

JET FILTER

MADE IN USA

ADVANCED DRAINAGE TECHNOLOGY
Maintainable Weep Hole Filters



PRODUCT MANUAL



1-800-475-2029

Prevent The Leading Cause of Wall Failure: Excessive Buildup of Hydrostatic Water Pressure & Soil Erosion

Lack of proper drainage is the most common cause of retaining wall failure. Drainage and soil filtration are vital to designing walls and maximizing their service life

Eventually, the retaining wall will show signs of distress. Maintainable Weep Hole Filters are the *perfect solution*.



Maintainable Weep Hole Filters

Standard Open Free Flow

6" dia.

JF6SS



Check-Valve Backflow Preventer

JF6SSCVLV



4" dia.

JF4SS



JF4SSCVLV



3" dia.

JF3SS

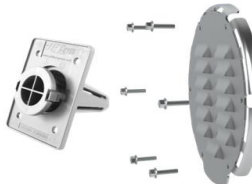


JF3SSCVLV



2.5" dia.

JF2.5ABS



8" dia.

JF8MAX



Sub-Horizontal Drainage System

Design Application Types:

Sheet Piling: Vinyl, Steel, Composite and Aluminum,
Concrete Bridge Abutments and Wing Walls, Box Culverts,
Stormwater & Flood Control Channels, MSE Retaining and
Block Walls, Concrete Seawalls, Wooden Bulkheads,
Man Holes, Basement Foundations, Tunnels, Brick &
Mortar Walls, Dam Reclamation, Levees, Loading & Dry
Docks, Marina Apron, Spillways, etc...



Geotextile Filtration and Erosion Control
www.JETFilterSystem.com
800-475-2029

US PAT: 7,615,148, 10,124,281, 10,731,317

Conical Shape Weep Hole Component

Prevent wall failures, **EXTEND**.
Life by relieving **WATER PRESSURE**
thus, saving time & money on
EXPENSIVE REPAIRS.

Conical 3D design maintainable weep holes with,
FASTER FLOW RATES.

Over **2 TIMES**
GREATER
Water Flow



800-475-2029

Geotextile Filter Fabric:

JET Filter System uses the highly rated Mirafi® Filter-weave FW 300 geotextile filter fabric in our standard products. This media maintains long-term flow rates in high gradient and dynamic conditions. With its removable inner cartridge, the filter can be changed and cleaned if needed, from the front side of the earth retaining structure without dredging from behind to replace the erosion control fabric.



**ADVANCED
DRAINAGE
TECHNOLOGY**

Maintainable Weep Hole Filters



Conical Maintainable Drain VS 2D Traditional Weep Hole

Geotextile Surface Area

• Conical Maintainable Drain

- 6"dia. = **76.95**ⁱⁿ²
- 4"dia. = 26.03ⁱⁿ²
- 3"dia. = 17.44ⁱⁿ²

• 2D Traditional Weep Hole

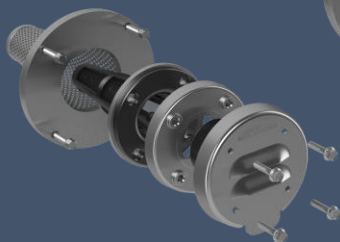
- 6"dia. = **28.27**ⁱⁿ²
- 4"dia. = 12.57ⁱⁿ²
- 3"dia. = 7.07ⁱⁿ²



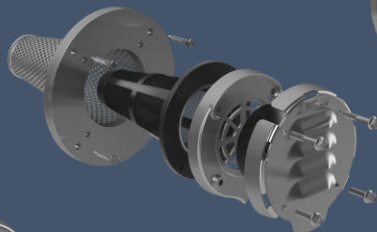
Greater Surface Area = Drainage Performance even after Traditional Weep Hole has CLOGGED

US PAT# 10,124,281

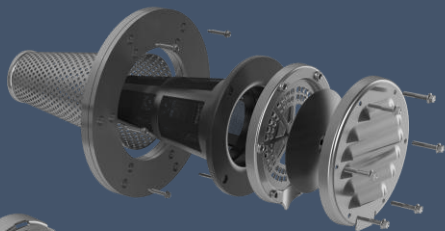
BACKFLOW



JF3SSCVLV



JF4SSCVLV



JF6SSCVLV

**FILTER with ONE-WAY
CHECK VALVE**

Relieve hydrostatic water
pressure without allowing
water back in

PROTECT MARINE STRUCTURES

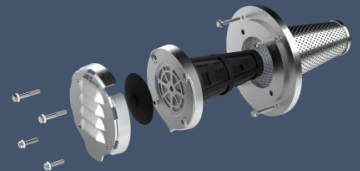
RIISING SEA-LEVELS AND HIGHER TIDES INCREASE RISK OF FAILURE

PREVENTER



LETS GROUND WATER OUT
with EROSION CONTROL
STOPS TIDAL WAKE/STORM
SURGE ENTERING

Time to strategize and
protect our coastal
infrastructure by adapting
to **KING TIDES, LUNAR
EFFECT SPRING TIDES** and
**EXTREME HIGH & LOW
TIDAL AREAS** caused by
climate change and sea
level rise



