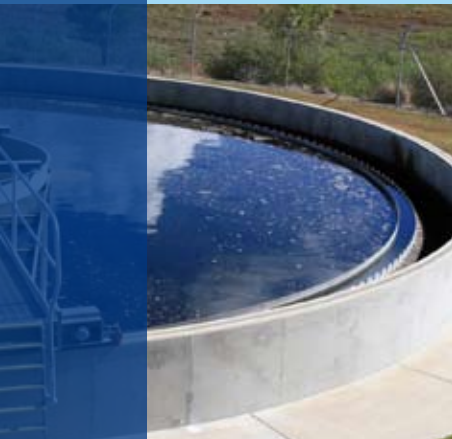


# Separators



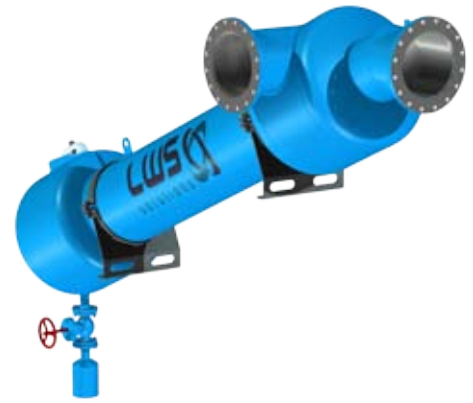
## General

LWS Solutions designs and manufactures separators. Simple and efficient filters to remove heavier solids from process flows. Separators use the liquid's velocity to create a centrifugal action in combination with the specific gravity of the solids to separate liquid and solids.

Separators are used in processes where heavier solids and dirt have to be removed out of a continuous process stream. This can be done in-line or with a dedicated side-stream system.

LWS Solutions builds custom designed separators, if required with abrasion and corrosion resistant coatings.

LWS Solutions separators are built according to international production codes. (ASME VIII, PED 97/23/EC, ADM 2000, EN 13445)



## Advantages

- efficient and continuous removal of heavier solids from liquids
- fully automatic, easy installation
- removal efficiency 20 micron and up
- low and constant pressure loss
- no consumable use, paper, cartridges or additives
- closed system, no air contact or smell
- limited maintenance, minimal labour, low operational costs
- no process interruptions
- available in a range from 1m<sup>3</sup> up to 3000m<sup>3</sup> per single unit

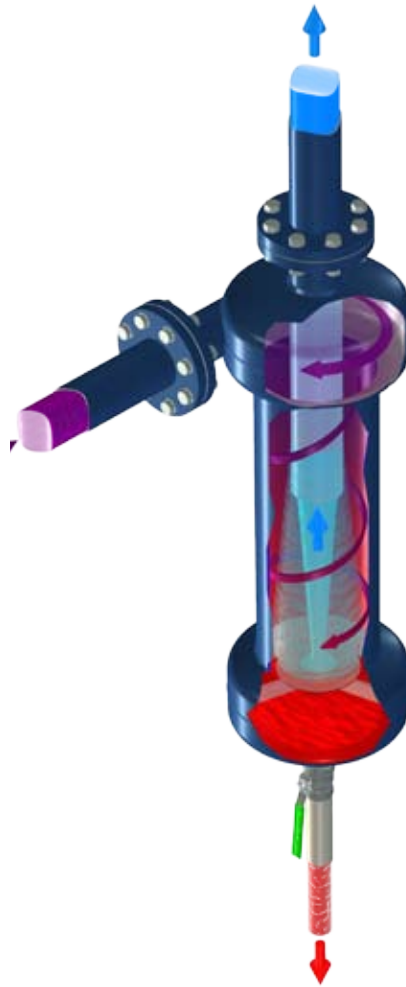
## Applications

- cooling towers and process cooling systems
- petrochemical and refineries
- water preparation, RO and evaporation systems
- power plants
- food industry
- sugar industry
- paper and pulp
- heating, ventilation and air-conditioning systems
- steel production
- metal processing
- car manufacturing
- chemical industry
- irrigation and fire fighting systems



## Working Principle

Liquid enters the top dome tangentially. The special inlet creates high centrifugal velocity. Centrifugal force moves the particles to the outside perimeter of the separator. Solids settle along the outside of the separator chamber and are collected in the purge chamber. Cleaned liquid is drawn up in the central vortex and leaves the separator through the top outlet. Collected matter is purged from the purge chamber, continuously or at set intervals.



## Features

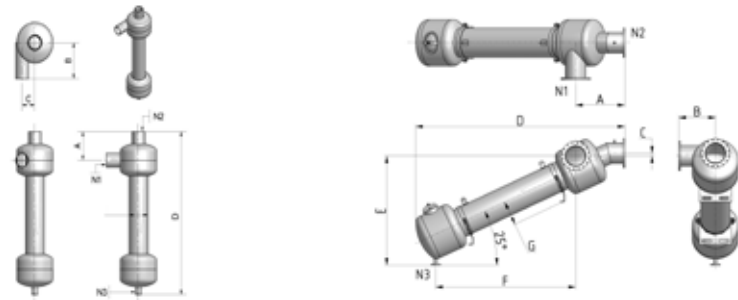
- |                                 |   |
|---------------------------------|---|
| Standard units are available in | Carbon Steel (outside epoxy coated)<br>Stainless steel 316L   |
| Connections and installation    | DN20 up to DN 100 (3/4" - 4")<br>victaulic coupling, BSP threads, or flanged<br>purge BSP threads DN 25 (1")<br>vertical installation<br>DN 125 up to DN 350 (5" - 14")<br>flanges DIN 2576<br>25° installation<br>Purge DN25-DN40-DN50<br>Inspection opening in purge chamber<br>Installation brackets and standard legs |
| Options                         | Abrasion and corrosion resistant coatings<br>Other materials available upon request<br>Purge systems<br>Tank sweeping systems   |



## General data

Type		Flanged/Threaded (BSP)/Victaulic				Flanged under 25° angle						
INLET - OURLET	PURPOSE (Socket, BSP Threaded)	A	B	C	D	A	B	C	D	E	F	G
N1-N2	1115											
DN20 - 3/4"	DN25	112	130	70	600							
DN25 - 1"	DN25	112	130	68	690							
DN32 - 1 1/4"	DN25	125	165	88	770							
DN40 - 1 1/2"	DN25	130	170	85	760							
DN50 - 2"	DN25	135	185	85	860							
DN65 - 2 1/2"	DN25	155	195	78	880							
DN80 - 3"	DN25	168	215	83	1040							
DN100 - 4"	DN25	275	279	100	1200							
DN125 - 5"	DN25	225	270	87	1270	350	270	15	1254	677	771	150
DN150 - 6"	DN25	270	345	150	1662	384	345	40	1582	918	1000	225
DN200 - 8"	DN40	340	412	125	2573	522	412	29	2453	1289	1733	225
DN250 - 50"	DN50	400	420	145	3010	631	420	38	2893	1547	1976	325
DN300 - 12"	DN50	440	550	162	3420	800	550	75	3382	1675	2296	325
DN350 - 14"	DN50	500	625	195	3667	848	625	46	3621	1930	2420	400

Above mentioned data are indications only.



## Micro Drum Filters and Strainers

Beside Separators we also develop and produce standard and custom made Micro Drum Filters and Strainers. If you are interested in our products please contact us by phone or by email.



## LWS Solutions BV



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