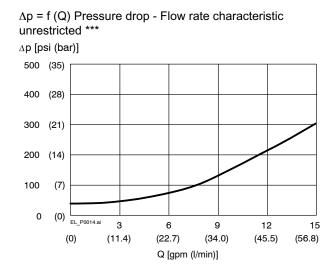


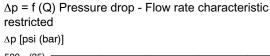
Hydraulic characteristics		Description, value, unit	
Maximum operating pressure		5000 psi	(350 bar)
Maximum flow rate	Standard	15.0 gpm	(60 l/min)
Nominal pressure ranges		1500, 3000, 5000 psi For further pressure ranges, please contact	(100, 210, 350 bar) ct BUCHER
Pilot Ratio		2.3, 3.0, 4.5 to 1 – 1.5 and For further pilot ratios, please contact BUC	•
Leakage flow rate		5 drops/min. @ 80 % of cra	ack pressure
Definition of Crack		evident at 0.06 gpm	(0,25 l/min)
Hydraulic fluid		Mineral-based or synthetics HL and HLP mineral oil to I for other fluids, please cont	•
Hydraulic fluid temperature range		-13 °F +175 °F	(-25 °C +80 °C)
Viscosity range		10500 mm ² /s (cSt), reco	mmended 15250 mm ² /s (cSt)
Minimum fluid cleanliness Cleanliness class to ISO 4406 : 1999		class 20/18/15	

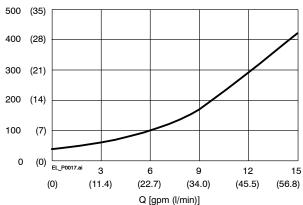
4 Performance graphs [measured with oil viscosity 33 mm²/s (cSt)]











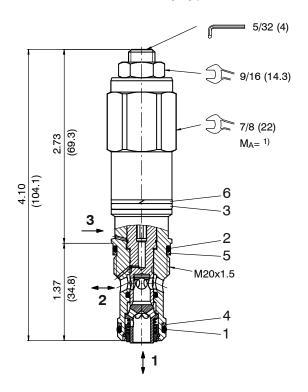


5 Dimensions & sectional view

5.1 Insertion in cavity type "C1025"

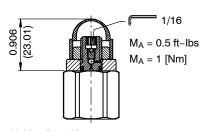
Ø1.0 (Ø25.4) 9/16 (14.3) 7/8 (22) MA= 1) 3 7/8-20 UNEF 5 2 5 4 1

5.2 Insertion in cavity type "T-11A"

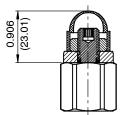


Tightening torque M_A 1)

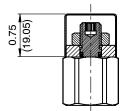
Cavity type	C1025		T-11A	
When fitted in steel	5560 ft-lbs	7581 [Nm]	3035 ft-lbs	4047 [Nm]
When fitted in aluminum	3540 ft-lbs	4754 [Nm]	3035 ft-lbs	4047 [Nm]



Air bleeding with capped adjustment screw "B"



With capped adjustment screw "C" **



Adjusting screw with tamper-proof cap "T" ** (order separately in plain language)

^{**} recommended hanging or horizontal mounting position only.



6 Installation information

Seal kit NBR Nr. SKN-1028 2)

Item	Qty.	Description	
1	1	O-ring no. 910 Ø 0.755 x 0.097 N90	
2	1	O-ring no. 016 Ø 0.614 x 0.070 N70	
3	1	O-ring Nr. 015 Ø 0.551 x 0.070 N70	
4	2	Backup ring	
5	1	Backup ring	



IMPORTANT!

2) Seal kit SKV-1028 (Viton "V")

Item no. 5207300016 = Seal kit NBR (Buna) Item no. 5207300065 = Seal kit FKM (Viton)

Seal kit NBR Nr. SKN-1029 3)

Item	Qty.	Description	
1	1	O-ring Nr. 015 Ø 0.551 x 0.070 N70	
2	1	O-ring no. 016 Ø 0.614 x 0.070 N70	
3	1	O-ring no. 017 Ø 0.676 x 0.07 N70	
4	1	Backup ring	
5	2	Backup ring	
6	2	Backup ring	



IMPORTANT!

3) Seal kit SKV-1029 (Viton "V") Item no. 52073000.. = Seal kit NBR (Buna) Item no. 5207300066 = Seal kit FKM (Viton)



IMPORTANT!

When fitting the cartridges, use the specified tightening torque. The recommended relief pressure setting is 30 % above operating pressure.

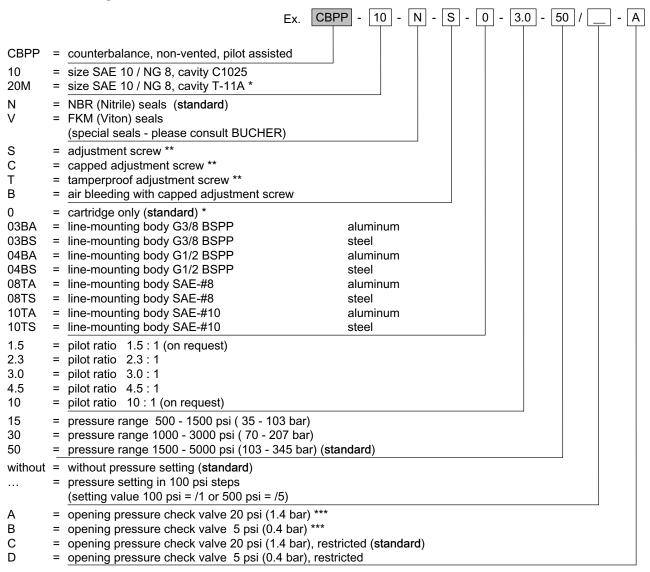


ATTENTION!

Only qualified personnel with mechanical skills may carry out any maintenance work. Generally, the only work that should ever be undertaken is to check, and possibly replace, the seals. When changing seals, oil or grease the new seals thoroughly before fitting them.



7 Ordering code



- Cavity T-11A available as cartidge only. (no line-mouting body available)
- ** recommended hanging or horizontal mounting position only.

8 Related data sheets

Reference	(Old no.)	Description
520-P-000050		Form tools
520-P-000220	(0-022.0)	Cavity type C1025
520-P-000221	(0-022.1)	Line-mounting body, 10 Series – 2.5-way (with C1025)

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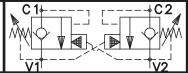
Data is provided for the purpose of product description only, and must not be construed as warranted characteristics in the legal sense. The information does not relieve users from the duty of conducting their own evaluations and tests. Because the products are subject to continual improvement, we reserve the right to amend the product specifications contained in this catalogue.

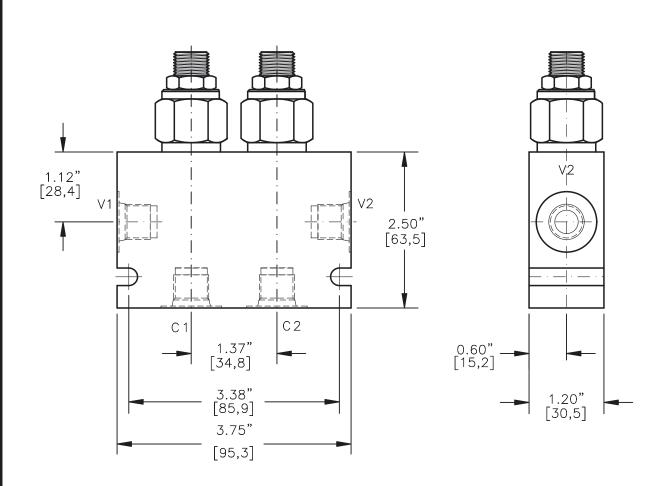
Classification: 430.325.360.305.315

^{***} recommended up to 3000 psi or non-overcenter applications only.