JET FILTER
MADE IN USA

FACT SHEET

3" Diameter

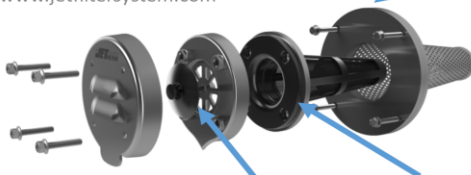


Advanced Drainage Technology
Geotextile Erosion Control
Maintainable Weep Hole Filters

www.JETFilterSystem.com
800-475-2029

Type	Closed-End
Dia.	3" Diameter
Housing	316 Stainless Steel
Filter Media	Mirafi® Filterweave 300 FW Series Woven Geotextile
Cartridge	Flame Retardant Polycarbonate/Acrylonitrile/Butadiene Styrene UV Resistance
Cage	Perforated 1/4" opening 5/16" Staggered 16ga
Check Valve	Thermoplastic Vulcanicate Sarlink® TPV 5700B
Inspection Certificate	USA
Anchor	Supplied (4) Thread-Forming Structural 300 Series SS Fasteners Corrosion Resistance
Requirement	3" Diameter Weep Hole Core Opening

www.jetfiltersystem.com



BACKFLOW PREVENTER ONE-WAY FILTER CHECK VALVE

Wave & Overtopping - Tidal Flooding Concerns

Protect Our Coastal Infrastructure

- Seawalls
- Outlet Structures
- Flood Control Structures

**Weep Hole Component
Relieves The Hydrostatic and
Hydrodynamic Water Pressures**

Permanent Mounted
SS Housing

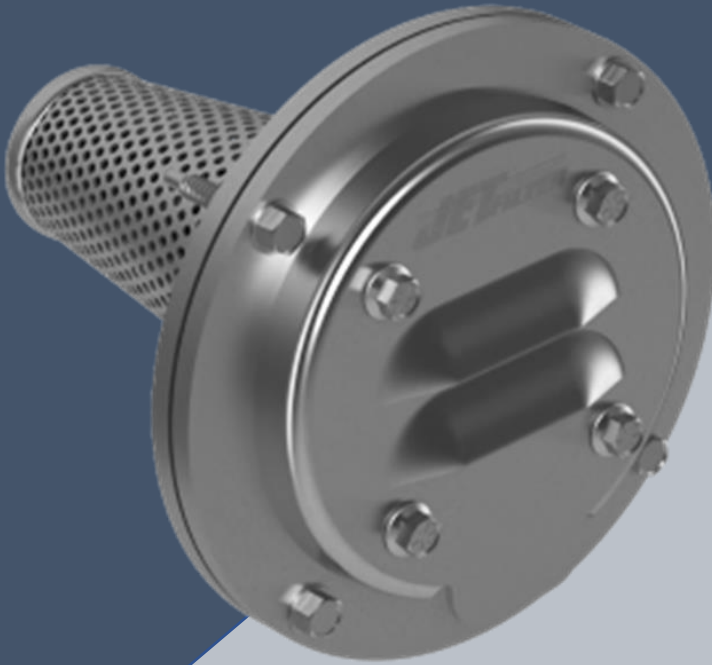
Part# JF3SSCVLV

US PAT# 10,124,281

ONE-WAY Check Valve
Let's Ground Water Out
Stops Tidal Wake/Storm Surge Entering

Cleanable, Replaceable
Geotextile Filter Media Cartridge
Stops Erosion

www.jetfiltersystem.com



MODEL PART # JF3SSCVLV

CLOSED-END

FACT SHEET

4" Diameter



Advanced Drainage Technology
Geotextile Erosion Control
Maintainable Weep Hole Filters

www.JETFilterSystem.com
800-475-2029

Type	Closed-End
Dia.	4" Diameter
Housing	316 Stainless Steel
Filter Media	Mirafi® Filterweave 300 FW Series Woven Geotextile
Cartridge	Flame Retardant Polycarbonate/Acrylonitrile/Butadiene Styrene UV Resistance
Cage	Perforated 1/4" opening 5/16" Staggered 16ga
Check Valve	Thermoplastic Vulcanicate Sarlink® TPV 5700B
Inspection Certificate	USA
Anchor	Supplied (4) Thread-Forming Structural 300 Series SS Fasteners Corrosion Resistance
Requirement	4" Diameter Weep Hole Core Opening

www.jetfiltersystem.com

BACKFLOW PREVENTER ONE-WAY FILTER CHECK VALVE

Wave & Overtopping - Tidal Flooding Concerns

Protect Our Coastal Infrastructure

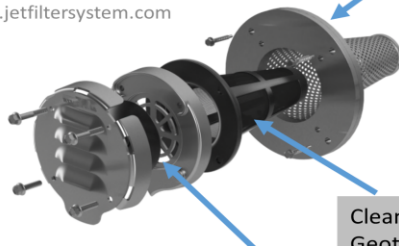
- Seawalls
- Outlet Structures
- Flood Control Structures

