



Oil/Water Separator OILBASE100-10 (OB1-10) Full retention

VODALAND is an international company operating in the field of water collection, purification, drainage, engineering arrangement and landscaping. We are represented in 7 countries. For over 24 years, we have been providing our customers with quality products and exemplary service. We manufacture our own products. The production is ISO9001 certified. Our product range is an optimal combination of reliability and precision.

General product information:

Oil/Water Separator VODALAND OilBase100-10 Full retention is an autonomous purifying system designed to collect and retain oil products and sand from surface wastewater. They are available in capacities from 1 to 50 l/s.

Areas of application:

- Gas stations (petrol stations)
- Parking lots
- Industrial facilities (logistics zones, factories)
- Service stations
- Special zones (state, roadside equipment)
- Bridges

Advantages of fiberglass products:

- Self-supporting body
- Low weight compared to concrete
- Tightness of the body
- Corrosion resistance
- Customized integrated solutions for different conditions
- Products are certified in the EU
- Installation in any soil conditions
- Service life of the enclosures up to 50 years



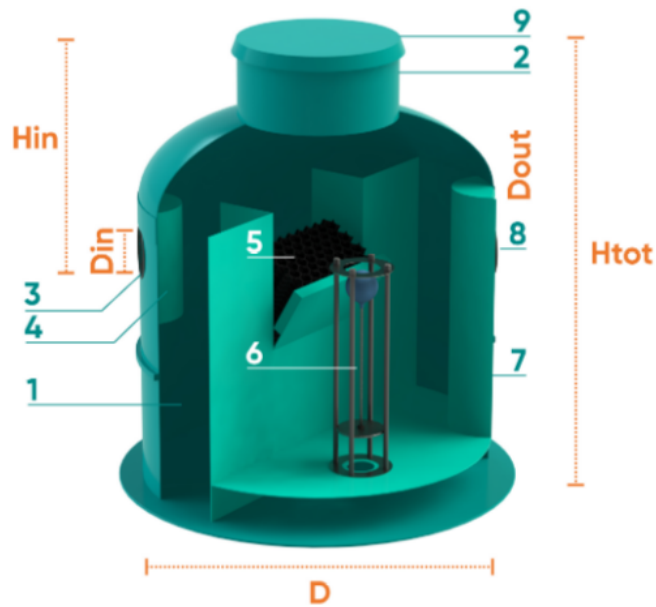


Fig. 1 Oil/Water Separator Vodaland OilBase 100 Full retention
A - Sludge Trap;
B - Coalescence chamber

1 - body; 2 - neck; 3 - inlet pipe (total); 4 - pipe / separator inlet baffle; 5 - coalescent block; 6 - automatic closure device; 7 - pipe / separator outlet baffle; 8 - outlet pipe (total); 9 - cover (or cast iron manhole cover + adaptor plate).
 Hin-depth of inlet pipe, mm

Factory ID	Water flow/ Bypass, l/s (GPM)	Diameter of body D, mm (in)	Total height H, mm (in)	Din/ Dout, mm (in)	Volume of light liquids, m ³ (US Gal)	Volume of sludge trap, m ³ (US Gal)	Usable volume, m ³ (US Gal)	Weight, kg
OB1-10	10/0 (160)	1600 (63)	2250 (88,6)	160/160	0,5 (130)	1,0 (265)	2,6 (685)	320

Note:

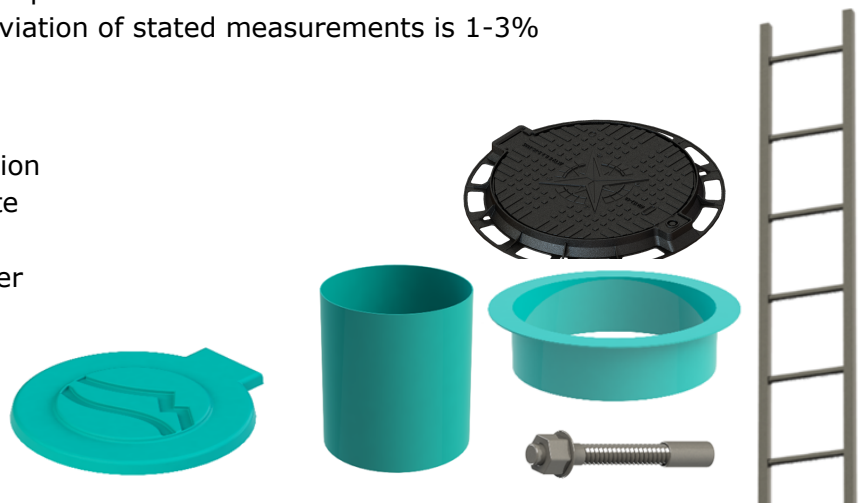
* Dimensions are in: mm.

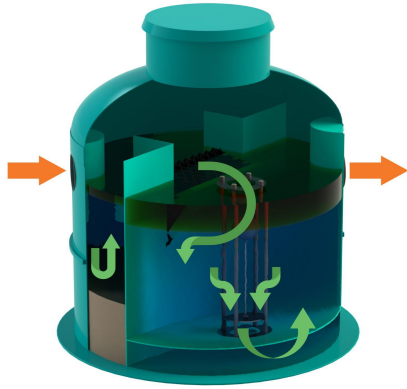
** The manufacturer reserves the right to make design and schematic changes that do not impair the characteristics of the product as a whole.

*** Permissible manufacturing deviation of stated measurements is 1-3%

Additional equipment:

- Fiberglass lid
- Fiberglass neck extension
- Fiberglass adaptor plate
- Plastic manhole cover
- Cast iron manhole cover
- Universal ladder
- Anchor fasteners





Operating principle

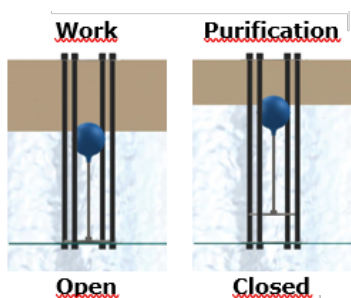
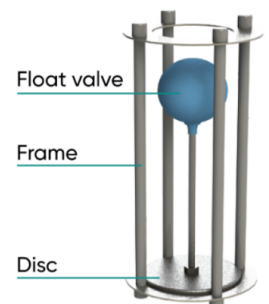
The OB1 oil product separator operates in a self-flow mode. Surface wastewater enters the bypass distribution chamber (C) through the inlet pipe (3). At low precipitation intensity, the wastewater is immediately supplied to the purification system, and with increasing intensity, the precipitation is discharged through the bypass (C) bypassing the purification. In the first chamber (A) OB1/OB2, gravitational retention of suspended solids, sand, clay, etc., as well as some oil products, takes place. Suspended solids settle to the bottom of the tank in the form of sludge.

The "Bypass" system (C) is part of the standard design of the OB1, built-in and has the shape of a tray. It is designed for drainage during storm and surface wastewater. Upon individual request, it is possible to manufacture a bypass for 10 times the capacity of the separator.



The coalescent block is designed to separate oil products from water by sintering them into balls on special corrugated plates with an inclination. The enlarged particles float to the water surface where they form a layer. The blocks are self-cleaning: when water flows, they vibrate, helping to dislodge oil particles and settle heavy substances.

To control the level of oil products inside, there is an **Automatic closure device** (6), which closes, blocking the water leakage through the outlet pipe (7), when the maximum volume of retained oil products is reached. The pressure loss increases and in this case, water can only pass through the Bypass (C), bypassing the purification. For proper operation of the Separator, it is necessary to pump out the contaminants and pull the cord/rope of the float of the Automatic closure device upwards (6) for further proper operation of the Oil Separator.



When putting the tank into operation, it is necessary to **OPEN the Automatic closure device** by pulling the cord/rope. The float of the automatic closure device is up, which automatically blocks the outlet when it is first filled with water during installation of the product.



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