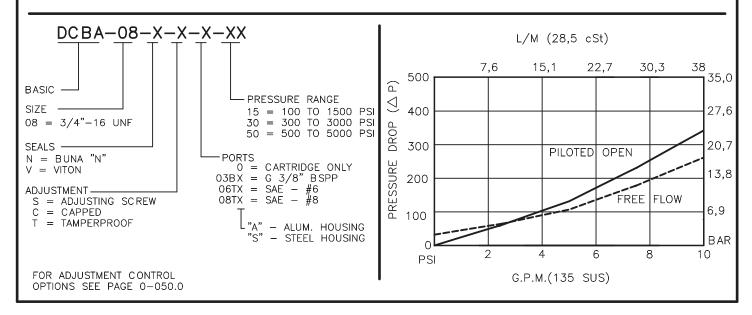


DUAL COUNTERBALANCE VALVE POPPET TYPE, FREE REVERSE FLOW WITH CROSS-LINE PILOTS





FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-026.0





DUAL COUNTERBALANCE VALVE POPPET TYPE, FREE REVERSE FLOW WITH CROSS-LINE PILOTS

DESCRIPTION

This unit consists of two CBPA cartridges in an inline housing. The cartridges are direct acting, screw in cartridge style, poppet type, adjustable, pilot as—sisted, hydraulic counterbalance valves.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port V1 to port C1 and V2 to C2 then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at pilot ports which are connected to ports V1 and V2 therefore modulating flow from port C1 or port C2.

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 and with no dynamic seals on all moving parts provides very low hysteresis (1.5%) and reliable operation. Minor internal leakage past the pilot piston purges the air from the pilot line thus improving stability.

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.



DUAL COUNTERBALANCE VALVE POPPET TYPE, FREE REVERSE FLOW WITH CROSS-LINE PILOTS

SPEC IFIC ATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar] PROOF PRESSURE: 10,000 PSI [700 Bar]

FLOW: 10.0 GPM [38 L/M] nominal. See performance chart.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM] VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized.

5000 PSI [350 Bar] = Steel - Unplated.

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-0828 for buna "N".

SKV-0828 for viton.

WEIGHT: 1 lb [0.4536 kg] Aluminum. 3.15 lbs [1.43 kg] Steel.

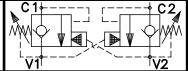
VALVE CAVITY: #C0825, See Page 0-021.0.

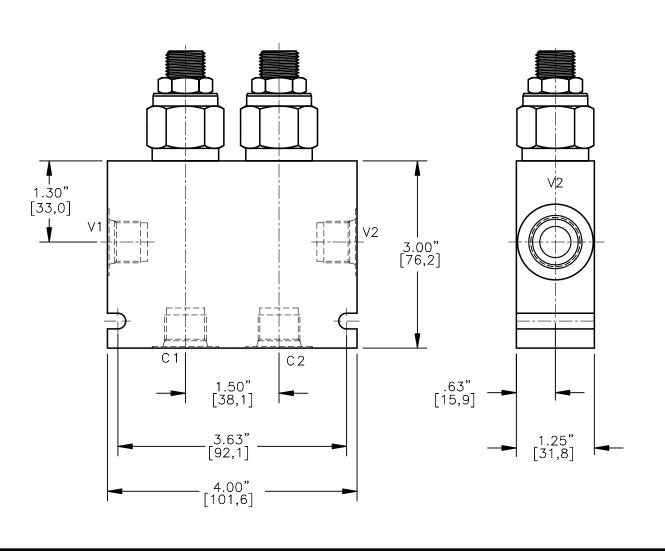
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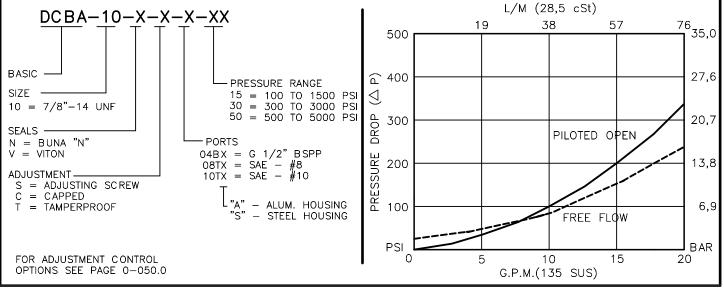
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DUAL COUNTERBALANCE VALVE POPPET TYPE, FREE REVERSE FLOW WITH CROSS-LINE PILOTS.









DUAL COUNTERBALANCE VALVE POPPET TYPE. FREE REVERSE FLOW WITH CROSS-LINE PILOTS.

DESCRIPTION

This unit consists of two CBPA cartridges in an inline housing. The cartridges are direct acting, screw in cartridge style, poppet type, adjustable, pilot as—sisted, hydraulic counterbalance valves.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port V1 to port C1 and V2 to C2 then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at pilot ports which are connected to ports V1 and V2 therefore modulating flow from port C1 or port C2.

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 and with no dynamic seals on all moving parts provides very low hysteresis (1.5%) and reliable operation. Minor internal leakage past the pilot piston purges the air from the pilot line thus improving stability.

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.



DUAL COUNTERBALANCE VALVE POPPET TYPE. FREE REVERSE FLOW WITH CROSS-LINE PILOTS.

SPEC IFIC ATIONS

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.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized. 5000 PSI [350 Bar] = Steel - Unplated.

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-1028 for buna "N".

SKV-1028 for viton.

WEIGHT: 2.65 lbs [1.21 kg] Aluminum. 5.25 lbs [2,38] Steel.

VALVE CAVITY: #C1025, See Page 0-022.0.

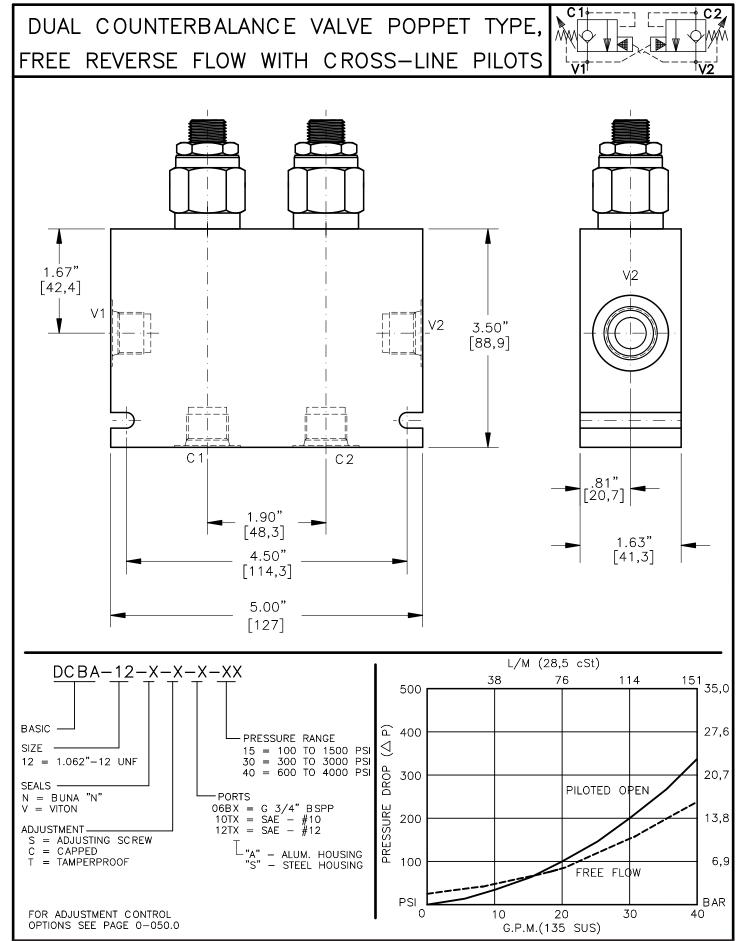
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DCBA-12







