Motion Control Valves CP448-1



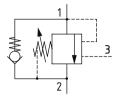
Overcenter Valve, Standard, Direct Acting, Internal Drain, Port 3 Pilot

350 bar [5000 psi] • 19 l/min [5 US gpm]

DESCRIPTION AND OPERATION

This is a direct acting overcenter valve, which is a pilot assisted relief with a free flow check. With the relief valve set at approximately 1.3 times the maximum load induced pressure, the valve will prevent flow from port 1 to 2. When pilot pressure is applied to port 3, the valve will meter the flow from port 1 to 2, compensating for any change in pilot pressure due to over-running or unstable loads. Free flow takes place from port 2 to port 1 through the check portion of the valve. These valves are ideal in most applications bringing stability, load holding, and hose failure protection when the valve is mounted onto or into the actuator. The spring chamber is connected to the valve port 2, so any back pressure will increase the pilot pressure required to keep the valve open and the pressure at which the valve will open as a relief valve. This is also available in a dual housing for bi-directional control.

SCHEMATIC

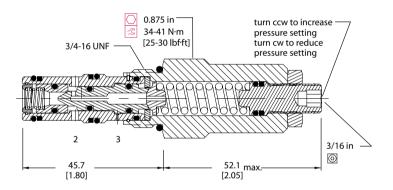


PERFORMANCE DATA

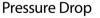
Rated pressure	350 bar [5000 psi]
Rated flow	19 l/min [5 US gpm]
Max total relief pressure	350 bar [5000 psi]
Max recommended load pressure at max setting	270 bar [3900 psi]
Pilot Ratio	3:1, 4.5:1, 8:1
Leakage	10 drops/min @ 70% of crack pressure
Weight	0.16 kg [0.36 lb]
Cavity	CP08-3L

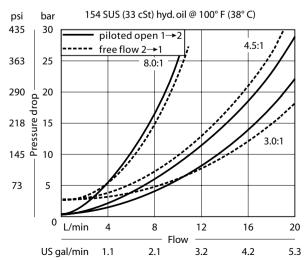
DIMENSIONS

mm [in]



PERFORMANCE CURVES





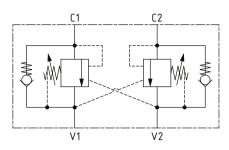
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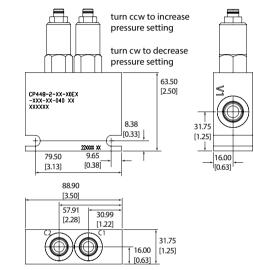
Overcenter Valve, Standard, Direct Acting, Internal Drain, Port 3 Pilot 350 bar [5000 psi] • 19 l/min [5 US gpm]

DIMENSIONS

mm [in]

CP448-2 (dual)