**Weep Hole Component
Relieves The Hydrostatic and
Hydrodynamic Water Pressures**

Permanent Mounted
SS Housing

Part# JF4SSCVLV

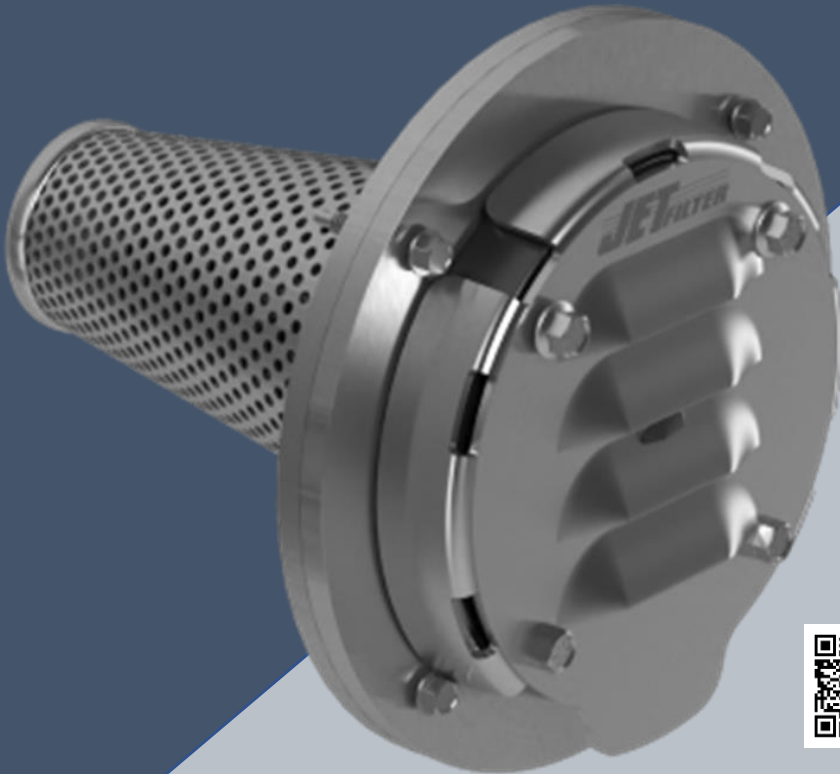
US PAT# 10,124,281



ONE-WAY Check Valve
Let's Ground Water Out
Stops Tidal Wake/Storm Surge Entering

Cleanable, Replaceable
Geotextile Filter Media Cartridge
Stops Erosion

www.jetfiltersystem.com



MODEL PART # JF4SSCVLV

CLOSED-END

FACT SHEET

6" Diameter

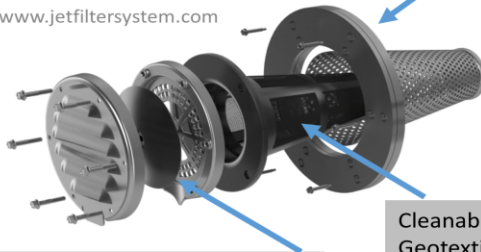


Advanced Drainage Technology
Geotextile Erosion Control
Maintainable Weep Hole Filters

www.JETFilterSystem.com
800-475-2029

Type	Closed-End
Dia.	6" Diameter
Housing	316 Stainless Steel
Filter Media	Mirafi® Filterweave 300 FW Series Woven Geotextile
Cartridge	Flame Retardant Polycarbonate/Acrylonitrile/Butadiene Styrene UV Resistance
Cage	Perforated 1/4" opening 5/16" Staggered 16ga
Check Valve	Thermoplastic Vulcanicate Sarlink® TPV 5700B
Inspection Certificate	USA
Anchor	Supplied (6) Thread-Forming Structural 300 Series SS Fasteners Corrosion Resistance
Requirement	6" Diameter Weep Hole Core Opening