DUAL COUNTERBALANCE VALVE POPPET TYPE, FREE REVERSE FLOW WITH CROSS-LINE PILOTS.

DESCRIPTION

This unit consists of two CBPA cartridges in an inline housing. The cartridges are direct acting, screw in cartridge style, poppet type, adjustable, pilot as sisted, hydraulic counterbalance valves.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port V1 to port C1 and V2 to C2 then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at pilot ports which are connected to ports V1 and V2 therefore modulating flow from port C1 or port C2.

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 and with no dynamic seals on all moving parts provides very low hysteresis (1.5%) and reliable operation. Minor internal leakage past the pilot piston purges the air from the pilot line thus improving stability.

All external carbon steel parts are plated for longer life against the elements. Valve is available with screw, tamperproof and capped adjustments.

All cartridge valves are 100% functionally tested.

SPEC IFIC ATIONS

OPERATING PRESSURE: 4,000 PSI [276 Bar] PROOF PRESSURE: 10,000 PSI [700 Bar]

FLOW: 35.0 GPM [132 L/M] nominal. See performance chart.

4 to 1 PILOT RATIO:

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized. 5000 PSI [350 Bar] = Steel - Unplated.

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-1228 for Buna "N".

SKV-1228 for Viton.

WEIGHT: 2.65 lbs [1.21 kg] Aluminum. 5.25 lbs [2.38 kg] Steel.

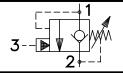
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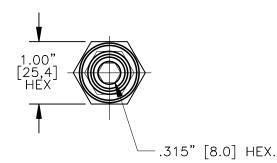


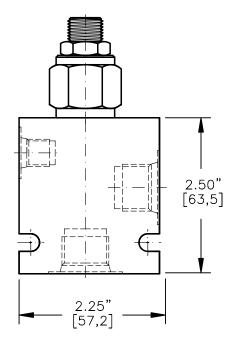
COUNTERBALANCE VALVE POPPET TYPE WITH FREE REVERSE FLOW & SEALS ON THE PISTON

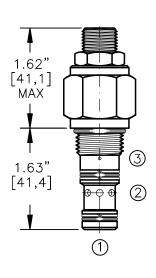


TORQUE:

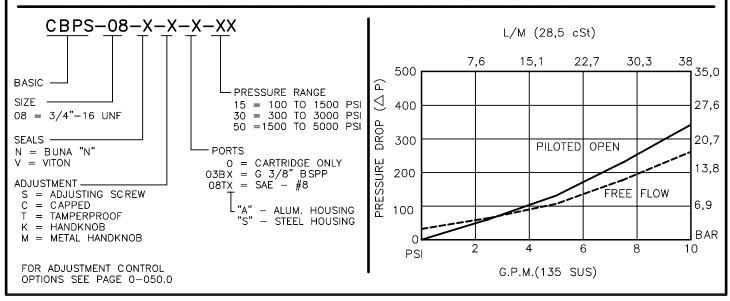
Steel = 35/40 Ft-Lb. [47/54 Nm] Aluminum = 25/30 Ft-Lb. [34/41 Nm]







FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-021-1.





COUNTERBALANCE VALVE POPPET TYPE WITH FREE REVERSE FLOW & SEALS ON THE PISTON.

DESCRIPTION

This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE, POPPET TYPE, ADJUSTABLE, PILOT ASSISTED, HYDRAULIC COUNTERBALANCE VALVE.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port 2 to port 1 and then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at port 3 modulating flow from port 1 to port 2.

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 adapter cage construction provides very reliable operation. Seals on the pilot piston assures no interflow of fluid between port #2 and port #3.

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.



COUNTERBALANCE VALVE POPPET TYPE WITH FREE REVERSE FLOW & SEALS ON THE PISTON.

SPECIFIC ATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar]

PROOF PRESSURE: 10,000 PSI [700 Bar] FLOW: 10.0 GPM [38 L/M] nominal. See performance chart.

 $\bar{4}$ to 1 PILOT RATIO:

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized.

5000 PSI [350 Bar] = Steel - Unplated.

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-0828 for buna "N".

SKV-0828 for viton.

WEIGHT: 0.30 lb [.14 kg] cartridge only. VALVE CAVITY: #C0825, See Page 0-021.0.

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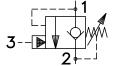
CBPS-10

FOR ADJUSTMENT CONTROL

OPTIONS SEE PAGE 0-050.0



COUNTERBALANCE VALVE POPPET TYPE, FREE REVERSE FLOW & SEALS ON THE PISTON.



TORQUE: Steel = 55/60 Ft-Lb. [74/81 Nm]Aluminum = 35/40 Ft-Lb. [47/54 Nm]1.06" [27,0] HEX -.315"[8,0] HEX. 1.75" [44,5] MAX. 2.75" [69,8] ③ 1.90" [48,3] 2 2.50" [63,5]FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-022-1. L/M (28,5 cSt) CBPS-10-X-X-XX 76 **3**5,0 19 38 57 500 BASIC — € 400 27,6 PRESSURE RANGE \triangleleft SIZE -15 = 100 TO 1500 PSI 30 = 300 TO 3000 PSI 50 = 500 TO 5000 PSI 10 = 7/8"-14 UNFDROP 300 20,7 SEALS -PILOTED OPEN N = BUNA "N" V = VITONPORTS 0 = CARTRIDGE ONLYPRESSURE 03BX = G 3/8" BSPP 04BX = G 1/2" BSPP 08TX = SAE - #8 10TX = SAE - #10 200 13,8 ADJUSTMENT -S = ADJUSTING SCREW C = CAPPED= TAMPERPROOF 100 6,9 FREE FLOW = HANDKNOB ALUM. HOUSINGSTEEL HOUSING M = METAL HANDKNOB

PSI

10

G.P.M.(135 SUS)

⊿ BAR 20



COUNTERBALANCE VALVE POPPET TYPE WITH FREE REVERSE FLOW & SEALS ON THE PISTON.

DESCRIPTION

This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE. POPPET TYPE, ADJUSTABLE, PILOT ASSISTED, HYDRAULIC COUNTERBALANCE VALVE.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port 2 to port 1 and then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at port 3 modulating flow from port 1 to port 2.

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 adapter cage construction provides very reliable operation. Seals on the pilot piston assures no interflow of fluid between port #2 and port #3.

