



1. PRODUCT NAMES

The SNOOT® Oil-Water-Debris Separator

Bio-Skirt® Oil-Reducing Boom

Stainless TrashScreen™

U. S. Patent # 6126817, 7951294, 7857966, 8512556 others pending

Canadian Patent # 2285146, 2688012, 2690156 others pending

2. MANUFACTURER

Best Management Products, Inc.

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3. MAIN PRODUCT DESCRIPTION

Basic Application: The SNOOT Oil-Water-Debris Separator is a patented plastic composite water quality hood or trap that covers the outlet pipe in a sumped stormwater structure. The SNOOT attaches to the wall of a stormwater catch basin or other water-quality structure over the outlet pipe in such a manner as to reduce the discharge of floating debris, trash, and oil while retaining settled solids.

Advantages of The SNOOT Oil-Water-Debris Separator

- Easy to install
- Easy to clean
- Low head loss with high flow abilities
- Reduces pipe cleaning maintenance
- Highly corrosion resistant
- Lightweight high-strength construction
- Converts existing sump structures into oil—debris trap
- Prevents siphoning of trapped contaminants
- Sizes 12" through 96" available, for pipes up to 72" ID

Composition and Materials: The SNOOT is hand fabricated from marine grade fiberglass. The attachment hardware is 18-8 stainless steel, the anti-siphon device is schedule 40 PVC and the access hatch is ABS plastic.

These materials have proven to be extremely durable and maintenance free.

The SNOOT is adaptable to any type catch basin construction and is available in flat or rounded back styles.

4. TECHNICAL DATA

The SNOOT Oil-Water-Debris Separator components consist of

- 1) Standard size composite Hoods
- 2) Gasket, screw down, watertight, clean-out access port
- 3) Stainless steel mounting hardware
- 4) PVC SCH40 fittings and pipe for anti-siphon device
- 5) Pressure sensitive oil resistant foam rubber gasket

SNOOT composite components are hand and chopper gun laminations of these properties:

Physical Properties of Unsaturated Polyester Resin Reinforced Laminates

(33 / 66 Glass / Resin 1.5 oz mat Laminates .125 in.)

Flexural Strength (psi) ASTM D-790 27,100

Flexural Modulus (psi) ASTM D-790 1,157,000

Tensile Strength (psi) ASTM D-638 16,700

Tensile Modulus (psi) ASTM D-638 1,457,000

Tensile Elongation (%) ASTM D-638 1.54

Hardness, Barcol 934.1 ASTM D-2583 55 - 60

Physical Properties of ISO Gel Coat

Room Temperature Cured Post Cured at

for 45 hours 50°_ for 24 hours

Tensile Strength 6,218 6,581

Elongation, % 2.70 1.90

Flexural Strength, psi 11,363 11,329

Heat Distortion, °F 0.544 x 10⁶ 0.713 x 10⁶

Mandrel Flex, Mandrel diameter in Inches -- 1.0

Sample Specification for SNOOT OIL-WATER-DEBRIS SEPARATOR:

All new and / or existing catch basin structures shall be outfitted with the BMP, Inc. SNOOT Oil-Water-Debris Separator over the outlet pipe. The size and position shall be determined by pipe style and sump depth per manufacturer's recommendations. The anti-siphon device shall extend above the hood (a 12" length of vent pipe is included in the installation kit.) The hood shall be securely attached to the catch basin wall with 3/8" diameter stainless steel bolts and sealed to the structure with gasket material supplied in installation kit. The SNOOT Oil-Water-Debris Separator is manufactured by Best Management Products, Inc. (800-504-8008, and 888-434-0277, www.bmpinc.com)

5. INSTALLATION PROCEDURE

1. Select the SNOOT Oil-Water-Debris Separator of size and configuration to fit application. (Our SNOOTS are numbered to reflect that they will fit over a pipe with an outside diameter no greater than that number. Example: An 18" SNOOT

will fit over a pipe with an inside diameter less than 15" and an outside diameter less than 18". Select F for flat-walled structures and R for round-walled structures.)

2. Center the SNOOUT directly over the exit pipe so that the entire pipe is covered and so that the lower edge of the hood is at least 1/2 the pipe diameter below the lowest inside point of the pipe (deeper is even better.)

3. Drill * equally spaced 7/16" holes through the SNOOUT flange. (*Number of holes will vary depending on model of.)

4. Mark and drill catch basin and install the tamp-in lead anchors.

(1) Drill a 3/4" hole into the base material to the required depth (approximately 1-1/4" deep.)

(2) Blow the hole clean of dust and other material.

(3) Insert the anchor into the hole. Narrow end of cone must point out, lead shield slides over cone.

(4) Position the setting tool or a 9/16 socket against the anchor outer cone. (The outer rim of the tool or socket should seat onto the lead shield rim.) Set the anchor by driving the lead sleeve over the cone using several sharp hammer blows. Be sure the anchor is at the required embedment depth (flush or slightly below face of concrete)

5. Attach the vent pipe adapter in the pre-drilled hole in the top of the SNOOUT using the 2 flat O-ring gaskets and PVC lock-nut supplied in the kit. Install with female slip adapter up and a washer on each side of the SNOOUT shell. Tighten lock-nut hand tight.

6. Remove PSA backing and with firm pressure, attach gasket strip(s) to back of flange and trim excess.

7. Attach the SNOOUT to the catch basin wall with 3/8" diameter stainless steel bolts in lead expansion anchors. Do not over tighten; 10-15 foot-pounds should be sufficient.