www.jetfiltersystem.com



BACKFLOW PREVENTER ONE-WAY FILTER CHECK VALVE

Wave & Overtopping - Tidal Flooding Concerns

Protect Our Coastal Infrastructure

- Seawalls
- Outlet Structures
- Flood Control Structures

**Weep Hole Component
Relieves The Hydrostatic and
Hydrodynamic Water Pressures**

Permanent Mounted
SS Housing

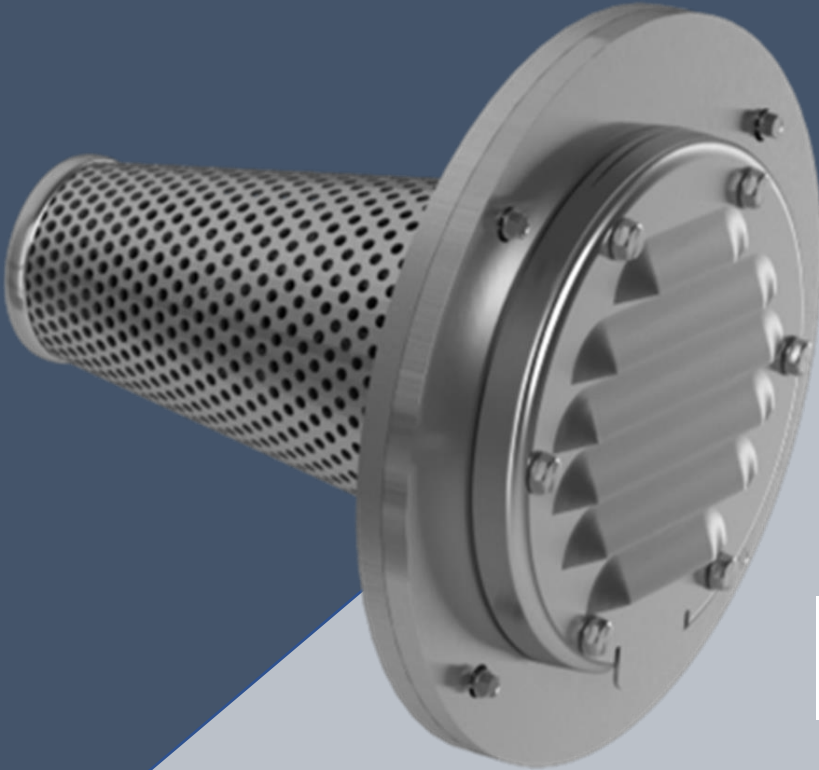
Part# JF6SSCVLV

US PAT# 10,124,281

Cleanable, Replaceable
Geotextile Filter Media Cartridge
Stops Erosion

ONE-WAY Check Valve
Let's Ground Water Out
Stops Tidal Wake/Storm Surge Entering

www.jetfiltersystem.com

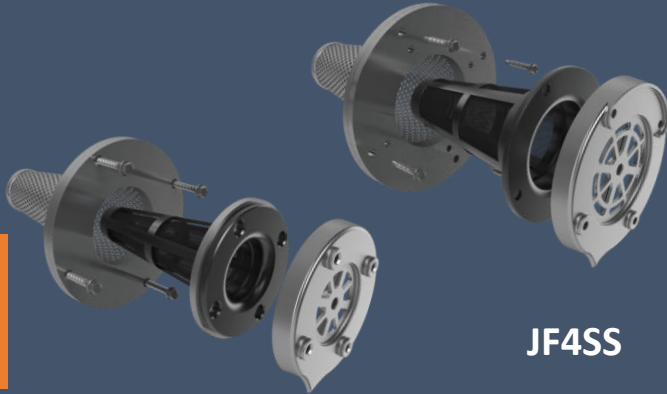


MODEL PART # JF6SSCVLV

CLOSED-END

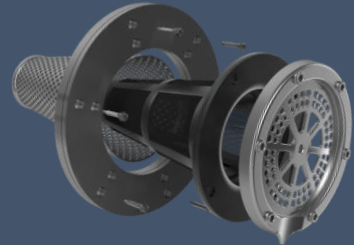
US PAT# 7,615,148

STANDARD



JF3SS

JF4SS



JF6SS



JF2.5ABS



JF8SS

Note: PVC & Helical not included

EARTH RETAINING STRUCTURES
ARE FAILING DAILY DUE TO CLOGGED OR INSUFFICIENT WEEP HOLES

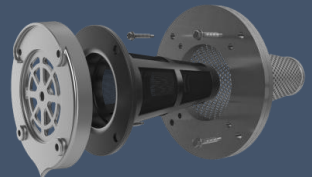
WEEP HOLE

Component



LETS GROUND WATER OUT
with EROSION CONTROL
WITH DRIP GUARD FEATURE

Maintainable Weep Hole
Filters help **prevent failure** as
they reduce water pressure
and prevent soil loss. Most
importantly, Are always easily
maintained, they can extend
the life of your valuable
investment. **CLEANABLE,
REPLACEABLE GEOTEXTILE
FILTER MEDIA CARTRIDGE**



JET FILTER
MADE IN USA

FACT SHEET

3" Diameter



Advanced Drainage Technology
Geotextile Erosion Control
Maintainable Weep Hole Filters

www.JETFilterSystem.com
800-475-2029

Type	Open-End
Dia.	3" Diameter
Housing	316 Stainless Steel
Filter Media	Mirafi® Filterweave 300 FW Series Woven Geotextile
Cartridge	Flame Retardant Polycarbonate/Acrylonitrile/Butadiene Styrene UV Resistance
Cage	Perforated 1/4" opening 5/16" Staggered 16ga
Inspection Certificate	USA
Anchor	Supplied (4) Thread-Forming Structural 300 Series SS Fasteners Corrosion Resistance
Requirement	3" Diameter Weep Hole Core Opening

www.jetfiltersystem.com

CONICAL DESIGN

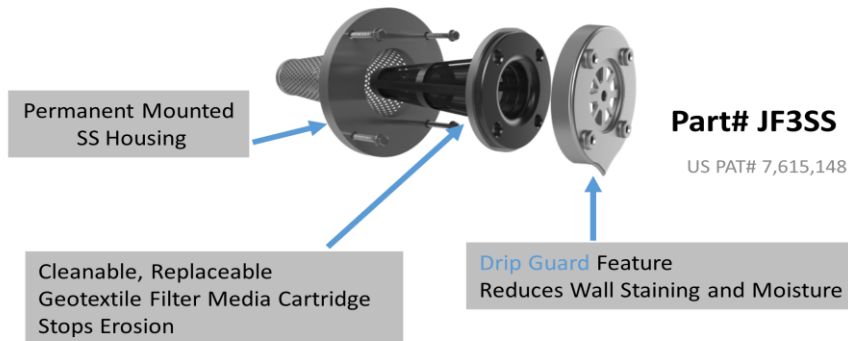
OVER 2 TIMES GREATER
WATER FLOW THAN
TRADITIONAL PIPING

Easily Installed & Maintained

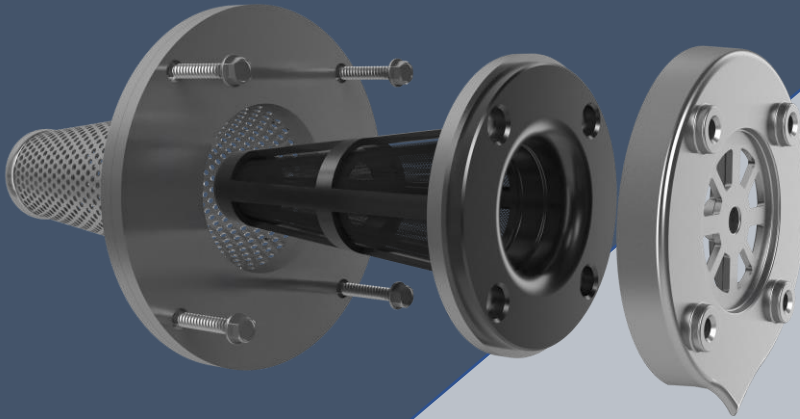
Protect Our Earth Retaining
Infrastructure