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.



COUNTERBALANCE VALVE POPPET TYPE WITH FREE REVERSE FLOW & SEALS ON THE PISTON.

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.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized.

5000 PSI [350 Bar] = Steel - Unplated.

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-1028 for buna "N".

SKV-1028 for viton.

WEIGHT: 0.46 lb [.21 kg] cartridge only. VALVE CAVITY: #C1025, See Page 0-022.0.

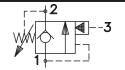
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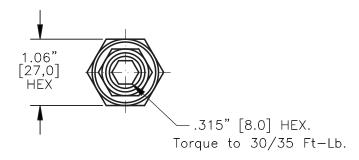
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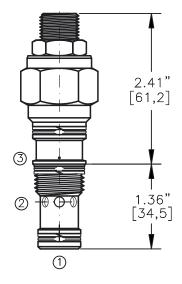
COUNTERBALANCE VALVE POPPET TYPE, FREE REVERSE FLOW & SEALS ON THE PILOT PISTON

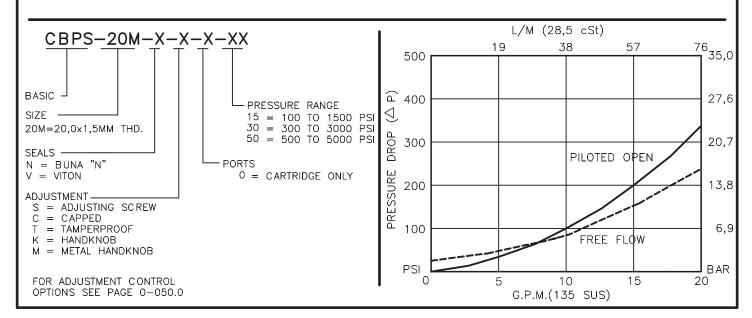


FITS INTO SUN CAVITY # T-11A



Turn screw clockwise to increase the pressure setting.







COUNTERBALANCE VALVE POPPET TYPE, FREE REVERSE FLOW & SEALS ON THE PILOT PISTON.

DESCRIPTION

This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE, POPPET TYPE. ADJUSTABLE. PILOT ASSISTED. HYDRAULIC COUNTERBALANCE VALVE.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port 2 to port 1 and then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at port 3 modulating out flow from port 1 to port 2.

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 adapter cage construction provides very reliable operation.

Seals on the pilot piston assures no flow of fluid between port #2 and port #3. 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.

Fits in to SUN cavity # T-11A.

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.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-1029 for buna "N".

SKV-1029 for viton.

WEIGHT: 0.46 lb [.21 kg] cartridge only. VALVE CAVITY: SUN # T-11A.

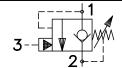
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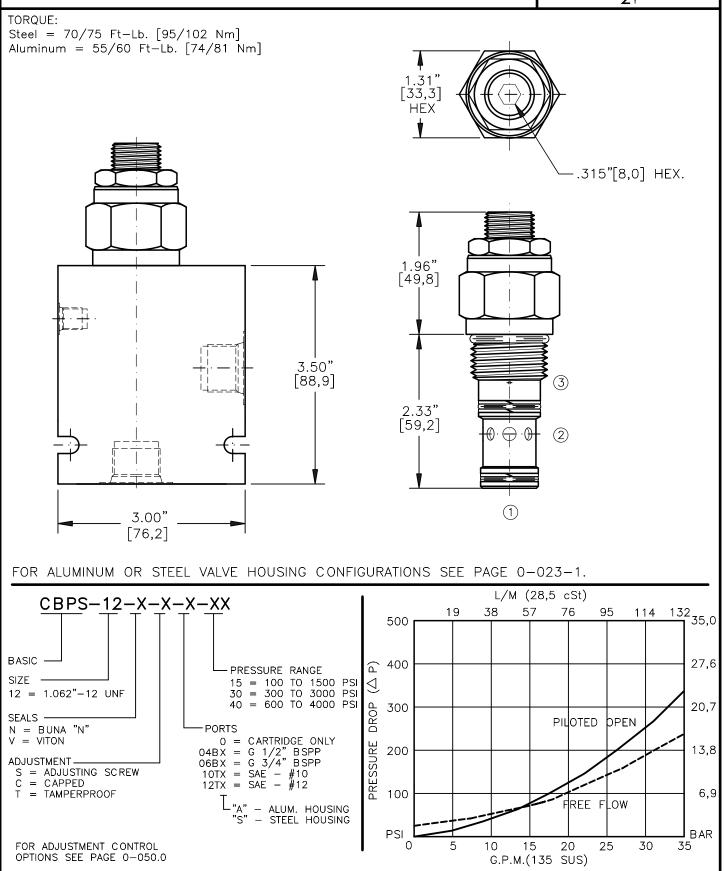
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COUNTERBALANCE VALVE POPPET TYPE WITH FREE REVERSE FLOW & SEALS ON THE PISTON.

DESCRIPTION

This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE, POPPET TYPE. ADJUSTABLE. PILOT ASSISTED. HYDRAULIC COUNTERBALANCE VALVE.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port 2 to port 1 and then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at port 3 modulating flow from port 1 to port 2.

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 adapter cage construction provides very reliable operation.

Seals on the pilot piston assures no interflow of fluid between port #2 and port #3.

All external carbon steel parts are plated for longer life against the elements. Valve is available with screw, tamperproof and capped adjustments. All cartridge valves are 100% functionally tested.

SPECIFIC ATIONS

OPERATING PRESSURE: 4,000 PSI [276 Bar] PROOF PRESSURE: 10,000 PSI [700 Bar]

FLOW: 35.0 GPM [132 L/M] nominal. See performance chart.

PILOT RATIO: $\bar{4}$ to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized.

5000 PSI 350 Bar = Steel - Unplated.

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-1228 for Buna "N".

SKV-1228 for Viton.

WEIGHT: 0.84 lb [0,38 kg] cartridge only. VALVE CAVITY: #C1225, See Page 0-023.0.

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SIZE -

SEALS -

08 = 3/4"-16 UNF

S = ADJUSTING SCREW

FOR ADJUSTMENT CONTROL

OPTIONS SEE PAGE 0-050.0

= TAMPERPROOF

N = BUNA "N" V = VITON

C = CAPPED

ADJUSTMENT -

COUNTERBALANCE VALVE POPPET TYPE WITH FREE REVERSE FLOW & SEALS ON THE PISTON

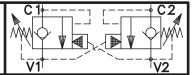
- PRESSURE RANGE

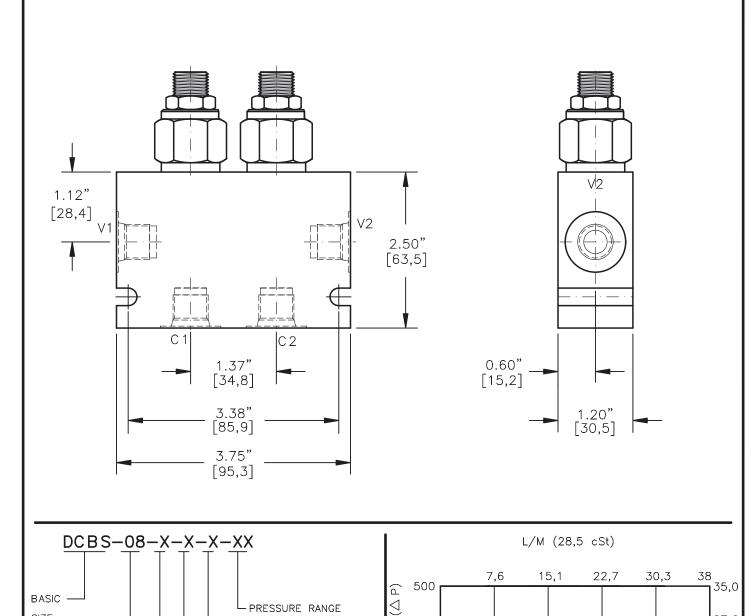
03BX = G 3/8" BSPP 06TX = SAE - #6 08TX = SAE - #8

