General Description

The CPD084P is a single cartridge, Double Pilot Operated Check Valve. It is used in load holding operations. When using the valve in conjunction with a directional control valve, always use a spool configuration that has an open flow path from the work ports to the tank.

Operation

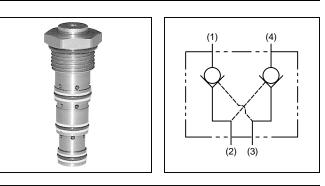
In the absence of flow and pressure on the free flow inlet ports, the load is held locked into position by the two check valves. The valve allows an actuator to be powered into motion by permitting free flow from the actuator through the opposite check, which is internally piloted, open by the internal shuttle.

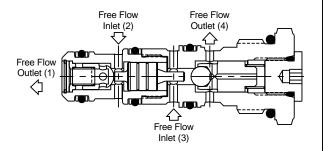
Features

- Hardened, precision ground parts for long life
- Cost effective replaces two cartridges
- High flow capacity with reduced space requirements
- Low leakage design
- Fully guided poppet for smooth operation
- Standard valve body and common cavity

Specifications

Maximum Elaw	19.75 L DM (5.CDM)	
Maximum Flow	18.75 LPM (5 GPM)	
Max. Operating Pressure	210 Bar (3000 PSI)	
Max. Leakage at Rated Pressure	0.25 cc/min. (5 drops/min.)	
Operating Temp. Range (Ambient)	-40°C to +93.3°C (Nitrile) (-40°F to +200°F) -31.7°C to +121.1°C (Fluorocarbon) (-25°F to +250°F)	
Cartridge Material	All parts steel. All operating parts hardened steel.	
Body Material	Aluminum only	
Filtration	ISO code 16/13, SAE Class 4 or better	
Mounting	No Restrictions	
Cavity	Common Cavity No. C08-4	

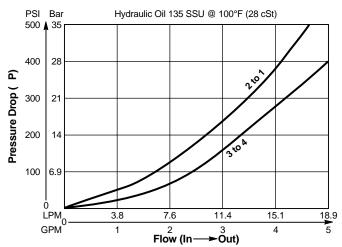




Performance Curve

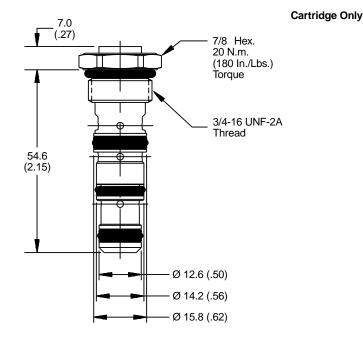
Flow vs. Pressure Drop

(Through cartridge only)

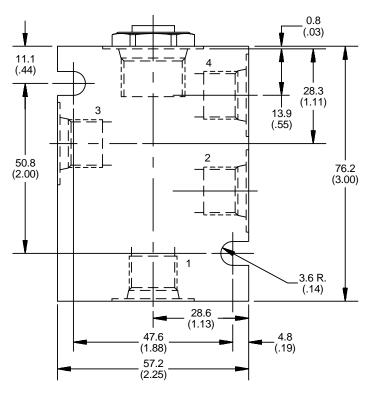


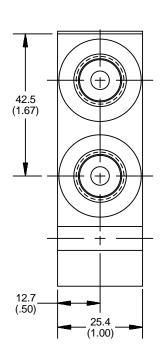
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*Inch equivalents for millimeter dimensions are shown in (**)



Cartridge In Body



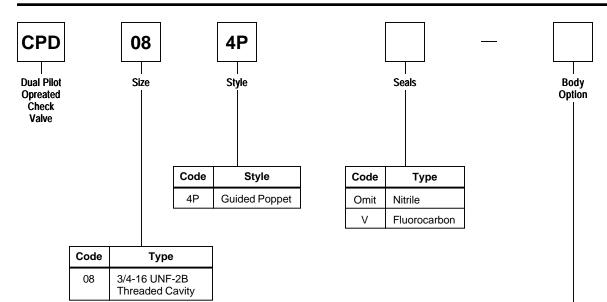




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Catalog 3105/USA Ordering Information

Check Valves Series CPD084P



SERVICE PARTS Nitrile Seal Kit: SK08-4 Fluorocarbon Seal Kit: SK08-4V

Shipping Weight

Cartridge Only	.05 kg (.11 lbs.)
Cartridge in Body	.32 kg (.71 lbs.)

Code	Port Size & Material		
Omit	Cartridge O	nly	
4P	1/4" NPTF	(B08-4-4P)	Steel
A4P	1/4" NPTF	(B08-4-A4P)	Aluminum
6P	3/8″ NPTF	(B08-4-6P)	Steel
A6P	3/8" NPTF	(B08-4-A6P)	Aluminum
6T	SAE-6	(B08-4-6T)	Steel
A6T	SAE-6	(B08-4-A6T)	Aluminum
8T	SAE-8	(B08-4-8T)	Steel
A8T	SAE-8	(B08-4-A8T)	Aluminum
4B	1/4" BSPG	(B08-4-4B)	Steel
A4B	1/4" BSPG	(B08-4-A4B)	Aluminum
6B	3/8″ BSPG	(B08-4-6B)	Steel
A6B	3/8″ BSPG	(B08-4-A6B)	Aluminum

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