- Seawalls
- Outlet Structures
- Flood Control Structures
- Bulkheads
- Bridge Abutments
- Box Culverts
- Sheet Piling
- Retaining Walls

Weep Hole Component
Relieves The Hydrostatic and
Hydrodynamic Water Pressures



www.jetfiltersystem.com



MODEL PART # JF3SS

OPEN-END

FACT SHEET

4" Diameter



Advanced Drainage Technology
Geotextile Erosion Control
Maintainable Weep Hole Filters

www.JETFilterSystem.com
800-475-2029

Type	Open-End
Dia.	4" Diameter
Housing	316 Stainless Steel
Filter Media	Mirafi® Filterweave 300 FW Series Woven Geotextile
Cartridge	Flame Retardant Polycarbonate/Acrylonitrile/Butadiene Styrene UV Resistance
Cage	Perforated 1/4" opening 5/16" Staggered 16ga
Inspection Certificate	USA
Anchor	Supplied (4) Thread-Forming Structural 300 Series SS Fasteners Corrosion Resistance
Requirement	4" Diameter Weep Hole Core Opening

www.jetfiltersystem.com

CONICAL DESIGN

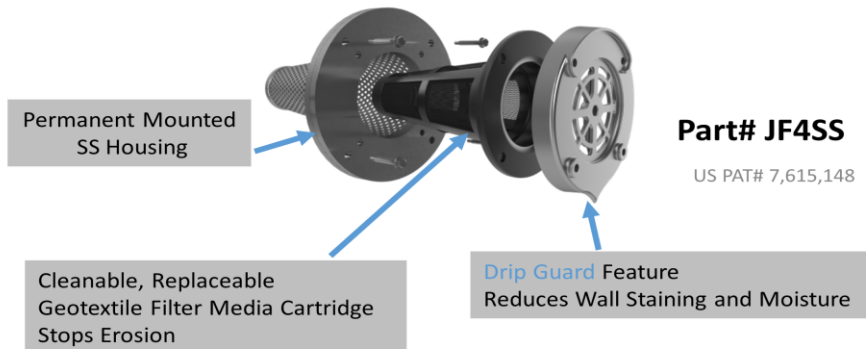
OVER 2 TIMES GREATER
WATER FLOW THAN
TRADITIONAL PIPING

Easily Installed & Maintained

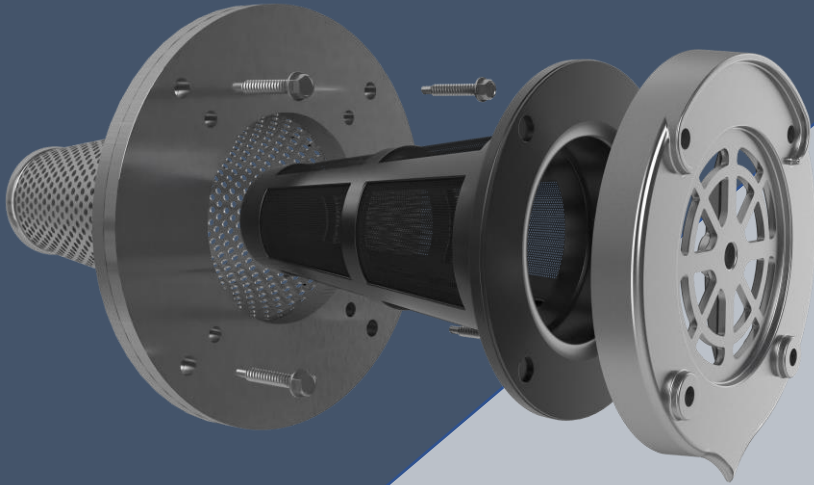
Protect Our Earth Retaining
Infrastructure

- Seawalls
- Outlet Structures
- Flood Control Structures
- Bulkheads
- Bridge Abutments
- Box Culverts
- Sheet Piling
- Retaining Walls

Weep Hole Component
Relieves The Hydrostatic and
Hydrodynamic Water Pressures



www.jetfiltersystem.com



MODEL PART # JF4SS

OPEN-END

FACT SHEET

6" Diameter



Advanced Drainage Technology
Geotextile Erosion Control
Maintainable Weep Hole Filters

www.JETFilterSystem.com
800-475-2029

Type	Open-End
Dia.	6" Diameter
Housing	316 Stainless Steel
Filter Media	Mirafi® Filterweave 300 FW Series Woven Geotextile
Cartridge	Flame Retardant Polycarbonate/Acrylonitrile/Butadiene Styrene UV Resistance
Cage	Perforated 1/4" opening 5/16" Staggered 16ga
Inspection Certificate	USA
Anchor	Supplied (6) Thread-Forming Structural 300 Series SS Fasteners Corrosion Resistance
Requirement	6" Diameter Weep Hole Core Opening

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CONICAL DESIGN

OVER 2 TIMES GREATER
WATER FLOW THAN
TRADITIONAL PIPING

Easily Installed & Maintained

Protect Our Earth Retaining
Infrastructure

- Seawalls
- Outlet Structures
- Flood Control Structures
- Bulkheads
- Bridge Abutments
- Box Culverts
- Sheet Piling
- Retaining Walls