PORTS

15 = 100 TO 1500 PSI 30 = 300 TO 3000 PSI 50 = 1500 TO 5000 PSI

"A" — ALUM. HOUSING "S" — STEEL HOUSING





400

300

200

100

PSI

DROP

PRESSURE

8

FREE

FLOW

PILOTED OPEN

6

G.P.M.(135 SUS)

27,6

20,7

13,8

6,9

BAR

10



COUNTERBALANCE VALVE POPPET TYPE WITH FREE REVERSE FLOW & SEALS ON THE PISTON.

DESCRIPTION

This unit consists of two CBPS cartridges in an inline housing. The cartridges are direct acting, screw in cartridge style, poppet type, adjustable, pilot as—sisted, hydraulic counterbalance valves.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port V1 to port C1 and V2 to C2 then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at pilot ports which are connected to ports V1 and V2 therefore modulating flow from port C1 or port C2.

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 and with no dynamic seals on all moving parts provides very low hysteresis (1.5%) and reliable operation. Minor internal leakage past the pilot piston purges the air from the

pilot line thus improving stability.

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.



COUNTERBALANCE VALVE POPPET TYPE WITH FREE REVERSE FLOW & SEALS ON THE PISTON.

SPECIFICATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar] PROOF PRESSURE: 10,000 PSI [700 Bar]

FLOW: 10.0 GPM [38 L/M] nominal. See performance chart.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized.

5000 PSI [350 Bar] = Steel - Unplated.

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-0828 for buna "N". SKV-0828 for viton.

WEIGHT: 1 lb [0.4536 kg] Aluminum. 3.15 lbs [1.43 kg] Steel.

VALVE CAVITY: #C0825, See Page 0-021.0.

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FOR ADJUSTMENT CONTROL

OPTIONS SEE PAGE 0-050.0

DUAL COUNTERBALANCE VALVE POPPET TYPE, FREE REVERSE FLOW WITH CROSS-LINE PILOTS 1.30" [33,0]3.00" [76,2]C 1 C2 .63 1.50" [15,9] [38,1]1.25" 3.63" [31,8] [92,1]4.00" [101,6] L/M (28,5 cSt) DCBS-10-X-X-XX ⁷⁶35,0 19 38 57 500 BASIC -27,6 <u>a</u> 400 PRESSURE RANGE ⊴ SIZE -15 = 100 TO 1500 PSI 30 = 300 TO 3000 PSI 50 = 500 TO 5000 PSI 10 = 7/8"-14 UNF DROP 300 20,7 SEALS -PILOTED OPEN N = BUNA "N" V = VITONPORTS DRESSURE 100 04BX = G 1/2" BSPP13,8 08TX = SAE - #8 10TX = SAE - #10ADJUSTMENT -S = ADJUSTING SCREW
C = CAPPED "A" - ALUM. HOUSING "S" - STEEL HOUSING = TAMPERPROOF 6,9 FREE FLOW BAR PSI

10

G.P.M.(135 SUS)

20



DUAL COUNTERBALANCE VALVE POPPET TYPE, FREE REVERSE FLOW WITH CROSS-LINE PILOTS.

DESCRIPTION

This unit consists of two CBPS cartridges in an inline housing. The cartridges are direct acting, screw in cartridge style, poppet type, adjustable, pilot as—sisted, hydraulic counterbalance valves.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port V1 to port C1 and V2 to C2 then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at pilot ports which are connected to ports V1 and V2 therefore modulating flow from port C1 or port C2.

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 and with no dynamic seals on all moving parts provides very low hysteresis (1.5%) and reliable operation. Minor internal leakage past the pilot piston purges the air from the pilot line thus improving stability.

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.



DUAL COUNTERBALANCE VALVE POPPET TYPE, FREE REVERSE FLOW WITH CROSS-LINE PILOTS.

SPEC IFIC ATIONS

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.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized.

5000 PSI 350 Bar = Steel - Unplated.

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-1028 for buna "N".

SKV-1028 for viton.

WEIGHT: 2.65 lbs [1.21 kg] Aluminum. 5.25 lbs [2,38] Steel.

VALVE CAVITY: #C1025, See Page 0-022.0.

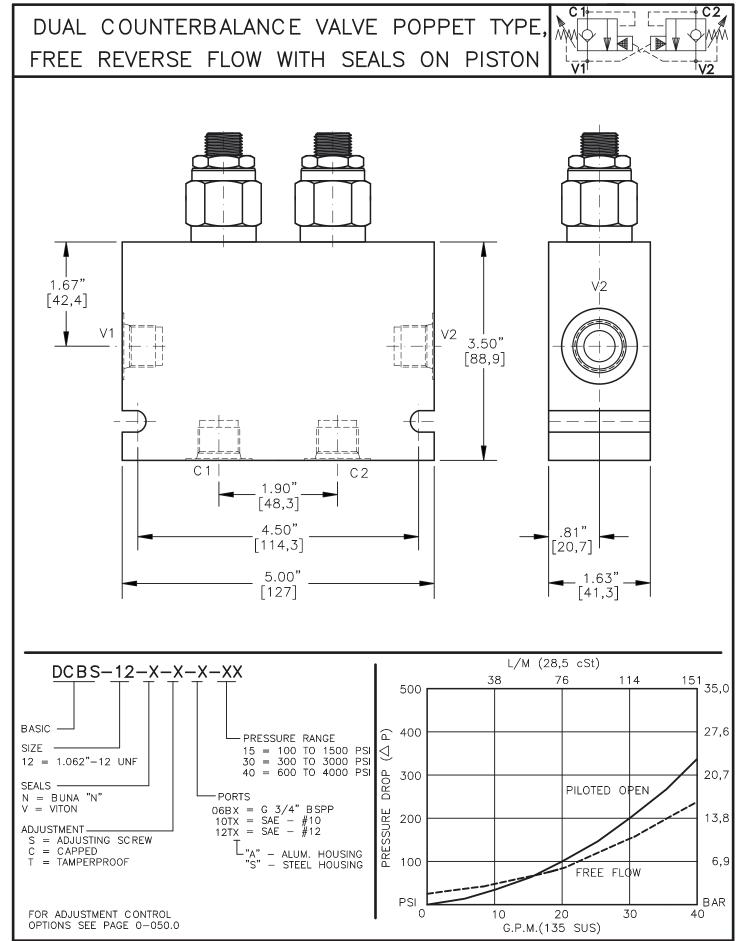
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DCBS-12







DUAL COUNTERBALANCE VALVE POPPET TYPE, FREE REVERSE FLOW WITH SEALS ON PISTON.