8. Cut the anti-siphon vent stack to length and attach to hood at slip adapter with PVC cement.

9. Attach 90 degree fitting to vent stack with PVC cement. Ensure that fitting opening is accessible for maintenance and inspection.

SNOOUT Installation Kit Items include (number and sizes will vary with model of SNOOUT):

(1-12) 3/8" expansion anchor assemblies (anchors, stainless bolts & stainless washers)

(1) 1" or 2" female pipe adapter

(2) Neoprene O rings

(1) PVC lock-nut

(1-3) PSA backed gasket strip(s)

(1) 1" or 2" diameter 12" length PVC pipe

(1) 90 degree elbow

EXTRA INSTALLATION INSTRUCTIONS for a Two-Part SNOOUT

(larger SNOOUTs are shipped knocked down in two parts.) Therefore it will be necessary to site assemble the two halves. Use the supplied gasket(s) to make the connections between the 2 parts of the SNOOUT and the SNOOUT & the wall of the structure (overlap gaskets approximately 1" to insure a good seal.)

- (1) Stand base section upright & install one of the PSA-backed gaskets to the top-connecting flange. Trim excess and save.
 - (2) Place dome part on the base section and temporarily clamp together to align.
 - (3) Locate evenly spaced bolt locations along connecting flange.
 - (4) Drill holes to receive the 1" x 3/8" SS bolts, nuts and washers.
 - (5) Remove clamps.
 - (6) Bolt the dome to the base after lowering the two halves into the structure.
- Continue with instructions above starting with step #1 for one-part SNOOUT installation.

2-Part SNOOUT Installation Kit Items include (Number and sizes will vary with size of SNOOUT):

(var) 3/8 x 1" stainless steel bolts, washers and nuts. The correct amount for connecting the two halves will be supplied.

(var) 3/8" expansion anchor assemblies (anchors, stainless bolts & stainless washers)

(1) 1" or 2" female pipe adapter

(2) Neoprene O rings

(1) PVC lock-nut.

(1-3) PSA backed gasket strips. Enough gasket material will be provided to gasket between the two halves and around the outside of the SNOOUT® flange against the structure wall.

(1) 1" or 2" diameter 12" length PVC pipe

(1) 90 degree elbow

We also manufacture:

Split Snouts

Riser Sections

Stainless Steel Flow Deflectors

Flow Restrictors for 12", 18" and 24" SNOOUTs*

Odor Control Filter

TrashScreen™ Stainless Steel Trash Screen for SNOOUT available

Bio-Skirt – Hydrocarbon-Reducing skirted boom protected with surface-bonded anti-microbial for long service life.

Reusable installation tool available

*Flow Restrictor Installation Instructions:

1. Attach Flow Restrictor to SNOUT

- (a) Position the Flow Restrictor Plate on the SNOUT bottom flange with the smooth side facing up.
 - (b) Align the back edges of both the SNOUT and Flow Restrictor and drill five equally spaced holes 1/4" diameter through both flanges.
 - (c) Remove gasket backing and with firm pressure attach gasket strip to the bottom flange of the SNOUT where it mates with the Flow Restrictor and also across its back (wall) flange. Overlap any intersecting gaskets approximately 1" to insure a good seal.
 - (d) Bolt the Flow Restrictor to the SNOUT
 - (e) Insert your pre-slotted standpipe into the sleeve in the Flow Restrictor base so that the bottom (inlet) of the pipe is at least 1/2 the outlet pipe diameter below the lowest inside point of the outlet (min. of 6" below plate.) Secure the standpipe with a rubber coupler (FERNCO® type).
2. Center the SNOUT® directly over the outlet pipe so that the entire pipe is covered and so that the exit pipe is inside the hood and is as close to the bottom edge of the hood as possible. NOTE!! This is the correct location for a SNOUT with a Flow Restrictor.

Flow Restrictor Basic Kit

- (1) Flow Restrictor
 - (1) PSA backed gasket strip(s)
 - (5) 1" X 1/4" stainless steel bolts
 - (5) 1/4" stainless steel lock-nuts
- Also Required
- (1) size x size rubber coupler (FERNCO type)
 - (1) PVC pipe

6. AVAILABILITY AND COST

The SNOUT® is manufactured by Best Management Products, Inc. and is available through them at:
BEST MANAGEMENT PRODUCTS, INC.
800-504-8008 or 888-434-0277, Fax 877-434-3197 or sales@bmpinc.com
OR from authorized distributors of quality wastewater products nationally and in Canada. For suggested pricing visit our web site at www.bmpinc.com

7. WARRANTY

Best Management Products, Inc. warrants for a period of one year from date of delivery to the original purchaser that the product is free from defects in material and workmanship. BMP, Inc. makes no other warrant of any kind, expressed or implied, in fact or in law, including without limitation, the warranty of merchantability or the warranty of fitness for a particular purpose other than the warranty set forth above. Failure to follow the instructions for installation provided by BMP, Inc. will void this warranty.

8. MAINTENANCE

The catch basin should be emptied of debris and the accumulated solids removed as required by site conditions or once a year. The SNOUT® itself requires no real maintenance other than routine inspection and rinsing with a hose or pressure washer during the cleaning sequence of the catch basin and flushing the anti-siphon vent with water or air to verify that it is clear.

9. TECHNICAL SUPPORT

For technical consultation or additional information, and for custom design and fabrication services, please contact:

T.J. Mullen at 800-504-8008 (tjm@bmpinc.com) or

Matt White at 888-434-0277 (mwhite@bmpinc.com)

Visit our web site at: <http://www.bmpinc.com> for more support information.