Weep Hole Component
Relieves The Hydrostatic and
Hydrodynamic Water Pressures

Permanent Mounted
SS Housing

Cleanable, Replaceable
Geotextile Filter Media Cartridge

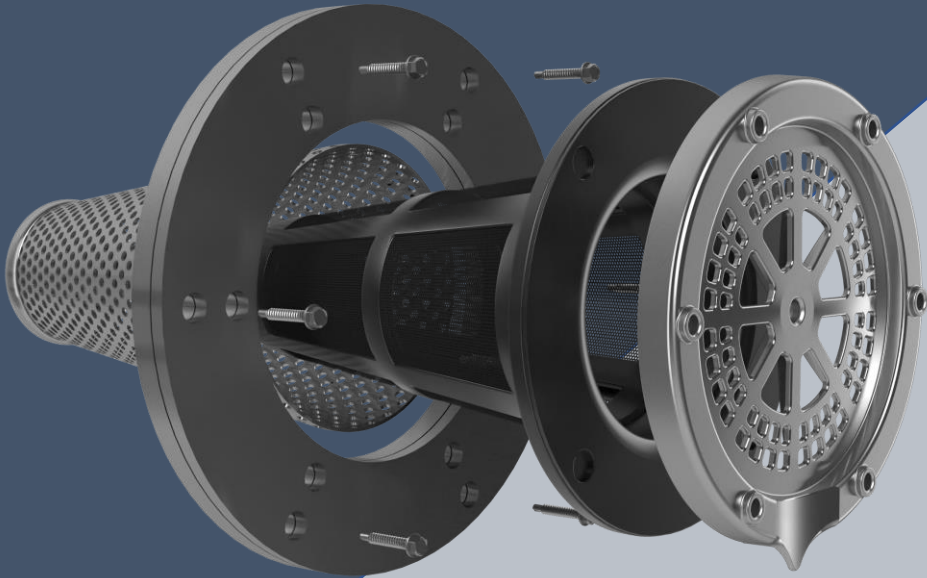


Drip Guard Feature
Reduces Wall Staining and Moisture

Part# JF6SS

US PAT# 7,615,148

www.jetfiltersystem.com



MODEL PART # JF6SS

OPEN-END

FACT SHEET

2.5" Diameter



Advanced Drainage Technology
Geotextile Erosion Control
Maintainable Weep Hole Filters

www.JETFilterSystem.com
800-475-2029

Type	Open-End
Dia.	2.5" Diameter
Housing	Polycarbonate/Acrylonitrile/Butadiene UV
Filter Media	Mirafi® Filterweave 300 FW Series Woven Geotextile
Cartridge	Flame Retardant Polycarbonate/Acrylonitrile/Butadiene Styrene UV Resistance
Inspection Certificate	USA
Anchor	Supplied (4) Thread-Forming Structural 300 Series SS Fasteners Corrosion Resistance
Requirement	2.5" Diameter Weep Hole Core Opening

www.jetfiltersystem.com

COST EFFECTIVE

PREVENT & OVERCOME THE
LEADING CAUSE OF WALL
FAILURE

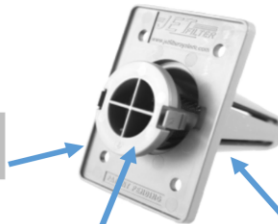
Easily Installed & Maintained

Protect Our Earth Retaining
Infrastructure

- Seawalls
- Wooden Bulkheads
- Vinyl Sheet Piling
- Aluminum Sheet Piling
- Composite
- Retaining Walls

**Weep Hole Component
Relieves The Hydrostatic and
Hydrodynamic Water Pressures**

Permanent Mounted
Housing



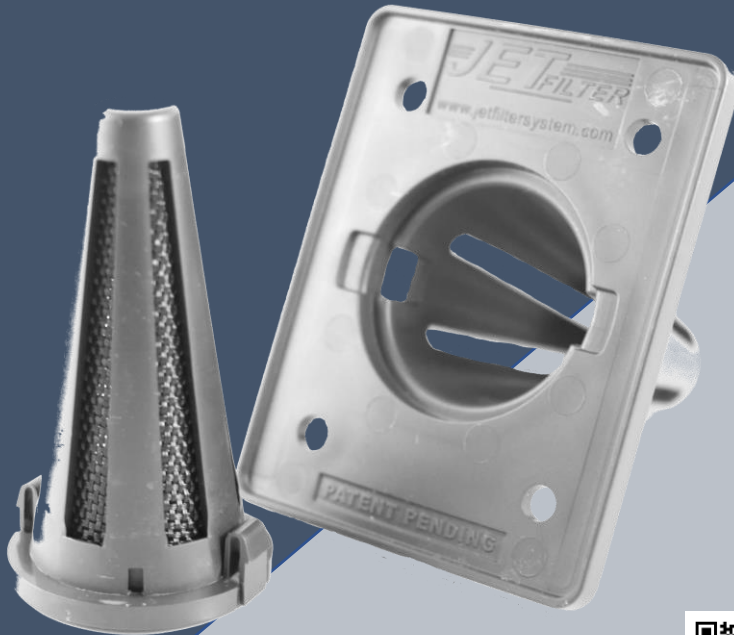
Cleanable, Replaceable
Geotextile Filter Media Cartridge
Stops Erosion

