



Particle Separator

SF100



Agriculture



Industry
and water
treatment



- ✓ **High resistance to abrasion and long life:** The high density polyethylene shows a great resistance to erosion by friction with abrasive materials, compared to other materials such as metal, fibre cement, concrete, etc.
- ✓ **High efficiency**
- ✓ **No maintenance,** thanks to the absence of filtering elements or cartridges, as well as the possibility of installing an automatic drainage kit.
- ✓ **Great range of models** to cover a wide range of flow rates.
- ✓ **Modular format** and reduced size.



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No change without challenge

The Particle Separators PE-100 are able to separate by centrifugation mixtures of water and **suspended mineral solids, such as sand or slime, whose density is greater than that of the water.**

The internal design exerts a rotational and centrifugal force on the water that makes possible the separation of the solids.

Moreover, **its design prevents the separated particles stored in the tank from coming back to the water flow** because of the turbulence of the water.

Characteristics

The Particle Separators have been designed with **threaded and grooved connections in ¾", 1", 1½" and 2"**, and they cover a **flow rate ranging from 3 up to 30 m³/h**. Their modular format allow them to be installed individually or assembled in equipments (in line and double configuration), so that they adapt to the needs of any flow rate or installation.

Working flow rate (m³/h)		Working pressure	Materials	
¾" - Ø25	3 - 5	Minimum pressure: 1,5 bar Maximum pressure: 10 bar Recommended loss of pressure for an optimal separation: 0,5 - 2 bar	Body and internal parts of the separator	High Density Polyethylene PE-100
1" - Ø32	4 - 10		Grooved connections	High Density Polyethylene PE-100
1½" - Ø50	8 - 20		BSP Threads Inlet and outlet	Brass
2" - Ø63	12 - 30		BSP Thread Drainage	Brass

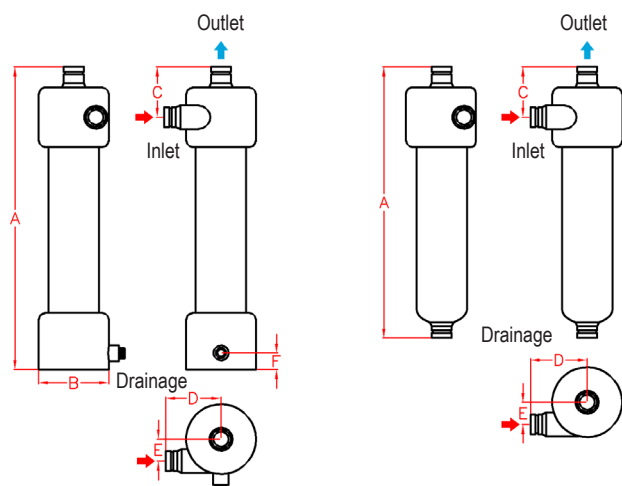
Dimensions

Model	Connections				Dimensions (mm)						Approx. volume of the tank (Litres)
		Inlet	Outlet	Drainage	A	B	C	D	E	F	
¾" Ø25	¾" Thread	Male Thread ¾"	Male Thread ¾"	Male Thread 1"	845	178	125	145	60	52	2,1
1" Ø32	1" Thread	Male Thread 1"	Male Thread 1"	Male Thread 1"	850	178	130	150	60	52	2,1
	1" Grooved **	Grooved 1"	Grooved 1"								
1½" Ø50	1½" Thread	Male Thread 1½"	Male Thread 1½"	Male Thread 1"	860	178	140	160	55	52	2,1
	1½" Grooved **	Grooved 1½"	Grooved 1½"								
2" Ø63	2" Thread	Male Thread 2"	Male Thread 2"	Male Thread 1"	960	222	160	180	70	52	3,7
	2" Grooved **	Grooved 2"	Grooved 2"								
2" Grooved (without tank)*		Grooved 2"	Grooved 2"	Male Thread 2"	860	--	160	180	70	--	--

