

**OPERATION**

The CP313-4 is a 20-size, flow control, priority type pressure compensator. Priority-type pressure compensators are four-ported valves that work in series with a fixed or variable control orifice. As with the restrictive-type valves, these valves maintain a constant pressure differential across the control orifice. However, rather than restricting flow when the differential pressure becomes too high, the priority-type pressure compensators open a fourth bypass port for all flow in excess of that demanded by the control orifice. Note that if the bypass port is blocked, the valve will function as a restrictive-type pressure compensator.

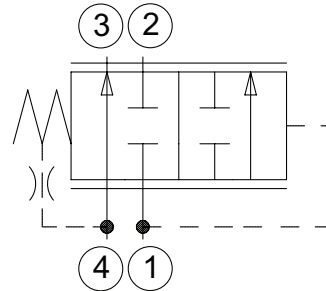
**APPLICATION**

Common applications include any circuit that requires compensated priority flow going to one actuator (for example, steering or charge pressure to a hydrostatic pump), and the remaining going to a secondary function (for example, a fan motor). Pressure compensators offer the circuit designer capability to add pressure compensation to any fixed or variable orifice. This ensures that flow, and resulting actuator speed, are maintained regardless of system and working pressures.

**SPECIFICATION**

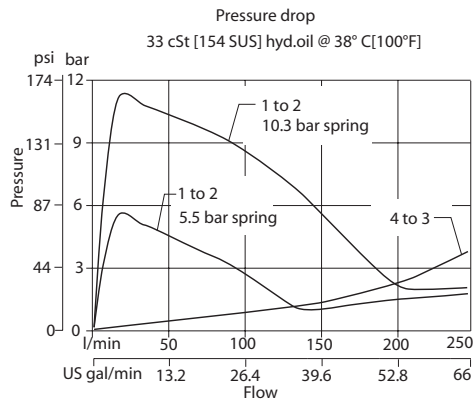
Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar [100 psi]	340 l/min [90 US gal/min]
Weight	1.30 kg [2.80 lb]
Cavity	SDC20-4

**SCHEMATIC**



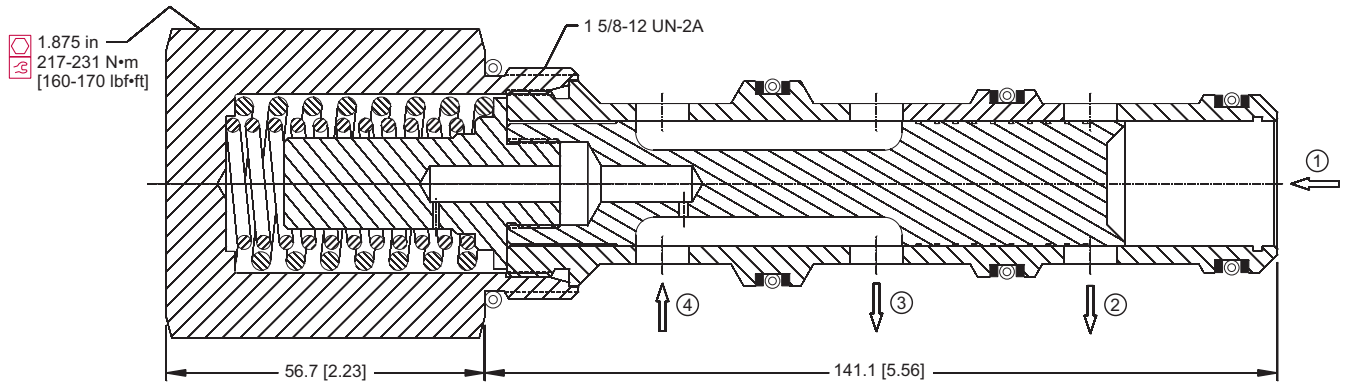
**PERFORMANCE CURVE**

Theoretical performance



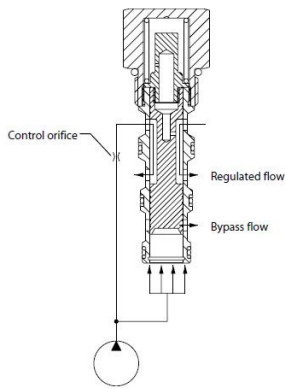
**DIMENSION**  
 mm [in]

Cross-sectional view

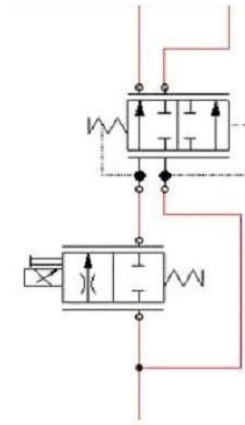


**EXAMPLE CIRCUITS**

Priority-type pressure Compensator operation



Post-Compensated Proportional Priority Flow Control



**ORDERING INFORMATION**

**CP313-4-B-16S-130**

<b>Seals</b>			
	B = Buna-N	Seal kits	120181
	V = Viton		120182
<b>Housing and ports</b>		<b>Housing P/N</b>	
0	= No Housing	No Housing	
8B	= AL, 1 BSP	CP20-4-8B	
10B	= AL, 1-1/4 BSP	CP20-4-10B	
16S	= AL, #16 SAE	CP20-4-16S	
20S	= AL, #20 SAE	CP20-4-20S	
Other housings available			
		<b>Differential control pressure</b>	
			bar [psi]
		050	= 3.4 50
		080	= 5.5 80
		100	= 6.9 100
		130	= 9.0 130
		150	= 10.3 150