DESCRIPTION

This unit consists of two CBPS cartridges in an inline housing. The cartridges are direct acting, screw in cartridge style, poppet type, adjustable, pilot as—sisted, hydraulic counterbalance valves.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port V1 to port C1 and V2 to C2 then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at pilot ports which are connected to ports V1 and V2 therefore modulating flow from port C1 or port C2.

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 adapter cage construction provides very reliable operation.

Seals on the pilot piston assures no interflow of fluid between port #2 and port #3. 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.

SPECIFICATIONS

OPERATING PRESSURE: 4,000 PSI [276 Bar]

PROOF PRESSURE: 10,000 PSI [700 Bar]

FLOW: 35.0 GPM [132 L/M] nominal. See performance chart.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized.

5000 PSI [350 Bar] = Steel — Unplated.

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-1228 for Buna "N".

SKV-1228 for Viton.

WEIGHT: 2.65 lbs [1,21 kg] Aluminum. 5.25 lbs [2,38] Steel.

VALVE CAVITY: #C1225, See Page 0-023.0.

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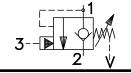
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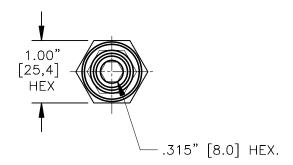


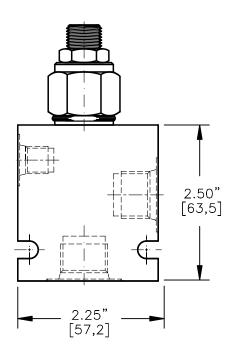
COUNTERBALANCE VALVE POPPET TYPE WITH FREE REVERSE FLOW & VENTED PISTON

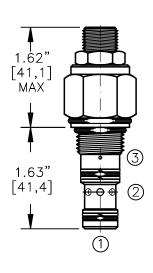


TORQUE:

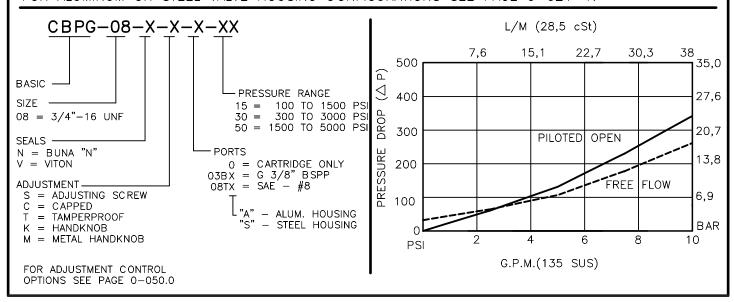
Steel = 35/40 Ft-Lb. [47/54 Nm] Aluminum = 25/30 Ft-Lb. [34/41 Nm]







FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-021-1.





COUNTERBALANCE VALVE POPPET TYPE WITH FREE REVERSE FLOW & VENTED PISTON

DESCRIPTION

This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE, POPPET TYPE, ADJUSTABLE, PILOT ASSISTED, HYDRAULIC COUNTERBALANCE VALVE.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port 2 to port 1 and then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at port 3 modulating flow from port 1 to port 2.

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 adapter cage construction provides very reliable operation. Seals on the pilot piston assures no interflow of fluid between port #2 and port #3.

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.



COUNTERBALANCE VALVE POPPET TYPE WITH FREE REVERSE FLOW & VENTED PISTON

SPEC IFIC ATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar]

PROOF PRESSURE: 10,000 PSI [700 Bar] FLOW: 10.0 GPM [38 L/M] nominal. See performance chart.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized.

5000 PSI [350 Bar] = Steel - Unplated.

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-0828 for bund "N".

SKV-0828 for viton.

WEIGHT: 0.30 lb [.14 kg] cartridge only. VALVE CAVITY: #C0825, See Page 0-021.0.

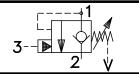
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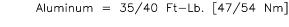


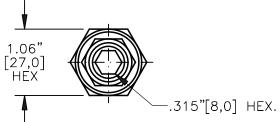


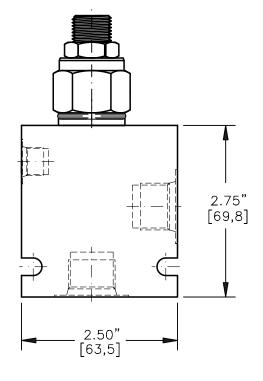


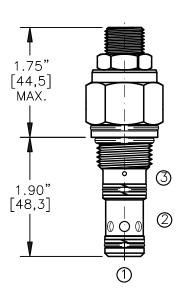


Steel = 55/60 Ft-Lb. [74/81 Nm]

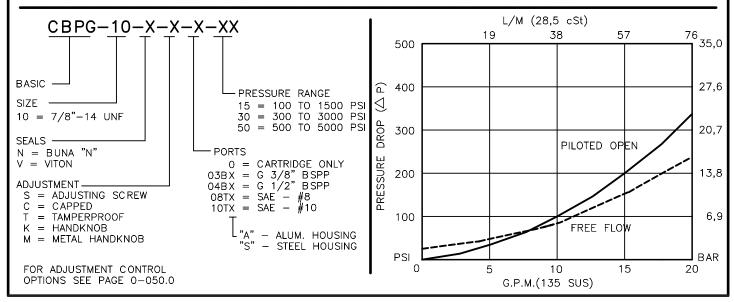








FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-022-1.





COUNTERBALANCE VALVE POPPET TYPE, WITH FREE REVERSE FLOW & VENTED PISTON.

DESCRIPTION

This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE, POPPET TYPE, ADJUSTABLE, PILOT ASSISTED, HYDRAULIC COUNTERBALANCE VALVE.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port 2 to port 1 and then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at port 3 modulating flow from port 1 to port 2.

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 adapter cage construction provides very reliable operation. Vented pilot piston spring chamber to atmosphere allows this valve to be used with a closed center valve or re—generative circuit. 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.



COUNTERBALANCE VALVE POPPET TYPE, WITH FREE REVERSE FLOW & VENTED PISTON.

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.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum — Anodized.

5000 PSI [350 Bar] = Steel — Unplated.

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-1028 for buna "N".

SKV-1028 for viton.

WEIGHT: 0.46 lb [.21 kg] cartridge only. VALVE CAVITY: #C1025, See Page 0-022.0.

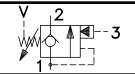
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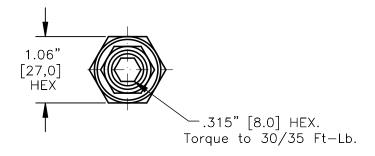
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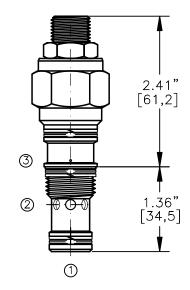
COUNTERBALANCE VALVE POPPET TYPE, WITH FREE REVERSE FLOW & VENTED PISTON

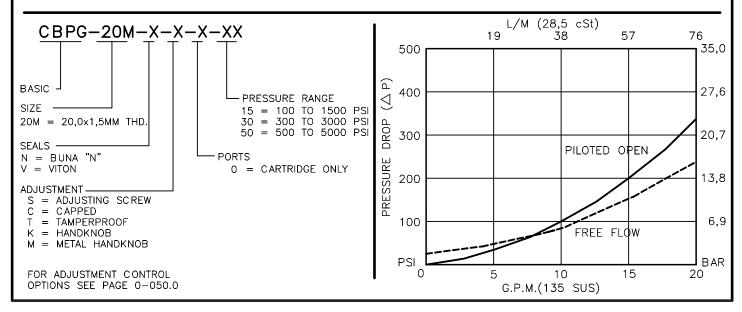


FITS INTO SUN CAVITY # T-11A



Turn screw clockwise to increase the pressure setting.







