

# ICC-ES Evaluation Report

**ESR-1148**

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**DIVISION: 22 00 00—PLUMBING**  
**Section: 22 05 23—General-Duty Valves for Plumbing Piping**

**REPORT HOLDER:**

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**EVALUATION SUBJECT:****CLEAN CHECK® EXTENDABLE BACKWATER VALVES****1.0 EVALUATION SCOPE****Compliance with the following codes:**

- 2006 *International Plumbing Code*® (IPC)
- 2006 *International Residential Code*® (IRC)
- 2006 *Uniform Plumbing Code*™ (UPC)\*

**Property evaluated:**

Plumbing backwater valve

**2.0 USES**

Clean Check® backwater valves are used in horizontal runs of the building sewer to prevent the reverse flow of wastewater into the structure. The valve's extendable access sleeve allows above-grade access to maintain the seat and to replace the flapper.

**3.0 DESCRIPTION**

Clean Check® backwater valves are fabricated from either acrylonitrile-butadiene-styrene (ABS) or polyvinyl chloride (PVC). ABS backwater valves are available in 3- and 4-inch (76.2 and 101.6 mm) diameters (see Table 1). These valves satisfy the applicable performance requirements of CSA B181.1 and NSF 14. PVC backwater valves are available in 3-, 4- and 6-inch (76.2, 101.6 and 152.4 mm) diameters. These valves satisfy the applicable performance requirements of CSA B181.2 and NSF 14. The factory kit consists of a valve body, disc, disc seat, and upper collar.

Removal of the integral lifting device from a buried valve allows above-grade replacement of the flapper assembly and reinstallation into the valve body. The integral lifting device is self-aligning, self-seating, and provided with an alignment indicator located within 12 inches (305 mm) of the upper access opening. See Figure 1 of this report.

**4.0 INSTALLATION**

A threaded plug, female adaptor and 6-inch or 8-inch-diameter (152.4 mm or 203.2 mm) pipe are supplied by others for use as the access sleeve and cover. The access sleeve is cut to length in the field and attached to the socket on the top of the valve body. This forms the housing for the removable integral lifting device. The integral lifting device consists, in part, of a 4-inch-diameter (101.6 mm) pipe which is supplied by others. The 4-inch-diameter (101.6 mm) pipe is cut to length in the field, then joined to the flapper assembly on the bottom and the collar on the top.

The manufacturer's published installation instructions must be strictly adhered to and, if requested by the code official, a copy must be maintained on the jobsite during installation. A copy of the maintenance instructions must be left with the owner.

**5.0 CONDITIONS OF USE**

The Clean Check® Extendable Backwater Valves described in this report comply with, or are suitable alternatives to those materials specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** The access sleeve must terminate above grade and must have a maximum length of 12 feet (3658 mm).
- 5.2** Clean Check® Extendable Backwater Valves must be installed on horizontal drainage systems with a uniform slope in accordance with the applicable code.
- 5.3** The valve opening must be accessible for service and repairs in accordance with the applicable code. Accessibility must include the vertical clearance necessary to remove the integral lifting device.
- 5.4** Evidence of compliance of the field-provided materials with the material specifications of the applicable code and NSF 14 must be provided to the code official.
- 5.5** The Clean Check® Backwater Valve must be tested for leakage after installation in accordance with IPC Section 312 or UPC Section 712 or 723, as applicable.
- 5.6** The valves are manufactured under a quality control program with inspections by Columbia Research and Testing (AA-527).

**6.0 EVIDENCE SUBMITTED**

Data in accordance with the ICC-ES Acceptance Criteria for Backwater Valves (AC247), dated February 2004 (editorially revised October 2008).

\*The *Uniform Plumbing Code* is a trademarked publication of the International Association of Plumbing and Mechanical Officials.

**7.0 IDENTIFICATION**

The Clean Check® Extendable Backwater Valves must each be marked with the company name (The RectorSeal Corporation); the direction of flow; references to AC247

and NSF 14; the evaluation report number (ESR-1148); and the name or logo of the inspection agency (Columbia Research and Testing, AA-527).

**TABLE 1—CLEAN CHECK EXTENDABLE BACKWATER VALVES**

MODEL NUMBER	DESCRIPTION	MODEL NUMBER	DESCRIPTION
96903	3" ABS	96913	3" ABS w/adapter and plug
96904	4" ABS	96914	4" ABS w/adapter and plug
96923	3" PVC	96933	3" PVC w/adapter and plug
96924	4" PVC	96934	4" PVC w/adapter and plug
96926	6" PVC	-----	-----

1 inch = 25.4 mm



**EXTENDABLE BACKWATER VALVE**

\*Parts to be supplied by others

**FIGURE 1**