MODEL CODE

								Free Fl	ow Che	ck Cra	ck Pressure	
Basic Cod	2							Code	Bar	Psi		
	Cartridge and Hous Cartridges and Dua							040	2.76	[40]		
	cur in uges un u suu	lineasing										
Seal Optio	n						Pilot Ratio					
Code	Seal kit						3.0 - 3.0:1					
B -Buna - N	120238						4.5 - 4.5:1 8.0 - 8.0:1					
V -Viton	120239						0.U - 0.U. I					
Housing						Pressure Set	ting					
Code	Ports & Material	Housing	Dual Housing			Code x10 - Pre						Pressure Rar
	Material	Model Čode	Model Code			XXX-Standard	a setting (see	e Pressure r	ange io	r value))	
0	No housing	Model Code	Model Code			Example:	a setting (see	e Pressure P	5	r value))	
0 2B		CP08-3L-2B	Model Code				5.	Bar	Psi	r value))	
	No housing		Model Code CP448-2-3B			Example:			5	r value) —)	
2B	No housing AL, 1/4 BSP	CP08-3L-2B			Pressure R	Example: Code 075		Bar	Psi	r value) 		
2B 3B	No housing AL, 1/4 BSP AL, 3/8 BSP	CP08-3L-2B CP08-3L-3B	CP448-2-3B			Example: Code 075 ange Pilot R	atio 3.0	Bar 52 Pilot	Psi [750] Ratio 4	 4.5	Pilot Ra	atio 8.0
2B 3B \$3B	No housing AL, 1/4 BSP AL, 3/8 BSP Steel, 3/8 BSP	CP08-3L-2B CP08-3L-3B CP08-3L-S3B	CP448-2-3B CP448-2-53B		Code	Example: Code 075 ange Pilot R Psi	atio 3.0 Bar	Bar 52 Pilot Psi	Psi [750] Ratio 4 B		Pilot Ra Psi	Bar
2B 3B 53B 45	No housing AL, 1/4 BSP AL, 3/8 BSP Steel, 3/8 BSP AL, #4 SAE	CP08-3L-2B CP08-3L-3B CP08-3L-53B CP08-3L-4S	CP448-2-3B CP448-2-53B CP448-2-45			Example: Code 075 ange Pilot R Psi 600-1800	atio 3.0 Bar [41-124]	Bar 52 Pilot Psi 800-2700	Psi [750] Ratio 4 B) [55-	4.5 Bar -186]	Pilot Ra Psi 1500-5000	Bar [103-350
2B 3B 53B 45 65 565	No housing AL, 1/4 BSP AL, 3/8 BSP Steel, 3/8 BSP AL, #6 SAE Steel, #6 SAE	CP08-3L-2B CP08-3L-3B CP08-3L-53B CP08-3L-4S CP08-3L-6S CP08-3L-6S	CP448-2-38 CP448-2-538 CP448-2-45 CP448-2-65		Code A Standard Setting	Example: Code 075 ange Pilot R Psi 600-1800 1000	atio 3.0 Bar [41-124] [69]	Bar 52 Pilot Psi 800-2700 1500	Psi [750] Ratio 4 	4.5 Bar -186] 103]	Pilot Ra Psi	Bar
2B 3B 53B 45 65 565 * Aluminum	No housing AL, 1/4 BSP AL, 3/8 BSP Steel, 3/8 BSP AL, #6 SAE Steel, #6 SAE	CP08-3L-2B CP08-3L-3B CP08-3L-53B CP08-3L-4S CP08-3L-6S CP08-3L-6S	CP448-2-3B CP448-2-53B CP448-2-45		Code A Standard Setting B	Example: Code 075 ange Pilot R Psi 600-1800 1000 1000-3500	atio 3.0 Bar [41-124] [69] [269-240]	Bar 52 Pilot Psi 800-2700 1500	Psi [750] Ratio 4 B) [55- [1 00 [103	4.5 Bar -186] 103] 3-350]	Pilot Ra Psi 1500-5000	Bar [103-35
2B 3B 53B 45 65 565 * Aluminum	No housing AL, 1/4 BSP AL, 3/8 BSP Steel, 3/8 BSP AL, #4 SAE AL, #6 SAE Steel, #6 SAE bodies are to be use housings available	CP08-3L-2B CP08-3L-3B CP08-3L-53B CP08-3L-45 CP08-3L-65 CP08-3L-565	CP448-2-38 CP448-2-538 CP448-2-45 CP448-2-65		Code A Standard Setting	Example: Code 075 ange Pilot R Psi 600-1800 1000	atio 3.0 Bar [41-124] [69]	Bar 52 Pilot Psi 800-2700 1500	Psi [750] Ratio 4 B) [55- [1 00 [103	4.5 Bar -186] 103]	Pilot Ra Psi 1500-5000	Bar [103-35
2B 3B 53B 45 65 565 * Aluminum * Additiona	No housing AL, 1/4 BSP AL, 3/8 BSP Steel, 3/8 BSP AL, #4 SAE AL, #6 SAE Steel, #6 SAE bodies are to be use housings available nt Option	CP08-3L-2B CP08-3L-3B CP08-3L-53B CP08-3L-45 CP08-3L-65 CP08-3L-565	CP448-2-38 CP448-2-538 CP448-2-45 CP448-2-65		Code A Standard Setting B Standard	Example: Code 075 ange Pilot R Psi 600-1800 1000 1000-3500	atio 3.0 Bar [41-124] [69] [269-240] [103]	Bar 52 Pilot Psi 800-2700 1500	Psi [750] Ratio 4 B) [55- [1 00 [103	4.5 Bar -186] 103] 3-350]	Pilot Ra Psi 1500-5000	Bar [103-350