COUNTERBALANCE VALVE POPPET TYPE, WITH FREE REVERSE FLOW & VENTED PISTON.

DESCRIPTION

This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE, POPPET TYPE, ADJUSTABLE, PILOT ASSISTED, HYDRAULIC COUNTERBALANCE VALVE.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port 2 to port 1 and then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at port 3 modulating out flow from port 1 to port 2.

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 adapter cage construction provides very reliable operation.

Vented pilot piston spring chamber to atmosphere allows this valve

to be used with a re-generative circuit.

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.

Fits in to SUN cavity # T-11A.

SPECIFICATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar] PROOF PRESSURE: 10.000 PSI [700 Bar]

PROOF PRESSURE: 10,000 PSI [700 Bar] FLOW: 20.0 GPM [76 L/M] nominal. See performance chart.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-1029 for buna "N".

SKV-1029 for viton.

WEIGHT: 0.46 lb [.21 kg] cartridge only.

VALVE CAVITY: SUN # T-11A.

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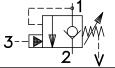
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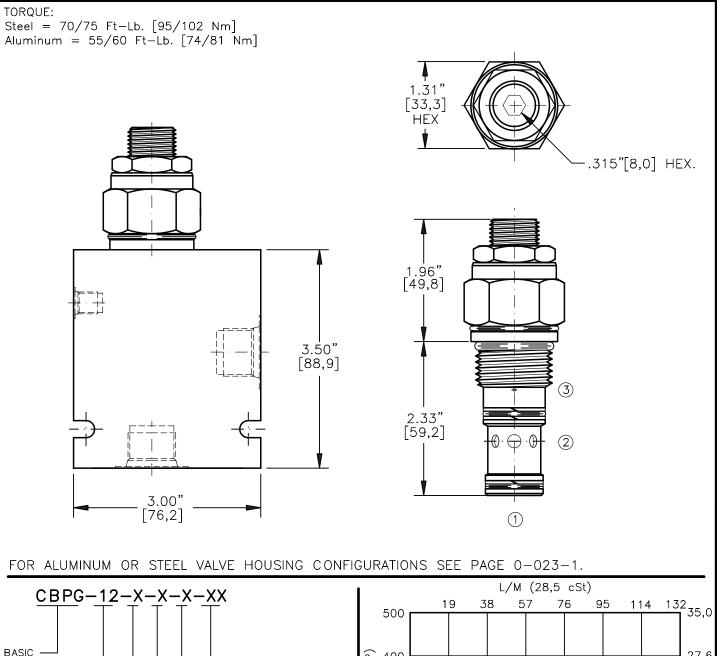
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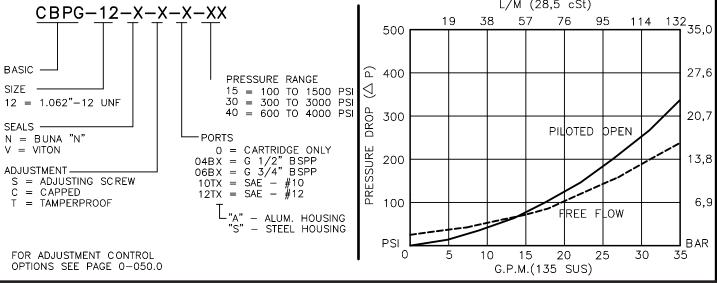
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COUNTERBALANCE VALVE POPPET TYPE, FREE REVERSE FLOW & SEALS ON THE PISTON









COUNTERBALANCE VALVE POPPET TYPE, WITH FREE REVERSE FLOW & VENTED PISTON

DESCRIPTION

This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE, POPPET TYPE, ADJUSTABLE, PILOT ASSISTED, HYDRAULIC COUNTERBALANCE VALVE.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port 2 to port 1 and then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at port 3 modulating flow from port 1 to port 2.

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 adapter cage construction provides very reliable operation. Vented pilot piston spring chamber to atmosphere allows this valve to be used with a re—generative circuit.

All external carbon steel parts are plated for longer life against the elements. Valve is available with screw, tamperproof and capped adjustments.

All cartridge valves are 100% functionally tested.



COUNTERBALANCE VALVE POPPET TYPE, WITH FREE REVERSE FLOW & VENTED PISTON

SPECIFICATIONS

OPERATING PRESSURE: 4,000 PSI [276 Bar] PROOF PRESSURE: 10,000 PSI [700 Bar]

FLOW: 35.0 GPM [132 L/M] nominal. See performance chart.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum — Anodized.

5000 PSI [350 Bar] = Steel — Unplated.

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-1228 for Buna "N".

SKV-1228 for Viton.

WEIGHT: 0.84 lb [0,38 kg] cartridge only. VALVE CAVITY: #C1225, See Page 0-023.0.

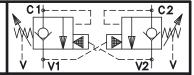
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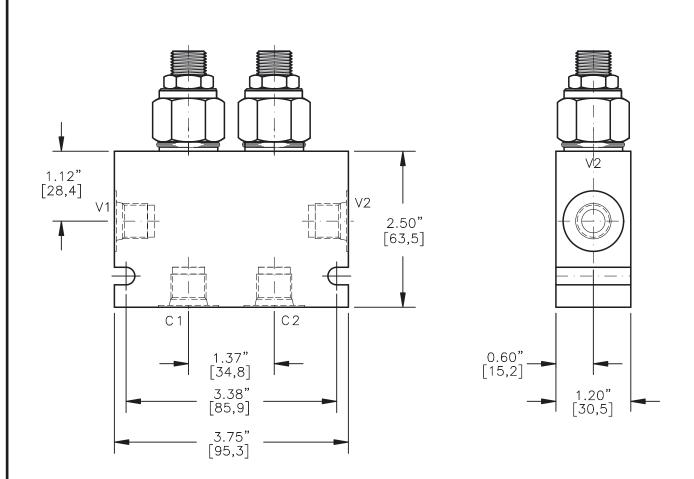
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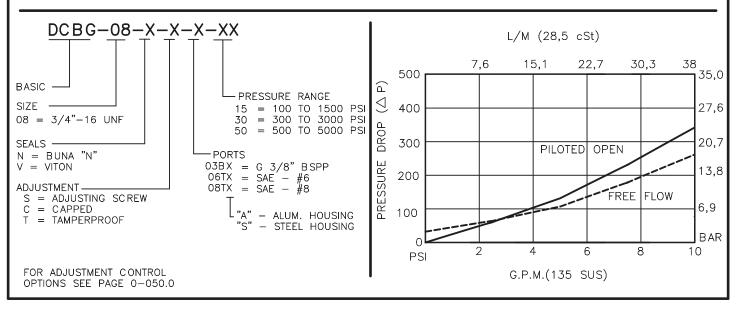


DUAL COUNTERBALANCE VALVE POPPET TYPE WITH FREE REVERSE FLOW & VENTED PISTON





FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-026.0





DUAL COUNTERBALANCE VALVE POPPET TYPE WITH FREE REVERSE FLOW & VENTED PISTON

DESCRIPTION

This unit consists of two CBPG cartridges in an inline housing. The cartridges are direct acting, screw in cartridge style, poppet type, adjustable, pilot assisted, hydraulic counterbalance valves.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port V1 to port C1 and V2 to C2 then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at pilot ports which are connected to ports V1 and V2 therefore modulating flow from port C1 or port C2.

