Technical Information

General Description

The CVH081P and CVH091P Series, Poppet-Type, Check Valves allow free flow in one direction while preventing flow in the reverse direction. They can be used to isolate portions of a hydraulic circuit or to provide a free flow path around a restrictive valve.

Operation

Pressure on the inlet of the check creates a force against the poppet, pushing it off its seat and permitting free flow. Reverse flow through the check is blocked by the poppet.

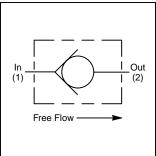
Features

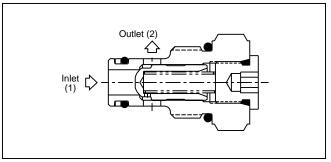
- Hardened, precision ground parts for durability
- Compact size for reduced space requirements
- Low leakage design
- Fully guided poppet for smooth operation

Specifications

-		
Maximum Flow		38 LPM (10 GPM)
Maximum Inlet Pressure		210 Bar (3000 PSI) - Steel 210 Bar (3000 PSI) - Aluminum
Leakage		5 drops/min. (1/3 cc/min.) at 345 Bar (5000 PSI)
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		Steel or Aluminum
Filtration		ISO code 16/13, SAE Class 4 or better
Mounting		No Restrictions
Cavity	CVH081P	Common Cavity No. C08-2
	CVH091P	Common Cavity No. C09-2



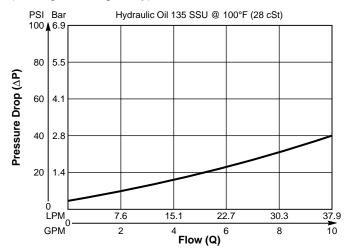




Performance Curve

Flow vs. Pressure Drop

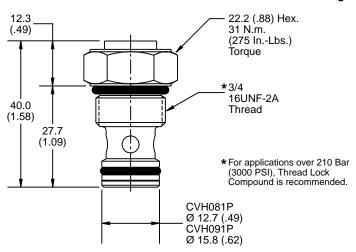
(Through cartridge only)

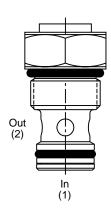


Parker Hydraulics

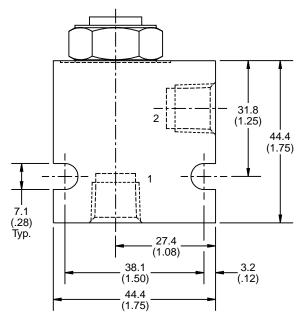
*Inch equivalents for millimeter dimensions are shown in (**)

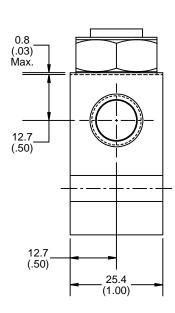
Cartridge Only





Cartridge In Body





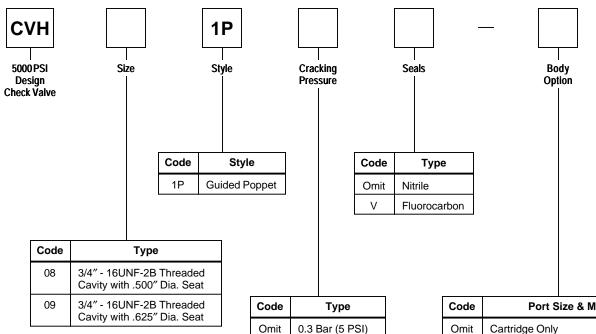


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Check Valves

Ordering Information Series CVH081P and CVH091P



10

30

0.7 Bar (10 PSI)

2.1 Bar (30 PSI)

SERVICE PARTS

Nitrile Seal Kit:

CVH081P — SK08-2 CVH091P — SK09-2

Fluorocarbon Seal Kit:

CVH081P — SK08-2V

CVH091P — SK09-2V

Shipping Weight

Cartridge Only .10 kg (0.2 lbs.) Cartridge in Body .21 kg (.45 lbs.)

Port Size & Material Omit Cartridge Only 4P 1/4" NPTF (B**-2-4P) Steel A4P 1/4" NPTF (B**-2-A4P) Aluminum 3/8" NPTF (B**-2-6P) Steel A6P 3/8" NPTF (B**-2-A6P) Aluminum 4T SAE-4 $(B^{**}-2-4T)$ Steel A4T SAE-4 (B**-2-A4T) Aluminum 6T SAE-6 $(B^{**}-2-6T)$ Steel A6T SAE-6 (B**-2-A6T) Aluminum 4B 1/4" BSPG (B**-2-4B) Steel A4B 1/4" BSPG (B**-2-A4B) Aluminum 6B 3/8" BSPG (B**-2-6B) Steel 3/8" BSPG (B**-2-A6B) Aluminum A6B

NOTE:

If system pressure does not exceed 210 Bar (3000 PSI), aluminum bodies can be used. Higher pressures require steel bodies.



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^{**} Specify size 08 or 09.