

Installation Instructions

Series LF289/289

Spill-Resistant Atmospheric Vacuum Breaker

Sizes: 3/8", 1/2", 3/4", and 1"

Function: To protect the potable water supply against backflow from a non-potable source due to negative supply pressure

Protection: Against backsiphonage



1/2" LF289

⚠ WARNING



Read this Manual **BEFORE** using this equipment. Failure to read and follow all safety and use information can result in death, serious personal injury, property damage, or damage to the equipment. Keep this Manual for future reference.

THINK SAFETY FIRST

NOTICE

Do not install a shutoff valve downstream.

Installation

Requirements:

1. Install 1" above flood level of fixture if factory deck mounted or 6" if general plumbing field application.
2. Install bonnet side up and allow for accessibility for testing/service.
3. Do not undersize supply or oversize the valve in relation to demand.
4. Do not install where backpressure can occur.
5. Protect from freezing.
6. Installation of a strainer ahead of the backflow preventer is recommended to prevent fouling of the check assembly and resultant spillage from the valve during repressurizing.

NOTICE

Recommended Service:

- Replace internal components every five years or as system conditions dictate.

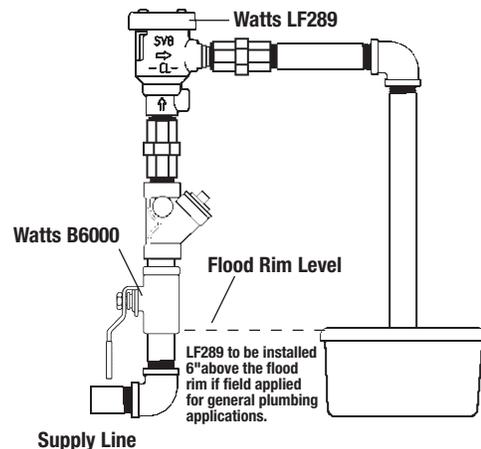
NOTICE

Pressure - Temperature

Temperature Range: 33°F - 180°F (0.5°C – 82°F)

Maximum Pressure: 150psi (10.3 bar)

Installation



⚠ WARNING

Depressurize valve before servicing.

Service and Replacement Parts

Internal parts can be removed, repaired or inspected without removing the valve from the piping.

Disassembly:

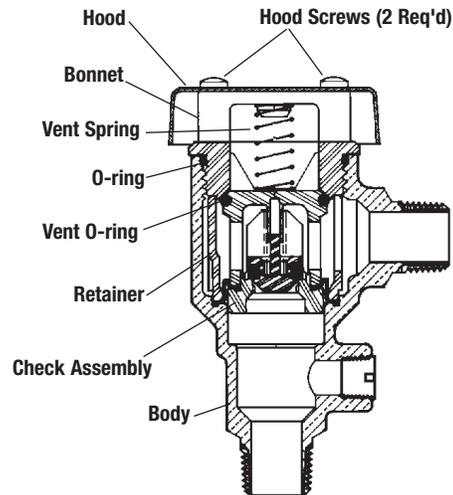
1. Shut off supply pressure and drain valve.
2. Remove the two hood screws, remove hood.
3. Unscrew the bonnet by turning counterclockwise.
4. Lift retainer and check assembly from valve body. To assist with removal a small flow can be applied by “cracking” the inlet valve slightly.

Reassembly:

Install new retainer module assembly into valve body by aligning “U” shaped cutout in retainer with the valve outlet. The top of retainer must drop just below threads in the valve body. Reassemble remaining parts in reverse order.

⚠ CAUTION

Spillage may occur if diaphragm is ruptured. Care must be taken not to damage parts during assembly.



LF289 Repair Kits

For repair kits and parts, refer to Backflow Prevention Products Repair Kits & Service Parts price list PL-RP-BPD found on www.watts.com.

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