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 and with no dynamic seals on all moving parts provides very low hysteresis (1.5%) and reliable operation. Minor internal leakage past the pilot piston purges the air from the pilot line thus improving stability.

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.



DUAL COUNTERBALANCE VALVE POPPET TYPE WITH FREE REVERSE FLOW & VENTED PISTON

SPECIFICATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar]

PROOF PRESSURE: 10,000 PSI [700 Bar] FLOW: 10.0 GPM [38 L/M] nominal. See performance chart.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized. 5000 PSI [350 Bar] = Steel - Unplated.

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-0828 for buna "N".

SKV-0828 for viton.

WEIGHT: 1 lb $[0.4536\ kg]$ Aluminum. 3.15 lbs $[1.43\ kg]$ Steel. VALVE CAVITY: #C0825, See Page 0-021.0.

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DUAL COUNTERBALANCE VALVE POPPET TYPE, FREE REVERSE FLOW WITH VENTED PISTON 1.30" [33,0]٧2 3.00" [76,2] C2 C 1 1.50" .63 [38,1] ⁻15,9 3.63" 1.25" [92,1] [31,8] 4.00" [101,6] L/M (28,5 cSt) DCBG-10-X-X-XX ⁷⁶35,0 19 38 57 500 <u>a</u> 400 BASIC — 27,6 PRESSURE RANGE SIZE -15 = 100 TO 1500 PSI 30 = 300 TO 3000 PSI 50 = 500 TO 5000 PSI \triangleleft 10 = 7/8"-14 UNF DROP 300 20,7 SEALS -PILOTED OPEN N = BUNA "N" V = VITON04BX = G 1/2" BSPP 08TX = SAE - #8 10TX = SAE - #10 PRESSURE 100 13,8 ADJUSTMENT -S = ADJUSTING SCREW
C = CAPPED "A" - ALUM. HOUSING
"S" - STEEL HOUSING = TAMPERPROOF 6,9 FREE FLOW BAR PSI 20 FOR ADJUSTMENT CONTROL 10 OPTIONS SEE PAGE 0-050.0G.P.M.(135 SUS)



DUAL COUNTERBALANCE VALVE POPPET TYPE, FREE REVERSE FLOW WITH VENTED PISTON

DESCRIPTION

This unit consists of two CBPG cartridges in an inline housing. The cartridges are direct acting, screw in cartridge style, poppet type, adjustable, pilot assisted, hydraulic counterbalance valves.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port V1 to port C1 and V2 to C2 then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at pilot ports which are connected to ports V1 and V2 therefore modulating flow from port C1 or port C2.

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 adapter cage construction provides very reliable operation.

Vented pilot piston spring chamber to atmosphere allows this valve

to be used with a re-generative circuit.

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.

SPEC IFIC ATIONS

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.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized.

5000 PSI 350 Bar = Steel - Unplated.

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-1028 for buna "N".

SKV-1028 for viton.

WEIGHT: 2.65 lbs [1.21 kg] Aluminum. 5.25 lbs [2,38] Steel.

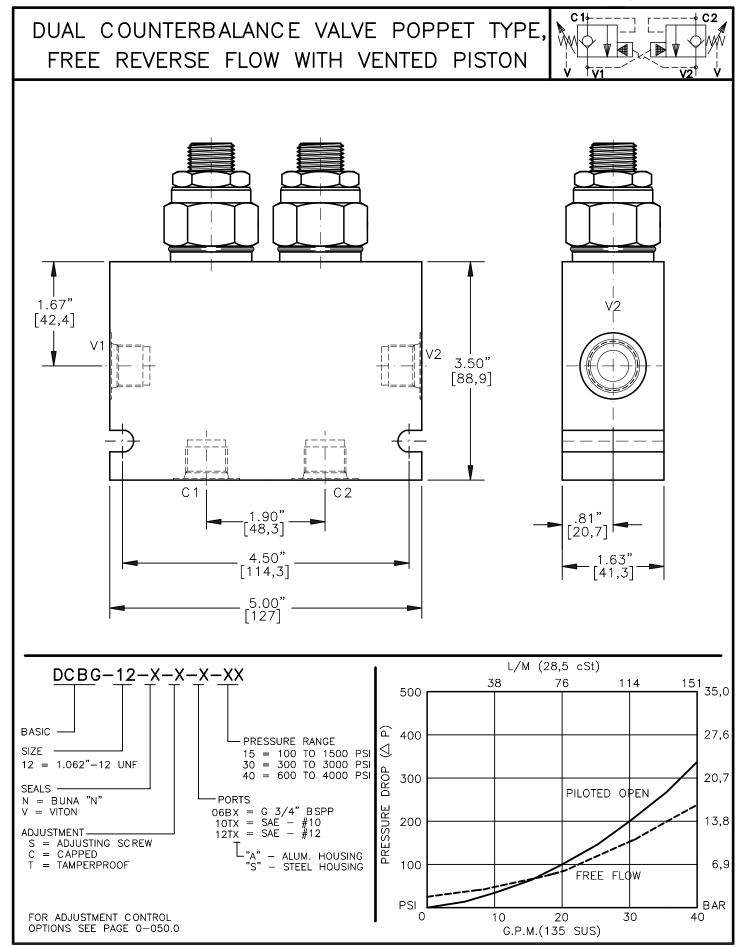
VALVE CAVITY: #C1025, See Page 0-022.0.

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DUAL COUNTERBALANCE VALVE POPPET TYPE, FREE REVERSE FLOW WITH VENTED PISTON

DESCRIPTION

This unit consists of two CBPG cartridges in an inline housing. The cartridges are direct acting, screw in cartridge style, poppet type, adjustable, pilot assisted, hydraulic counterbalance valves.

OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port V1 to port C1 and V2 to C2 then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at pilot ports which are connected to ports V1 and V2 therefore modulating flow from port C1 or port C2.

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 adapter cage construction provides very reliable operation. Vented pilot piston sprin chamber to atmosphere allows this valve

to be used with a re-generative circuit.

All external carbon steel parts are plated for longer life against the elements. Valve is available with screw, tamperproof and capped adjustments.

All cartridge valves are 100% functionally tested.

SPEC IFIC ATIONS

OPERATING PRESSURE: 4,000 PSI [276 Bar] PROOF PRESSURE: 10,000 PSI [700 Bar]

FLOW: 35.0 GPM [132 L/M] nominal. See performance chart.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.^J

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized.

5000 PSI [350 Bar] = Steel — Unplated.

OPERATING TEMPERATURE: -40° to $+250^{\circ}$ F. $[-40^{\circ}$ to $+120^{\circ}$ 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-1228 for buna "N".

SKV-1228 for viton.

WEIGHT: 2.65 lbs [1,21 kg] Aluminum. 5.25 lbs [2,38] Steel.

VALVE CAVITY: #C1225, See Page 0-023.0.

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