Color Options
Lt Gray Slate Clay Brown

Part# JF2.5ABS

US PAT# 7,615,148

www.jetfiltersystem.com



MODEL PART # JF2.5ABS

OPEN-END

FACT SHEET

8" Diameter



Advanced Drainage Technology
Geotextile Erosion Control
Maintainable Weep Hole Filters

www.JETFilterSystem.com
800-475-2029

Type	Open-End
Dia.	8" Diameter
Housing	316 Stainless Steel
Filter Media	Mirafi® Filterweave 300 FW Series Woven Geotextile
Cartridge	Flame Retardant Polycarbonate/Acrylonitrile/Butadiene Styrene UV Resistance
Cage	Perforated 1/4" opening 5/16" Staggered 16ga
Inspection Certificate	USA
Anchor	Supplied (6) Thread-Forming Structural 300 Series SS Fasteners Corrosion Resistance
Requirement	8" Diameter Weep Hole Core Opening

SUB-HORIZONTAL DISPLACEMENT DRAIN SYSTEM

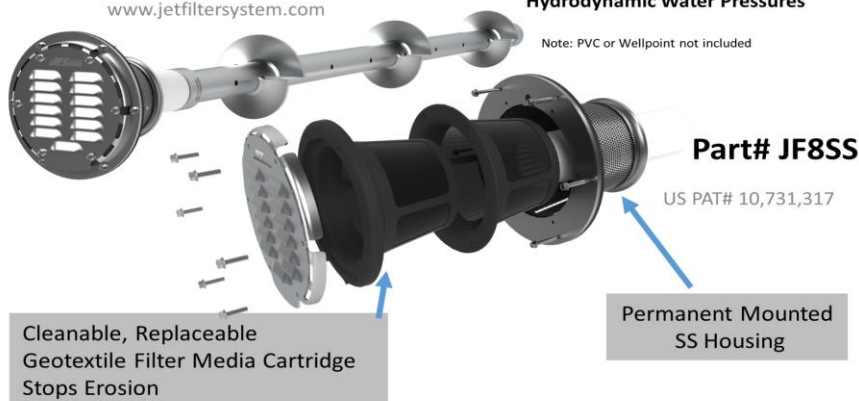
Easily Installed & Maintained

Protect Our Earth Retention
Structures

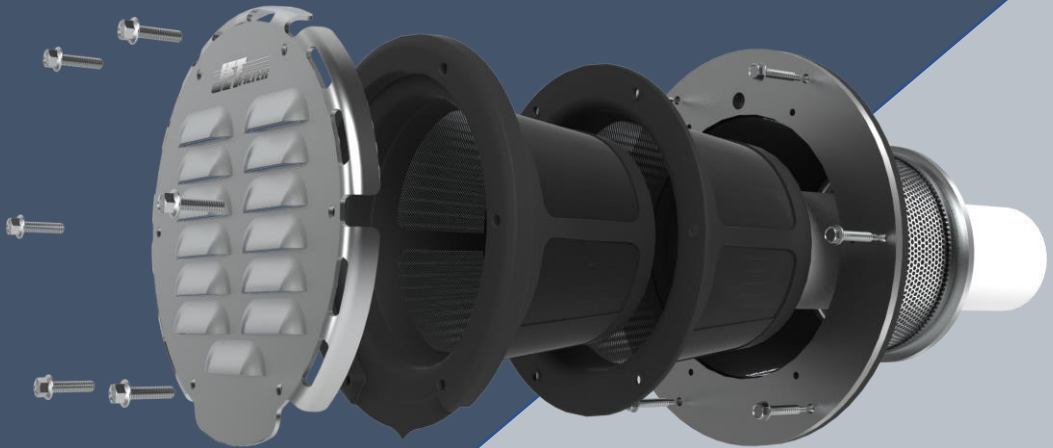
- Seawalls
- Levee
- Slope Stabilization
- Soil Wicking
- Soil Consolidation
- Environment Remediation

