Waters PerformancePLUS™ Cartridge Check Valve System

Combining convenience, reliability and optimal performance

For several years there has been an increasing demand to reduce the time required to replace and rebuild traditional check valves, while maintaining high performance and reliability.

The Waters PerformancePLUS™ Cartridge Check Valve System, is faster, less expensive and easier than ever before to replace your check valves—without compromising dependability and optimal performance.

Waters PerformancePLUS Cartridge Check Valve System incorporates innovative features to enhance the reliability, convenience, uptime, and serviceability of Waters instrumentation. Our PerformancePLUS Cartridge Check Valve System is a Waters Quality Parts® product which means it is not only designed specifically to meet Waters’ current specifications for performance, but it is manufactured under our stringent Quality Management System, which complies with the requirements of ISO 9001:2008.

Unlike third-party check valves, our PerformancePLUS Cartridge Check Valve System is subjected to rigorous quality assurance tests to meet or exceed Waters’ stringent requirements for pressures, flow accuracy and precision, temperature limits, and reliability.

**Waters PerformancePLUS Cartridge Check Valve System is:**

**Easy to use**

The only two parts in the PerformancePLUS Cartridge Check Valve System are the cartridge and the housing. The convenient housing can be used as both an outlet and inlet* check valve and the cartridge is reversible. As a result, check valves can be rebuilt by simply dropping a new cartridge into the housing.

And because the cartridge is a sealed unit, no gaskets or spacers are required at installation, which dramatically reduces the opportunity for leaky seals.

**Cost efficient**

The PerformancePLUS Cartridges not only saves you money by eliminating the components needed to rebuild a traditional check valve, they also save you valuable time. Because you simply drop a new cartridge into the housing, you spend less time rebuilding check valves and more time doing your job.

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*Can be used as an inlet check valve on the Waters inlet and outlet check valves on the 515, 600, 610, 1515, and 1525 Solvent Delivery Systems.
Designed to save you time and extend component lifetime

Traditional check valves typically have one-piece housings, which require the removal of the tubing from the check valve to rebuild it.

The PerformancePLUS Check Valve housing is constructed in two parts: an internal tubing port, and an external housing thread. When rebuilding the check valve, the tubing remains connected because the external thread secures the housing to the pump head independently of the tubing port. As a result, the design helps extend the lifetime of the tubing and fittings and makes it easier to rebuild the check valve.

Convenient and reliable

Cartridge-based check valve systems are the most convenient and reliable means of check valve replacement. The PerformancePLUS Cartridge Check Valve System uses the same pre-assembled cartridge for both the inlet and outlet housings. Since the cartridge endcaps are made from PEEK, they provide maximum durability, high sealing pressures, and are resistant to temperature effects.

Ordering Information

Ordering online has never been easier or more secure!
Go to www.waters.com/order

Waters PerformancePLUS Cartridge Check Valve System Kit Includes:
Two (2) PerformancePLUS Cartridge Check Valve housings
Two (2) PerformancePLUS Cartridges
Part Number: 700000253

For your convenience, these items can be ordered separately.
Replacement PerformancePLUS Housing (2)
Part Number: 700001108

Replacement PerformancePLUS Cartridge (2)
Part Number: 700000254

Durable and solvent resistant

Unlike many generic check valve housings, Waters two-part housings feature two different grades of stainless steel for maximum durability and solvent resistance. The outer portion is 416-grade stainless steel, which prevents galling that can lead to frozen check valves. The interior portion of the housing is 316-grade stainless steel, which is carefully specified for solvent compatibility with all HPLC mobile phases.

For more information about Waters PerformancePLUS Cartridge Check Valve System or Replacement Cartridges, please contact your local Waters representative.