



# Automatic oil draw-off device

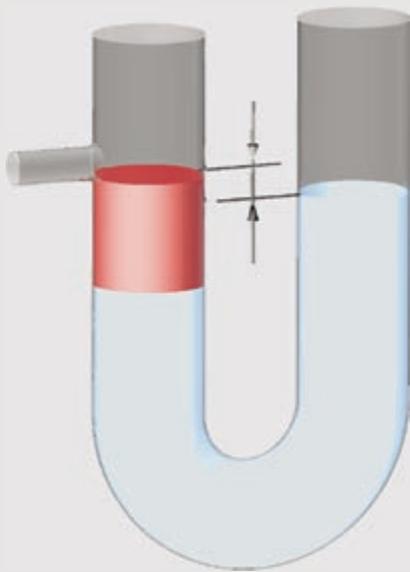
Material: HDPE



**Operation & Maintenance**  
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TECHNOLOGY THAT SEPARATES

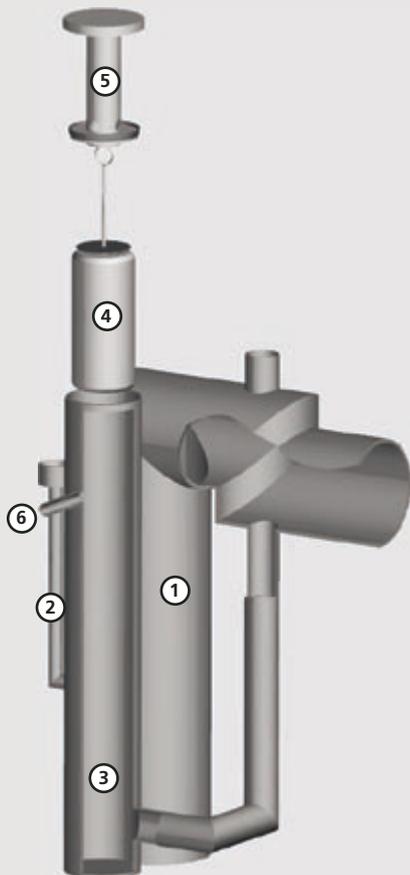
## Physical principles.



Two fluids with a different specific gravity build up a height difference in attached vertical tubes as shown in the drawing. As the pressure in both tubes has to be equal, the fluid level in the tube with the liquid of lower weight is higher than in the second tube. If the cross-sectional area of the tubes is the same, the weight of both liquid columns has to be the same.

In the automatic oil draw-off the outlet-aperture of the oil is above the outlet edge of the water. The float in the rising pipe makes sure, that only pure oil can reach the oil outlet pipe.

## Construction.

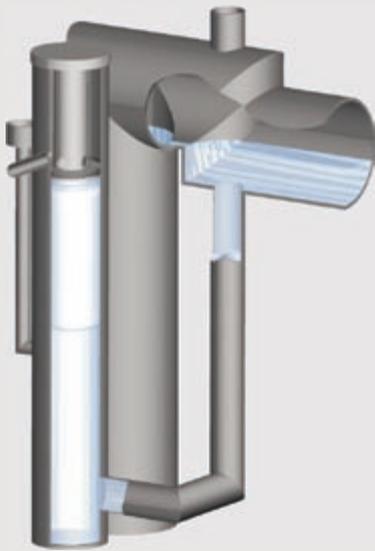


The automatic oil draw-off enables the user to remove any light liquid from the water surface of the oil-separator and to collect it in an oil recipient.

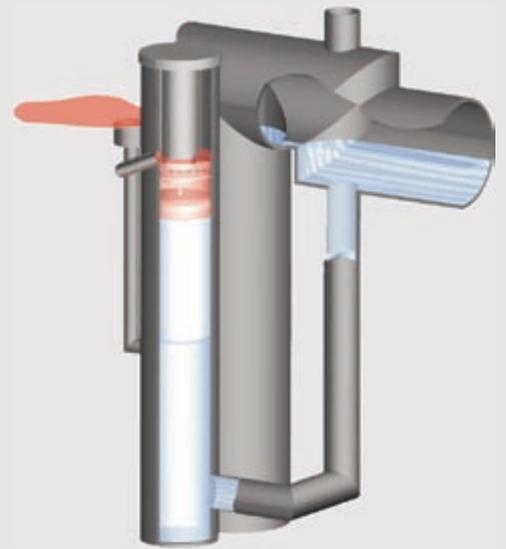
This automatic oil draw-off consists of:

- ① Water outlet pipe
- ② Oil inlet pipe
- ③ Rising pipe
- ④ Float with gasket
- ⑤ Cover with gasket
- ⑥ Oil outlet pipe

## Function.



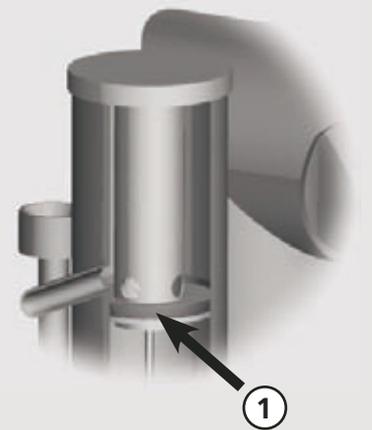
If the rising pipe of the automatic oil draw-off device is full of pure water, the float with the gasket ① closes the pipe of the cover ②. So it can be guaranteed that the water never reaches the oil outlet pipe ③. If there is enough oil in the separator it flows over across the oil inlet pipe and gets to the rising pipe. As soon as the oil layer reaches a height of about 20-30mm inside this pipe the float starts to drop and enables the way to the oil outlet pipe. If the oil layer decreases under 20-30mm the float seals



## Installation and putting into service.



First thing you have to do is to fill the complete unit with clear water. Untill that you have to make sure that no water passes the gasket ① of the cover and reaches the oil outlet pipe. If there's no water flowing through this outlet the automatic oil draw-off is prepared for operation. Otherwise please pull out the cover and make sure that the gasket is proper positioned in the slot. Before reinstalling the cover please grease the gasket and the rising pipe. After that check the tightness again.



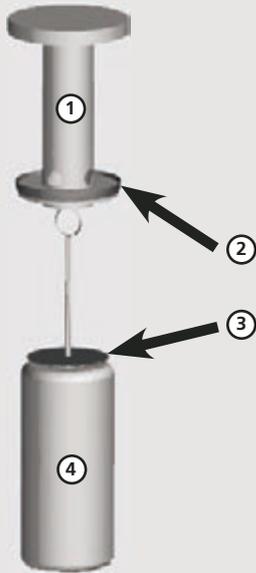
Note:

Do not start operating untill you've made sure that no pure water flows through the oil outlet pipe.

# Maintenance.

During operation it's recommended to check from time to time if the oil inlet pipe is not blocked.

## Replacement parts.



- ① Cover for rising pipe
- ② Gasket for cover
- ③ Gasket for float
- ④ Float