**Weep Hole Component
Relieves The Hydrostatic and
Hydrodynamic Water Pressures**

Note: PVC or Wellpoint not included



www.jetfiltersystem.com

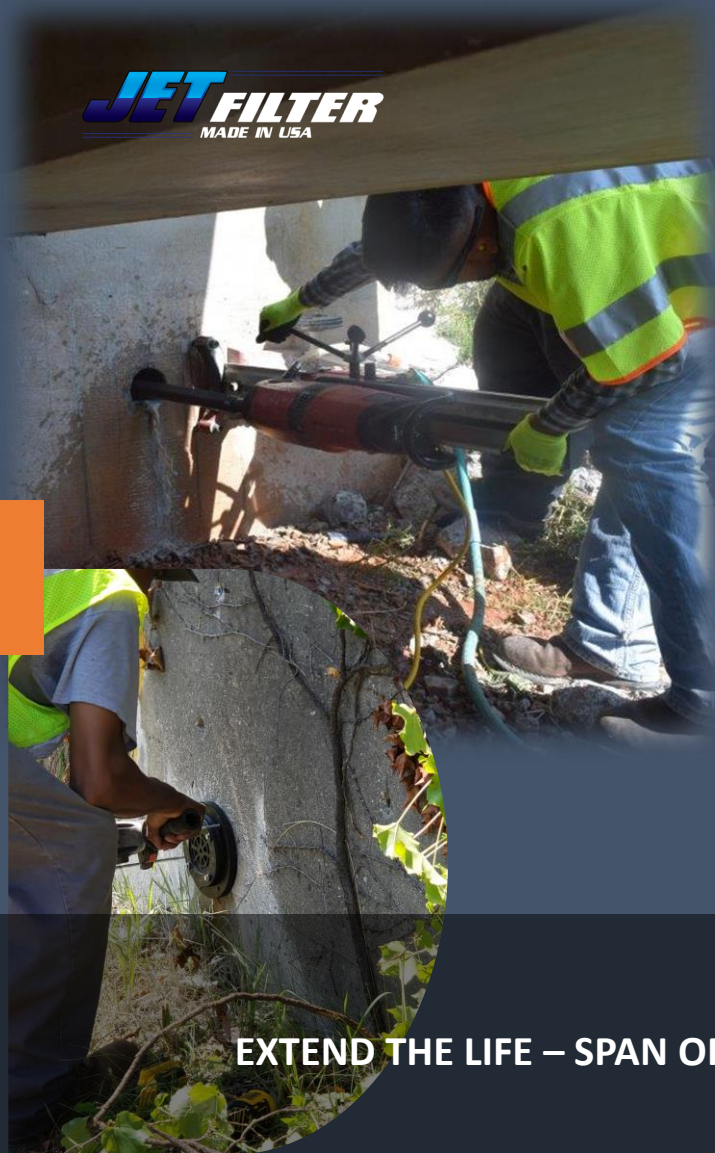


MODEL PART # JF8SS

OPEN-END



Weep Hole Filters can be installed on **seawalls**, bulkheads, **bridge abutments**, wing walls, stormwater channels, **box culverts**, dam spillways and even underground parking garages. They are the perfect solution for concrete walls, **all types of sheet pile** (steel, vinyl, aluminum, composite, etc), **MSE walls** and even wooden bulkheads.

A circular inset photograph shows two construction workers in high-visibility yellow safety vests and hard hats. They are working on a concrete wall, using a large, red and black hydraulic tool to install a weep hole filter. The filter is a long, cylindrical device with a blue hose attached. The background shows some greenery and a wooden structure.

EXTEND THE LIFE – SPAN OF A WALL DESIGN

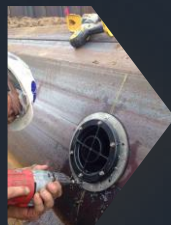
FRONT FACE INSTALLATION



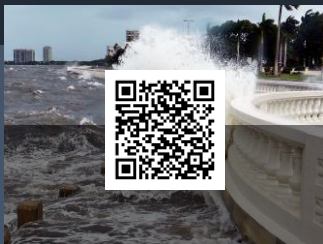
NO EXCAVATION REQUIRED



EASILY INSTALLED & MAINTAINED
FOR ANY NEW OR EXISTING STRUCTURES



SCAN **HERE** FOR DIRECT ACCESS



MARINE



TRANSPORTATION



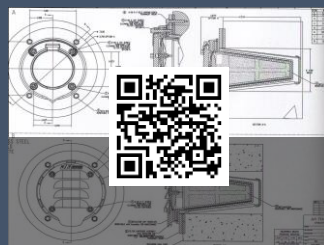
FLOOD CONTROL



SHEET PILING



MSE RETAINING WALL



ENGINEERING PORTAL

PROTECT YOUR INVESTMENT – AVOID COSTLY REPAIRS



Advanced Drainage Technology



ACCESSIBLE & MAINTAINABLE
GEOTEXTILE FABRIC FOR EROSION CONTROL

SPECIALTY PRODUCTS

Mitigate Uplift in Concrete Basins & Drainage Canals



**VERTICAL
INSTALLATION**

4" DIAMETER INLINE CHECK VALVE

The JET Filter-WS combines JET Filter System's weep hole technology with WASTOP's high performance backflow prevention



Underground Structural Walls → Basements → Cellars → Parking Garages



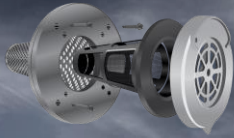
TRANSFER DRAINAGE AWAY FROM BASE OF STRUCTURE

JET Filter System's 3" & 4" dia. units with Schedule 80 Van Stone Flanges, gaskets and couplings to connect to flexible sump pump drainage line.

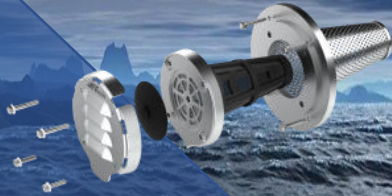


Unique drainage requirements requiring faceplate modifications

MAINTAINABLE WEEP HOLE FILTERS



JET FILTER
MADE IN USA



SOLUTION

The **key component** of the flush-mount dewatering JET Filter System is the ability to remove the inner filter cartridge from the front face of any retaining wall design which can be maintained to get the most life expectancy of any wall installed.

SEAWALLS

RETAINING WALLS

BRIDGE
ABUTMENTS

DAM & SPILLWAY
INFRASTRUCTURE

STORMWATER
CHANNELS

WATERSHEDS

CULVERTS

JET Filter System products are designed and manufactured in the USA using strict quality controlled manufacturing and state-of-the-art automation technology.



JET Filter components are 100% made in the USA and are compliant with the Buy American Clause.



precision



quality



aspiration



facilitation

www.jetfiltersystem.com

JET Filter System LLC
800-475-2029
www.jetfiltersystem.com

**ADVANCED
DRAINAGE
TECHNOLOGY**

Maintainable Weep Hole Filters
Made in USA



Based: Illinois USA
An Illinois Corporation Est: 2005

US PAT #7,615,148, US PAT #10,124,281, US PAT #10,731,317