BSP Thread

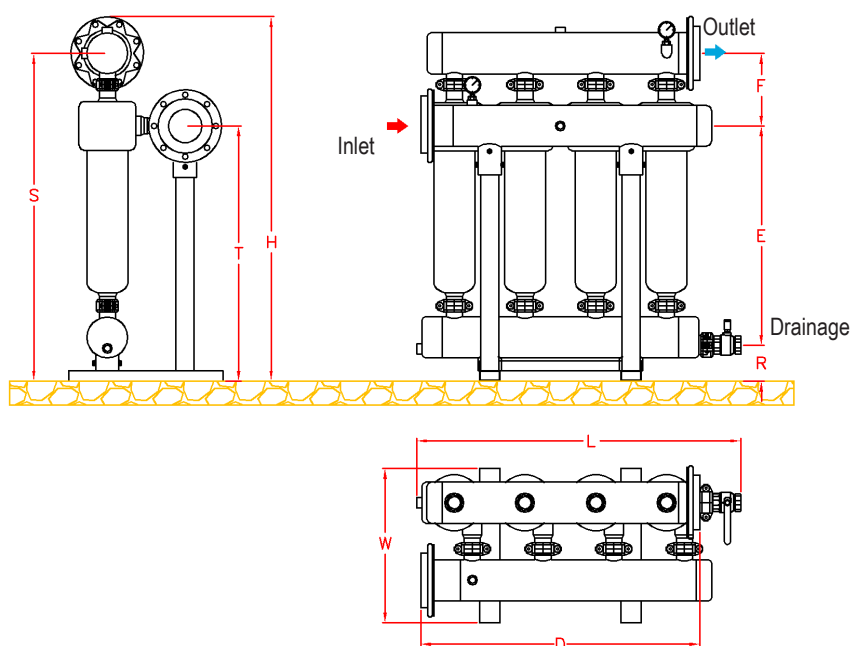
* Model without tank designed to be assembled in batteries or equipments with a common drainage manifold.

** The models with tank and 1", 1 ½" y 2" connections are manufactured with BSP threads + grooved adaptors.



Particle Separators Equipments (In line format)

Particle Separators Equipments (In line format)			Dimensions								
Model	Qty. of Separators 2"	Ø Manifold	F	E	D	L	W	R	T	S	H
ESPL202-03F	2	3" - 90 mm	246	852	718	806	500	140	993	1239	1364
ESPL202-04F	2	4" - 110 mm	256	852	718	806	500	140	998	1244	1421
ESPL203-04F	3	4" - 110 mm	256	852	932	1155	600	140	998	1244	1421
ESPL204-06F	4	6" - 160 mm	282	852	1084	1244	600	140	998	1274	1466
ESPL205-06F	5	6" - 160 mm	282	852	1520	1744	600	140	998	1274	1466
ESPL206-06F	6	6" - 160 mm	282	852	1798	2003	600	140	998	1274	1466
ESPL207-08F	7	8" - 200 mm	302	852	2073	2483	600	140	998	1294	1506



Automatic Drainage Kit

Saleplas recommends the installation of an automatic drainage kit for the Particle Separators, which will allow the user to set the time and duration of the drainage of the sediments accumulated in the tank.

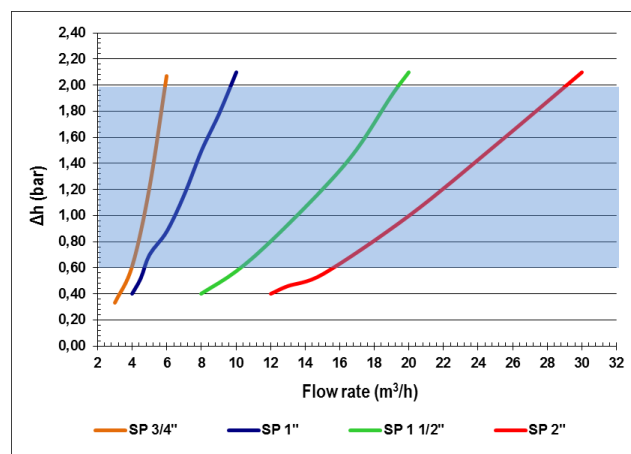
The kit includes:

- **Hydraulic valve.**
- **Controller (220V or batteries).**
- **All the materials needed for the connection and operation of the valves.**



Loss of pressure (Δh) vs Flow rate (Q)

Separator 3/4"		Separator 1"		Separator 1 1/2"		Separator 2"	
Q (m ³ /h)	Δh (bar)	Q (m ³ /h)	Δh (bar)	Q (m ³ /h)	Δh (bar)	Q (m ³ /h)	Δh (bar)
3,0	0,33	4,0	0,40	8,0	0,40	12,0	0,40
4,0	0,61	4,5	0,52	10,0	0,57	13,0	0,46
5,0	1,21	5,0	0,70	12,0	0,80	15,0	0,55
6,0	2,07	6,0	0,88	15,0	1,20	20,0	1,00
		7,0	1,16	17,0	1,51	25,0	1,54
		8,0	1,50	19,0	1,92	30,0	2,10
		9,0	1,78	20,0	2,10		
		10,0	2,10				



(*) Results obtained under normal working conditions with a continuous flow rate:

- Pressure range: 1.5 - 10 bar
- Size of particles: 70 - 40 μ

Separation efficiency vs Size of particles

Specific size of the particles Kg/dm ³	Size of the particles		
	70 μ	70 - 40 μ	< 40 μ
	*Estimated separation (%)		
7,8	98	90	65
4,2	93	75	51
2,4	92	70	38
1,9	75	27	8

(*) Results obtained under normal working conditions with a continuous flow rate and pressure range between 1.5 and 10 bar.

