

# SERIES F700

## SAND SEPARATORS - HYDROCYCLONE



### APPLICATIONS

Sand separator for well applications.

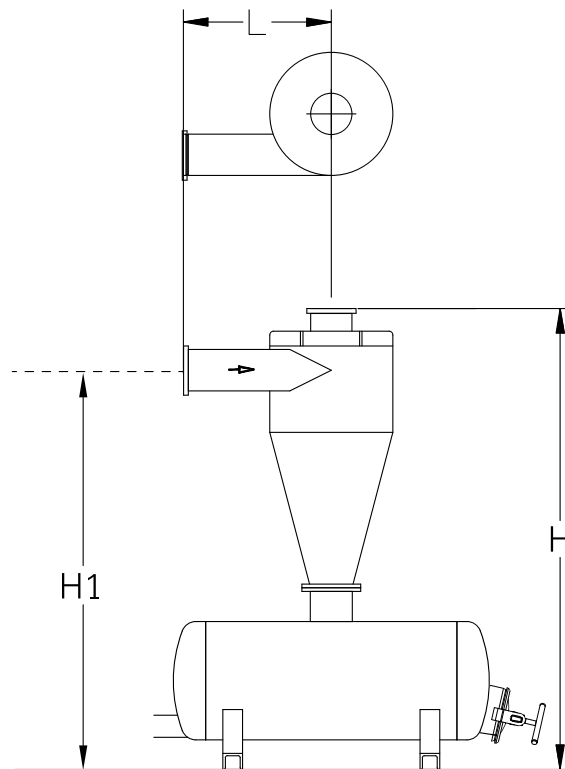
### STANDARD CHARACTERISTICS

- Filter housing material of construction: Carbon Steel ST37.2
- Pre-treatment: sand blasting up to Sa 2.5 grade
- Two layered coating process consisting of a one primary coating Rich Zinc (60 - 70µm thickness) and a final protective coating of Phenolic Epoxy (70 - 80µm thickness)
- Connections: Victaulic; Male Threaded and Flanged
- Maximum recommended working pressure: 10 Bar (145 psi)
- Inlet is tangential to the body
- Equipped with anti- vacuum valve
- Conical rubber protection or expendable connection on the joint between hydrocyclone and the sedimentation tank

### OPERATION

Water enters the hydrocyclone via the tangential inlet which creates a spiral flow along the walls of the filter. The centrifugal force separates the waste and sand particles and pushes them towards the walls of the sand separator. Those particles gravitate downwards into the sedimentation tank, while clean water moves upwards and exits through the top outlet. For the sand separator to operate correctly the head loss must remain between 2-5m. The separation efficiency is not affected by the accumulation of dirt in the sedimentation tank. The sedimentation tank is drained by opening a flush valve for a few seconds manually or automatically by timer.

MODEL	TANK	FLOW RATE	SEDIMENT DEPOSIT	H	H1	L	SHIPPING WEIGHT
INCH	LITRES	L/PH	TANK L	MM	MM	MM	KG
1"	1	4 - 8	2.5	600	460	160	10
1.5"	2.5	8 - 15	5	740	594	260	16
2"	5	14 - 18	5	900	755	305	23
3"	5	18 - 35	5	930	765	305	33
3" LF	5	35 - 45	5	930	765	305	33
3" in 4" out	60	45 - 72	30	1,550	1,285	465	75
4"	60	60 - 92	120	1,765	1,495	505	98
6"	150	100 - 150	150	1,996	1,671	605	187
6"	150	144 - 220	220	2,300	1,940	655	230
8"	300	220 - 330	300	2,897	2,492	705	328



### PRESSURE LOSS AT 120 MICRON

